



Atlantic Richfield Company  
(a BP affiliated company)

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**RECEIVED**

10:44 am, Sep 08, 2009

Alameda County  
Environmental Health



4 September 2009

Re: Soil & Ground-Water Investigation Report  
Former Richfield Oil Company Service Station #472  
6415 International Boulevard, Oakland, California  
ACEH Case #RO0002982

"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**

Former Richfield Oil Company Service Station No. 472  
6415 International Boulevard,  
Oakland, California  
ACEH Case No. RO0002982

**Prepared for:**

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

**Prepared by:**



1324 Mangrove Ave., Suite 212  
Chico, California 95926  
(530) 566-1400  
[www.broadbentinc.com](http://www.broadbentinc.com)

4 September 2009

Project No. 09-88-601

4 September 2009

Project No. 09-88-601

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

Attn.: Mr. Paul Supple

Re: Soil & Ground-Water Investigation Report, Former Richfield Oil Company Service Station  
No. 472, 6415 International Boulevard, Oakland, California; ACEH Case #RO0002982

Dear Mr. Supple:

Broadbent & Associates, Inc. (BAI) is pleased to submit this *Soil & Ground-Water Investigation Report* for Former Richfield Oil Company Service Station No. 472 located at 6415 International Boulevard, Oakland, California. This report presents a description of field activities conducted and results obtained from the advancement of three soil borings and subsequent installation of ground-water monitoring wells at the Site on 14 July 2009. This work was conducted in accordance with the *Work Plan for Soil & Ground-Water Investigation* (BAI, 30 March 2009) and the *Addendum Work Plan for Soil & Ground-Water Investigation* (BAI, 28 May 2009), as approved by Alameda County Environmental Health (ACEH) in their letter dated 11 June 2009.

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

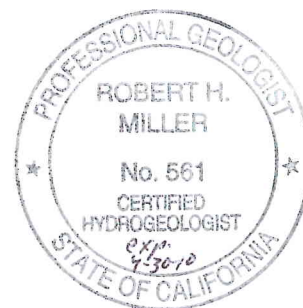
Sincerely,  
BROADBENT & ASSOCIATES, INC.



Thomas A. Venus, P.E.  
Senior Engineer



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



Enclosures

cc: Mr. Paresh Khatri, Alameda County Environmental Health (Submitted via ACEH ftp site)  
Electronic copy uploaded to GeoTracker

# SOIL & GROUND-WATER INVESTIGATION REPORT

Former Richfield Oil Company Service Station No. 472  
6415 International Boulevard  
Oakland, California

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## ATTACHMENTS

- Drawing 1    Site Location Map  
Drawing 2    Site Map with Soil Boring/Monitoring Well Locations

## APPENDICES

- Appendix A    Recent Regulatory Correspondence  
Appendix B    Stratus Monitoring Well Installation Data Package (Includes Field Data Sheets, Boring Logs, Drilling Permit, Well Completion Reports, Site Plan, and Certified Laboratory Analytical Report with Chain-of-Custody Documentation)  
Appendix C    GeoTracker Upload Confirmation Receipts

# SOIL & GROUND-WATER INVESTIGATION REPORT

Former Richfield Oil Company Station No. 472

6415 International Boulevard

Oakland, 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 Former Richfield Oil Company Station No. 472 (herein referred to as Station No. 472), located at 6415 International Boulevard, Oakland, California (Site). The on-site soil and ground-water investigation was completed to assess the extent and/or significance of soil and ground-water contamination at the Site. Investigation activities were conducted in accordance with the *Work Plan for Soil & Ground-Water Investigation* (BAI, 30 March 2009) as amended by the *Addendum Work Plan for Soil & Ground-Water Investigation* (BAI, 28 May 2009) and approved by Alameda County Environmental Health (ACEH) in their response letter dated 11 June 2009. Copies of recent regulatory correspondence are provided in Appendix A. This report includes discussions on the Site Background, Site Geology and Hydrogeology, Field Activities Performed, Results of the Investigation, Conclusions and Recommendations.

## 2.0 SITE BACKGROUND

Most recently, the Site is a former liquor store located on the south corner of the intersection of International Boulevard (formerly East 14<sup>th</sup> Street) and 64<sup>th</sup> Avenue in Oakland, California (Drawing 1). The Site is located in a mixed residential and commercial area. Site improvements consist of a single-story concrete-block building, several perimeter and interior metal fences and predominantly covered with asphalt and concrete. Two large metals storage/shipping containers are presently located onsite on the south side of the building. The Site is located on an approximately 0.27 acre parcel of property recognized by Alameda County as Assessors Parcel Number 41-4050-21. The Site is located in Section 16, Township 2 South, Range 3 West, relative to the Mount Diablo Baseline and Meridian of Northern California. The Site can be located on the Oakland East, California 7½-minute topographic quadrangle map of the United States Geological Survey (USGS). A Site Location Map is presented as Drawing 1.

In 1947, Richfield Oil Company purchased the property for the construction of a service station with completion taking place in 1949. The service station was operated by various Richfield Oil Company dealers from 1949 to 1970. In 1966 two 4,000 gallon and one 6,000 gallon replacement underground storage tanks (USTs) were installed on the property. Richfield Oil Company sold the property in 1971 to the Natrass Corporation.

In May 2007, AAI Environmental Corporation (AAI) conducted a Phase I Environmental Site Assessment (ESA) on the property. Work included review of environmental and regulatory databases and site reconnaissance prior to selling the property. AAI reported that one or two USTs were previously removed from the northeast corner of the property prior to 1976, but no soil sampling data or removal report were found to confirm the information given. Sampling and reporting information was likely not required at that time. The AAI site reconnaissance reportedly did not identify any potential concerns. However, AAI recommended a limited Phase

II Environmental Site Assessment on the property to assess the former presence of the USTs and/or legacy environmental contamination (AAI, 5/9/2007).

In April 2008, GEOCON conducted a Limited Phase II Environmental Site investigation on the Site. Work included the advancement of six soil borings (SB-1 through SB-6) down to 31 feet below ground surface (ft bgs) at the locations shown on Drawing 2. Soil samples were collected from each boring and ground-water samples were collected from borings SB-1, SB-2, SB-3 and SB-5. Soil boring SB-1 was drilled on the backside of the property to assess the potential for off-site contaminant migration. Borings SB-2, SB-3, SB-5 and SB-6 were advanced in the area suspected of containing the former USTs. SB-4 was advanced to assess a former pump island. Soil samples from borings SB-1 through SB-6 contained Total Petroleum Hydrocarbons in the Gasoline Range (TPH-G) at concentrations up to 95 milligrams per kilogram (mg/kg) (SB-6 at 14 ft bgs), Total Petroleum Hydrocarbons in the Diesel Range (TPH-D) at concentrations up to 20 mg/kg (SB-2 at 20 ft bgs), and Total Petroleum Hydrocarbons in the Motor Oil Range (TPH-MO) at concentrations up to 51 mg/kg (SB-2 at 20 ft bgs). Ground-water samples from borings SB-1, SB-2, SB-3 and SB-5 contained TPH-G at concentrations up to 8.1 milligrams per liter (mg/L) (SB-3), TPH-D at concentrations up to 7.2 mg/L (SB-3), and TPH-MO at concentrations up to 0.18 mg/L (SB-5). No concentrations of Benzene, Toluene, Ethylbenzene, or Xylenes (BTEX) were detected above the laboratory reporting limits in the soil or ground-water samples collected (GEOCON, 5/7/2008).

In a letter dated 29 January 2009, ACEH requested completion of an Unauthorized Release Report (URR), and soil and ground-water investigation work plan. A URR was submitted to ACEH on 20 February 2009. A *Work Plan for Soil and Ground-Water Investigation* was submitted to ACEH on 30 March 2009. In a letter dated 16 April 2009, ACEH requested an addendum work plan. An *Addendum Work Plan for Soil and Ground-Water Investigation* was submitted to ACEH on 28 May 2009. In a letter dated 11 June 2009, ACEH approved the *Addendum Work Plan for Soil and Ground-Water Investigation*. The implementation of this work plan is discussed in Section 4.0.

### **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 Oakland Sub-Area of the East Bay Plain of the San Francisco Basin. The Oakland Sub-Area contains a sequence of alluvial fans. The alluvial fill thickness ranges from 300 to 700 feet deep. There are no well-defined aquitards such as estuarine muds. The largest and deepest wells in this sub-area historically pumped one to two million gallons per day at depths greater than 200 feet. Overall, sustainable yields are low due in part to low recharge potential. The Merrit sand in West Oakland was an important part of the early water supply for the City of Oakland. It is shallow (up to 60 feet), but before the turn of the last century, septic systems contaminated the water supply wells.

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 to west direction. The nearest natural drainage is Lion Creek, located approximately 0.43 miles southwest of the Site. Lion Creek flows generally northeast to southwest near the Site vicinity. The San Leandro Bay is located approximately 1.1 miles west of the Site.

According to the *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report*, the City of Oakland does 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.” However, the RWQCB’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 (SFRWQCB, 6/1999).

The Site elevation is approximately 24 feet above mean sea level. According to soil boring logs from the Phase II investigation, soils encountered at the Site consisted primarily of sandy and silty clay from near ground surface to the total depth of 31 ft bgs at boring SB-6. clayey gravel was encountered in borings SB-1 through SB-3 and SB-6 at depths ranging from six to twelve ft bgs, and in boring SB-1 and SB-2 at depths of 14 to 15 ft bgs. Some gravely sand was also observed in boring SB-3 from 12 to 16 ft bgs, in boring SB-4 from five to eight ft bgs, SB-5 from 14 to 16 ft bgs, and boring SB-6 from 7.5 to nine ft bgs. In soil boring SB-5, 10 feet of fill was observed. Due to the presence of the fill, SB-5 is within the assumed location of a former UST(s), since removed. Ground water was initially encountered during Phase II drilling activities at approximately 21 ft bgs and rose to stabilize at approximately 9 ft bgs within the borings. No historical ground-water gradient or flow direction data is available for the Site.

#### **4.0 FIELD ACTIVITIES PERFORMED**

This on-site investigation was completed to assess the extent and/or significance of soil and ground-water contamination at the Site. On 14 July 2009, Stratus oversaw RSI Drilling, Inc. of Woodland California (RSI) advance three hollow-stem auger soil borings (identified as MW-1, MW-2, and MW-3) on the Site. Soil boring MW-1 (completed as well MW-1) was located approximately five feet southwest of the sidewalk on International Boulevard and centered in the concrete area in front of the building. Assuming a ground-water flow direction towards the southwest, boring MW-1 is upgradient and located northeast of SB-4 and the former fuel dispenser island. Soil boring MW-2 (completed as well MW-2) was located approximately 10 feet in from the sidewalk on 64<sup>th</sup> Avenue and from the back of the property, southwest of SB-5 and the assumed location of the former USTs. Soil boring MW-3 (completed as well MW-3) was located in the south corner of the property approximately 20 feet in from the back of the property and former store. The soil boring/monitoring well locations from this investigation are shown in Drawing 2.

#### **4.1 Preliminary Field Activities**

Prior to initiating field activities, Stratus obtained the necessary well drilling permits from the Alameda County Public Works Agency (See Appendix B), 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 of the work a minimum of 48 hours prior to initiating the field investigation, and additionally securing the services of Cruz Brothers, a private utility locating company to confirm the absence of underground utilities at the boring locations. A sketch of the underground utilities located at the Site is provided within the field data package in Appendix B. It should be noted that instruments sensed a large metal object buried in the northern portion of the Site, northeast of the former boring SB-6. The proposed boring locations did not require relocation due to conflicts with underground utilities or obstructions. Boreholes were physically cleared by RSI and Stratus to 6.5 ft bgs using an air knife rig on 14 July 2009.

#### **4.2 Soil Boring Advancement and Soil Sampling**

On 17 July 2009, Stratus field personnel observed RSI advance three soil borings (MW-1, MW-2, and MW-3) to total depths of 17 ft bgs using a Geoprobe 6620 DT drill rig equipped with 10-inch diameter hollow-stem augers. Physical soil samples were collected at specific depths for laboratory analysis as recommended in the work plan, based on field observations, and the recommendations from ACEH. Soil boring logs are provided within Appendix B.

Soil boring MW-1 was advanced to a total depth of 17 ft bgs. Soil samples were collected from boring MW-1 at 6.5, 8.0, 9.5, 11, 12.5 and 14.5 ft bgs. Clayey sand with silt and gravel was observed from approximately zero to 7.5 ft bgs. Clayey silt with sand and gravel was encountered from approximately 7.5 to 12 ft bgs. Clayey sand was observed from approximately 12 to 12.5 ft bgs and 13.5 to 14.5 ft bgs. Clayey silt was encountered from approximately 12.5 to 13.5 ft bgs and 14.5 to 17 ft bgs, the total depth explored. No obvious visual contamination was reported. Following the completion of soil boring advancement and collection of samples, well installation activities began for well MW-1.

Soil boring MW-2 was advanced to a total depth of 17 ft bgs. Soil samples were collected from boring MW-2 at 6.5, 8.0, 9.5, 11, 12.5, 14.5 and 17 ft bgs. Clayey sand with silt and gravel was observed from approximately zero to eight ft bgs, 9.5 to 11.5 ft bgs, 12.5 to 13 ft bgs, and 14 to 14.5 ft bgs. Clayey silt was encountered from approximately eight to 9.5 ft bgs, 11.5 to 12.5 ft bgs, 13 to 14 ft bgs, and 14.5 to 17 ft bgs, the total depth explored. No obvious visual contamination was reported. Following completion of soil boring advancement and collection of samples, well installation activities began for well MW-2.

Soil boring MW-3 was advanced to a total depth of 17 ft bgs. Soil samples were collected from boring MW-3 at 6.5, 8.0, 9.5, 11, 12.5, 14.5, and 17 ft bgs. No obvious visual contamination was reported. Silty clay with sand was observed from approximately zero to eight ft bgs. Silty clay with sand and gravel was encountered from approximately eight to nine ft bgs. Clayey sand with silt and gravel was observed from approximately nine to 10 ft bgs and 15 to 16.5 ft bgs. Clayey silt was encountered from approximately 10 to 15 ft bgs and 16.5 to 17 ft bgs, the total depth



explored. Following completion of soil boring advancement and collection of samples, well installation activities began for well MW-3.

#### **4.3 Monitoring Well Construction**

Monitoring wells MW-1, MW-2, and MW-3 were constructed using flush-threaded, four-inch diameter Schedule 40 PVC pipe. The factory-slotted 0.010-inch screen interval extends from seven ft bgs to 17 ft bgs in each well. The filter pack surrounding the screen intervals consists of No.2/12 silica sand from five ft bgs to 17 ft bgs in wells MW-1, MW-2, and MW-3. Each well was sealed with bentonite from three ft bgs to five ft bgs, and with Portland cement grout from ground surface to three ft bgs. Each wellhead was secured with a locking well cap, and protected by a traffic-rated well vault set flush with the local ground surface. Additional details of well construction are provided in the field notes, lithologic boring logs and well construction logs provided in Appendix B. Well construction information was uploaded to the GeoTracker AB2886 database. Copies of GeoTracker upload confirmation receipts are provided within Appendix C.

#### **4.4 Well Development and Surveying**

Monitor wells MW-1, MW-2 and MW-3 were developed on 4 August 2009. Well development activities for each well consisted of surging and bailing the well until relatively silt-free water was removed. Each well was purged using a bailer. Each well ran dry after approximately 14 gallons of water were removed. After allowing each well to recharge, an additional seven gallons of water were purged from each well. The total amount of water purged from each well, approximately 21 gallons, was less than the targeted goal of 10 wetted casing volumes. The total depth of well MW-2 was recorded as 13.98 feet bgs during development activities. However, the total depth of this well was stated to be 17 feet bgs on the boring log. This anomaly is possibly due to accumulation of sediment in the bottom of the well. The total depth of well MW-2 will be carefully monitored during the third quarter 2009 ground-water monitoring event and redeveloped, if necessary, to remove the sediment.

The Site was surveyed, incorporating new wells MW-1, MW-2, and MW-3, by Wood Rodgers of Sacramento, California on 3 August 2009. The survey map from Wood Rodgers is provided within Appendix B. The well survey information was uploaded to the GeoTracker AB2886 database. Copies of the GeoTracker upload confirmation receipts (GEO\_MAP, GEO\_XY, and GEO\_Z files) are provided within Appendix C.

Ground-water samples will be collected during the third quarter ground-water monitoring event and a summary of the results reported under separate cover.

#### **4.5 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 Atlantic Richfield Company-approved facility for treatment or disposal.

## 5.0 RESULTS OF INVESTIGATION

Soil samples were shipped to Calscience Environmental Laboratories, Inc. (Garden Grove), a California State-certified laboratory, under chain-of-custody protocol. Samples were analyzed for Gasoline Range Organics (GRO, hydrocarbon chain lengths C6-12), Diesel Range Organics (DRO, C10-C28) and Motor Oil Range Organics (ORO, C17-C44) by EPA Method 8015B and BTEX by EPA Method 8260. Oxygenates were not included in the soil analysis schedule due to the age of the former release. No significant irregularities were reported during laboratory analysis of the soil boring samples.

The tested analytes were not detected above their respective reporting limits in the 20 soil samples collected for laboratory analysis with the exception of one sample containing GRO, which was detected at a concentration of 0.87 mg/kg in boring MW-1 at 14.5 ft bgs. A copy of the laboratory analytical report with chain-of-custody documentation is provided in Appendix B. Laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 database. Upload confirmation pages are provided in Appendix C.

## 6.0 CONCLUSIONS

On behalf of the Atlantic Richfield Company, RM – a BP affiliated company, BAI prepared this Soil & Ground-Water Investigation Report for Station No. 472, located at 6415 International Boulevard, Oakland, California. Investigation activities were conducted in accordance with the *Work Plan for Soil & Ground-Water Investigation* (BAI, 30 March 2009) and the *Addendum Work Plan for Soil & Ground-Water Investigation* (BAI, 28 May 2009), as approved by ACEH in their response letter dated 11 June 2009. Based on the information obtained and presented in this report, BAI concludes the following:

- No petroleum hydrocarbons were detected in the 20 soil samples collected during monitoring well installation activities with the exception of one sample containing GRO, which was detected at a concentration of 0.87 mg/kg in boring MW-1 at 14.5 ft bgs.
- It should be remembered from the layout plan that although MW-1 is from near the former pump island, it is also on the assumed upgradient side of the Site.
- The detected concentration of 0.87 mg/kg in boring MW-1 at 14.5 ft bgs is well below the Environmental Screening Level of 83 mg/kg established by the SFRWQCB for shallow residential soils where ground water is considered a current or potential drinking water source.

## 7.0 RECOMMENDATIONS

Based on the information obtained and presented in this soil and ground-water investigation report, BAI makes the following recommendations:

- The significant sediment observed in the bottom of well MW-2 after discontinuing development should be removed.
- One year of quarterly monitoring and sampling should be performed to seek trends in the ground-water flow direction, horizontal gradients, and contaminant concentrations.

## 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 Calscience Environmental Laboratories, Inc. (Garden Grove, 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 ground-water conditions could exist beyond the points explored in this investigation. Also, changes in site conditions could occur at some time in the future due to variations in rainfall, temperature, regional water usage or other factors.

## 9.0 REFERENCES

AAI, 9 May 2007. *Phase I Environmental Site Assessment Report, Former Gasoline Station Pluckey's Liquors, 6415 International Boulevard, Oakland, California.*  
Prepared for Mr. Marcelo Bermudez, Freeman.

ACEH, 29 January 2009. *Fuel Leak Case No. RO 0002982 and GeoTracker Global ID T1000000417, ARCO #472/Pluckey's Liquor, 6415 International Boulevard, Oakland, CA 94621.* Letter from Mr. Paresh Khatri (ACEH) to Mr. Paul Supple (Atlantic Richfield Company) requesting unauthorized release form and soil and water investigation work plan.

ACEH, 16 April 2009. *Fuel Leak Case No. RO 0002982 and GeoTracker Global ID T1000000417, ARCO #472/Pluckey's Liquor, 6415 International Boulevard, Oakland, CA 94621.* Letter from Mr. Paresh Khatri (ACEH) to Mr. Paul Supple (Atlantic Richfield Company) requesting addendum work plan.

ACEH, 11 June 2009. *Fuel Leak Case No. RO 0002982 and GeoTracker Global ID T1000000417, ARCO #472/Pluckey's Liquor, 6415 International Boulevard, Oakland, CA 94621.* Letter from Mr. Paresh Khatri (ACEH) to Mr. Paul Supple (Atlantic Richfield Company) approving work plan.

Broadbent & Associates, Inc., 20 February 2009. *Underground Storage Tank Unauthorized Release (Leak)/ Contamination Site Report, Atlantic Richfield Company Station No. 472, 6415 International Boulevard, Oakland, CA, ACEH Case No. RO0002982.*

Broadbent & Associates, Inc., 30 March 2009. *Work Plan for Soil & Ground-Water Investigation, Atlantic Richfield Company Station No. 472, 6415 International Boulevard, Oakland, CA, ACEH Case No. RO0002982.*

Broadbent & Associates, Inc., 28 May 2009. *Addendum Work Plan for Soil & Ground-Water Investigation, Atlantic Richfield Company Station No. 472, 6415 International Boulevard, Oakland, CA, ACEH Case No. RO0002982.*

California Regional Water Quality Control Board, San Francisco Bay Region, Groundwater Committee, June 1999. *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report, Alameda County and Contra Costa Counties, CA.*

GEOCON, 7 May 2008. *Limited Soil and Grab Groundwater Sampling Report, Plucky's Liquors/ Former Gasoline Station, 6415 International Boulevard, Oakland, California.* Prepared for Ms. Holly Moore, DGC Associates.

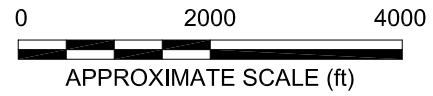
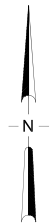
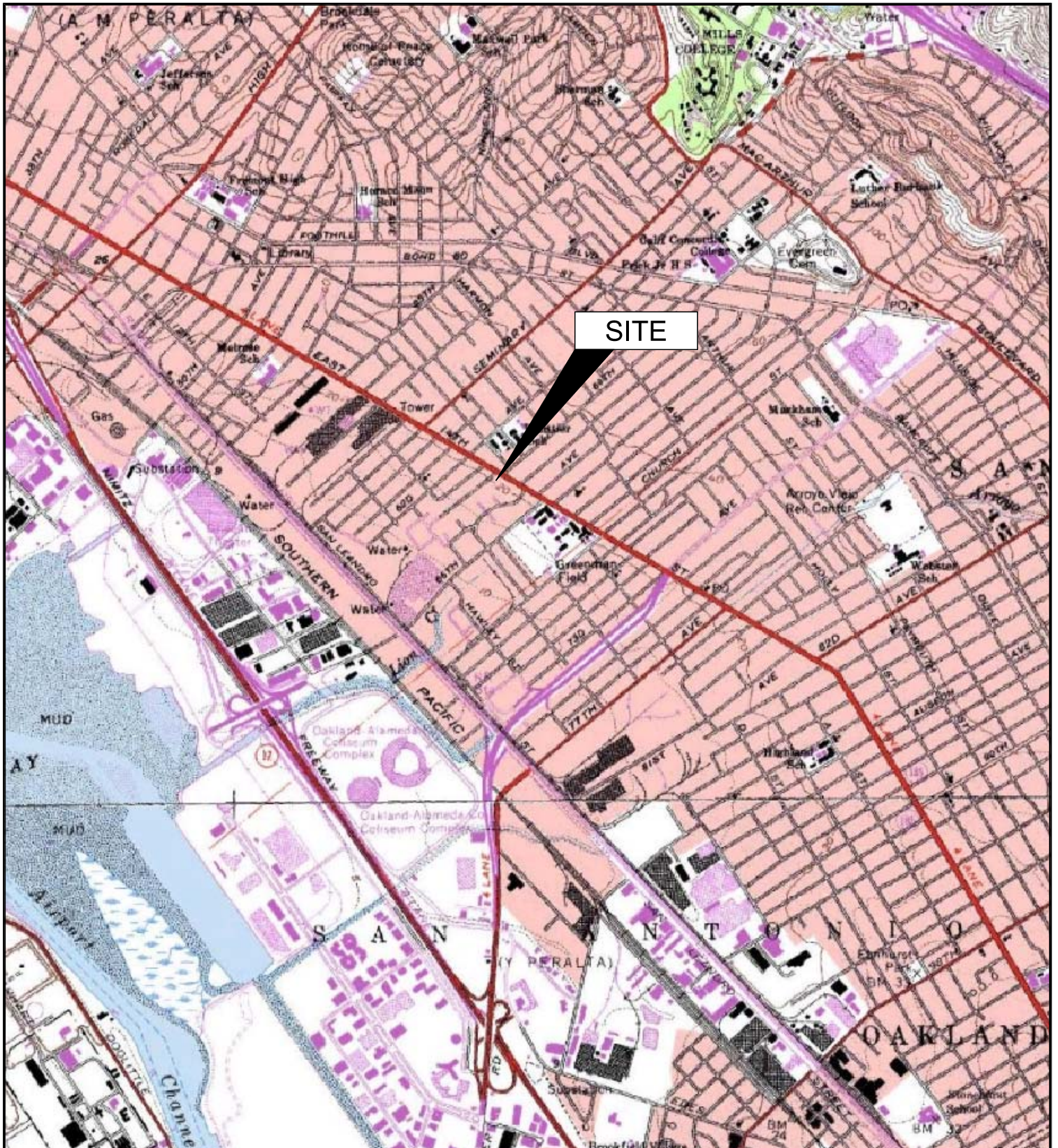
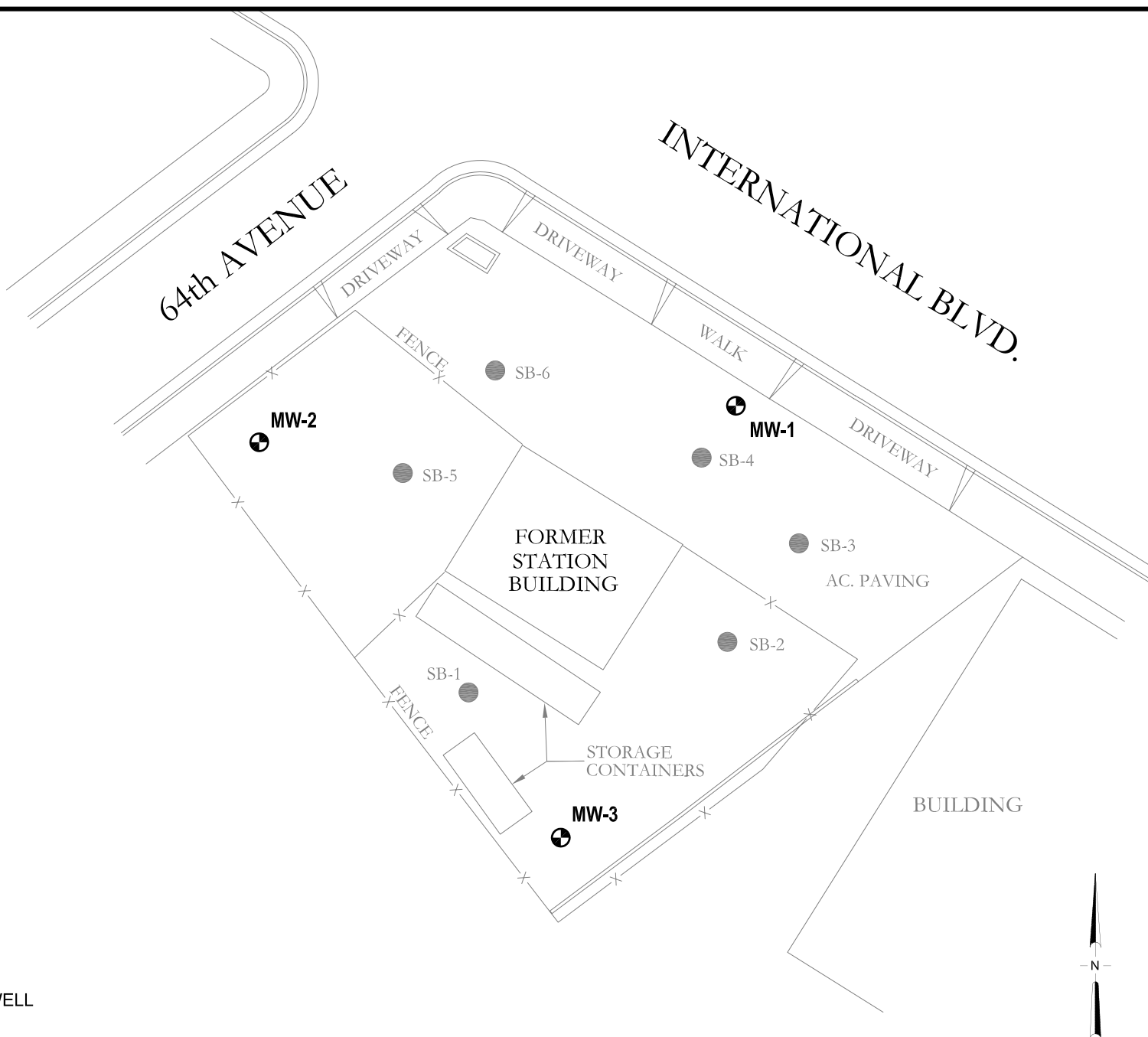
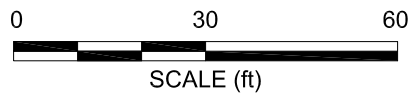
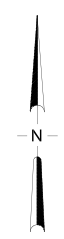


IMAGE SOURCE: USGS



**LEGEND**

-  MONITORING WELL
-  SOIL BORING



**BROADBENT & ASSOCIATES, INC.**  
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL  
 1324 Mangrove Ave. Suite 212, Chico, California  
 Project No.: 09-88-601    Date: 8/27/09

Former Station #472  
 6415 International Boulevard  
 Oakland, California

Site Map with Soil Boring/  
 Monitoring Well Locations

Drawing

**2**

**APPENDIX A**

**RECENT REGULATORY CORRESPONDENCE**

ALAMEDA COUNTY  
**HEALTH CARE SERVICES**  
AGENCY  
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES  
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January 29, 2009

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P.O. Box 1257  
San Ramon, CA 94583

Pluckey, Inc.  
Address Unknown

Subject: Fuel Leak Case No. RO0002982 and GeoTracker Global ID T10000000417, ACRO # /  
Pluckey's Liquors, 6415 International Boulevard, Oakland, CA 94621

Dear Responsible Parties:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site including the recently submitted document entitled, "Limited Soil and Grab Groundwater Sampling Report," dated May 7, 2008, which was prepared by Geocon Consultants for the subject site. The report documents a Phase II subsurface investigation conducted to determine soil and groundwater quality at the subject site due to its previous use as a gasoline station that utilized underground storage tanks. Geocon advanced six soil borings and collected soil and groundwater samples. Total petroleum hydrocarbons (TPH) as gasoline (g), diesel (d), and motor oil (mo) were detected in soil samples at maximum concentrations of 95 milligrams per kilogram (mg/kg), 20 mg/kg, 51 mg/kg, respectively, indicating that the soil has been impacted with petroleum hydrocarbons. "Grab" groundwater sample analytical results detected TPH-g, TPH-d, TPH-mo at maximum concentrations of 8,100 µg/L, 7,200 µg/L, and 180 µg/L, respectively, indicating that the groundwater has also been impacted with petroleum hydrocarbons. Please complete and submit an Underground Storage Tank Unauthorized Release Form (available online at [http://www.swrcb.ca.gov/ust/forms/docs/unauth\\_release.pdf](http://www.swrcb.ca.gov/ust/forms/docs/unauth_release.pdf)) within 30 days from the date of this letter. A Notice of Responsibility will be mailed to you within 15 days from the date of this letter.

Based on the analytical results, a subsurface investigation is required to determine the vertical and lateral extent of soil and groundwater contamination. It is recommended that a series of borings are installed prior to the installation of permanent groundwater monitoring points.

ACEH requests that you address the above-mentioned concerns and send us the technical work plan requested below.



### TECHNICAL REPORT REQUEST

Please submit technical reports to ACEH (Attention: Paresh Khatri), according to the following schedule:

- **March 2, 2009** – Unauthorized Release Form
- **March 30, 2009** – Soil and Water Investigation Work Plan

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

### ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements ([http://www.swrcb.ca.gov/ust/electronic\\_submittal/report\\_rqmts.shtml](http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml)).

### PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

### PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering

evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

#### **UNDERGROUND STORAGE TANK CLEANUP FUND**

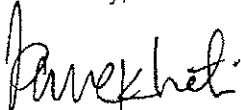
Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

#### **AGENCY OVERSIGHT**

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 777-2478 or send me an electronic mail message at [paresh.khatri@acgov.org](mailto:paresh.khatri@acgov.org).

Sincerely,



Paresh C. Khatri  
Hazardous Materials Specialist



Donna L. Drogos, PE  
Supervising Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions  
List of Environmental Consultants

cc: Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA  
94612-2032  
Donna Drogos, ACEH  
Paresh Khatri, ACEH  
File

<b>Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)</b>	<b>ISSUE DATE:</b> July 5, 2005
	<b>REVISION DATE:</b> December 16, 2005
	<b>PREVIOUS REVISIONS:</b> October 31, 2005
<b>SECTION:</b> Miscellaneous Administrative Topics & Procedures	<b>SUBJECT:</b> Electronic Report Upload (ftp) Instructions

Effective **January 31, 2006**, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

#### REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection**. (Please do not submit reports as attachments to electronic mail.)
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements **must** be included and have either original or electronic signature.
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:  
RO#\_Report Name\_Year-Month-Date (e.g., RO#5555\_WorkPlan\_2005-06-14)

#### Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in **Excel** format. These are for use by assigned Caseworker only.

#### Submission Instructions

- 1) Obtain User Name and Password:
  - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
    - i) Send an e-mail to [dehloptoxic@acgov.org](mailto:dehloptoxic@acgov.org)  
or
    - ii) Send a fax on company letterhead to (510) 337-9335, to the attention of Alicia Lam-Finneke.
  - b) In the subject line of your request, be sure to include "**ftp PASSWORD REQUEST**" and in the body of your request, include the **Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
  - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
    - (i) Note: Netscape and Firefox browsers will not open the FTP site.
  - b) Click on File, then on Login As.
  - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
  - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
  - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
  - a) Send email to [dehloptoxic@acgov.org](mailto:dehloptoxic@acgov.org) notify us that you have placed a report on our ftp site.
  - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name at acgov.org. (e.g., firstname.lastname@acgov.org)
  - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload)

## List of Environmental Consultants

---

A+ Environmental Solutions  
6898 Soquel Avenue  
Santa Cruz, CA 95062  
(831) 475-9200

ACC Environmental Consultants  
7977 Capwell Dr., Suite 100  
Oakland, CA 94621  
510-638-8400

Alisto Engineering Group  
3732 Mt. Diablo Blvd., Ste. 270  
Lafayette, CA 94549  
925-962-6970

Antrim Engineering & Construction  
1635 Chestnut Street  
Livermore, CA 94550  
925-426-2444

Applied Remediation Co.  
P.O. Box 612421  
San Jose, CA 95161  
402-453-0188

Aquifer Sciences, Inc.  
3680-A Mt. Diablo Blvd  
Lafayette, CA 94549  
925-283-9098

ATC Associates Inc.  
6602 Owens Dr., Ste. 100  
Pleasanton, CA 94588  
925-460-5300

Atlas Engineering Services Inc  
P.O. Box 1260  
Santa Cruz, CA 95061  
650-363-2445

Berlogar Geotechnical Associates  
5587 Sunol Blvd.  
Pleasanton, CA 94566  
925-484-0220

Blaine Tech Services  
1680 Rogers Ave  
San Jose, CA 95112  
408-573-0555

Blue Rock Environmental  
1169 Chess Drive  
Foster City, CA 94404  
650-301-4946

Blymer Engineers Inc.  
1829 Clement Ave  
Alameda, CA 94501  
510-521-3773

Brown & Caldwell  
P. O. Box 8045  
Walnut Creek, CA 94596  
925-937-9010

Broadbent & Associates, Inc.  
1324 Mangrove Drive  
Chico, CA 95926  
530-566-1400

BSK  
1181 Quarry Ln  
Pleasanton, CA 94566  
925-462-4000

Chow Engineering, Inc.  
7700 Edgewater Dr., Ste 729  
Oakland, CA 94621  
510-636-8500

Clayton Environmental Consultants  
6920 Koll Ctr. Pkwy., Ste. 216  
Pleasanton, CA 94566  
925-426-2600

Clearwater Group  
229 Tewksbury Ave.  
Pt. Richmond, CA 94801  
510-307-9943

Conestoga-Rovers & Associates  
5900 Hollis Street, Suite A  
Emeryville, CA 94608  
510-420-0700

Converse Consultants  
222 East Huntington Dr, Suite 211  
Monrovia, CA 94016  
626-930-1200

Environmental Resolutions  
601 North McDowell Blvd.  
Petaluma, CA 94954  
707-766-2000

Environmental Science Associates  
225 Bush St., Suite 1700  
San Francisco, CA 94104  
415-896-5900

## List of Environmental Consultants

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Eras Environmental, Inc.  
1533 "B" Street  
Hayward, CA 94541  
510-247-9885

Erler & Kalinowski Inc.  
1870 Ogden Drive  
Burlingame, CA 94010  
650-292-9100

ES Geotechnology  
446 South Hillview Drive  
Milpitas, CA 95035-546  
510-353-0320

Etic Engineering  
2285 Morello Avenue  
Pleasant Hill, CA 94523  
925-602-4710

Fletcher Consultants, Inc.  
4858 Harbord Drive  
Oakland, CA 94618  
510-599-1799

Frey Environmental, Inc.  
3040 Prather Lane, Ste. C  
Santa Cruz, CA 95065  
831-464-1634

Fugro West, Inc.  
1000 Broadway, Ste. 200  
Oakland, CA 94607  
510-268-0737

Geocon  
2356 Research Drive  
Livermore, CA 94550  
925-371-5900

Geological Technics, Inc.  
1101 7th Street  
Modesto, CA 95354  
209-522-4119

Geomatrix  
2101 Webster St., 12th Floor  
Oakland, CA 94612  
510-633-4100

Geosystem Consultants  
18218 McDermotte, Ste. G  
Irvine, CA 92614  
949-553-8757

Golder Associates  
2580 Wyandotte St., Ste. G  
Mountain View, CA 94043  
650-386-3828

Green Environmental  
195 Glenn Way, Suite 250  
San Carlos, CA 94070  
650-508-8018

Hoexter Consulting Inc.  
734 Torreya Court  
Palo Alto, CA 94303  
650-494-2505

Holguin, Fahan & Associates, Inc.  
5627 Stoneridge Drive., Ste. 320  
Pleasanton, CA 94303  
800-672-0219

Hydroanalysis, Inc.  
11100 San Pablo Ave., Ste. 200-A  
El Cerrito, CA 94530  
510-620-0891

Hygienetics Environmental  
44448 Martingale Court  
Fremont, CA 94539  
510-366-8054

Jonas & Associates  
2815 Mitchell Dr, Suite 209  
Walnut Creek, CA 94598  
925-933-5360

Kennedy/Jenks Consultants  
2191 East Bayshore Rd, Suite 200  
Palo Alto, CA 94303  
650-852-2800

Kodiak Consulting, LLC  
660 4th Street., Ste. 288  
San Francisco, CA 94107  
415-269-9515

Krazan & Associates, Inc.  
545 Parrott Street  
San Jose, CA 95112  
408-271-2200

Law Engineering  
7677 Oakport Street, Ste. 105  
Oakland, CA 94621  
510-553-7067

## List of Environmental Consultants

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LFK  
1900 Powell St, 12th Floor  
Emeryville, CA 94608-1827  
510-652-4500

Montgomery Watson Harza  
44 Montgomery Street., Ste. 1400  
San Francisco, CA 94104-470  
415-430-1800

Ninyo & Moore  
1956 Webster Street., Ste 400  
Oakland, CA 94612  
510-633-5640

North State Environmental  
815 Dubuque Avenue  
South San Francisco, CA 94080  
650-588-2838

Piers Environmental Services, Inc.  
1330 S. Bascom Ave., Ste. F  
San Jose, CA 95128  
408-559-1224

Professional Service Industries (PSI)  
4703 Tidewater Ave., Ste. B  
Oakland, CA 94601  
510-434-9200  
510-434-7676 Fax

Questa Engineering Corp  
1220 Brickyard Cove Rd, Suite 206  
Point Richmond, CA 94807-0356  
510-236-6114

R & M Environmental & Infrastructure Engineers  
7996 Capwell Drive  
Oakland, CA 94621  
510-553-2144

Remediation Risk Management (RRM)  
2560 Soquel Avenue., Ste. 202  
Santa Cruz, CA 95062  
831-475-8141

RGA Environmental  
1466 66th Street  
Emeryville, CA 94608  
510-547-7771

SCA Environmental  
165 10th Street, Ste. 100  
San Francisco, CA 94103  
415-703-8500

Secor International Inc.  
2301 Leghorn Street  
Mountain View, CA 94043  
650-691-0131

Sequoia Environmental  
7230 Lockwood Street  
Oakland, CA 94621  
510-430-9261

SLR international Corp.  
800 S. Claremont St., Ste. 108  
San Mateo, CA 94402  
650-227-0210

Studemeister & Associates  
675 Sharon Park Dr., Ste. 212  
Menlo Park, CA 94025  
650-234-1030

Technology Engineering/Accutite  
262 Michelle Court  
S. San Francisco, CA 94080  
650-952-5551

Tetrattech E.M. Inc.  
135 Main Street, Ste. 1800  
San Francisco, CA 94105  
415-495-7110

Todd Engineers  
2490 Mariner Square Loop, Ste. 215  
Alameda, Ca 94510-108  
510-747-6920

Toxichem Management Systems, Inc.  
1461 Newport Avenue  
San Jose, CA 95125  
(408) 292-3266

TRC  
405 Clyde Avenue  
Mountain View, CA 94043  
650-967-2365

## List of Environmental Consultants

---

TRC/Alton Geoscience  
1590 Solano Way, Ste. A  
Concord, CA 94520  
925-688-1200

Treadwell & Rollo  
555 Montgomery St., Ste. 1300  
San Francisco, CA 94111  
415-955-9040

URS Corporation  
221 Main Street, Ste. 600  
San Francisco, CA 94105  
415-896-5858

URS Corporation  
13333 Broadway, Ste. 800  
Oakland, CA 94612  
510-893-3600

Vapor Extraction Technology  
1060 Calle negocio, St. B  
San Clemente, CA 92673  
949-492-7611

W. L. Gore & Associates, Inc.  
555 Paper Mill Road  
Newark, DE 19711  
302-738-4880

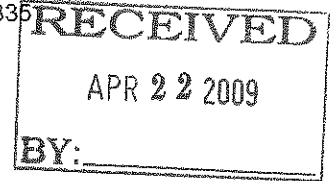
Weiss Associates  
5801 Christie Ave., Ste. 600.  
Emeryville, CA 94608  
510-450-6000

WHF, Inc.  
P.O. Box 427  
Oakdale, CA 95361  
209-848-4280



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

April 16, 2009



Tracey Campbell  
307 W. Fairview Blvd  
Inglewood, CA 90302

James J. Weiss  
6 Lagoon Vista  
Tiburon, CA 94920

Jaleeza Hazzard  
1722 Virginia Road  
Los Angeles, CA 90012

Fabian A. Labat, Jr.  
William C. Dixon  
Address Unknown

Paul Supple  
Atlantic Richfield Company  
(A BP Affiliated Company)  
P.O. Box 1257  
San Ramon, CA 94583

Pluckey, Inc.  
Address Unknown

Subject: Fuel Leak Case No. RO0002982 and GeoTracker Global ID T10000000417, ACRO # /  
Pluckey's Liquors, 6415 International Boulevard, Oakland, CA 94621

Dear Responsible Parties:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site including the recently submitted document entitled, "Work Plan for Soil & Ground-Water Investigation," dated March 30, 2009, which was prepared by Broadbent & Associates, Inc. (BAI) for the subject site. To delineate the extent of soil and groundwater contamination detected at the site during a recent Phase II Investigation, BAI proposes to install three groundwater monitoring wells, with screened intervals that extend from 7 feet to 22 feet below the ground surface (bgs). ACEH has concerns with the locations as well as the proposed construction of the wells. At this time, please address the following technical comments, and send us the work plan addendum requested below.

#### **TECHNICAL COMMENTS**

1. **Monitoring Well Construction & Hydrogeologic Setting** – According to BAI, "[t]he total depth and screen interval was proposed from looking at the depth of water and the well construction on the UNOCAL #3135 Station (T0600101488) downhill of the Site and Gritit Auto Repair & Service (T0600100667) uphill of the Site. Proposed monitoring wells MW-1, MW-2 and MW-3 will contain screened intervals from 7 feet bgs to 22 feet bgs, the total depth of each well." According to the boring logs for the site, there appears to be a gravelly clay unit that extends from approximately 7 to 12 feet bgs identified in a few of the boring logs. This unit is typically underlain by a less permeable (fine-grained) clay unit to approximately 21 feet bgs, underlain by a silty clay with interbedded clayey fine sand (more permeable). First encountered groundwater was noted at 21 feet bgs. ACEH is concerned that the long well screened intervals may be intersecting two water-bearing zones, which may not yield



groundwater sample analytical results that are representative of actual site conditions. Please justify that the proposed monitoring well construction is appropriate for site conditions or propose an alternate scope of work such as wells capable of multi-depth sampling intervals or additional borings for review in a work plan addendum due by the date specified below.

2. **Monitoring Well Locations** – BAI has proposed to install three groundwater monitoring wells at the site. BAI states that [a]ssuming a ground-water flow direction towards the southwest, this upgradient well MW-1 will be located northeast of SB-4 and the former fuel dispenser island. Well MW-2 is proposed to be located approximately 10 feet in from the sidewalk on 64th Avenue and from the back of the property, southwest of SB-5 and assumed location of the former USTs. Well MW-3 is proposed to be located in the south corner of the property approximately 20 feet in from the back of the property and former store.” In order to demonstrate plume stability, source area well(s) may be necessary. Please propose a scope of work to address the above-mentioned concerns and submit a work plan addendum due by the date specified below.
3. **Site Figures** – The site figure included in the above-mentioned work plan does not illustrate the location of former USTs. Also the figure does not adequately depict site features in relation to adjacent and neighboring properties. Please prepare extended site maps, which utilize aerial photographs as base maps for your site, and accurately depict the groundwater contaminant plume (concentrations of contaminants) and site features (i.e. former USTs, piping runs, dispenser islands, station building, etc.) in relation to the neighboring structures in all future submittals.

### **REQUEST FOR INFORMATION**

ACEH's case file for the subject site contains the following electronic reports as listed on our website (<http://www.acgov.org/aceh/lop/ust.htm>). You are requested to submit copies of all other data and reports related to environmental investigations and USTs for this property (including tank installation and/or removal reports, etc.) by **May 18, 2009**.

### **TECHNICAL REPORT REQUEST**

Please submit technical reports to ACEH (Attention: Paresh Khatri), according to the following schedule:

- **June 1, 2009** – Soil and Water Investigation Work Plan Addendum

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

#### ELECTRONIC SUBMITTAL OF REPORTS

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#### PERJURY STATEMENT

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#### PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

#### UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

**AGENCY OVERSIGHT**

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 777-2478 or send me an electronic mail message at [paresh.khatri@acgov.org](mailto:paresh.khatri@acgov.org).

Sincerely,



Paresh C. Khatri  
Hazardous Materials Specialist



Donna L. Drogos, PE  
Supervising Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Tom Venus, Broadbent & Associates, 1324 Mangrove Avenue, Suite 212, Chico, CA 95926  
Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA  
94612-2032  
Donna Drogos, ACEH  
Paresh Khatri, ACEH  
GeoTracker  
File

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY  
DAVID J. KEARS, Agency Director



BP 472

ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

June 11, 2009

Tracey Campbell  
307 W. Fairview Blvd  
Inglewood, CA 90302

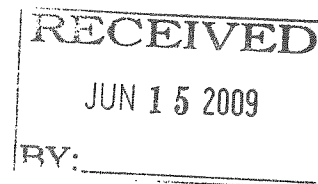
James J. Weiss  
Address Unknown

Jaleeza Hazzard  
1722 Virginia Road  
Los Angeles, CA 90012

Fabian A. Labat, Jr.  
William C. Dixon  
Address Unknown

Paul Supple  
Atlantic Richfield Company  
(A BP Affiliated Company)  
P.O. Box 1257  
San Ramon, CA 94583

Pluckey, Inc.  
Address Unknown



Subject: Fuel Leak Case No. RO0002982 and GeoTracker Global ID T10000000417, ACRO # /  
Pluckey's Liquors, 6415 International Boulevard, Oakland, CA 94621

Dear Responsible Parties:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site including the recently submitted document entitled, "Addendum Work Plan for Soil & Ground-Water Investigation," dated May 28, 2009, which was prepared by Broadbent & Associates, Inc., for the subject site. In response to ACEH's concerns regarding the previously proposed monitoring well screens that would have extended from 7 to 22 feet below the ground surface (bgs), BAI has modified the proposed well screened intervals from 7 to 17 feet bgs. BAI has also included a revised site figure that now illustrates the former UST locations and will submit a more accurate figure in the subsurface investigation report.

ACEH generally concurs with the proposed scope of work and perform the proposed work and send us the technical reports described below. In the above-mentioned work plan, BAI did not appear to recommend a groundwater monitoring frequency for the proposed monitoring wells. Please include a proposed groundwater monitoring plan for review with the soil and groundwater investigation report due by the date specified below.

**NOTIFICATION OF FIELDWORK ACTIVITIES**

Please schedule and complete the fieldwork activities by the date specified below and provide ACEH with at least three (3) business days notification prior to conducting the fieldwork.

### TECHNICAL REPORT REQUEST

Please submit technical reports to ACEH (Attention: Paresh Khatri), according to the following schedule:

- **September 7, 2009** – Soil and Water Investigation Report
- **Due within 45 Days of Sampling** – Semi-annual Monitoring Report (3<sup>rd</sup> Quarter 2009)
- **Due within 45 Days of Sampling** – Semi-annual Monitoring Report (1<sup>st</sup> Quarter 2010)

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

### ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements ([http://www.swrcb.ca.gov/ust/electronic\\_submittal/report\\_rqmts.shtml](http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml)).

### PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

### PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering

evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

#### **UNDERGROUND STORAGE TANK CLEANUP FUND**

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

#### **AGENCY OVERSIGHT**

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 777-2478 or send me an electronic mail message at [paresh.khatri@acgov.org](mailto:paresh.khatri@acgov.org).

Sincerely,



Paresh C. Khatri  
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Tom Venus, Broadbent & Associates, 1324 Mangrove Avenue, Suite 212, Chico, CA 95926  
Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA  
94612-2032  
Donna Drogos, ACEH  
Paresh Khatri, ACEH  
GeoTracker  
File

## **APPENDIX B**

### **STRATUS MONITORING WELL INSTALLATION DATA PACKAGE**

**(Includes Field Data Sheets, Boring Logs, Drilling Permit, Well Completion Reports, Site Plan,  
and Certified 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 21, 2009

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

Re: Monitoring Well Installation Data Package, Former ARCO Service Station No. 472, located at 6415 International Boulevard, Oakland, California (field activities performed between June 29 and August 4, 2009).

### **General Information**

*Data Submittal Prepared / Reviewed by:* Collin Fischer and Scott Bittinger / Jay Johnson  
*Phone Number:* (530) 676-2062 / (530) 676-6000

*Date:* June 29, 2009

*On-Site Supplier Representative:* Collin Fischer

*Scope of Work Performed:* Health and safety meeting with utility locating subcontractor (Cruz Brothers Locators). Locate all utilities onsite and sketch on site map per ground disturbance procedures. Clear 3 boring locations and mark site for Underground Service Alert (USA).

*Variations from Work Scope:* None noted

*Date:* July 9, 2009

*On-Site Supplier Representative:* Collin Fischer

*Scope of Work Performed:* Fill out health and safety forms. Check USA markings, update USA tracking sheet, and sketch utilities on site map per ground disturbance procedures.

*Variations from Work Scope:* None noted

*Date:* July 14, 2009

*On-Site Supplier Representative:* Collin Fischer

*Scope of Work Performed:* Health and safety meeting with air knife and drilling subcontractor (RSI Drilling). Clear 3 boring locations (MW-1, MW-2, and MW-3) to 6.5 feet below ground surface (bgs) with air knife. Install 3 monitoring wells (MW-1, MW-2, and MW-3) to 17 feet bgs and collect soil samples during advancement of the well borings.

*Variations from Work Scope:* None noted



August 21, 2009

*Date:* August 4, 2009

*On-Site Supplier Representative:* Collin Fischer

*Scope of Work Performed:* Fill out health and safety forms. Develop 3 monitoring wells (MW-1, MW-2 and MW-3).

*Variations from Work Scope:* None noted, although wells purged dry during development

This submittal presents data collected in association with the installation and development of three monitoring wells. The attachments include field data sheets, boring logs, DWR well completion reports, an Alameda County Public Works Department Drilling Permit, a surveyed site plan, an underground utility location sketch, certified analytical reports, and chain-of-custody documentation. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does not include data interpretation or conclusions or recommendations.


Any questions concerning this submittal should be addressed to the Preparer/Reviewer identified above.

Sincerely,

STRATUS ENVIRONMENTAL, INC.



Scott G. Bittinger, P.G.  
Project Geologist



Jay R. Johnson, P.G.  
Project Manager



**Attachments:**

- Field Data Sheets
- Boring Logs
- DWR Well Completion Reports
- Drilling Permit
- Surveyed Site Plan
- Underground Utility Location Sketch
- Certified Analytical Reports
- Chain-of-Custody Documentation

cc: Chuck Carmel, BP/ARCO

ARCO 472 - Collins Fischer  
CWE BROWNS

Geology  
Survey  
Clear

1345 → ONSITE, FILL OUT SAFETY PAPERWORK, SAFETY MEETING  
SITEWALK, TRY TO GAIN ACCESS TO PROPERTY.

1350 → ACCESS TO PROPERTY MADE, LOCATION (MW-3) IS BEHIND  
A LOCKED FENCE, WE WILL TRY TO GAIN ACCESS OVER FENCE,  
TO GET FENCE UNLOCKED FOR DRILLING ACTIVITIES.

1430 → (MW-1) (MW-2) & (MW-3) LOCATION CLEARED, PROPERTY  
MAINTENANCE WORKERS NUMBER FOUND SO WE WILL  
BE ABLE TO ACCESS (MW-3) TO DRILL.

OFFSITE

Collin F.

STATUS ~~ENV.~~ INC.

Field Data Sheet

Site: ALCO 472 Date: 7/9/09

Personnel on site: COLLIN FISHER

Weather Conditions: SUNNY, CLOUDS

Notes:

1045 -> ONSITE, Fill out SAFETY PAPERWORK.

1100 -> UPDATE USA TRACKING SHEET SPARK W/ NETDOR STORE OWNER ABOUT PROJECT. START ADDITIONAL UTILITIES ON MAP

1115 -> OFFSITE

Collin Fisher

STRATUS ENV. INC.

# Field Data Sheet

Site: ALCO 472

Date: 7/14/09

Personnel on site: Collin Fischer, LSI Drilling

Weather Conditions: Sunny, Clear

**Notes:**

0715 → ON SITE, FILL OUT PAPERWORK, SAFETY MEETING, SET UP ON (MW-1) & BEGIN CONCRETE COUING.

0845 → DONE COUING, START CLEANING (MW-1) W/ AK.  
 0945 → DONE W/ AK @ (MW-1), MOVE TO (MW-2) & START AK.  
 1015 → DRILL BY ON SITE, SAFETY MEETING, START AK @ (MW-3) & DRILLING @ (MW-1).

1200 → AK DONE @ (MW-3), LSI HEALTH & SAFETY INSPECTOR ON SITE. AK CREW TAKE LUNCH. SETTING WELL (MW-1)

SCREEN 7-17  
 SAND 5-17  
 BENT 3-5  
 GRAVE 0-3

1300 → DRILL BY DONE SETTING (MW-1), AK STARTS ON (MW-2) DRILLING MOVE OUT OF WAY! DRILL RIGS NOTES TO (MW-3) & SET UP.

1415 → @ DRILL W/ SAMPLES START DRILLING.

1415 → AK DONE @ (MW-2), EMPTY TANK & CLEANUP, START SETTING WELL BOT @ (MW-1).

1440 → DRILL BY @ DRILL @ (MW-3) SET WELL (MW-3)

SCREEN 7-17  
 SAND 5-17  
 BENT 3-5  
 GRAVE 0-3

1545 → (MW-3) SET, MOVE RIG TO (MW-2), BEGIN SHUTTING.

1640 → (MW-1) GROUND & BOT SET, AK CREW MOVE TO (MW-3) TO GROUND & SET BOT. DRILL RIG @ DEPTH SET WELL (MW-2)

SCREEN 7-17  
 SAND 5-17  
 BENT 3-5  
 GRAVE 0-3

1720 → (MW-3) GROUND & BOT SET, AK CREW STARTS CLEANING & MOVE DEVS.

1800 → SET (MW-2) BOT LABEL NUMS &

CLEANING, SECURE AREA.

1900 → OFF SITE

*Collin Fischer*

ST. THOMAS ENV. INC.



0900 →

1330 OFFSITE

4.5

Day 214  
Day 21

Day 214  
Day 21

0900  
0925  
0935  
Day 214  
0945  
Day 220

time					time				
purge stop time					purge stop time				
Well ID MW-1					Well ID MW-2				
purge start time					purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time 1205	23.1	7.47	637	0	time 1045	22.1	7.21	542	0
time 1215	22.2	7.39	706	7	time 1050	21.4	7.49	456	7
time 1225	21.8	7.27	698	14	time 1105	21.2	7.45	430	14
time 1255	21.8	7.37	697	21	time 1145	21.2	7.47	427	21
purge stop time 1300					purge stop time 1150				
Well ID MW-3					Well ID				
purge start time 0923					purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time 0925	19.9	7.30	525	0	time				3
time 0930	19.6	7.10	510	7	time				
time 0936	19.5	7.07	520	14	time 0946				
time 0945	19.5	7.06	518	22	time				
purge stop time 0948					purge stop time				
Well ID					Well ID				
purge start time					purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time					purge stop time				

**SOIL BORING LOG**

**Boring No. MW-1**

**Sheet: 1 of 1**

Client	Former ARCO 472	Date	July 14, 2009
Address	6415 International Boulevard Oakland, CA	Drilling Co.	RSI Drilling rig type: Geoprobe 6620 DT
Project No.	E472	Driller	Norman
Logged By:	Collin Fischer	Method	Hollow Stem Auger Hole Diameter: 10 inches
Well Pack	sand: 5 ft. to 17 ft. bent.: 3 ft. to 5 ft. grout: 0 ft. to 3 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 7 ft. to 17 ft. Casing Diameter: 4 in. Screen Slot Size: 0.010-in. Depth to GW: ▽ first encountered static ▼

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
						1			
						2			
						3			
						4	SC	Clayey sand with silt and gravel, SC, (0'-7.5'), grayish brown, moist 40% medium grained sand, 25% clay, 20% silt, 15% medium gravel	
						5			
S	MW-1 6.5'	N/A	1055	100		6			0
						7			
S	MW-1 8'	N/A	1058	100		8			0
						9			
S	MW-1 9.5'	N/A	1100	100		10	ML	Clayey silt with sand and gravel, ML, (7.5'-12'), dark yellowish brown moist, low plasticity, 50% silt, 30% clay, 10% fine grained sand 10% medium gravel	0
						11			0
S	MW-1 11'	N/A	1102	100		12			
						13	SC	Clayey sand, SC, (12'-12.5'), grayish brown, moist 60% medium grained sand, 40% clay	0
						14	ML	Clayey silt, ML, (12.5'-13.5'), dark yellowish brown, moist, medium plasticity 60% silt, 40% clay	
S	MW-1 14.5'	N/A	1107	100		15	SC	Clayey sand, SC, (13.5'-14.5'), dark grayish brown, moist 60% medium grained sand, 40% clay	21
						16			
						17	ML	Clayey silt, ML, (14.5'-17'), grayish brown, moist, medium plasticity 60% silt, 40% clay	
						18			
						19			
						20			

Comments:

*STRATUS*  
ENVIRONMENTAL, INC.

**SOIL BORING LOG**

**Boring No. MW-2**

**Sheet: 1 of 1**

Client	Former ARCO 472	Date	July 14, 2009
Address	6415 International Boulevard Oakland, CA	Drilling Co.	RSI Drilling rig type: Geoprobe 6620 DT
Project No.	E472	Driller	Norman
Logged By:	Collin Fischer	Method	Hollow Stem Auger Hole Diameter: 10 inches
Well Pack	sand: 5 ft. to 17 ft. bent.: 3 ft. to 5 ft. grout: 0 ft. to 3 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 7 ft. to 17 ft. Casing Diameter: 4 in. Screen Slot Size: 0.010-in. Depth to GW: ▽ first encountered static ▼

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
						1			
						2			
						3			
						4	SC	Clayey sand with silt and gravel, SC, (0'-8'), grayish brown, moist 40% medium grained sand, 25% clay, 20% silt, 15% medium gravel	
						5			
S	MW-2 6.5'	N/A	1600	100		6		0	
						7			
S	MW-2 8'	N/A	1602	100		8		0	
						9	ML	Clayey silt, ML, (8'-9.5'), dark yellowish brown, moist, medium plasticity 60% silt, 40% clay	
S	MW-2 9.5'	N/A	1605	100		10		0	
						11	SC	Clayey sand with silt and gravel, SC, (9.5'-11.5'), dark brown, wet 40% medium grained sand, 25% clay, 20% silt, 15% medium gravel	
S	MW-2 11'	N/A	1607	100		12	ML	Clayey silt, ML, (11.5'-12.5'), yellowish brown, moist, medium plasticity 60% silt, 40% clay	
						13	SC	Clayey sand with silt and gravel, SC, (12.5'-13'), dark brown, moist 40% medium grained sand, 25% clay, 20% silt, 15% medium gravel	
S	MW-2 12.5'	N/A	1610	100		14	ML	Clayey silt, ML, (13'-14'), dark yellowish brown, moist, medium plasticity 60% silt, 40% clay	
						15	SC	Clayey sand with silt and gravel, SC, (14'-14.5'), yellowish brown, moist 40% medium grained sand, 25% clay, 20% silt, 15% medium gravel	
S	MW-2 14.5'	N/A	1612	100		16	ML	Clayey silt, ML, (14.5'-17'), dark yellowish brown, moist, medium plasticity 60% silt, 40% clay	
						17		0	
S	MW-2 17'	N/A	1615	100		18			
						19			
						20			

Comments:

*STRATUS*  
ENVIRONMENTAL, INC.



**SOIL BORING LOG**

**Boring No. MW-3**

**Sheet: 1 of 1**

Client	Former ARCO 472	Date	July 14, 2009
Address	6415 International Boulevard Oakland, CA	Drilling Co.	RSI Drilling rig type: Geoprobe 6620 DT
Project No.	E472	Driller	Norman
Logged By:	Collin Fischer	Method	Hollow Stem Auger Hole Diameter: 10 inches
Well Pack	sand: 5 ft. to 17 ft. bent.: 3 ft. to 5 ft. grout: 0 ft. to 3 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 7 ft. to 17 ft. Casing Diameter: 4 in. Screen Slot Size: 0.010-in.
		Depth to GW:	▽ first encountered static ▼

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
						1			
						2			
						3			
						4	CL	Silty clay with sand, CL, (0'-8'), dark brown, moist, medium plasticity 50% clay, 40% silt, 10% fine grained sand	
						5			
S	MW-3 6.5'	N/A	1405	100		6			0
						7			
S	MW-3 8'	N/A	1407	100		8			0
						9	SC	Silty clay with sand and gravel, CL, (8'-9'), dark yellowish brown, moist low plasticity, 40% silt, 30% clay, 20% fine gravel, 10% fine grained sand Clayey sand with silt and gravel, SC, (9'-10'), dark grayish brown, moist 40% medium grained sand, 25% clay, 20% silt, 15% medium gravel	
S	MW-3 9.5'	N/A	1410	100		10			
						11			0
S	MW-3 12.5'	N/A	1415	100		12	ML	Clayey silt, ML, (10'-15'), dark yellowish brown, moist, medium plasticity 60% silt, 40% clay	
						13			
S	MW-3 14.5'	N/A	1417	100		14			0
						15			
						16	SC	Clayey sand with silt and gravel, SC, (15'-16.5'), dark grayish brown, wet 40% medium grained sand, 25% clay, 20% silt, 15% medium gravel	
S	MW-3 17'	N/A	1420	100		17	ML	Clayey silt, ML, (16.5'-17'), dark yellowish brown, moist, medium plasticity 60% silt, 40% clay	0
						18			
						19			
						20			

Comments:

**STRATUS**  
ENVIRONMENTAL, INC.

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

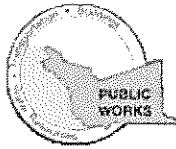
**REMOVED**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

# 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: 07/01/2009 By jamesy**

**Permit Numbers: W2009-0620 to W2009-0622  
Permits Valid from 07/14/2009 to 07/15/2009**

**Application Id:** 1246474069869  
**Site Location:** 6415 International Blvd, Oakland  
**Project Start Date:** 07/14/2009  
**Assigned Inspector:** Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

**City of Project Site:** Oakland

**Completion Date:** 07/15/2009

**Applicant:** Stratus Environmental - Scott Bittinger  
3330 Cameron Park Dr, Suite 550, Cameron Park, CA 95682

**Phone:** 530-676-2062

**Property Owner:** Tracey Campbell & Jaleesa Hazzard  
307 West Fairview Blvd, Inglewood, CA 90302

**Phone:** 310-677-8680

**Client:** \*\* same as Property Owner \*\*

	<b>Total Due:</b>	\$1035.00
<b>Receipt Number: WR2009-0244</b>	<b>Total Amount Paid:</b>	\$1035.00
<b>Payer Name : Stratus Eenvt, Inc</b>	<b>Paid By: CHECK</b>	<b>PAID IN FULL</b>

## Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 3 Wells  
Driller: RSI Drilling - Lic #: 802334 - Method: auger

**Work Total: \$1035.00**

### Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2009-0620	07/01/2009	10/12/2009	MW-1	10.00 in.	4.00 in.	5.00 ft	20.00 ft
W2009-0621	07/01/2009	10/12/2009	MW-2	10.00 in.	4.00 in.	5.00 ft	20.00 ft
W2009-0622	07/01/2009	10/12/2009	MW-3	10.00 in.	4.00 in.	5.00 ft	20.00 ft

### Specific Work Permit Conditions

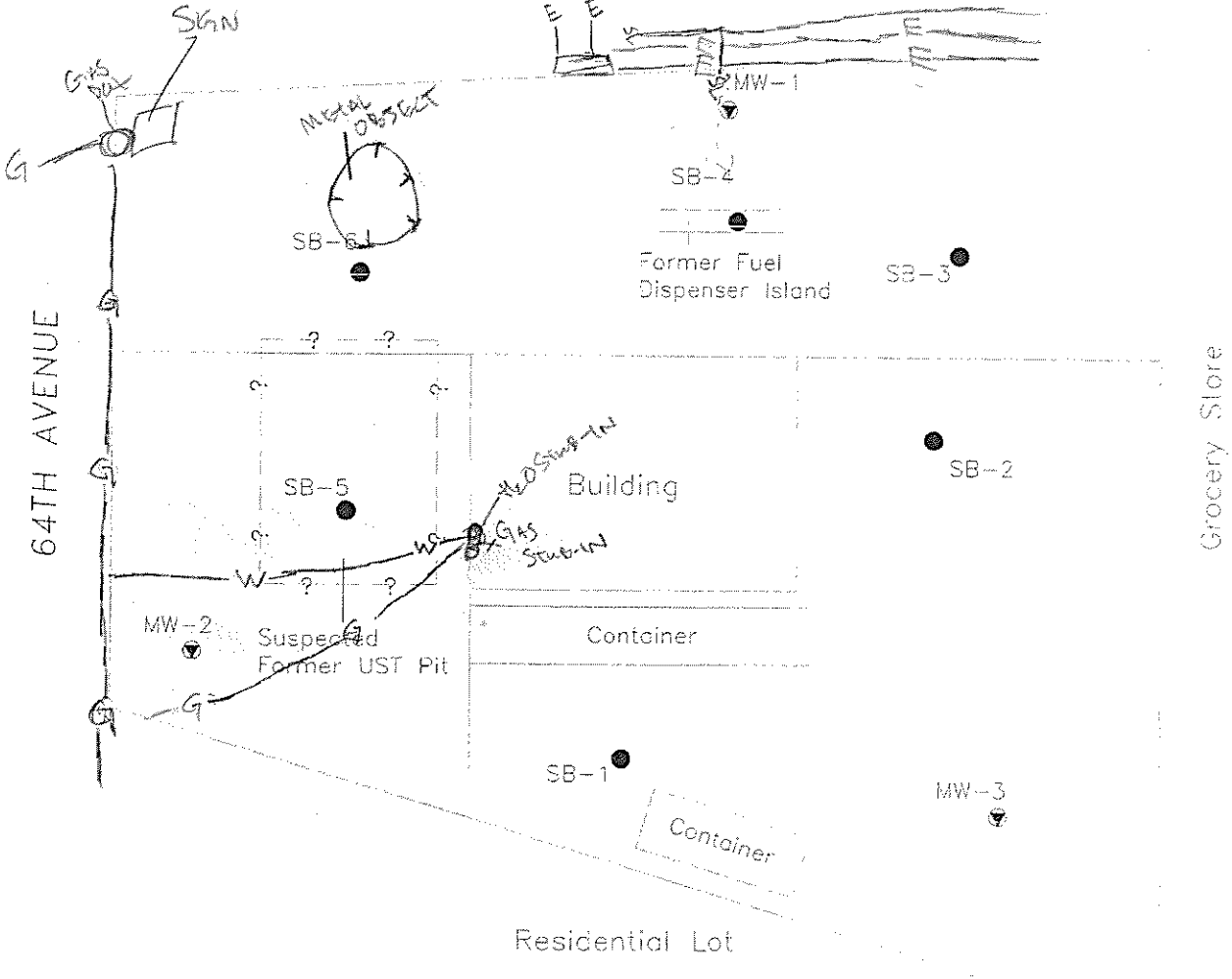
1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
  
2. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
  
3. 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.
  
4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with

## Alameda County Public Works Agency - Water Resources Well Permit



appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
  6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
  7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
  8. Minimum surface seal thickness is two inches of cement grout placed by tremie
  9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.
  10. 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.
-

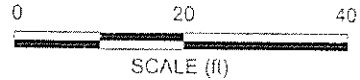
INTERNATIONAL BOULEVARD



**LEGEND**

-  Proposed Monitoring Well
-  Phase II Soil Boring

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



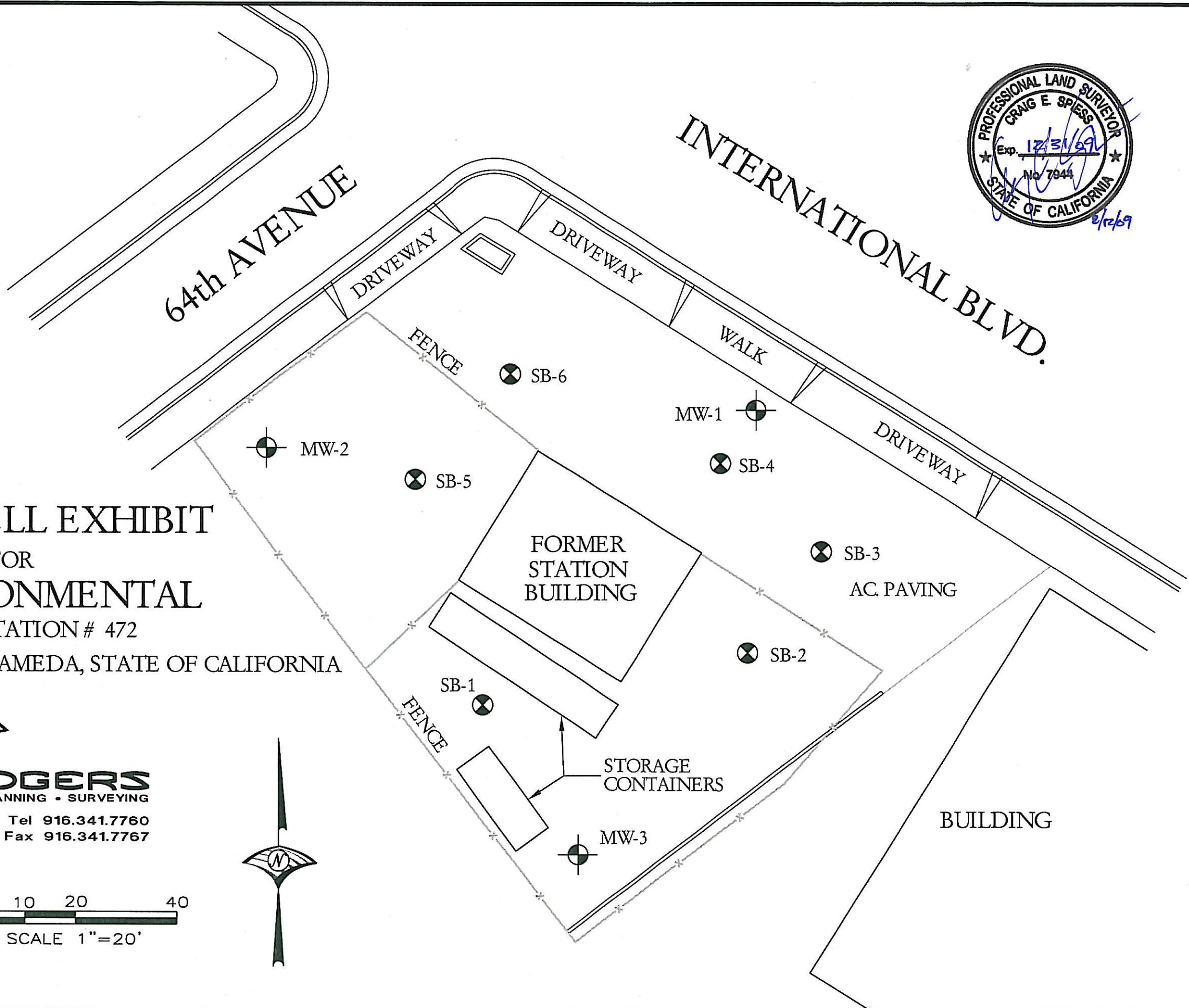
**BROADBENT & ASSOCIATES, INC.**  
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL  
1324 Mangrove Ave, Suite 212, Chico, California  
Project No.: 09-88-601 Date: 5/26/09

Former Service Station #472  
6415 International Boulevard  
Oakland, California

Amended Site Map with Proposed  
Monitoring Well Locations

Drawing

2



# MONITORING WELL EXHIBIT

PREPARED FOR

## STRATUS ENVIRONMENTAL

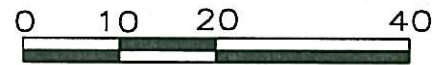
FORMER ARCO STATION # 472

CITY OF OAKLAND, COUNTY OF ALAMEDA, STATE OF CALIFORNIA



**WOOD RODGERS**  
ENGINEERING • MAPPING • PLANNING • SURVEYING

3301 C St., Bldg. 100-B Tel 916.341.7760  
Sacramento, CA 95816 Fax 916.341.7767



SCALE 1"=20'

AUGUST 3, 2009

Sheet 1 of 1

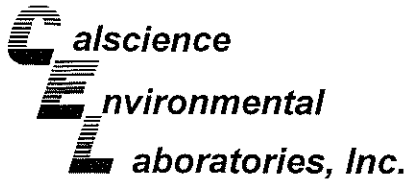
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GLOBAL_ID	FIELD_PT_NAME	FIELD_PT_XY_SURVEY	LATITUDE	LONGITUDE	XY_METHOD	XY_DATUM	XY_ACC_VAL	XY_SURVEY_ORG	GPS_EQUIP_TY	XY_SURVEY_DES
MW-1	MW	8/3/2009	37.7630934	-122.1956161	CGPS	NAD83	30	WOOD RODGERS PLS 7944	TR	
MW-2	MW	8/3/2009	37.7630681	-122.1959522	CGPS	NAD83	30	WOOD RODGERS PLS 7944	TR	
MW-3	MW	8/3/2009	37.7628495	-122.1957342	CGPS	NAD83	30	WOOD RODGERS PLS 7944	TR	
SB-1		8/3/2009	37.7629300	-122.1958012	CGPS	NAD83	30	WOOD RODGERS PLS 7944	TR	
SB-2		8/3/2009	37.7629609	-122.1956191	CGPS	NAD83	30	WOOD RODGERS PLS 7944	TR	
SB-3		8/3/2009	37.7630169	-122.1955699	CGPS	NAD83	30	WOOD RODGERS PLS 7944	TR	
SB-4		8/3/2009	37.7630640	-122.1956397	CGPS	NAD83	30	WOOD RODGERS PLS 7944	TR	
SB-5		8/3/2009	37.7630523	-122.1958504	CGPS	NAD83	30	WOOD RODGERS PLS 7944	TR	
SB-6		8/3/2009	37.7631107	-122.1957865	CGPS	NAD83	30	WOOD RODGERS PLS 7944	TR	

GLOBAL_ID	FIELD_PT_NAME	ELEV_SURVEY_DATE	ELEVATION	ELEV_METHOD	ELEV_DATUM	ELEV_ACC_VAL	ELEV_SURVEY_ORG	RISER_HT	ELEV_DESC	EFF_DATE
MW-1		8/3/2009	24.17	DIG	NAVD88	0.01	WOOD RODGERS PLS 7944	-0.29		
MW-2		8/3/2009	23.62	DIG	NAVD88	0.01	WOOD RODGERS PLS 7944	-0.63		
MW-3		8/3/2009	24.73	DIG	NAVD88	0.01	WOOD RODGERS PLS 7944	-0.44		
SB-1		8/3/2009	24.82	DIG	NAVD88	0.01	WOOD RODGERS PLS 7944			
SB-2		8/3/2009	24.87	DIG	NAVD88	0.01	WOOD RODGERS PLS 7944			
SB-3		8/3/2009	24.48	DIG	NAVD88	0.01	WOOD RODGERS PLS 7944			
SB-4		8/3/2009	24.59	DIG	NAVD88	0.01	WOOD RODGERS PLS 7944			
SB-5		8/3/2009	24.38	DIG	NAVD88	0.01	WOOD RODGERS PLS 7944			
SB-6		8/3/2009	24.55	DIG	NAVD88	0.01	WOOD RODGERS PLS 7944			

DESCRIPTION	NORTHING(GRID)	EASTING(GRID)	TOP CASING	TOP OF BOX	CONC. PATCH
MW-1	2104761.72	6071545.56	24.17	24.46	
MW-2	2104754.28	6071448.26	23.62	24.25	
MW-3	2104673.56	6071509.81	24.73	25.17	
SB-1	2104703.21	6071490.98			24.82
SB-2	2104713.52	6071543.82			24.87
SB-3	2104733.64	6071558.42			24.48
SB-4	2104751.14	6071538.56			24.59
SB-5	2104747.99	6071477.56			24.38
SB-6	2104768.93	6071496.43			24.55



09-07-1178

July 27, 2009

Jay Johnson  
Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Subject: **Calscience Work Order No.:** 09-07-1178  
**Client Reference:** BP 472

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/15/2009 and analyzed in accordance with the attached chain-of-custody.

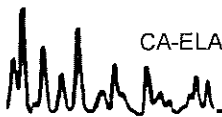
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

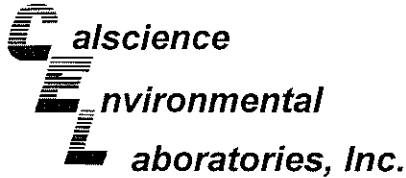
If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard Villafania".

Calscience Environmental  
Laboratories, Inc.  
Richard Villafania  
Project Manager





Analytical Report



Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1178  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP 472

Page 1 of 1

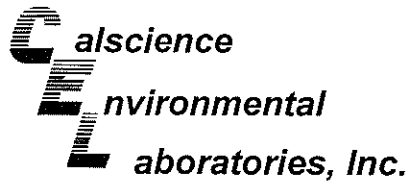
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SWC	09-07-1178-1-A	07/14/09 16:30	Solid	ICP 5300	07/17/09	07/17/09 18:46	090717L03

Parameter	Result	RL	DF	Qual	Units
Lead	29.1	0.500	1		mg/kg

Method Blank	097-01-002-12,519	N/A	Solid	ICP 5300	07/17/09	07/17/09 18:28	090717L03
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.500	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report

net

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1178  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: BP 472

Page 1 of 1

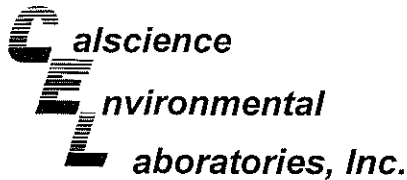
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SWC	09-07-1178-1-A	07/14/09 16:30	Solid	GC 1	07/15/09	07/16/09 18:48	090715B02

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	0.50	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	86	42-126			

Method Blank	099-12-697-135	N/A	Solid	GC 1	07/15/09	07/16/09 09:12	090715B02
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Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	0.50	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	80	42-126			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1178  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: mg/kg

Project: BP 472

Page 1 of 1

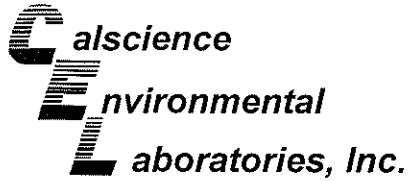
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SWC	09-07-1178-1-A	07/14/09 16:30	Solid	GC/MS Z	07/17/09	07/18/09 10:17	090717L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
Ethylbenzene	ND	0.0010	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0010	1	
Toluene	ND	0.0010	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	105	75-141			1,2-Dichloroethane-d4	118	73-151		
Toluene-d8	95	87-111			1,4-Bromofluorobenzene	87	71-113		

<b>Method Blank</b>	<b>099-12-709-184</b>	<b>N/A</b>	<b>Solid</b>	<b>GC/MS Z</b>	<b>07/17/09</b>	<b>07/18/09 01:56</b>	<b>090717L02</b>
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
Ethylbenzene	ND	0.0010	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0010	1	
Toluene	ND	0.0010	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	104	75-141			1,2-Dichloroethane-d4	112	73-151		
Toluene-d8	96	87-111			1,4-Bromofluorobenzene	85	71-113		

mg Limit      DF - Dilution Factor      Qual - Qualifiers



## Quality Control - Spike/Spike Duplicate

REF 1

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1178  
Preparation: EPA 3050B  
Method: EPA 6010B

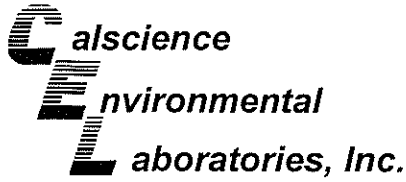
Project BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1412-1	Solid	ICP 5300	07/17/09	07/17/09	090717S03

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	99	105	75-125	5	0-20	

RPD - Relative Percent Difference, CL - Control Limit





Quality Control - PDS / PDSD

net

Stratus Environmental, inc.  
 3330 Cameron Park Drive, Suite 550  
 Cameron Park, CA 95682-8861

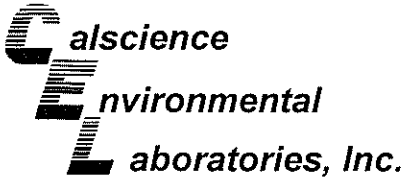
Date Received 07/15/09  
 Work Order No: 09-07-1178  
 Preparation: EPA 3050B  
 Method: EPA 6010B

Project: BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
09-07-1412-1	Solid	ICP 5300	07/17/09	07/17/09	090717S03

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	104	97	75-125	6	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate

del

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

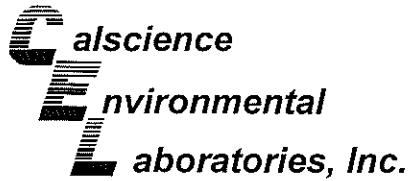
Date Received: 07/15/09  
Work Order No: 09-07-1178  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1179-3	Solid	GC 1	07/15/09	07/16/09	090715S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	90	88	42-126	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - Spike/Spike Duplicate

net

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

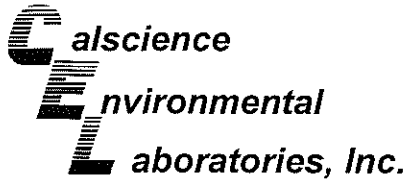
Date Received: 07/15/09  
Work Order No: 09-07-1178  
Preparation: EPA 5030B  
Method: EPA 8260B

Project BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1084-1	Solid	GC/MS Z	07/17/09	07/18/09	090717S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	97	94	78-114	3	0-14	
Chloroform	94	101	80-120	8	0-20	
1,1-Dichloroethane	101	102	80-120	1	0-20	
1,2-Dichloroethane	95	92	80-120	3	0-20	
1,1-Dichloroethene	104	98	73-127	6	0-21	
Ethanol	69	85	45-135	21	0-29	
Tetrachloroethene	91	85	80-120	7	0-20	
Toluene	93	89	74-116	4	0-16	
Trichloroethene	90	90	74-122	1	0-17	
Methyl-t-Butyl Ether (MTBE)	91	92	69-123	1	0-18	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate

net

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

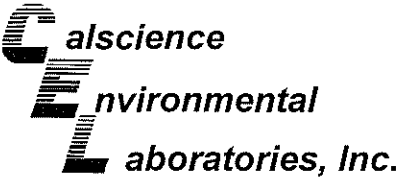
Date Received: N/A  
Work Order No: 09-07-1178  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-12,519	Solid	ICP 5300	07/17/09	07/17/09	090717L03

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	105	108	80-120	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: N/A  
Work Order No: 09-07-1178  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-697-135	Solid	GC 1	07/15/09	07/16/09	090715B02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	96	96	70-118	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate

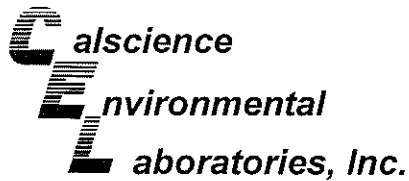
Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: N/A  
Work Order No: 09-07-1178  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-709-184	Solid	GC/MS Z	07/17/09	07/17/09	090717L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	107	106	84-114	79-119	1	0-7	
Bromobenzene	108	105	80-120	73-127	3	0-20	
Bromochloromethane	117	116	80-120	73-127	1	0-20	
Bromodichloromethane	105	104	80-120	73-127	1	0-20	
Bromoform	111	108	80-120	73-127	2	0-20	
Bromomethane	95	79	80-120	73-127	18	0-20	
n-Butylbenzene	99	95	77-123	69-131	3	0-25	
sec-Butylbenzene	102	97	80-120	73-127	4	0-20	
tert-Butylbenzene	95	95	80-120	73-127	1	0-20	
Carbon Disulfide	109	106	80-120	73-127	3	0-20	
Carbon Tetrachloride	107	102	69-135	58-146	5	0-13	
Chlorobenzene	99	102	85-109	81-113	3	0-8	
Chloroethane	99	93	80-120	73-127	6	0-20	
Chloroform	104	101	80-120	73-127	2	0-20	
Chloromethane	103	95	80-120	73-127	8	0-20	
2-Chlorotoluene	100	103	80-120	73-127	3	0-20	
4-Chlorotoluene	99	97	80-120	73-127	2	0-20	
Dibromochloromethane	120	116	80-120	73-127	3	0-20	
1,2-Dibromo-3-Chloropropane	126	126	80-120	73-127	0	0-20	
1,2-Dibromoethane	115	115	80-120	73-127	1	0-20	
Dibromomethane	115	113	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	98	97	80-110	75-115	2	0-10	
1,3-Dichlorobenzene	95	95	80-120	73-127	0	0-20	
1,4-Dichlorobenzene	91	89	80-120	73-127	3	0-20	
Dichlorodifluoromethane	109	104	80-120	73-127	5	0-20	
1,1-Dichloroethane	109	112	80-120	73-127	2	0-20	
1,2-Dichloroethane	104	105	80-120	73-127	1	0-20	
1,1-Dichloroethene	108	104	83-125	76-132	4	0-10	
c-1,2-Dichloroethene	88	85	80-120	73-127	3	0-20	
t-1,2-Dichloroethene	103	101	80-120	73-127	2	0-20	
1,2-Dichloropropane	108	108	79-115	73-121	0	0-25	
1,3-Dichloropropane	113	109	80-120	73-127	3	0-20	
2,2-Dichloropropane	83	82	80-120	73-127	1	0-20	
1,1-Dichloropropene	102	100	80-120	73-127	1	0-20	
c-1,3-Dichloropropene	108	109	80-120	73-127	0	0-20	
t-1,3-Dichloropropene	120	119	80-120	73-127	1	0-20	
Ethylbenzene	105	104	80-120	73-127	1	0-20	
Isopropylbenzene	105	106	80-120	73-127	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: N/A  
Work Order No: 09-07-1178  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-709-184	Solid	GC/MS Z	07/17/09	07/17/09	090717L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
p-Isopropyltoluene	105	100	80-120	73-127	4	0-20	
Methylene Chloride	103	100	80-120	73-127	3	0-20	
Naphthalene	99	98	80-120	73-127	1	0-20	
n-Propylbenzene	104	107	80-120	73-127	2	0-20	
Styrene	108	109	80-120	73-127	1	0-20	
Ethanol	97	114	50-134	36-148	16	0-23	
1,1,1,2-Tetrachloroethane	104	103	80-120	73-127	1	0-20	
1,1,2,2-Tetrachloroethane	95	97	80-120	73-127	2	0-20	
Tetrachloroethene	115	110	80-120	73-127	4	0-20	
Toluene	101	102	79-115	73-121	1	0-8	
1,2,3-Trichlorobenzene	90	92	80-120	73-127	2	0-20	
1,2,4-Trichlorobenzene	85	86	80-120	73-127	2	0-20	
1,1,1-Trichloroethane	106	102	80-120	73-127	4	0-20	
1,1,2-Trichloroethane	115	116	80-120	73-127	0	0-20	
Trichloroethene	105	104	87-111	83-115	1	0-7	
Trichlorofluoromethane	103	99	80-120	73-127	4	0-20	
1,2,3-Trichloropropane	130	120	80-120	73-127	8	0-20	
1,2,4-Trimethylbenzene	104	102	80-120	73-127	2	0-20	
1,3,5-Trimethylbenzene	105	106	80-120	73-127	1	0-20	
Vinyl Acetate	72	78	80-120	73-127	8	0-20	
Vinyl Chloride	99	95	72-126	63-135	4	0-10	
p/m-Xylene	104	107	80-120	73-127	3	0-20	
o-Xylene	101	104	80-120	73-127	3	0-20	
Methyl-t-Butyl Ether (MTBE)	107	105	75-129	66-138	2	0-13	
Tert-Butyl Alcohol (TBA)	97	104	66-126	56-136	7	0-24	
Diisopropyl Ether (DIPE)	106	103	77-125	69-133	3	0-13	
Ethyl-t-Butyl Ether (ETBE)	93	92	72-132	62-142	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	102	103	77-125	69-133	2	0-10	

Total number of LCS compounds : 66

Total number of ME compounds : 3

Total number of ME compounds allowed : 3

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

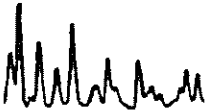
Work Order Number: 09-07-1178

<u>Qualifier</u>	<u>Definition</u>
AX	Sample too dilute to quantify surrogate.
BA	Relative percent difference out of control.
BA,AY	BA = Relative percent difference out of control. AY = Matrix interference suspected.
BB	Sample > 4x spike concentration.
BF	Reporting limits raised due to high hydrocarbon background.
BH	Reporting limits raised due to high level of non-target analytes.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
BY	Sample received at improper temperature.
BZ	Sample preserved improperly.
CL	Initial analysis within holding time but required dilution.
CQ	Analyte concentration greater than 10 times the blank concentration.
CU	Surrogate concentration diluted to not detectable during analysis.
DF	Reporting limits elevated due to matrix interferences.
DU	Insufficient sample quantity for matrix spike/dup matrix spike.
ET	Sample was extracted past end of recommended max. holding time.
EY	Result exceeds normal dynamic range; reported as a min est.
GR	Internal standard recovery is outside method recovery limit.
IB	CCV recovery above limit; analyte not detected.
IH	Calibrtn. verif. recov. below method CL for this analyte.
IJ	Calibrtn. verif. recov. above method CL for this analyte.
J,DX	J=EPA Flag -Estimated value; DX= Value < lowest standard (MQL), but > than MDL.
LA	Confirmatory analysis was past holding time.
LG,AY	LG= Surrogate recovery below the acceptance limit. AY= Matrix interference suspected.
LH,AY	LH= Surrogate recovery above the acceptance limit. AY= Matrix interference suspected.
LM,AY	LM= MS and/or MSD above acceptance limits. See Blank Spike (LCS). AY= Matrix interference suspected.
LN,AY	LN= MS and/or MSD below acceptance limits. See Blank Spike (LCS). AY= Matrix interference suspected.
LQ	LCS recovery above method control limits.





<u>Qualifier</u>	<u>Definition</u>
LR	LCS recovery below method control limits.
LW	Quantitation of unknown hydrocarbon(s) in sample based on gasoline.
LX	Quantitation of unknown hydrocarbon(s) in sample based on diesel.
MB	Analyte present in the method blank.
PC	Sample taken from VOA vial with air bubble > 6mm diameter.
PI	Primary and confirm results varied by > than 40% RPD.
RB	RPD exceeded method control limit; % recoveries within limits.
SG	A silica gel cleanup procedure was performed.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.





**SAMPLE RECEIPT FORM**

Cooler 1 of 1

CLIENT: Stratus

DATE: 07/15/09

**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 2.1 °C - 0.2°C (CF) = 1.9 °C  Blank  Sample

Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature:  Air  Filter  Metals Only  PCBs Only Initial: JP

**CUSTODY SEALS INTACT:**

Cooler  \_\_\_\_\_  No (Not Intact)  Not Present  N/A Initial: JP

Sample  \_\_\_\_\_  No (Not Intact)  Not Present Initial: TN

**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:**

**Solid:**  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve  EnCores®  TerraCores®  \_\_\_\_\_

**Water:**  VOA  VOAh  VOAna<sub>2</sub>  125AGB  125AGBh  125AGBp  1AGB  1AGBna<sub>2</sub>  1AGBs

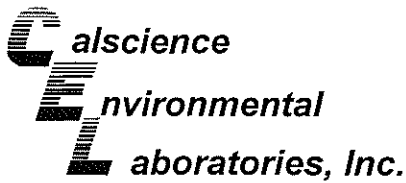
500AGB  500AGJ  500AGJs  250AGB  250CGB  250CGBs  1PB  500PB  500PBna

250PB  250PBn  125PB  125PBz<sub>na</sub>  100PJ  100PJna<sub>2</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

**Air:**  Tedlar®  Summa®  \_\_\_\_\_ **Other:**  \_\_\_\_\_ **Checked/Labeled by:** TN

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth) **Reviewed by:** W.S.C

Preservative: h: HCL n: HNO<sub>3</sub> na<sub>2</sub>: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> Na: NaOH p: H<sub>3</sub>PO<sub>4</sub> s: H<sub>2</sub>SO<sub>4</sub> z<sub>na</sub>: ZnAc<sub>2</sub>+NaOH f: Field-filtered **Scanned by:** W.S.C



July 28, 2009

Jay Johnson  
Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Subject: **Calscience Work Order No.: 09-07-1179**  
Client Reference: **BP 472**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/15/2009 and analyzed in accordance with the attached chain-of-custody.

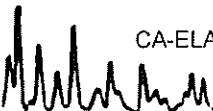
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

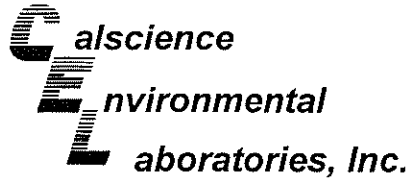
If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard Villafania".

Calscience Environmental  
Laboratories, Inc.  
Richard Villafania  
Project Manager





## Analytical Report

net c

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP 472

Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 6.5'	09-07-1179-1-A	07/14/09 10:55	Solid	GC 45	07/16/09	07/16/09 19:27	090716B03

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics (C10-C28)	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	95	61-145	

MW-1 8'	09-07-1179-2-A	07/14/09 10:58	Solid	GC 45	07/16/09	07/17/09 10:37	090716B03
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Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics (C10-C28)	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	86	61-145	

MW-1 9.5'	09-07-1179-3-A	07/14/09 11:00	Solid	GC 45	07/16/09	07/17/09 12:32	090716B03
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Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics (C10-C28)	ND	5.0	1		mg/kg

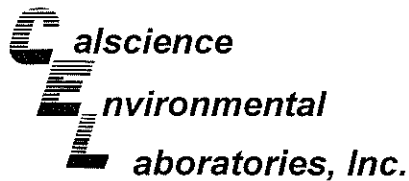
Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	86	61-145	

MW-1 11'	09-07-1179-4-A	07/14/09 11:02	Solid	GC 45	07/16/09	07/17/09 12:47	090716B03
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Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics (C10-C28)	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP 472

Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 12.5'	09-07-1179-5-A	07/14/09 11:05	Solid	GC 45	07/16/09	07/17/09 13:03	090716B03

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics (C10-C28)	ND	5.0	1		mg/kg
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	85	61-145			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 14.5'	09-07-1179-6-A	07/14/09 11:07	Solid	GC 45	07/16/09	07/17/09 13:18	090716B03

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics (C10-C28)	ND	5.0	1		mg/kg
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	88	61-145			

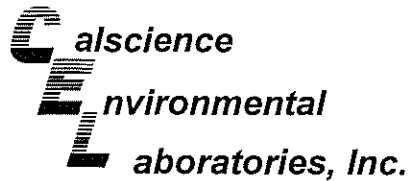
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 6.5'	09-07-1179-7-A	07/14/09 16:00	Solid	GC 45	07/16/09	07/17/09 13:34	090716B03

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics (C10-C28)	ND	5.0	1		mg/kg
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	86	61-145			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 8'	09-07-1179-8-A	07/14/09 16:02	Solid	GC 45	07/16/09	07/17/09 14:18	090716B03

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics (C10-C28)	ND	5.0	1		mg/kg
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	87	61-145			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report

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Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP 472

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 9.5'	09-07-1179-9-A	07/14/09 16:05	Solid	GC 45	07/16/09	07/17/09 14:33	090716B03

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics (C10-C28)	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	83	61-145	

MW-2 11'	09-07-1179-10-A	07/14/09 16:07	Solid	GC 45	07/16/09	07/17/09 14:48	090716B03
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Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics (C10-C28)	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	87	61-145	

MW-2 12.5'	09-07-1179-11-A	07/14/09 16:10	Solid	GC 45	07/16/09	07/17/09 15:35	090716B03
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Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics (C10-C28)	ND	5.0	1		mg/kg

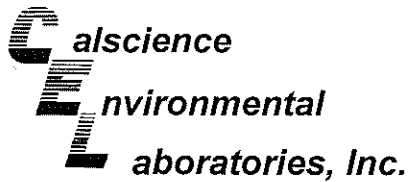
Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	86	61-145	

MW-2 14.5'	09-07-1179-12-A	07/14/09 16:12	Solid	GC 45	07/16/09	07/17/09 15:50	090716B03
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Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics (C10-C28)	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	88	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP 472

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 17'	09-07-1179-13-A	07/14/09 16:15	Solid	GC 45	07/16/09	07/17/09 16:06	090716B03

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics (C10-C28)	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	90	61-145			

MW-3 6.5'	09-07-1179-14-A	07/14/09 14:05	Solid	GC 45	07/16/09	07/17/09 16:21	090716B03
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Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics (C10-C28)	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	83	61-145			

MW-3 8'	09-07-1179-15-A	07/14/09 14:07	Solid	GC 45	07/16/09	07/17/09 16:37	090716B03
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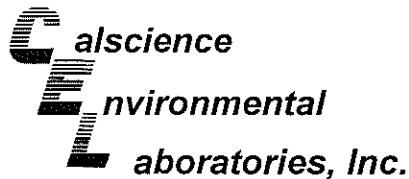
Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics (C10-C28)	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	87	61-145			

MW-3 9.5'	09-07-1179-16-A	07/14/09 14:10	Solid	GC 45	07/16/09	07/17/09 16:52	090716B03
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Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics (C10-C28)	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	88	61-145			

RL - Reporting Limit    DF - Dilution Factor    Qual - Qualifiers





Analytical Report

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 07/15/09
Work Order No: 09-07-1179
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project: BP 472

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Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-3 11', 09-07-1179-17-A, 07/14/09 14:12, Solid, GC 45, 07/16/09, 07/17/09 17:08, 090716B03

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Diesel Range Organics (C10-C28) ND, 5.0, 1, mg/kg. Surrogates: REC (%) Control Limits Qual. Decachlorobiphenyl 86, 61-145

Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-3 12.5', 09-07-1179-18-A, 07/14/09 14:15, Solid, GC 45, 07/16/09, 07/17/09 17:23, 090716B03

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Diesel Range Organics (C10-C28) ND, 5.0, 1, mg/kg. Surrogates: REC (%) Control Limits Qual. Decachlorobiphenyl 88, 61-145

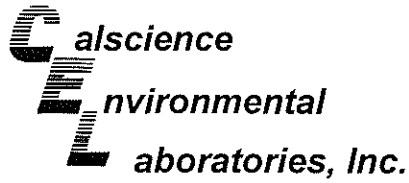
Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-3 14.5', 09-07-1179-19-A, 07/14/09 14:17, Solid, GC 45, 07/16/09, 07/17/09 17:39, 090716B03

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Diesel Range Organics (C10-C28) ND, 5.0, 1, mg/kg. Surrogates: REC (%) Control Limits Qual. Decachlorobiphenyl 88, 61-145

Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-3 17', 09-07-1179-20-A, 07/14/09 14:20, Solid, GC 45, 07/16/09, 07/17/09 17:55, 090716B03

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Diesel Range Organics (C10-C28) ND, 5.0, 1, mg/kg. Surrogates: REC (%) Control Limits Qual. Decachlorobiphenyl 88, 61-145

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

07/16/09

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

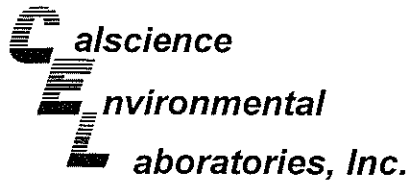
Project: BP 472

Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-701-20	N/A	Solid	GC 45	07/16/09	07/16/09 17:06	090716B03

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Diesel Range Organics (C10-C28)	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	92	61-145			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP 472

Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 6.5'	09-07-1179-1-A	07/14/09 10:55	Solid	GC 45	07/16/09	07/16/09 19:27	090716B04

Parameter	Result	RL	DF	Qual	Units
Motor Oil Range Organics (C17-C44)	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	95	61-145			

MW-1 8'	09-07-1179-2-A	07/14/09 10:58	Solid	GC 45	07/16/09	07/17/09 10:37	090716B04
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Parameter	Result	RL	DF	Qual	Units
Motor Oil Range Organics (C17-C44)	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	86	61-145			

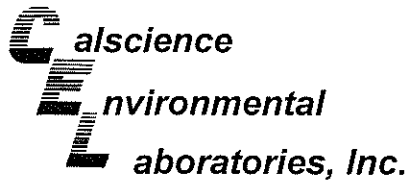
MW-1 9.5'	09-07-1179-3-A	07/14/09 11:00	Solid	GC 45	07/16/09	07/17/09 12:32	090716B04
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Parameter	Result	RL	DF	Qual	Units
Motor Oil Range Organics (C17-C44)	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	86	61-145			

MW-1 11'	09-07-1179-4-A	07/14/09 11:02	Solid	GC 45	07/16/09	07/17/09 12:47	090716B04
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Parameter	Result	RL	DF	Qual	Units
Motor Oil Range Organics (C17-C44)	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	90	61-145			

RL - Reporting Limit    DF - Dilution Factor    Qual - Qualifiers



## Analytical Report

net

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP 472

Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 12.5'	09-07-1179-5-A	07/14/09 11:05	Solid	GC 45	07/16/09	07/17/09 13:03	090716B04

Parameter	Result	RL	DF	Qual	Units
Motor Oil Range Organics (C17-C44)	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	85	61-145			

MW-1 14.5'	09-07-1179-6-A	07/14/09 11:07	Solid	GC 45	07/16/09	07/17/09 13:18	090716B04
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Parameter	Result	RL	DF	Qual	Units
Motor Oil Range Organics (C17-C44)	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	88	61-145			

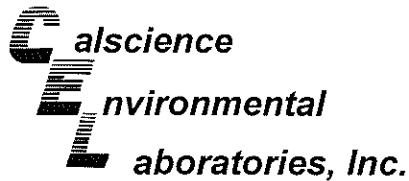
MW-2 6.5'	09-07-1179-7-A	07/14/09 16:00	Solid	GC 45	07/16/09	07/17/09 13:34	090716B04
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Parameter	Result	RL	DF	Qual	Units
Motor Oil Range Organics (C17-C44)	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	86	61-145			

MW-2 8'	09-07-1179-8-A	07/14/09 16:02	Solid	GC 45	07/16/09	07/17/09 14:18	090716B04
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Parameter	Result	RL	DF	Qual	Units
Motor Oil Range Organics (C17-C44)	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	87	61-145			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report

net c

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP 472

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 9.5'	09-07-1179-9-A	07/14/09 16:05	Solid	GC 45	07/16/09	07/17/09 14:33	090716B04

Parameter	Result	RL	DF	Qual	Units
Motor Oil Range Organics (C17-C44)	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	83	61-145			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 11'	09-07-1179-10-A	07/14/09 16:07	Solid	GC 45	07/16/09	07/17/09 14:48	090716B04

Parameter	Result	RL	DF	Qual	Units
Motor Oil Range Organics (C17-C44)	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	87	61-145			

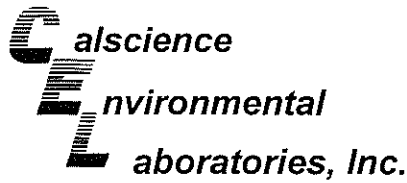
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 12.5'	09-07-1179-11-A	07/14/09 16:10	Solid	GC 45	07/16/09	07/17/09 15:35	090716B04

Parameter	Result	RL	DF	Qual	Units
Motor Oil Range Organics (C17-C44)	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	86	61-145			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 14.5'	09-07-1179-12-A	07/14/09 16:12	Solid	GC 45	07/16/09	07/17/09 15:50	090716B04

Parameter	Result	RL	DF	Qual	Units
Motor Oil Range Organics (C17-C44)	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	88	61-145			

RL - Reporting Limit    DF - Dilution Factor    Qual - Qualifiers



## Analytical Report

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP 472

Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 17'	09-07-1179-13-A	07/14/09 16:15	Solid	GC 45	07/16/09	07/17/09 16:06	090716B04

Parameter	Result	RL	DF	Qual	Units
Motor Oil Range Organics (C17-C44)	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	90	61-145			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3 6.5'	09-07-1179-14-A	07/14/09 14:05	Solid	GC 45	07/16/09	07/17/09 16:21	090716B04

Parameter	Result	RL	DF	Qual	Units
Motor Oil Range Organics (C17-C44)	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	83	61-145			

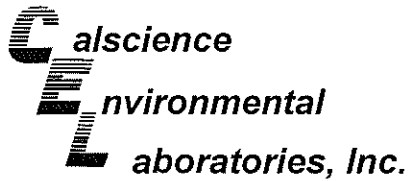
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3 8'	09-07-1179-15-A	07/14/09 14:07	Solid	GC 45	07/16/09	07/17/09 16:37	090716B04

Parameter	Result	RL	DF	Qual	Units
Motor Oil Range Organics (C17-C44)	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	87	61-145			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3 9.5'	09-07-1179-16-A	07/14/09 14:10	Solid	GC 45	07/16/09	07/17/09 16:52	090716B04

Parameter	Result	RL	DF	Qual	Units
Motor Oil Range Organics (C17-C44)	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	88	61-145			

RL - Reporting Limit    DF - Dilution Factor    Qual - Qualifiers



Analytical Report

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Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 07/15/09
Work Order No: 09-07-1179
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project: BP 472

Page 5 of 6

Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-3 11', 09-07-1179-17-A, 07/14/09 14:12, Solid, GC 45, 07/16/09, 07/17/09 17:08, 090716B04

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Row 1: Motor Oil Range Organics (C17-C44), ND, 25, 1, , mg/kg. Row 2: Surrogates: REC (%) Control Limits Qual. Row 3: Decachlorobiphenyl, 86, 61-145

Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-3 12.5', 09-07-1179-18-A, 07/14/09 14:15, Solid, GC 45, 07/16/09, 07/17/09 17:23, 090716B04

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Row 1: Motor Oil Range Organics (C17-C44), ND, 25, 1, , mg/kg. Row 2: Surrogates: REC (%) Control Limits Qual. Row 3: Decachlorobiphenyl, 88, 61-145

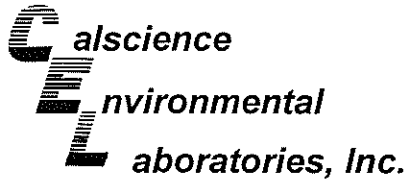
Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-3 14.5', 09-07-1179-19-A, 07/14/09 14:17, Solid, GC 45, 07/16/09, 07/17/09 17:39, 090716B04

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Row 1: Motor Oil Range Organics (C17-C44), ND, 25, 1, , mg/kg. Row 2: Surrogates: REC (%) Control Limits Qual. Row 3: Decachlorobiphenyl, 88, 61-145

Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-3 17', 09-07-1179-20-A, 07/14/09 14:20, Solid, GC 45, 07/16/09, 07/17/09 17:55, 090716B04

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Row 1: Motor Oil Range Organics (C17-C44), ND, 25, 1, , mg/kg. Row 2: Surrogates: REC (%) Control Limits Quali. Row 3: Decachlorobiphenyl, 88, 61-145

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

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Stratus Environmental, inc.  
 3330 Cameron Park Drive, Suite 550  
 Cameron Park, CA 95682-8861

Date Received: 07/15/09  
 Work Order No: 09-07-1179  
 Preparation: EPA 3550B  
 Method: EPA 8015B (M)

Project: BP 472

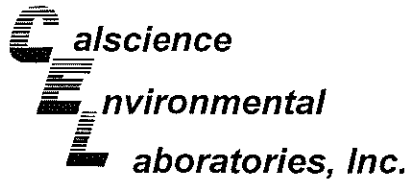
Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-755-9	N/A	Solid	GC 45	07/16/09	07/16/09 17:06	090716B04

Parameter	Result	RL	DF	Qual	Units
Motor Oil Range Organics (C17-C44)	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	92	61-145			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report

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Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 07/15/09
Work Order No: 09-07-1179
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: BP 472

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Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-1 6.5', 09-07-1179-1-A, 07/14/09 10:55, Solid, GC 1, 07/15/09, 07/16/09 10:16, 090715B02

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Row 1: Gasoline Range Organics (C6-C12), ND, 0.50, 1, , mg/kg

Table with 4 columns: Surrogates, REC (%), Control Limits, Qual. Row 1: 1,4-Bromofluorobenzene, 81, 42-126,

Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-1 8', 09-07-1179-2-A, 07/14/09 10:58, Solid, GC 1, 07/15/09, 07/16/09 10:48, 090715B02

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Row 1: Gasoline Range Organics (C6-C12), ND, 0.50, 1, , mg/kg

Table with 4 columns: Surrogates, REC (%), Control Limits, Qual. Row 1: 1,4-Bromofluorobenzene, 80, 42-126,

Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-1 9.5', 09-07-1179-3-A, 07/14/09 11:00, Solid, GC 1, 07/15/09, 07/16/09 11:20, 090715B02

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Row 1: Gasoline Range Organics (C6-C12), ND, 0.50, 1, , mg/kg

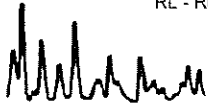
Table with 4 columns: Surrogates, REC (%), Control Limits, Qual. Row 1: 1,4-Bromofluorobenzene, 81, 42-126,

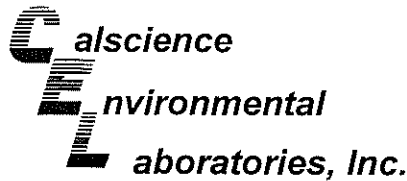
Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-1 11', 09-07-1179-4-A, 07/14/09 11:02, Solid, GC 1, 07/15/09, 07/16/09 13:28, 090715B02

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Row 1: Gasoline Range Organics (C6-C12), ND, 0.50, 1, , mg/kg

Table with 4 columns: Surrogates, REC (%), Control Limits, Qual. Row 1: 1,4-Bromofluorobenzene, 82, 42-126,

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





## Analytical Report

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Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: BP 472

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 12.5'	09-07-1179-5-A	07/14/09 11:05	Solid	GC 1	07/15/09	07/16/09 14:00	090715B02

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	0.50	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	77	42-126			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 14.5'	09-07-1179-6-A	07/14/09 11:07	Solid	GC 1	07/15/09	07/16/09 14:32	090715B02

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	0.87	0.50	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	85	42-126			

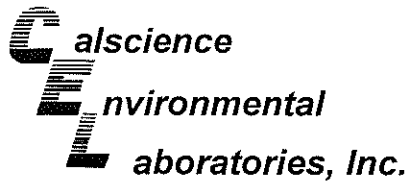
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 6.5'	09-07-1179-7-A	07/14/09 16:00	Solid	GC 1	07/15/09	07/16/09 15:04	090715B02

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	0.50	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	78	42-126			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 8'	09-07-1179-8-A	07/14/09 16:02	Solid	GC 1	07/15/09	07/16/09 15:37	090715B02

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	0.50	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	79	42-126			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report

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Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: BP 472

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 9.5'	09-07-1179-9-A	07/14/09 16:05	Solid	GC 1	07/15/09	07/16/09 16:09	090715B02

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	81	42-126	

MW-2 11'	09-07-1179-10-A	07/14/09 16:07	Solid	GC 1	07/15/09	07/16/09 16:41	090715B02
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Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	80	42-126	

MW-2 12.5'	09-07-1179-11-A	07/14/09 16:10	Solid	GC 1	07/15/09	07/16/09 17:13	090715B02
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Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	0.50	1		mg/kg

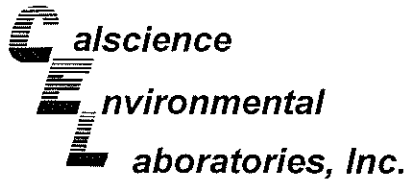
Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	78	42-126	

MW-2 14.5'	09-07-1179-12-A	07/14/09 16:12	Solid	GC 1	07/15/09	07/16/09 17:45	090715B02
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Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	86	42-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 07/15/09
Work Order No: 09-07-1179
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: BP 472

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Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-2 17', 09-07-1179-13-A, 07/14/09 16:15, Solid, GC 1, 07/15/09, 07/16/09 03:20, 090715B01

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Rows: Gasoline Range Organics (C6-C12) ND 0.50 1 mg/kg; Surrogates: REC (%) Control Limits Qual; 1,4-Bromofluorobenzene 85 42-126

Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-3 6.5', 09-07-1179-14-A, 07/14/09 14:05, Solid, GC 1, 07/15/09, 07/16/09 03:52, 090715B01

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Rows: Gasoline Range Organics (C6-C12) ND 0.50 1 mg/kg; Surrogates: REC (%) Control Limits Qual; 1,4-Bromofluorobenzene 84 42-126

Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-3 8', 09-07-1179-15-A, 07/14/09 14:07, Solid, GC 1, 07/15/09, 07/16/09 04:24, 090715B01

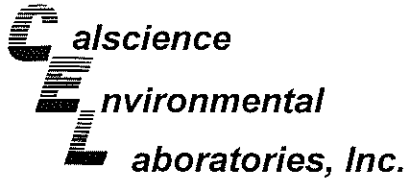
Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Rows: Gasoline Range Organics (C6-C12) ND 0.50 1 mg/kg; Surrogates: REC (%) Control Limits Qual; 1,4-Bromofluorobenzene 84 42-126

Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-3 9.5', 09-07-1179-16-A, 07/14/09 14:10, Solid, GC 1, 07/15/09, 07/16/09 04:56, 090715B01

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Rows: Gasoline Range Organics (C6-C12) ND 0.50 1 mg/kg; Surrogates: REC (%) Control Limits Qual; 1,4-Bromofluorobenzene 85 42-126

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report

Stratus Environmental, inc.  
 3330 Cameron Park Drive, Suite 550  
 Cameron Park, CA 95682-8861

Date Received: 07/15/09  
 Work Order No: 09-07-1179  
 Preparation: EPA 5030B  
 Method: EPA 8015B (M)

Project: BP 472

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3 11'	09-07-1179-17-A	07/14/09 14:12	Solid	GC 1	07/15/09	07/16/09 05:28	090715B01

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	0.50	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	83	42-126			

MW-3 12.5'	09-07-1179-18-A	07/14/09 14:15	Solid	GC 1	07/15/09	07/16/09 06:00	090715B01
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Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	0.50	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	86	42-126			

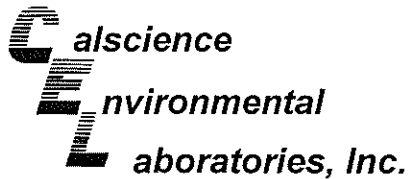
MW-3 14.5'	09-07-1179-19-A	07/14/09 14:17	Solid	GC 1	07/15/09	07/16/09 06:32	090715B01
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Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	0.50	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	83	42-126			

MW-3 17'	09-07-1179-20-A	07/14/09 14:20	Solid	GC 1	07/15/09	07/16/09 07:04	090715B01
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Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	0.50	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	86	42-126			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

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Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 07/15/09
Work Order No: 09-07-1179
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: BP 472

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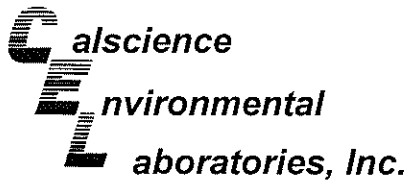
Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: Method Blank, 099-12-697-134, N/A, Solid, GC 1, 07/15/09, 07/15/09 16:42, 090715B01

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Row 1: Gasoline Range Organics (C6-C12), ND, 0.50, 1, mg/kg. Row 2: Surrogates: REC (%), Control Limits, Qual. Row 3: 1,4-Bromofluorobenzene, 81, 42-126

Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: Method Blank, 099-12-697-135, N/A, Solid, GC 1, 07/15/09, 07/16/09 09:12, 090715B02

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Row 1: Gasoline Range Organics (C6-C12), ND, 0.50, 1, mg/kg. Row 2: Surrogates: REC (%), Control Limits, Qual. Row 3: 1,4-Bromofluorobenzene, 80, 42-126

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers



## Analytical Report

rel

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: mg/kg

Project: BP 472

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 6.5'	09-07-1179-1-A	07/14/09 10:55	Solid	GC/MS Z	07/16/09	07/16/09 20:36	090716L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Toluene	ND	0.0010	1	
Ethylbenzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	101	75-141			1,2-Dichloroethane-d4	113	73-151		
Toluene-d8	98	87-111			1,4-Bromofluorobenzene	86	71-113		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 8'	09-07-1179-2-A	07/14/09 10:58	Solid	GC/MS Z	07/16/09	07/16/09 21:05	090716L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Toluene	ND	0.0010	1	
Ethylbenzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	75-141			1,2-Dichloroethane-d4	115	73-151		
Toluene-d8	97	87-111			1,4-Bromofluorobenzene	88	71-113		

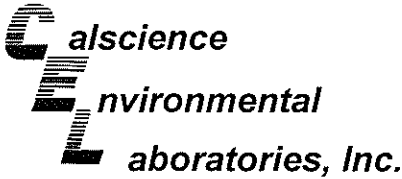
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 9.5'	09-07-1179-3-A	07/14/09 11:00	Solid	GC/MS Z	07/16/09	07/16/09 21:35	090716L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Toluene	ND	0.0010	1	
Ethylbenzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	97	75-141			1,2-Dichloroethane-d4	113	73-151		
Toluene-d8	97	87-111			1,4-Bromofluorobenzene	83	71-113		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 11'	09-07-1179-4-A	07/14/09 11:02	Solid	GC/MS Z	07/16/09	07/16/09 22:04	090716L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Toluene	ND	0.0010	1	
Ethylbenzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	103	75-141			1,2-Dichloroethane-d4	118	73-151		
Toluene-d8	98	87-111			1,4-Bromofluorobenzene	88	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

net

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 07/15/09
Work Order No: 09-07-1179
Preparation: EPA 5030B
Method: EPA 8260B
Units: mg/kg

Project: BP 472

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Table with 9 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-1 12.5', 09-07-1179-5-A, 07/14/09 11:05, Solid, GC/MS Z, 07/16/09, 07/16/09 22:34, 090716L01

Table with 10 columns: Parameter, Result, RL, DF, Qual, Parameter, Result, RL, DF, Qual. Rows for Benzene, Ethylbenzene, Surrogates, Dibromofluoromethane, Toluene-d8, 1,2-Dichloroethane-d4, 1,4-Bromofluorobenzene.

Table with 9 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-1 14.5', 09-07-1179-6-A, 07/14/09 11:07, Solid, GC/MS Z, 07/16/09, 07/16/09 23:04, 090716L01

Table with 10 columns: Parameter, Result, RL, DF, Qual, Parameter, Result, RL, DF, Qual. Rows for Benzene, Ethylbenzene, Surrogates, Dibromofluoromethane, Toluene-d8, 1,2-Dichloroethane-d4, 1,4-Bromofluorobenzene.

Table with 9 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-2 6.5', 09-07-1179-7-A, 07/14/09 16:00, Solid, GC/MS Z, 07/16/09, 07/16/09 23:33, 090716L01

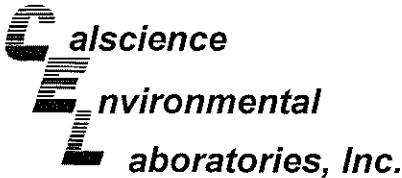
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Table with 9 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-2 8', 09-07-1179-8-A, 07/14/09 16:02, Solid, GC/MS Z, 07/16/09, 07/17/09 00:02, 090716L01

Table with 10 columns: Parameter, Result, RL, DF, Qual, Parameter, Result, RL, DF, Qual. Rows for Benzene, Ethylbenzene, Surrogates, Dibromofluoromethane, Toluene-d8, 1,2-Dichloroethane-d4, 1,4-Bromofluorobenzene.

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers





Analytical Report

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Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 07/15/09
Work Order No: 09-07-1179
Preparation: EPA 5030B
Method: EPA 8260B
Units: mg/kg

Project: BP 472

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Table with 9 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-2 9.5', 09-07-1179-9-A, 07/14/09 16:05, Solid, GC/MS Z, 07/17/09, 07/17/09 16:05, 090717L01

Table with 10 columns: Parameter, Result, RL, DF, Qual, Parameter, Result, RL, DF, Qual. Rows include Benzene, Ethylbenzene, Surrogates, Dibromofluoromethane, Toluene-d8, 1,2-Dichloroethane-d4, 1,4-Bromofluorobenzene.

Table with 9 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-2 11', 09-07-1179-10-A, 07/14/09 16:07, Solid, GC/MS Z, 07/17/09, 07/17/09 16:35, 090717L01

Table with 10 columns: Parameter, Result, RL, DF, Qual, Parameter, Result, RL, DF, Qual. Rows include Benzene, Ethylbenzene, Surrogates, Dibromofluoromethane, Toluene-d8, 1,2-Dichloroethane-d4, 1,4-Bromofluorobenzene.

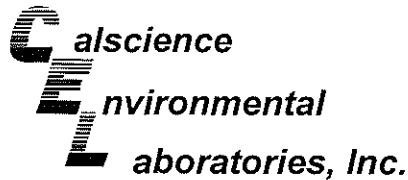
Table with 9 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-2 12.5', 09-07-1179-11-A, 07/14/09 16:10, Solid, GC/MS Z, 07/17/09, 07/17/09 17:05, 090717L01

Table with 10 columns: Parameter, Result, RL, DF, Qual, Parameter, Result, RL, DF, Qual. Rows include Benzene, Ethylbenzene, Surrogates, Dibromofluoromethane, Toluene-d8, 1,2-Dichloroethane-d4, 1,4-Bromofluorobenzene.

Table with 9 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-2 14.5', 09-07-1179-12-A, 07/14/09 16:12, Solid, GC/MS Z, 07/17/09, 07/17/09 17:34, 090717L01

Table with 10 columns: Parameter, Result, RL, DF, Qual, Parameter, Result, RL, DF, Qual. Rows include Benzene, Ethylbenzene, Surrogates, Dibromofluoromethane, Toluene-d8, 1,2-Dichloroethane-d4, 1,4-Bromofluorobenzene.

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers



## Analytical Report

net

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: mg/kg

Project: BP 472

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 17'	09-07-1179-13-A	07/14/09 16:15	Solid	GC/MS Z	07/16/09	07/16/09 18:37	090716L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Toluene	ND	0.0010	1	
Ethylbenzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	102	75-141			1,2-Dichloroethane-d4	117	73-151		
Toluene-d8	96	87-111			1,4-Bromofluorobenzene	86	71-113		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3 6.5'	09-07-1179-14-A	07/14/09 14:05	Solid	GC/MS Z	07/17/09	07/17/09 18:04	090717L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Toluene	ND	0.0010	1	
Ethylbenzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	102	75-141			1,2-Dichloroethane-d4	121	73-151		
Toluene-d8	96	87-111			1,4-Bromofluorobenzene	86	71-113		

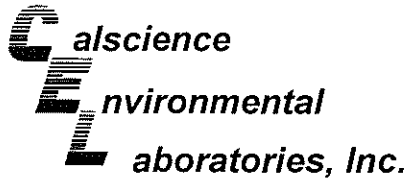
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3 8'	09-07-1179-15-A	07/14/09 14:07	Solid	GC/MS Z	07/17/09	07/17/09 18:33	090717L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Toluene	ND	0.0010	1	
Ethylbenzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	95	75-141			1,2-Dichloroethane-d4	110	73-151		
Toluene-d8	98	87-111			1,4-Bromofluorobenzene	82	71-113		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3 9.5'	09-07-1179-16-A	07/14/09 14:10	Solid	GC/MS Z	07/17/09	07/17/09 19:03	090717L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Toluene	ND	0.0010	1	
Ethylbenzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	101	75-141			1,2-Dichloroethane-d4	117	73-151		
Toluene-d8	98	87-111			1,4-Bromofluorobenzene	88	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: mg/kg

Project: BP 472

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3 11'	09-07-1179-17-A	07/14/09 14:12	Solid	GC/MS Z	07/17/09	07/17/09 19:33	090717L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Toluene	ND	0.0010	1	
Ethylbenzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>
		<u>Limits</u>					<u>Limits</u>		
Dibromofluoromethane	106	75-141			1,2-Dichloroethane-d4	121	73-151		
Toluene-d8	96	87-111			1,4-Bromofluorobenzene	84	71-113		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3 12.5'	09-07-1179-18-A	07/14/09 14:15	Solid	GC/MS Z	07/17/09	07/17/09 13:37	090717L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Toluene	ND	0.0010	1	
Ethylbenzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>
		<u>Limits</u>					<u>Limits</u>		
Dibromofluoromethane	103	75-141			1,2-Dichloroethane-d4	114	73-151		
Toluene-d8	97	87-111			1,4-Bromofluorobenzene	85	71-113		

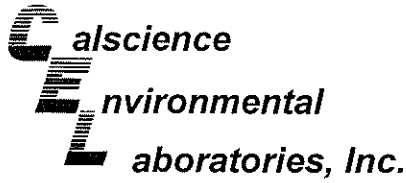
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3 14.5'	09-07-1179-19-A	07/14/09 14:17	Solid	GC/MS Z	07/17/09	07/17/09 20:02	090717L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Toluene	ND	0.0010	1	
Ethylbenzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>
		<u>Limits</u>					<u>Limits</u>		
Dibromofluoromethane	102	75-141			1,2-Dichloroethane-d4	113	73-151		
Toluene-d8	96	87-111			1,4-Bromofluorobenzene	88	71-113		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3 17'	09-07-1179-20-A	07/14/09 14:20	Solid	GC/MS Z	07/17/09	07/17/09 20:32	090717L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Toluene	ND	0.0010	1	
Ethylbenzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>
		<u>Limits</u>					<u>Limits</u>		
Dibromofluoromethane	101	75-141			1,2-Dichloroethane-d4	120	73-151		
Toluene-d8	97	87-111			1,4-Bromofluorobenzene	87	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

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Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: mg/kg

Project: BP 472

Page 6 of 6

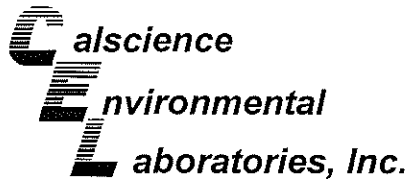
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-709-180	N/A	Solid	GC/MS Z	07/16/09	07/16/09 18:08	090716L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Toluene	ND	0.0010	1	
Ethylbenzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	98	75-141			1,2-Dichloroethane-d4	105	73-151		
Toluene-d8	95	87-111			1,4-Bromofluorobenzene	84	71-113		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-709-182	N/A	Solid	GC/MS Z	07/17/09	07/17/09 13:07	090717L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Toluene	ND	0.0010	1	
Ethylbenzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	107	75-141			1,2-Dichloroethane-d4	117	73-151		
Toluene-d8	96	87-111			1,4-Bromofluorobenzene	89	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

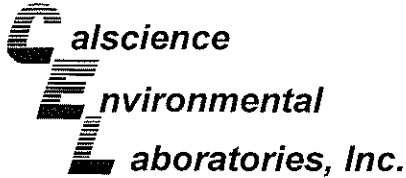
Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-2 11'	Solid	GC 45	07/16/09	07/16/09	090716S03

<u>Parameter</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Diesel Range Organics (C10-C28)	93	95	61-145	2	0-20	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - Spike/Spike Duplicate



Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

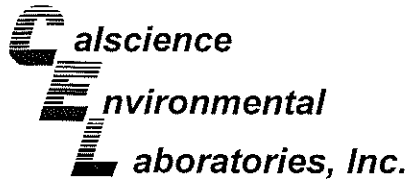
Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-2 11'	Solid	GC 45	07/16/09	07/16/09	090716S04

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Motor Oil Range Organics (C17-C44)	100	101	64-130	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - Spike/Spike Duplicate

09-07-1179

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

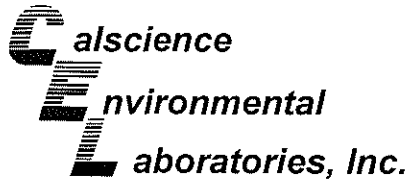
Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1084-1	Solid	GC 1	07/15/09	07/15/09	090715S01

<u>Parameter</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Gasoline Range Organics (C6-C12)	94	95	42-126	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit



**Quality Control - Spike/Spike Duplicate**

09-07-1179

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

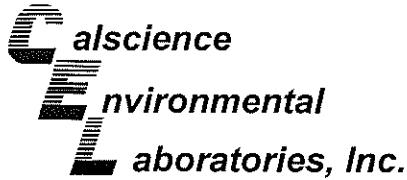
Project BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-1 9.5'	Solid	GC 1	07/15/09	07/16/09	090715S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	90	88	42-126	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit





## Quality Control - Spike/Spike Duplicate

net

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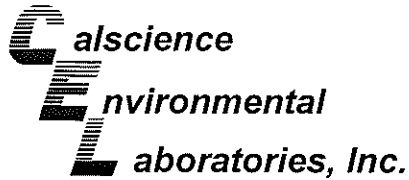
Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 5030B  
Method: EPA 8260B

Project BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-2 17'	Solid	GC/MS Z	07/16/09	07/16/09	090716S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	96	87	78-114	9	0-14	
Chloroform	88	85	80-120	3	0-20	
1,1-Dichloroethane	92	90	80-120	2	0-20	
1,2-Dichloroethane	94	85	80-120	10	0-20	
1,1-Dichloroethene	90	87	73-127	4	0-21	
Ethanol	68	69	45-135	1	0-29	
Tetrachloroethene	76	73	80-120	4	0-20	
Toluene	89	86	74-116	4	0-16	
Trichloroethene	86	82	74-122	5	0-17	
Methyl-t-Butyl Ether (MTBE)	89	86	69-123	3	0-18	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

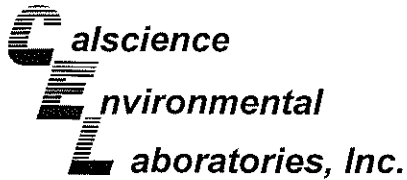
Date Received: 07/15/09  
Work Order No: 09-07-1179  
Preparation: EPA 5030B  
Method: EPA 8260B

Project BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-3 12.5'	Solid	GC/MS Z	07/17/09	07/17/09	090717S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	98	97	78-114	1	0-14	
Chloroform	95	95	80-120	0	0-20	
1,1-Dichloroethane	100	103	80-120	3	0-20	
1,2-Dichloroethane	97	100	80-120	3	0-20	
1,1-Dichloroethene	102	98	73-127	5	0-21	
Ethanol	79	93	45-135	16	0-29	
Tetrachloroethene	78	78	80-120	1	0-20	
Toluene	96	92	74-116	4	0-16	
Trichloroethene	89	90	74-122	2	0-17	
Methyl-t-Butyl Ether (MTBE)	99	103	69-123	4	0-18	

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate

09-07-1179  
EPA 3550B  
EPA 8015B (M)

Stratus Environmental, inc.  
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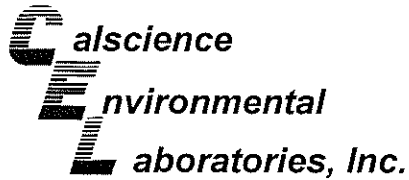
Date Received: N/A  
Work Order No: 09-07-1179  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-701-20	Solid	GC 45	07/16/09	07/16/09	090716B03

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics (C10-C28)	92	92	75-123	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.  
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Cameron Park, CA 95682-8861

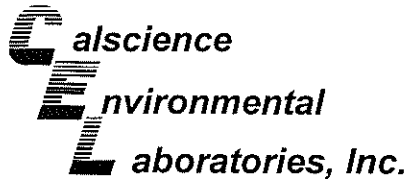
Date Received: N/A  
Work Order No: 09-07-1179  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-755-9	Solid	GC 45	07/16/09	07/16/09	090716B04

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Motor Oil Range Organics (C17-C44)	110	111	75-123	1	0-12	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: N/A  
Work Order No: 09-07-1179  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

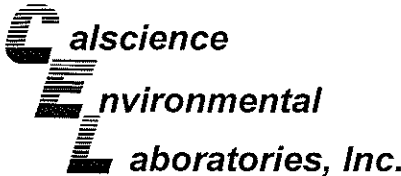
Project: BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-697-134	Solid	GC 1	07/15/09	07/15/09	090715B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	91	97	70-118	7	0-20	

RPD - Relative Percent Difference, CL - Control Limit

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Quality Control - LCS/LCS Duplicate

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Stratus Environmental, inc.  
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Cameron Park, CA 95682-8861

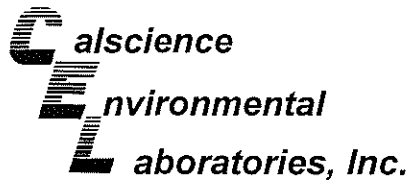
Date Received: N/A  
Work Order No: 09-07-1179  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-697-135	Solid	GC 1	07/15/09	07/16/09	090715B02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	96	96	70-118	0	0-20	

RPD - Relative Percent Difference . CL - Control Limit



## Quality Control - LCS/LCS Duplicate

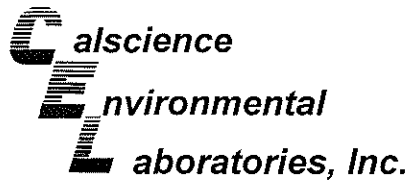
Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: N/A  
Work Order No: 09-07-1179  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-709-180	Solid	GC/MS Z	07/16/09	07/16/09	090716L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	101	107	84-114	79-119	6	0-7	
Bromobenzene	103	107	80-120	73-127	4	0-20	
Bromochloromethane	115	117	80-120	73-127	2	0-20	
Bromodichloromethane	97	101	80-120	73-127	4	0-20	
Bromoform	97	102	80-120	73-127	5	0-20	
Bromomethane	85	87	80-120	73-127	2	0-20	
n-Butylbenzene	108	110	77-123	69-131	2	0-25	
sec-Butylbenzene	104	107	80-120	73-127	3	0-20	
tert-Butylbenzene	106	108	80-120	73-127	2	0-20	
Carbon Disulfide	100	101	80-120	73-127	1	0-20	
Carbon Tetrachloride	100	102	69-135	58-146	3	0-13	
Chlorobenzene	96	102	85-109	81-113	6	0-8	
Chloroethane	97	93	80-120	73-127	4	0-20	
Chloroform	98	100	80-120	73-127	2	0-20	
Chloromethane	94	98	80-120	73-127	4	0-20	
2-Chlorotoluene	99	103	80-120	73-127	4	0-20	
4-Chlorotoluene	105	105	80-120	73-127	1	0-20	
Dibromochloromethane	107	114	80-120	73-127	6	0-20	
1,2-Dibromo-3-Chloropropane	111	119	80-120	73-127	7	0-20	
1,2-Dibromoethane	100	107	80-120	73-127	7	0-20	
Dibromomethane	101	112	80-120	73-127	11	0-20	
1,2-Dichlorobenzene	101	104	80-110	75-115	3	0-10	
1,3-Dichlorobenzene	101	101	80-120	73-127	0	0-20	
1,4-Dichlorobenzene	98	97	80-120	73-127	1	0-20	
Dichlorodifluoromethane	100	101	80-120	73-127	2	0-20	
1,1-Dichloroethane	107	87	80-120	73-127	21	0-20	
1,2-Dichloroethane	97	102	80-120	73-127	5	0-20	
1,1-Dichloroethene	102	102	83-125	76-132	0	0-10	
c-1,2-Dichloroethene	84	84	80-120	73-127	0	0-20	
t-1,2-Dichloroethene	97	96	80-120	73-127	1	0-20	
1,2-Dichloropropane	100	106	79-115	73-121	7	0-25	
1,3-Dichloropropane	101	107	80-120	73-127	6	0-20	
2,2-Dichloropropane	90	92	80-120	73-127	3	0-20	
1,1-Dichloropropene	99	102	80-120	73-127	3	0-20	
c-1,3-Dichloropropene	108	117	80-120	73-127	8	0-20	
t-1,3-Dichloropropene	115	126	80-120	73-127	9	0-20	
Ethylbenzene	100	107	80-120	73-127	6	0-20	
Isopropylbenzene	104	110	80-120	73-127	6	0-20	

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: N/A  
Work Order No: 09-07-1179  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-709-180	Solid	GC/MS Z	07/16/09	07/16/09	090716L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
p-Isopropyltoluene	108	110	80-120	73-127	2	0-20	
Methylene Chloride	95	99	80-120	73-127	4	0-20	
Naphthalene	95	100	80-120	73-127	5	0-20	
n-Propylbenzene	103	110	80-120	73-127	6	0-20	
Styrene	106	109	80-120	73-127	2	0-20	
Ethanol	107	96	50-134	36-148	11	0-23	
1,1,1,2-Tetrachloroethane	95	106	80-120	73-127	11	0-20	
1,1,2,2-Tetrachloroethane	89	96	80-120	73-127	8	0-20	
Tetrachloroethene	99	108	80-120	73-127	8	0-20	
Toluene	96	102	79-115	73-121	7	0-8	
1,2,3-Trichlorobenzene	98	98	80-120	73-127	0	0-20	
1,2,4-Trichlorobenzene	99	96	80-120	73-127	2	0-20	
1,1,1-Trichloroethane	99	102	80-120	73-127	3	0-20	
1,1,2-Trichloroethane	100	108	80-120	73-127	8	0-20	
Trichloroethene	96	102	87-111	83-115	7	0-7	
Trichlorofluoromethane	97	97	80-120	73-127	0	0-20	
1,2,3-Trichloropropane	109	118	80-120	73-127	8	0-20	
1,2,4-Trimethylbenzene	108	111	80-120	73-127	2	0-20	
1,3,5-Trimethylbenzene	104	110	80-120	73-127	6	0-20	
Vinyl Acetate	89	74	80-120	73-127	18	0-20	
Vinyl Chloride	95	95	72-126	63-135	0	0-10	
p/m-Xylene	104	109	80-120	73-127	5	0-20	
o-Xylene	100	107	80-120	73-127	6	0-20	
Methyl-t-Butyl Ether (MTBE)	97	100	75-129	66-138	3	0-13	
Tert-Butyl Alcohol (TBA)	101	100	66-126	56-136	1	0-24	
Diisopropyl Ether (DIPE)	101	78	77-125	69-133	26	0-13	
Ethyl-t-Butyl Ether (ETBE)	88	92	72-132	62-142	4	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	105	77-125	69-133	7	0-10	

Total number of LCS compounds : 66

Total number of ME compounds : 2

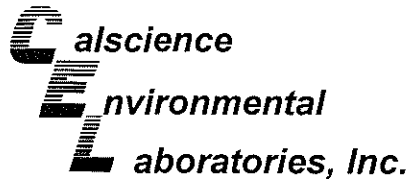
Total number of ME compounds allowed : 3

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit







## Quality Control - LCS/LCS Duplicate

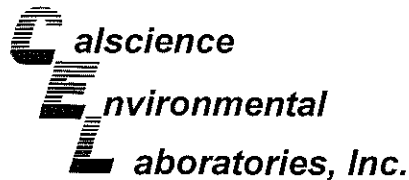
Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: N/A  
Work Order No: 09-07-1179  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-709-182	Solid	GC/MS Z	07/17/09	07/17/09	090717L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	106	108	84-114	79-119	2	0-7	
Bromobenzene	110	109	80-120	73-127	0	0-20	
Bromochloromethane	114	174	80-120	73-127	42	0-20	
Bromodichloromethane	104	105	80-120	73-127	2	0-20	
Bromoform	111	108	80-120	73-127	2	0-20	
Bromomethane	82	82	80-120	73-127	0	0-20	
n-Butylbenzene	105	104	77-123	69-131	1	0-25	
sec-Butylbenzene	100	102	80-120	73-127	1	0-20	
tert-Butylbenzene	107	104	80-120	73-127	3	0-20	
Carbon Disulfide	106	107	80-120	73-127	1	0-20	
Carbon Tetrachloride	103	103	69-135	58-146	0	0-13	
Chlorobenzene	100	102	85-109	81-113	2	0-8	
Chloroethane	95	100	80-120	73-127	6	0-20	
Chloroform	102	121	80-120	73-127	17	0-20	
Chloromethane	96	103	80-120	73-127	7	0-20	
2-Chlorotoluene	100	104	80-120	73-127	4	0-20	
4-Chlorotoluene	102	103	80-120	73-127	0	0-20	
Dibromochloromethane	116	117	80-120	73-127	1	0-20	
1,2-Dibromo-3-Chloropropane	118	117	80-120	73-127	1	0-20	
1,2-Dibromoethane	110	112	80-120	73-127	2	0-20	
Dibromomethane	117	119	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	99	101	80-110	75-115	2	0-10	
1,3-Dichlorobenzene	102	102	80-120	73-127	0	0-20	
1,4-Dichlorobenzene	98	97	80-120	73-127	1	0-20	
Dichlorodifluoromethane	100	106	80-120	73-127	5	0-20	
1,1-Dichloroethane	105	114	80-120	73-127	8	0-20	
1,2-Dichloroethane	104	108	80-120	73-127	4	0-20	
1,1-Dichloroethene	106	107	83-125	76-132	1	0-10	
c-1,2-Dichloroethene	85	119	80-120	73-127	34	0-20	
t-1,2-Dichloroethene	99	101	80-120	73-127	2	0-20	
1,2-Dichloropropane	106	112	79-115	73-121	5	0-25	
1,3-Dichloropropane	106	114	80-120	73-127	8	0-20	
2,2-Dichloropropane	98	119	80-120	73-127	19	0-20	
1,1-Dichloropropene	102	102	80-120	73-127	0	0-20	
c-1,3-Dichloropropene	119	121	80-120	73-127	2	0-20	
t-1,3-Dichloropropene	129	133	80-120	73-127	3	0-20	
Ethylbenzene	103	106	80-120	73-127	3	0-20	
Isopropylbenzene	107	109	80-120	73-127	2	0-20	

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: N/A  
Work Order No: 09-07-1179  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: BP 472

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-709-182	Solid	GC/MS Z	07/17/09	07/17/09	090717L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
p-Isopropyltoluene	108	106	80-120	73-127	2	0-20	
Methylene Chloride	100	101	80-120	73-127	1	0-20	
Naphthalene	101	104	80-120	73-127	3	0-20	
n-Propylbenzene	106	107	80-120	73-127	2	0-20	
Styrene	109	113	80-120	73-127	4	0-20	
Ethanol	101	102	50-134	36-148	1	0-23	
1,1,1,2-Tetrachloroethane	102	103	80-120	73-127	1	0-20	
1,1,2,2-Tetrachloroethane	103	106	80-120	73-127	3	0-20	
Tetrachloroethene	86	99	80-120	73-127	14	0-20	
Toluene	102	102	79-115	73-121	0	0-8	
1,2,3-Trichlorobenzene	99	101	80-120	73-127	2	0-20	
1,2,4-Trichlorobenzene	99	99	80-120	73-127	0	0-20	
1,1,1-Trichloroethane	101	102	80-120	73-127	2	0-20	
1,1,2-Trichloroethane	111	118	80-120	73-127	7	0-20	
Trichloroethene	100	101	87-111	83-115	2	0-7	
Trichlorofluoromethane	100	100	80-120	73-127	0	0-20	
1,2,3-Trichloropropane	117	120	80-120	73-127	3	0-20	
1,2,4-Trimethylbenzene	109	107	80-120	73-127	2	0-20	
1,3,5-Trimethylbenzene	105	110	80-120	73-127	5	0-20	
Vinyl Acetate	116	117	80-120	73-127	1	0-20	
Vinyl Chloride	91	92	72-126	63-135	1	0-10	
p/m-Xylene	107	110	80-120	73-127	2	0-20	
o-Xylene	103	105	80-120	73-127	2	0-20	
Methyl-t-Butyl Ether (MTBE)	102	107	75-129	66-138	4	0-13	
Tert-Butyl Alcohol (TBA)	93	92	66-126	56-136	1	0-24	
Diisopropyl Ether (DIPE)	103	105	77-125	69-133	2	0-13	
Ethyl-t-Butyl Ether (ETBE)	91	108	72-132	62-142	17	0-12	
Tert-Amyl-Methyl Ether (TAME)	101	106	77-125	69-133	5	0-10	

Total number of LCS compounds : 66

Total number of ME compounds : 2

Total number of ME compounds allowed : 3

LCS ME CL validation result : Pass

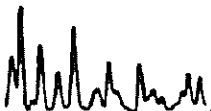
RPD - Relative Percent Difference, CL - Control Limit

## Glossary of Terms and Qualifiers



Work Order Number: 09-07-1179

<u>Qualifier</u>	<u>Definition</u>
AX	Sample too dilute to quantify surrogate.
BA	Relative percent difference out of control.
BA,AY	BA = Relative percent difference out of control. AY = Matrix interference suspected.
BB	Sample > 4x spike concentration.
BF	Reporting limits raised due to high hydrocarbon background.
BH	Reporting limits raised due to high level of non-target analytes.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
BY	Sample received at improper temperature.
BZ	Sample preserved improperly.
CL	Initial analysis within holding time but required dilution.
CQ	Analyte concentration greater than 10 times the blank concentration.
CU	Surrogate concentration diluted to not detectable during analysis.
DF	Reporting limits elevated due to matrix interferences.
DU	Insufficient sample quantity for matrix spike/dup matrix spike.
ET	Sample was extracted past end of recommended max. holding time.
EY	Result exceeds normal dynamic range; reported as a min est.
GR	Internal standard recovery is outside method recovery limit.
IB	CCV recovery above limit; analyte not detected.
IH	Calibrtn. verif. recov. below method CL for this analyte.
IJ	Calibrtn. verif. recov. above method CL for this analyte.
J,DX	J=EPA Flag -Estimated value; DX= Value < lowest standard (MQL), but > than MDL.
LA	Confirmatory analysis was past holding time.
LG,AY	LG= Surrogate recovery below the acceptance limit. AY= Matrix interference suspected.
LH,AY	LH= Surrogate recovery above the acceptance limit. AY= Matrix interference suspected.
LM,AY	LM= MS and/or MSD above acceptance limits. See Blank Spike (LCS). AY= Matrix interference suspected.
LN,AY	LN= MS and/or MSD below acceptance limits. See Blank Spike (LCS). AY= Matrix interference suspected.
LQ	LCS recovery above method control limits.



<u>Qualifier</u>	<u>Definition</u>
LR	LCS recovery below method control limits.
LW	Quantitation of unknown hydrocarbon(s) in sample based on gasoline.
LX	Quantitation of unknown hydrocarbon(s) in sample based on diesel.
MB	Analyte present in the method blank.
PC	Sample taken from VOA vial with air bubble > 6mm diameter.
PI	Primary and confirm results varied by > than 40% RPD.
RB	RPD exceeded method control limit; % recoveries within limits.
SG	A silica gel cleanup procedure was performed. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



BP/ARC Project Name: \_\_\_\_\_

Req Due Date (mm/dd/yy): 1179

BP/ARC Facility No: 472

Lab Work Order Number: \_\_\_\_\_

Rush TAT: Yes \_\_\_ No X

Lab Name: CALSTRAC  
 Lab Address: 7440 LINCOLN Way Garden Grove  
 Lab PM: PICHAUD V.  
 Lab Phone: (714) 995-5494  
 Lab Shipping Acct: 9255  
 Lab Bottle Order No: \_\_\_\_\_  
 Other Info: \_\_\_\_\_

BP/ARC Facility Address: 6415 INT - BLD  
 City, State, ZIP Code: CARLEAD, CA.  
 Lead Regulatory Agency: SMC EX1  
 California Global ID No.: T1000000 417  
 Enfos Proposal No: 00410-0002  
 Accounting Mode: Provision \_\_\_ OOC-BU \_\_\_ OOC-RM X  
 Stage: APPRAISAL Activity: FIELD CHARACTERIZATION

Consultant/Contractor: STRATUS  
 Consultant/Contractor Project No: 6472  
 Address: 3330 Cameron Park Dr #550  
 Consultant/Contractor PM: Jas JOHNSON  
 Phone: (530) 676 6000  
 Email EDD To: CHIEF@STRATUSINC.NET  
 Invoice To: BP/ARC X Contractor \_\_\_\_\_

Lab No.	Sample Description	Date	Time	Matrix				No. Containers / Preservative				Requested Analyses				Report Type & QC Level		
				Soil / Solid	Water / Liquid	Air / Vapor	Total Number of Containers	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	4015B GAO (C <sub>6</sub> -C <sub>10</sub> ) 8015B	4015B DLO (C <sub>12</sub> -C <sub>14</sub> ) 8015B	4015B DLO (C <sub>16</sub> -C <sub>18</sub> ) 8015B	8260B BTEX	Standard <u>X</u>	Full Data Package ___
1	MW-1 6.5'	07/14/09	1055	X			1	X										
2	MW-1 8'		1058	X			1	X										
3	MW-1 9.5'		1100	X			1	X										
4	MW-1 11'		1102	X			1	X										
5	MW-1 12.5'		1105	X			1	X										
6	MW-1 14.5'		1107	X			1	X										
7	MW-2 6.5'		1600	X			1	X										
8	MW-2 8'		1602	X			1	X										
9	MW-2 9.5'		1605	X			1	X										
10	MW-2 11'		1607	X			1	X										

Sampler's Name: CF  
 Sampler's Company: STRATUS  
 Shipment Method: GSO Ship Date: 7/14/09  
 Shipment Tracking No: 106160247

Relinquished By / Affiliation: Chad P. Date: 7/14/09 Time: 1800  
 Accepted By / Affiliation: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Special Instructions: \_\_\_\_\_

THIS LINE - LAB USE ONLY: 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

BP/ARC Project Name: \_\_\_\_\_

Req Due Date (mm/dd/yy): \_\_\_\_\_

1179

Rush TAT: Yes \_\_\_ No

BP/ARC Facility No: 472

Lab Work Order Number: \_\_\_\_\_

Lab Name: <u>CASUERO</u>				BP/ARC Facility Address: <u>6415 INT. BLVD</u>				Consultant/Contractor: <u>STRATIS</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Lab Address: <u>7410 LINCOLN WAY FARMER GREEN</u>				City, State, ZIP Code: <u>OAKLAND CA.</u>				Consultant/Contractor Project No: <u>E 472</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Lab PM: <u>Pickens V.</u>				Lead Regulatory Agency: <u>SMLERH</u>				Address: <u>3300 CAMPBELL BLVD. # 555</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Lab Phone: <u>(714) 845-5444</u>				California Global ID No.: <u>1000000417</u>				Consultant/Contractor PM: <u>Jay Johnson</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Lab Shipping Acct: <u>9255</u>				Enfos Proposal No: <u>00410-0002</u>				Phone: <u>(510) 845-5444</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Lab Bottle Order No: _____				Accounting Mode: Provision ___ OOC-BU ___ OOC-RM <input checked="" type="checkbox"/>				Email EDD To: <u>CLIFF@STRATIS.COM</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Other Info: _____				Stage: <u>AP Permit</u> Activity: <u>Final Remediation</u>				Invoice To: BP/ARC <input checked="" type="checkbox"/> Contractor _____																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
BP/ARC EBM: <u>Paul Surpin</u>				Matrix		No. Containers / Preservative		Requested Analyses				Report Type & QC Level																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Lab No.	Sample Description	Date	Time	Soil / Solid	Water / Liquid	Air / Vapor	Total Number of Containers	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	610 (Cu-Cu) 8015B	610 (Cu-Cu) 8015C	610 (Cu-Cu) 8015D	610 (Cu-Cu) 8015E	610 (Cu-Cu) 8015F	610 (Cu-Cu) 8015G	610 (Cu-Cu) 8015H	610 (Cu-Cu) 8015I	610 (Cu-Cu) 8015J	610 (Cu-Cu) 8015K	610 (Cu-Cu) 8015L	610 (Cu-Cu) 8015M	610 (Cu-Cu) 8015N	610 (Cu-Cu) 8015O	610 (Cu-Cu) 8015P	610 (Cu-Cu) 8015Q	610 (Cu-Cu) 8015R	610 (Cu-Cu) 8015S	610 (Cu-Cu) 8015T	610 (Cu-Cu) 8015U	610 (Cu-Cu) 8015V	610 (Cu-Cu) 8015W	610 (Cu-Cu) 8015X	610 (Cu-Cu) 8015Y	610 (Cu-Cu) 8015Z	610 (Cu-Cu) 8015AA	610 (Cu-Cu) 8015AB	610 (Cu-Cu) 8015AC	610 (Cu-Cu) 8015AD	610 (Cu-Cu) 8015AE	610 (Cu-Cu) 8015AF	610 (Cu-Cu) 8015AG	610 (Cu-Cu) 8015AH	610 (Cu-Cu) 8015AI	610 (Cu-Cu) 8015AJ	610 (Cu-Cu) 8015AK	610 (Cu-Cu) 8015AL	610 (Cu-Cu) 8015AM	610 (Cu-Cu) 8015AN	610 (Cu-Cu) 8015AO	610 (Cu-Cu) 8015AP	610 (Cu-Cu) 8015AQ	610 (Cu-Cu) 8015AR	610 (Cu-Cu) 8015AS	610 (Cu-Cu) 8015AT	610 (Cu-Cu) 8015AU	610 (Cu-Cu) 8015AV	610 (Cu-Cu) 8015AW	610 (Cu-Cu) 8015AX	610 (Cu-Cu) 8015AY	610 (Cu-Cu) 8015AZ	610 (Cu-Cu) 8015BA	610 (Cu-Cu) 8015BB	610 (Cu-Cu) 8015BC	610 (Cu-Cu) 8015BD	610 (Cu-Cu) 8015BE	610 (Cu-Cu) 8015BF	610 (Cu-Cu) 8015BG	610 (Cu-Cu) 8015BH	610 (Cu-Cu) 8015BI	610 (Cu-Cu) 8015BJ	610 (Cu-Cu) 8015BK	610 (Cu-Cu) 8015BL	610 (Cu-Cu) 8015BM	610 (Cu-Cu) 8015BN	610 (Cu-Cu) 8015BO	610 (Cu-Cu) 8015BP	610 (Cu-Cu) 8015BQ	610 (Cu-Cu) 8015BR	610 (Cu-Cu) 8015BS	610 (Cu-Cu) 8015BT	610 (Cu-Cu) 8015BU	610 (Cu-Cu) 8015BV	610 (Cu-Cu) 8015BW	610 (Cu-Cu) 8015BX	610 (Cu-Cu) 8015BY	610 (Cu-Cu) 8015BZ	610 (Cu-Cu) 8015CA	610 (Cu-Cu) 8015CB	610 (Cu-Cu) 8015CC	610 (Cu-Cu) 8015CD	610 (Cu-Cu) 8015CE	610 (Cu-Cu) 8015CF	610 (Cu-Cu) 8015CG	610 (Cu-Cu) 8015CH	610 (Cu-Cu) 8015CI	610 (Cu-Cu) 8015CJ	610 (Cu-Cu) 8015CK	610 (Cu-Cu) 8015CL	610 (Cu-Cu) 8015CM	610 (Cu-Cu) 8015CN	610 (Cu-Cu) 8015CO	610 (Cu-Cu) 8015CP	610 (Cu-Cu) 8015CQ	610 (Cu-Cu) 8015CR	610 (Cu-Cu) 8015CS	610 (Cu-Cu) 8015CT	610 (Cu-Cu) 8015CU	610 (Cu-Cu) 8015CV	610 (Cu-Cu) 8015CW	610 (Cu-Cu) 8015CX	610 (Cu-Cu) 8015CY	610 (Cu-Cu) 8015CZ	610 (Cu-Cu) 8015DA	610 (Cu-Cu) 8015DB	610 (Cu-Cu) 8015DC	610 (Cu-Cu) 8015DD	610 (Cu-Cu) 8015DE	610 (Cu-Cu) 8015DF	610 (Cu-Cu) 8015DG	610 (Cu-Cu) 8015DH	610 (Cu-Cu) 8015DI	610 (Cu-Cu) 8015DJ	610 (Cu-Cu) 8015DK	610 (Cu-Cu) 8015DL	610 (Cu-Cu) 8015DM	610 (Cu-Cu) 8015DN	610 (Cu-Cu) 8015DO	610 (Cu-Cu) 8015DP	610 (Cu-Cu) 8015DQ	610 (Cu-Cu) 8015DR	610 (Cu-Cu) 8015DS	610 (Cu-Cu) 8015DT	610 (Cu-Cu) 8015DU	610 (Cu-Cu) 8015DV	610 (Cu-Cu) 8015DW	610 (Cu-Cu) 8015DX	610 (Cu-Cu) 8015DY	610 (Cu-Cu) 8015DZ	610 (Cu-Cu) 8015EA	610 (Cu-Cu) 8015EB	610 (Cu-Cu) 8015EC	610 (Cu-Cu) 8015ED	610 (Cu-Cu) 8015EE	610 (Cu-Cu) 8015EF	610 (Cu-Cu) 8015EG	610 (Cu-Cu) 8015EH	610 (Cu-Cu) 8015EI	610 (Cu-Cu) 8015EJ	610 (Cu-Cu) 8015EK	610 (Cu-Cu) 8015EL	610 (Cu-Cu) 8015EM	610 (Cu-Cu) 8015EN	610 (Cu-Cu) 8015EO	610 (Cu-Cu) 8015EP	610 (Cu-Cu) 8015EQ	610 (Cu-Cu) 8015ER	610 (Cu-Cu) 8015ES	610 (Cu-Cu) 8015ET	610 (Cu-Cu) 8015EU	610 (Cu-Cu) 8015EV	610 (Cu-Cu) 8015EW	610 (Cu-Cu) 8015EX	610 (Cu-Cu) 8015EY	610 (Cu-Cu) 8015EZ	610 (Cu-Cu) 8015FA	610 (Cu-Cu) 8015FB	610 (Cu-Cu) 8015FC	610 (Cu-Cu) 8015FD	610 (Cu-Cu) 8015FE	610 (Cu-Cu) 8015FF	610 (Cu-Cu) 8015FG	610 (Cu-Cu) 8015FH	610 (Cu-Cu) 8015FI	610 (Cu-Cu) 8015FJ	610 (Cu-Cu) 8015FK	610 (Cu-Cu) 8015FL	610 (Cu-Cu) 8015FM	610 (Cu-Cu) 8015FN	610 (Cu-Cu) 8015FO	610 (Cu-Cu) 8015FP	610 (Cu-Cu) 8015FQ	610 (Cu-Cu) 8015FR	610 (Cu-Cu) 8015FS	610 (Cu-Cu) 8015FT	610 (Cu-Cu) 8015FU	610 (Cu-Cu) 8015FV	610 (Cu-Cu) 8015FW	610 (Cu-Cu) 8015FX	610 (Cu-Cu) 8015FY	610 (Cu-Cu) 8015FZ	610 (Cu-Cu) 8015GA	610 (Cu-Cu) 8015GB	610 (Cu-Cu) 8015GC	610 (Cu-Cu) 8015GD	610 (Cu-Cu) 8015GE	610 (Cu-Cu) 8015GF	610 (Cu-Cu) 8015GG	610 (Cu-Cu) 8015GH	610 (Cu-Cu) 8015GI	610 (Cu-Cu) 8015GJ	610 (Cu-Cu) 8015GK	610 (Cu-Cu) 8015GL	610 (Cu-Cu) 8015GM	610 (Cu-Cu) 8015GN	610 (Cu-Cu) 8015GO	610 (Cu-Cu) 8015GP	610 (Cu-Cu) 8015GQ	610 (Cu-Cu) 8015GR	610 (Cu-Cu) 8015GS	610 (Cu-Cu) 8015GT	610 (Cu-Cu) 8015GU	610 (Cu-Cu) 8015GV	610 (Cu-Cu) 8015GW	610 (Cu-Cu) 8015GX	610 (Cu-Cu) 8015GY	610 (Cu-Cu) 8015GZ	610 (Cu-Cu) 8015HA	610 (Cu-Cu) 8015HB	610 (Cu-Cu) 8015HC	610 (Cu-Cu) 8015HD	610 (Cu-Cu) 8015HE	610 (Cu-Cu) 8015HF	610 (Cu-Cu) 8015HG	610 (Cu-Cu) 8015HH	610 (Cu-Cu) 8015HI	610 (Cu-Cu) 8015HJ	610 (Cu-Cu) 8015HK	610 (Cu-Cu) 8015HL	610 (Cu-Cu) 8015HM	610 (Cu-Cu) 8015HN	610 (Cu-Cu) 8015HO	610 (Cu-Cu) 8015HP	610 (Cu-Cu) 8015HQ	610 (Cu-Cu) 8015HR	610 (Cu-Cu) 8015HS	610 (Cu-Cu) 8015HT	610 (Cu-Cu) 8015HU	610 (Cu-Cu) 8015HV	610 (Cu-Cu) 8015HW	610 (Cu-Cu) 8015HX	610 (Cu-Cu) 8015HY	610 (Cu-Cu) 8015HZ	610 (Cu-Cu) 8015IA	610 (Cu-Cu) 8015IB	610 (Cu-Cu) 8015IC	610 (Cu-Cu) 8015ID	610 (Cu-Cu) 8015IE	610 (Cu-Cu) 8015IF	610 (Cu-Cu) 8015IG	610 (Cu-Cu) 8015IH	610 (Cu-Cu) 8015II	610 (Cu-Cu) 8015IJ	610 (Cu-Cu) 8015IK	610 (Cu-Cu) 8015IL	610 (Cu-Cu) 8015IM	610 (Cu-Cu) 8015IN	610 (Cu-Cu) 8015IO	610 (Cu-Cu) 8015IP	610 (Cu-Cu) 8015IQ	610 (Cu-Cu) 8015IR	610 (Cu-Cu) 8015IS	610 (Cu-Cu) 8015IT	610 (Cu-Cu) 8015IU	610 (Cu-Cu) 8015IV	610 (Cu-Cu) 8015IW	610 (Cu-Cu) 8015IX	610 (Cu-Cu) 8015IY	610 (Cu-Cu) 8015IZ	610 (Cu-Cu) 8015JA	610 (Cu-Cu) 8015JB	610 (Cu-Cu) 8015JC	610 (Cu-Cu) 8015JD	610 (Cu-Cu) 8015JE	610 (Cu-Cu) 8015JF	610 (Cu-Cu) 8015JG	610 (Cu-Cu) 8015JH	610 (Cu-Cu) 8015JI	610 (Cu-Cu) 8015JJ	610 (Cu-Cu) 8015JK	610 (Cu-Cu) 8015JL	610 (Cu-Cu) 8015JM	610 (Cu-Cu) 8015JN	610 (Cu-Cu) 8015JO	610 (Cu-Cu) 8015JP	610 (Cu-Cu) 8015JQ	610 (Cu-Cu) 8015JR	610 (Cu-Cu) 8015JS	610 (Cu-Cu) 8015JT	610 (Cu-Cu) 8015JU	610 (Cu-Cu) 8015JV	610 (Cu-Cu) 8015JW	610 (Cu-Cu) 8015JX	610 (Cu-Cu) 8015JY	610 (Cu-Cu) 8015JZ	610 (Cu-Cu) 8015KA	610 (Cu-Cu) 8015KB	610 (Cu-Cu) 8015KC	610 (Cu-Cu) 8015KD	610 (Cu-Cu) 8015KE	610 (Cu-Cu) 8015KF	610 (Cu-Cu) 8015KG	610 (Cu-Cu) 8015KH	610 (Cu-Cu) 8015KI	610 (Cu-Cu) 8015KJ	610 (Cu-Cu) 8015KL	610 (Cu-Cu) 8015KM	610 (Cu-Cu) 8015KN	610 (Cu-Cu) 8015KO	610 (Cu-Cu) 8015KP	610 (Cu-Cu) 8015KQ	610 (Cu-Cu) 8015KR	610 (Cu-Cu) 8015KS	610 (Cu-Cu) 8015KT	610 (Cu-Cu) 8015KU	610 (Cu-Cu) 8015KV	610 (Cu-Cu) 8015KW	610 (Cu-Cu) 8015KX	610 (Cu-Cu) 8015KY	610 (Cu-Cu) 8015KZ	610 (Cu-Cu) 8015LA	610 (Cu-Cu) 8015LB	610 (Cu-Cu) 8015LC	610 (Cu-Cu) 8015LD	610 (Cu-Cu) 8015LE	610 (Cu-Cu) 8015LF	610 (Cu-Cu) 8015LG	610 (Cu-Cu) 8015LH	610 (Cu-Cu) 8015LI	610 (Cu-Cu) 8015LJ	610 (Cu-Cu) 8015LK	610 (Cu-Cu) 8015LL	610 (Cu-Cu) 8015LM	610 (Cu-Cu) 8015LN	610 (Cu-Cu) 8015LO	610 (Cu-Cu) 8015LP	610 (Cu-Cu) 8015LQ	610 (Cu-Cu) 8015LR	610 (Cu-Cu) 8015LS	610 (Cu-Cu) 8015LT	610 (Cu-Cu) 8015LU	610 (Cu-Cu) 8015LV	610 (Cu-Cu) 8015LW	610 (Cu-Cu) 8015LX	610 (Cu-Cu) 8015LY	610 (Cu-Cu) 8015LZ	610 (Cu-Cu) 8015MA	610 (Cu-Cu) 8015MB	610 (Cu-Cu) 8015MC	610 (Cu-Cu) 8015MD	610 (Cu-Cu) 8015ME	610 (Cu-Cu) 8015MF	610 (Cu-Cu) 8015MG	610 (Cu-Cu) 8015MH	610 (Cu-Cu) 8015MI	610 (Cu-Cu) 8015MJ	610 (Cu-Cu) 8015MK	610 (Cu-Cu) 8015ML	610 (Cu-Cu) 8015MN	610 (Cu-Cu) 8015MO	610 (Cu-Cu) 8015MP	610 (Cu-Cu) 8015MQ	610 (Cu-Cu) 8015MR	610 (Cu-Cu) 8015MS	610 (Cu-Cu) 8015MT	610 (Cu-Cu) 8015MU	610 (Cu-Cu) 8015MV	610 (Cu-Cu) 8015MW	610 (Cu-Cu) 8015MX	610 (Cu-Cu) 8015MY	610 (Cu-Cu) 8015MZ	610 (Cu-Cu) 8015NA	610 (Cu-Cu) 8015NB	610 (Cu-Cu) 8015NC	610 (Cu-Cu) 8015ND	610 (Cu-Cu) 8015NE	610 (Cu-Cu) 8015NF	610 (Cu-Cu) 8015NG	610 (Cu-Cu) 8015NH	610 (Cu-Cu) 8015NI	610 (Cu-Cu) 8015NJ	610 (Cu-Cu) 8015NK	610 (Cu-Cu) 8015NL	610 (Cu-Cu) 8015NM	610 (Cu-Cu) 8015NO	610 (Cu-Cu) 8015NP	610 (Cu-Cu) 8015NQ	610 (Cu-Cu) 8015NR	610 (Cu-Cu) 8015NS	610 (Cu-Cu) 8015NT	610 (Cu-Cu) 8015NU	610 (Cu-Cu) 8015NV	610 (Cu-Cu) 8015NW	610 (Cu-Cu) 8015NX	610 (Cu-Cu) 8015NY	610 (Cu-Cu) 8015NZ	610 (Cu-Cu) 8015OA	610 (Cu-Cu) 8015OB	610 (Cu-Cu) 8015OC	610 (Cu-Cu) 8015OD	610 (Cu-Cu) 8015OE	610 (Cu-Cu) 8015OF	610 (Cu-Cu) 8015OG	610 (Cu-Cu) 8015OH	610 (Cu-Cu) 8015OI	610 (Cu-Cu) 8015OJ	610 (Cu-Cu) 8015OK	610 (Cu-Cu) 8015OL	610 (Cu-Cu) 8015OM	610 (Cu-Cu) 8015ON	610 (Cu-Cu) 8015OO	610 (Cu-Cu) 8015OP	610 (Cu-Cu) 8015OQ	610 (Cu-Cu) 8015OR	610 (Cu-Cu) 8015OS	610 (Cu-Cu) 8015OT	610 (Cu-Cu) 8015OU	610 (Cu-Cu) 8015OV	610 (Cu-Cu) 8015OW	610 (Cu-Cu) 8015OX	610 (Cu-Cu) 8015OY	610 (Cu-Cu) 8015OZ	610 (Cu-Cu) 8015PA	610 (Cu-Cu) 8015PB	610 (Cu-Cu) 8015PC	610 (Cu-Cu) 8015PD	610 (Cu-Cu) 8015PE	610 (Cu-Cu) 8015PF	610 (Cu-Cu) 8015PG	610 (Cu-Cu) 8015PH	610 (Cu-Cu) 8015PI	610 (Cu-Cu) 8015PJ	610 (Cu-Cu) 8015PK	610 (Cu-Cu) 8015PL	610 (Cu-Cu) 8015PM	610 (Cu-Cu) 8015PN	610 (Cu-Cu) 8015PO	610 (Cu-Cu) 8015PP	610 (Cu-Cu) 8015PQ	610 (Cu-Cu) 8015PR	610 (Cu-Cu) 8015PS	610 (Cu-Cu) 8015PT	610 (Cu-Cu) 8015PU	610 (Cu-Cu) 8015PV	610 (Cu-Cu) 8015PW	610 (Cu-Cu) 8015PX	610 (Cu-Cu) 8015PY	610 (Cu-Cu) 8015PZ	610 (Cu-Cu) 8015QA	610 (Cu-Cu) 8015QB	610 (Cu-Cu) 8015QC	610 (Cu-Cu) 8015QD	610 (Cu-Cu) 8015QE	610 (Cu-Cu) 8015QF	610 (Cu-Cu) 8015QG	610 (Cu-Cu) 8015QH	610 (Cu-Cu) 8015QI	610 (Cu-Cu) 8015QJ	610 (Cu-Cu) 8015QK	610 (Cu-Cu) 8015QL	610 (Cu-Cu) 8015QM	610 (Cu-Cu) 8015QN	610 (Cu-Cu) 8015QO	610 (Cu-Cu) 8015QP	610 (Cu-Cu) 8015QQ	610 (Cu-Cu) 8015QR	610 (Cu-Cu) 8015QS	610 (Cu-Cu) 8015QT	610 (Cu-Cu) 8015QU	610 (Cu-Cu) 8015QV	610 (Cu-Cu) 8015QW	610 (Cu-Cu) 8015QX	610 (Cu-Cu) 8015QY	610 (Cu-Cu) 8015QZ	610 (Cu-Cu) 8015RA	610 (Cu-Cu) 8015RB	610 (Cu-Cu) 8015RC	610 (Cu-Cu) 8015RD	610 (Cu-Cu) 8015RE	610 (Cu-Cu) 8015RF	610 (Cu-Cu) 8015RG	610 (Cu-Cu) 8015RH	610 (Cu-Cu) 8015RI	610 (Cu-Cu) 8015RJ	610 (Cu-Cu) 8015RK	610 (Cu-Cu) 8015RL	610 (Cu-Cu) 8015RM	610 (Cu-Cu) 8015RN	610 (Cu-Cu) 8015RO	610 (Cu-Cu) 8015RP	610 (Cu-Cu) 8015RQ	610 (Cu-Cu) 8015RR	610 (Cu-Cu) 8015RS	610 (Cu-Cu) 8015RT	610 (Cu-Cu) 8015RU	610 (Cu-Cu) 8015RV	610 (Cu-Cu) 8015RW	610 (Cu-Cu) 8015RX	610 (Cu-Cu) 8015RY	610 (Cu-Cu) 8015RZ	610 (Cu-Cu) 8015SA	610 (Cu-Cu) 8015SB	610 (Cu-Cu) 8015SC	610 (Cu-Cu) 8015SD	610 (Cu-Cu) 8015SE	610 (Cu-Cu) 8015SF	610 (Cu-Cu) 8015SG	610 (Cu-Cu) 8015SH	610 (Cu-Cu) 8015SI	610 (Cu-Cu) 8015SJ	610 (Cu-Cu) 8015SK	610 (Cu-Cu) 8015SL	610 (Cu-Cu) 8015SM	610 (Cu-Cu) 8015SN	610 (Cu-Cu) 8015SO	610 (Cu-Cu) 8015SP	610 (Cu-Cu) 8015SQ	610 (Cu-Cu) 8015SR	610 (Cu-Cu) 8015SS	610 (Cu-Cu) 8015ST	610 (Cu-Cu) 8015SU	610 (Cu-Cu) 8015SV	610 (Cu-Cu) 8015SW	610 (Cu-Cu) 8015SX	610 (Cu-Cu) 8015SY	610 (Cu-Cu) 8015SZ	610 (Cu-Cu) 8015TA	610 (Cu-Cu) 8015TB	610 (Cu-Cu) 8015TC	610 (Cu-Cu) 8015TD	610 (Cu-Cu) 8015TE	610 (Cu-Cu) 8015TF	610 (Cu-Cu) 8015TG	610 (Cu-Cu) 8015TH	610 (Cu-Cu) 8015TI	610 (Cu-Cu) 8015TJ	610 (Cu-Cu) 8015TK	610 (Cu-Cu) 8015TL	610 (Cu-Cu) 8015TM	610 (Cu-Cu) 8015TN	610 (Cu-Cu) 8015TO	610 (Cu-Cu) 8015TP	610 (Cu-Cu) 8015TQ	610 (Cu-Cu) 8015TR	610 (Cu-Cu) 8015TS	610 (Cu-Cu) 8015TT	610 (Cu-Cu) 8015TU	610 (Cu-Cu) 8015TV	610 (Cu-Cu) 8015TW	610 (Cu-Cu) 8015TX	610 (Cu-Cu) 8015TY	610 (Cu-Cu) 8015TZ	610 (Cu-Cu) 8015UA	610 (Cu-Cu) 8015UB	610 (Cu-Cu) 8015UC	610 (Cu-Cu) 8015UD	610 (Cu-Cu) 8015UE	610 (Cu-Cu



**APPENDIX C**

**GEOTRACKER UPLOAD CONFIRMATION RECEIPTS**



STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

UPLOADING A GEO\_BORE FILE

**SUCCESS**

Your GEO\_BORE file has been successfully submitted!

<b><u>Submittal Type:</u></b>	<b>GEO_BORE</b>
<b><u>Facility Global ID:</u></b>	<b>T10000000417</b>
<b><u>Field Point:</u></b>	<b>MW-1</b>
<b><u>Facility Name:</u></b>	<b>ARCO # / PLUCKY LIQUORS</b>
<b><u>File Name:</u></b>	<b>GEO_BORE MW-1.pdf</b>
<b><u>Username:</u></b>	<b>Broadbent &amp; Associates, Inc.</b>
<b><u>Username:</u></b>	<b>BROADBENT-C</b>
<b><u>IP Address:</u></b>	<b>67.118.40.90</b>
<b><u>Submittal Date/Time:</u></b>	<b>8/28/2009 8:01:21 AM</b>
<b><u>Confirmation Number:</u></b>	<b>5284066617</b>

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UPLOADING A GEO\_BORE FILE

**SUCCESS**

Your GEO\_BORE file has been successfully submitted!

<b><u>Submittal Type:</u></b>	<b>GEO_BORE</b>
<b><u>Facility Global ID:</u></b>	<b>T10000000417</b>
<b><u>Field Point:</u></b>	<b>MW-2</b>
<b><u>Facility Name:</u></b>	<b>ARCO # / PLUCKY LIQUORS</b>
<b><u>File Name:</u></b>	<b>GEO_BORE MW-2.pdf</b>
<b><u>Username:</u></b>	<b>Broadbent &amp; Associates, Inc.</b>
<b><u>Username:</u></b>	<b>BROADBENT-C</b>
<b><u>IP Address:</u></b>	<b>67.118.40.90</b>
<b><u>Submittal Date/Time:</u></b>	<b>8/28/2009 8:01:34 AM</b>
<b><u>Confirmation Number:</u></b>	<b>3809073209</b>

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<b><u>Submittal Type:</u></b>	<b>GEO_BORE</b>
<b><u>Facility Global ID:</u></b>	<b>T10000000417</b>
<b><u>Field Point:</u></b>	<b>MW-3</b>
<b><u>Facility Name:</u></b>	<b>ARCO # / PLUCKY LIQUORS</b>
<b><u>File Name:</u></b>	<b>GEO_BORE MW-3.pdf</b>
<b><u>Username:</u></b>	<b>Broadbent &amp; Associates, Inc.</b>
<b><u>Username:</u></b>	<b>BROADBENT-C</b>
<b><u>IP Address:</u></b>	<b>67.118.40.90</b>
<b><u>Submittal Date/Time:</u></b>	<b>8/28/2009 8:01:47 AM</b>
<b><u>Confirmation Number:</u></b>	<b>7936303555</b>

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<b><u>Submittal Type:</u></b>	<b>GEO_MAP</b>
<b><u>Facility Global ID:</u></b>	<b>T10000000417</b>
<b><u>Facility Name:</u></b>	<b>ARCO # / PLUCKY LIQUORS</b>
<b><u>File Name:</u></b>	<b>GEO_MAP.pdf</b>
<b><u>Username:</u></b>	<b>Broadbent &amp; Associates, Inc.</b>
<b><u>Username:</u></b>	<b>BROADBENT-C</b>
<b><u>IP Address:</u></b>	<b>67.118.40.90</b>
<b><u>Submittal Date/Time:</u></b>	<b>8/28/2009 8:02:06 AM</b>
<b><u>Confirmation Number:</u></b>	<b>1155214607</b>

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UPLOADING A GEO\_XY FILE

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<b><u>Submittal Type:</u></b>	<b>GEO_XY</b>
<b><u>Submittal Title:</u></b>	<b>GEO_XY MW-1 TO 3</b>
<b><u>Facility Global ID:</u></b>	<b>T10000000417</b>
<b><u>Facility Name:</u></b>	<b>ARCO # / PLUCKY LIQUORS</b>
<b><u>File Name:</u></b>	<b>GEO_XY.zip</b>
<b><u>Organization Name:</u></b>	<b>Broadbent &amp; Associates, Inc.</b>
<b><u>Username:</u></b>	<b>BROADBENT-C</b>
<b><u>IP Address:</u></b>	<b>67.118.40.90</b>
<b><u>Submittal Date/Time:</u></b>	<b>8/28/2009 7:53:53 AM</b>
<b><u>Confirmation Number:</u></b>	<b>8412344694</b>

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UPLOADING A GEO\_Z FILE

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<b><u>Submittal Type:</u></b>	<b>GEO_Z</b>
<b><u>Submittal Title:</u></b>	<b>GEO_Z MW-1 TO 3</b>
<b><u>Facility Global ID:</u></b>	<b>T10000000417</b>
<b><u>Facility Name:</u></b>	<b>ARCO # / PLUCKY LIQUORS</b>
<b><u>File Name:</u></b>	<b>GEO_Z.zip</b>
<b><u>Organization Name:</u></b>	<b>Broadbent &amp; Associates, Inc.</b>
<b><u>Username:</u></b>	<b>BROADBENT-C</b>
<b><u>IP Address:</u></b>	<b>67.118.40.90</b>
<b><u>Submittal Date/Time:</u></b>	<b>8/28/2009 7:56:51 AM</b>
<b><u>Confirmation Number:</u></b>	<b>2130113899</b>

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<b><u>Submittal Type:</u></b>	<b>EDF - Soil and Water Investigation Report</b>
<b><u>Submittal Title:</u></b>	<b>Drilling Activities 0709</b>
<b><u>Facility Global ID:</u></b>	<b>T10000000417</b>
<b><u>Facility Name:</u></b>	<b>ARCO # / PLUCKY LIQUORS</b>
<b><u>File Name:</u></b>	<b>09071179 fix.zip</b>
<b><u>Organization Name:</u></b>	<b>Broadbent &amp; Associates, Inc.</b>
<b><u>Username:</u></b>	<b>BROADBENT-C</b>
<b><u>IP Address:</u></b>	<b>67.118.40.90</b>
<b><u>Submittal Date/Time:</u></b>	<b>8/28/2009 8:14:10 AM</b>
<b><u>Confirmation Number:</u></b>	<b>2462387561</b>

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