RECEIVED

By Alameda County Environmental Health at 2:36 pm, Sep 17, 2013

Mr. Jerry Wickham Alameda County Environmental Health Department 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: B&C Gas Mini Mart, 2008 First Street, Livermore, California (ACEHD Case No. RO0000278)

Dear Mr. Wickham:

Stratus Environmental, Inc. (Stratus) has recently prepared a document titled Site. Investigation Report on my behalf. The report was prepared in regards to Alameda County Fuel Leak Case No. RO0000278, located at 2008 First Street, Livermore, California.

I have reviewed a copy of this report, sent to me by representatives of Stratus, and "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."

Sincerely,

9 111 13

Balaji Angle

B&C Gas Mini Mart



September 17, 2013 Project No. 2146-2008-01

Mr. Jerry Wickham Alameda County Environmental Health Department 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

Re: Site Investigation Report

B&C Gas Mini Mart 2008 First Street Livermore, California

Dear Mr. Wickham:

On behalf of Mr. Balaji Angle, Stratus Environmental, Inc. (Stratus) has prepared this Site Investigation Report for the B&C Gas Mini Mart, located at 2008 First Street, Livermore, California (the Site, see Figures 1 and 2). Petroleum hydrocarbon impact to the soil and groundwater has previously been documented at the subject property, and Alameda County Environmental Health Department (ACEHD) currently oversees an environmental case for the site. On June 24, 2013, ACEHD personnel issued a letter indicating that the site's environmental case could potentially be closed following adoption of the State Water Resources Control Board's 'Low Threat Closure Policy' (LTCP). Prior to closure, ACEHD requested an evaluation of site conditions against the LTCP, and indicated that a minimum of two confirmation soil borings were necessary to evaluate current concentrations of petroleum products in soil in areas where the highest concentrations of fuel contaminants were historically detected.

On July 25, 2013, Stratus submitted a document titled Work Plan for Limited Subsurface Investigation and Low Threat Closure Policy Site Evaluation, on behalf of Mr. Angle. The document included a scope of work to advance two directional soil borings beneath the site's underground storage tanks (USTs) for collection of soil samples in this area. After reviewing the work plan, ACEHD issued a letter, dated July 31, 2013, approving the proposed scope of work. This report presents a description of activities completed in conjunction with boring advancement, and presents findings associated with performance of this work.

SCOPE OF WORK

The objective of the proposed scope of work was to evaluate current concentrations of petroleum hydrocarbon contaminants beneath the southern end of the former (and current) UST complex, where the highest levels of petroleum hydrocarbons were historically detected in soil. To accomplish these objectives, Stratus implemented the following work activities:

- Advanced two soil borings (AB-1 and AB-2) within 44-foot length boreholes at an angle of approximately 15-degrees
- Collected soil samples during the advancement of borings AB-1 and AB-2 for lithologic evaluation and chemical analysis.

Prior to implementation of field activities, a drilling permit was obtained from Zone 7 Water Agency. Drilling locations were marked 48 hours prior to fieldwork. Underground Service Alert, ACEHD, Mr. Angle, and Zone 7 Water Agency were notified 48 hours prior to beginning work activities. A description of field practices and procedures utilized by Stratus and drilling contractor personnel during boring advancement and soil sample collection are described in Appendix A. All work was conducted under the direct supervision of a State of California Professional Geologist. A copy of the drilling permit is included in Appendix B.

Field Activities

Soil Borings

A Stratus geologist was onsite to oversee Penecore Drilling, Inc. (C-57 #906899) complete the drilling activities on August 15, 2013. Each soil boring (AB-1 and AB-2) was advanced using a limited access drill rig equipped with a dual-walled soil coring system (approximately 2.5-inches in diameter). As stated earlier, both borings were advanced at a 15-degree angle in order to allow for soil sample collection beneath the former (and current) UST complex. Soil was retained from the subsurface in acetate liners situated inside of the sampling core barrel. Soils recovered in the acetate liners were classified onsite using the Unified Soil Classification System. After logging the soils, select sections of the soil core were lined with Teflon™ sheets, capped, and sealed for analytical testing. Each sample was labeled, placed in a resealable plastic bag, and stored in an ice-chilled cooler. Strict chain-of-custody procedures were followed from the time the samples were collected until the time the samples were relinquished to the laboratory. Boring logs detailing soil lithologies encountered during this investigation are presented in Appendix B. Soil boring logs have also been uploaded to the State of California's GeoTracker database, and documentation of these uploads (GeoBore) are provided in Appendix D.

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Additional soil from select intervals was placed and sealed in plastic bags to allow the accumulation of volatile organic compound (VOC) vapors within the airspace in the bags. A portable photoionization detector (PID) was used to measure VOC concentrations from each sample in parts per million by volume (ppmv). PID results are included on the boring logs presented in Appendix B. PID concentrations and soil types were evaluated prior to submitting soil samples for chemical analysis.

Analytical Methods

Soil samples were forwarded to Alpha Analytical, Inc., a California state-certified laboratory (ELAP #2019), for chemical analysis under strict chain-of-custody procedures. The soil samples were analyzed for gasoline range organics (GRO) using EPA Method SW8015B/SW8260B, and for benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds), methyl tertiary butyl ether (MTBE), tertiary butyl alcohol (TBA), and naphthalene using EPA Method SW8260B. The soil samples collected above approximately 10 feet below ground surface (bgs) were additionally analyzed for polynuclear aromatic hydrocarbons (PAH's) using EPA Method SW8270C. Soil analytical results are summarized on Table 1, and certified analytical reports and chain-of-custody documentation are provided in Appendix C. The certified analytical reports prepared by Alpha Analytical have been uploaded to the GeoTracker database (see Appendix D for documentation). Table 1 also includes sample nomenclature assigned in the field, and the actual depth of each sample, calculated based on the angle of boring advancement.

Findings

Soil Analytical Results

At boring AB-1, the highest concentrations of petroleum hydrocarbons were detected in soil samples between approximately 24 and 39 feet bgs, and at boring AB-2, the highest concentrations of petroleum hydrocarbons were detected in soil samples collected between approximately 29 and 39 feet bgs. GRO and benzene were reported at maximum concentrations of 2,600 mg/Kg and 16 mg/Kg, respectively, at boring AB-1 (sample AB-1-40), and 560 mg/Kg and 1.6 mg/Kg, respectively, at boring AB-2 (sample AB-2-35 for GRO and sample AB-2-40 for benzene). Fuel contaminant levels appear to decline appreciably in the UST area below approximately 40 feet bgs; at boring AB-1, GRO levels decline from 2,600 mg/Kg at 39 feet bgs to 8.3 mg/Kg at 43 feet bgs. MTBE was reported at maximum concentrations of 2.0 mg/Kg at boring AB-1 (34 feet bgs) and 0.43 mg/Kg at boring AB-2 (39 feet bgs). Naphthalene was detected in most soil samples collected below 24 feet bgs, with naphthalene concentrations ranging from 13 mg/Kg to 35 mg/Kg at boring AB-1 and from 0.36 mg/Kg to 7.8 mg/Kg at

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boring AB-2. Benzene, ethylbenzene, naphthalene and PAH's were not detected in any soil samples collected above 10 feet bgs.

Appendix E provides a figure and table illustrating soil analytical results and sampling locations from beneath the former UST complex in 1996. In the area near boring AB-1, GRO and benzene were detected at concentrations of 8,500 mg/Kg and 61 mg/Kg, respectively, at 14 feet bgs, and near boring AB-2, GRO and benzene were detected at concentrations of 7,500 mg/Kg and 33 mg/Kg, respectively, in a 14-foot depth sample. Contaminant levels in all of the samples collected during the current phase of work are considerably lower than concentrations observed at 14 feet bgs in 1996.

DISCUSSION

In our opinion, none of the data collected during this phase of investigation would prohibit closure of the site's environmental case under the LTCP. Benzene, ethylbenzene, naphthalene, and PAH concentrations in soil samples collected from borings AB-1 and AB-2 above 10 feet bgs meet the criteria for direct contact and outdoor air exposure specified in the LTCP. All of the ethylbenzene and naphthalene concentrations detected during this phase of investigation (up to 44 feet bgs) meet the commercial property outdoor air exposure property levels mentioned in the LTCP (although the LTCP is only concerned with soil above 10 feet bgs), and benzene concentrations detected in only two samples during this phase of investigation (deeper than 10 feet bgs) exceed the outdoor air exposure levels mentioned in the LTCP. Laterally, petroleum hydrocarbon concentrations in soil decline appreciably with distance from the USTs, as evidenced by recent soil analytical data collected during drilling of well borings SVE-2 and SVE-4A/B, and residual petroleum hydrocarbon impact documented beneath the USTs should not inhibit environmental case closure under the LTCP criteria. As previously established, the area surrounding the site receives water from a municipal source and the groundwater contaminant plume in the site vicinity appears stable and shows decline in contaminant concentration levels.

Pending a review of this document by ACEHD personnel, and the agency's decision regarding the case closure recommendation presented in this document, Stratus will contact ACEHD regarding the future course of action for the site's environmental case. Again, we feel that the site can be closed under the LTCP in its current condition and recommend proceeding with destruction of the site's remediation and groundwater monitoring wells to allow for final closeout of the environmental case on the subject property.

LIMITATIONS

This report was prepared in general accordance with accepted standards of care that existed at the time this work was performed. No other warranty, expressed or implied, is made. Conclusions and recommendations are based on field observations and data obtained from this work and previous investigations. It should be recognized that definition and evaluation of geologic conditions is a difficult and somewhat inexact science. Judgments leading to conclusions and recommendations are generally made with an incomplete knowledge of the subsurface conditions present. More extensive studies may be performed to reduce uncertainties. This report is solely for the use and information of our client unless otherwise noted.

If you have any questions or comments concerning this report, please contact Scott Bittinger at (530) 676-2062.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Scott G. Bittinger, P.G.

Project Manager

Gowri S. Kowtha, P.E. Principal Engineer

Attachments:

Table 1 Soil Analytical Results Figure 1 Site Location Map

Figure 2 Site Plan

Appendix A Field Practices and Procedures

Appendix B Drilling Permit and Soil Boring Logs

Appendix C Certified Analytical Reports and Chain-of-Custody Records

Appendix D Geotracker Data Upload Confirmation Sheets

Scott G. Bittinger

No. 7477

Appendix E July 1996 Compliance Soil Sample Results and Map

Mr. Balaji Angle, B&C Gas Mini Mart

TABLE 1 SOIL ANALYTICAL RESULTS

B&C Gas Mini Mart

2008 First Street, Livermore, California

Sample ID	Borehole Length (feet)	Sample Depth (feet bgs)	Date Collected	GRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl- benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	TBA (mg/Kg)	Naphthalene (mg/Kg)	PAH's (mg/Kg)
Boring AB-1									-			
AB-1-5	5	4.8	08/15/13	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.5	<0.04	ND
AB-1-10	10	9.6	08/15/13	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	0.031	< 0.5	<0.04	ND
AB-1-25	25	24.1	08/15/13	2,300	<2.5*	3.8	31	276	<2.5*	<250*	21	NA
AB-1-30	30	29	08/15/13	2,000	1.3	71	48	283	<1.3*	<130*	13	NA
AB-1-35	35	33.8	08/15/13	1,400	12	29	30	164	2.0	<50*	30	NA
AB-1-40	40	38.6	08/15/13	2,600	16	3.2	53	270	1.4	<80*	35	NA
AB-1-44	44	42.5	08/15/13	8.3	0.009	< 0.005	0.056	0.087	0.0054	<0.5	< 0.04	NA
Boring AB-2												
AB-2-5	5	4.8	08/15/13	<1.0	< 0.005	< 0.005	< 0.005	0.0089	< 0.005	< 0.5	<0.04	ND
AB-2-10	10	9.6	08/15/13	<1.0	< 0.005	0.0092	< 0.005	0.0076	< 0.005	< 0.5	<0.04	ND
AB-2-25	25	24.1	08/15/13	1.2	0.0092	0.079	0.014	0.102	0.0059	< 0.5	< 0.04	NA
AB-2-30	30	29	08/15/13	270	0.13	<0.1*	4.0	27.1	0.14	<10*	5. 7	NA
AB-2-35	35	33.8	08/15/13	560	1.2	<0.2*	13	51.53	0.3	<20*	7.8	NA
AB-2-40	40	38.6	08/15/13	200	1.6	1.2	4.0	23.4	0.43	<10*	3.2	NA
AB-2-44	44	42.5	08/15/13	54	<0.01*	<0.01*	0.066	0.172	<0.01*	<1.0*	0.36	NA

TABLE 1 SOIL ANALYTICAL RESULTS

B&C Gas Mini Mart

2008 First Street, Livermore, California

Sample ID	Borehole Length (feet)	Sample Depth (feet bgs)	Date Collected	GRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl- benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	TBA (mg/Kg)	Naphthalene (mg/Kg)	PAH's (mg/Kg)
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Explanation

Note: Borehole advanced at an angle of approximately 15 degrees from vertical

GRO = Gasoline range organics / total petroleum hydrocarbons as gasoline

BTEX = Benzene, toluene, ethylbenzene, and xylenes

MTBE = Methyl tertiary butyl ether

TBA = Tertiary buyl alcohol

PAH's = Polynuclear aromatic hydrocarbons

bgs = below ground surface

mg/Kg = milligrams per kilogram

* = Reporting limits increased due to high concentrations of target analytes

ND = No PAH's were detected in samples

NA = No chemical analyses for PAH's were performed

Analytical Laboratory

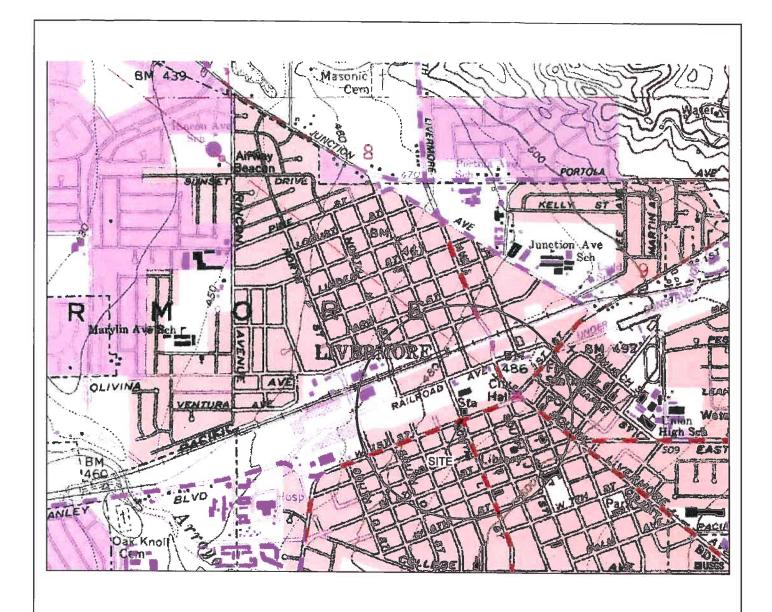
Alpha Analytical, Inc. (ELAP #2019)

Analytical Methods

GRO analyzed using EPA Method SW8015B/SW8260B

BTEX, MTBE, TBA, and naphthalene analyzed using EPA Method SW8260B

PAH's analyzed using EPA Method SW8270C



GENERAL NOTES: BASE MAP FROM U.S.G.S. LIVERMORE, CA. 7.5 MINUTE TOPOGRAPHIC PHOTOREVISED 1999





APPROXIMATE SCALE

STRATUS ENVIRONMENTAL, INC.

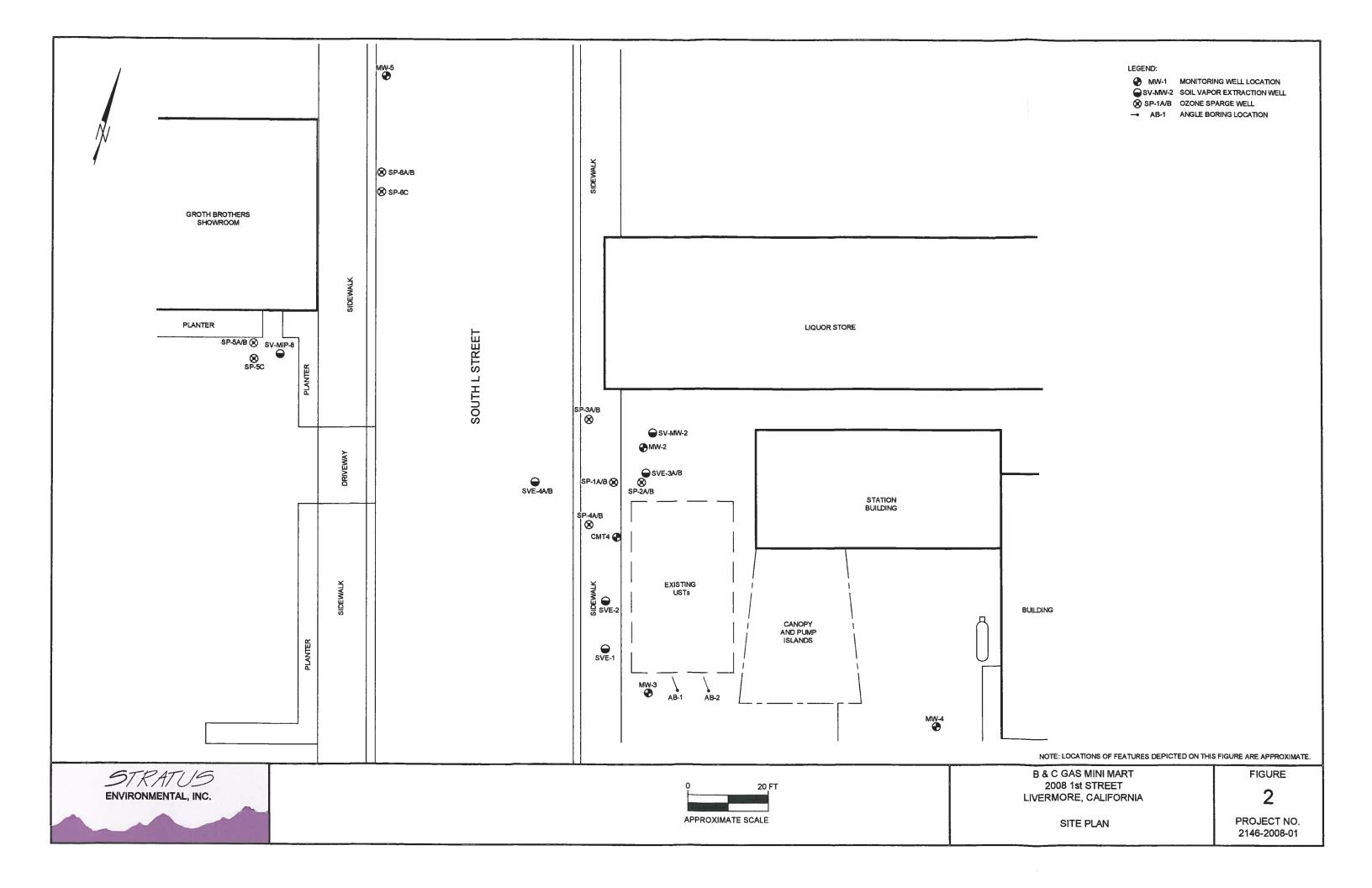
B & C GAS MINI MART 2008 FIRST STREET LIVERMORE, CALIFORNIA

SITE LOCATION MAP

FIGURE

1

PROJECT NO. 2146-2008-01



APPENDIX A FIELD PRACTICES AND PROCEDURES

FIELD PRACTICES AND PROCEDURES

General procedures used by Stratus in site assessments for drilling exploratory borings, collecting samples, and installing monitoring wells are described herein. These general procedures are used to provide consistent and reproducible results; however, some procedure may be modified based on site conditions. A California state-registered geologist supervises the following procedures.

PRE-FIELD WORK ACTIVITIES

Health and Safety Plan

Field work performed by Stratus at the site is conducted according to guidelines established in a Site Health and Safety Plan (SHSP). The SHSP is a document which describes the hazards that may be encountered in the field and specifies protective equipment, work procedures, and emergency information. A copy of the SHSP is at the site and available for reference by appropriate parties during work at the site.

Locating Underground Utilities

Prior to commencement of any work that is to be below surface grade, the location of the excavation, boring, etc., is marked with white paint as required by law. An underground locating service such as Underground Service Alert (USA) is contacted. The locating company contacts the owners of the various utilities in the vicinity of the site to mark the locations of their underground utilities. Any invasive work is preceded by hand augering to a minimum depth of five feet below surface grade to avoid contact with underground utilities.

FIELD METHODS AND PROCEDURES

Exploratory Soil Borings

Soil borings will be drilled using a truck-mounted, hollow stem auger drill rig. Soil samples for logging will be obtained from auger-return materials and by advancing a modified California split-spoon sampler equipped with brass or stainless steel liners into undisturbed soil beyond the tip of the auger. Soils will be logged by a geologist according to the Unified Soil Classification System and standard geological techniques. Drill cuttings well be screened using a portable photoionization detector (PID) or a flame ionization detector (FID). Exploratory soil borings not used for monitoring well installation will be backfilled to the surface with a bentonite-cement slurry pumped into the boring through a tremie pipe.

Soil sampling equipment will be cleaned with a detergent water solution, rinsed with clean water, and equipped with clean liners between sampling intervals. Augers and

samplers will be steam cleaned between each boring to reduce the possibility of cross contamination. Steam cleaning effluent will be contained in 55-gallon drums and temporarily stored on site. The disposal of the effluent will be the responsibility of the client.

Drill cuttings generated during the drilling procedure will be stockpiled on site. Stockpiled drill cuttings will be placed on and covered with plastic sheeting. The stockpiled soil is typically characterized by collecting and analyzing composite samples from the stockpile. Stratus Environmental will recommend an appropriate method for disposition of the cuttings based on the analytical results. The client will be responsible for disposal of the drill cuttings.

Soil Sample Collection

During drilling, soil samples will be collected in cleaned brass, two by six inch tubes. The tubes will be set in an 18-inch-long split-barrel sampler. The sampler will be conveyed to bottom of the borehole attached to a wire-line hammer device on the drill rig. When possible, the split-barrel sampler will be driven its entire length, either hydraulically or by repeated pounding a 140-pound hammer using a 30-inch drop. The number of drops (blows) used to drive the sampler will be recorded on the boring log. The sampler will be extracted from the borehole, and the tubes containing the soil samples will be removed. Upon removal, the ends of the lowermost tube will be sealed with Teflon sheets and plastic caps. Soil samples for chemical analysis will be labeled, placed on ice, and delivered to a state-certified analytical laboratory, along with the appropriate chain-of-custody documentation.

Soil Classification

As the samples are obtained in the field, they will be classified by the field geologist in accordance with the Unified Soil Classification System. Representative portions of the samples will be retained for further examination and for verification of the field classification. Logs of the borings indicating the depth and identification of the various strata and pertinent information regarding the method of maintaining and advancing the borehole will be prepared.

Soil Sample Screening

Soil samples selected for chemical analysis will be determined from a head-space analysis using a PID or an FID. The soil will be placed in a Ziploc[®] bag, sealed, and allowed to reach ambient temperature, at which time the PID probe will be inserted into the Ziploc[®] bag. The total volatile hydrocarbons present are detected by the PID and reported in parts per million by volume (ppmv). The PID will be calibrated to an isobutylene standard.

Generally two soil samples from each soil boring will be submitted for chemical analysis unless otherwise specified in the scope of work. Soil samples selected for analysis typically represent the highest PID reading recorded for each soil boring and the sample just above first-encountered groundwater.

Stockpiled Drill Cuttings and Soil Sampling

Soil generated during drilling operations will be stockpiled on-site. The stockpile will be set on and covered by plastic sheeting in a manner to prevent rain water from coming in contact with the soil. Prior to collecting soil samples, Stratus personnel will calculate the approximate volume of soil in the stockpile. The stockpile will then divided into sections, if warranted, containing the predetermined volume sampling interval. Soil samples will be collected at 0.5 to 2 feet below the surface of the stockpile. Four soil samples will be collected from the stockpile and composited into one sample by the laboratory prior to analysis. The soil samples will be collected in cleaned brass, two by six inch tubes using a hand driven sampling device. To reduce the potential for cross-contan1ination between samples, the sampler will be cleaned between each sampling event. Upon recovery, the sample container will be sealed at each end with Teflon sheeting and plastic caps to minimize the potential of volatilization and cross-contan1ination prior to chemical analysis. The soil sample will be labe1ed, placed on ice, and delivered to a state-certified analytical laboratory, along with the appropriate chain-of-custody documentation.

Direct Push Technology, Soil Sampling

GeoProbeTM is a drilling method of advancing small diameter borings without generating soil cuttings. The GeoProbeTM system consists of a 2-inch diameter, 5-feet long, stainless steel soil sampling tool that is hydraulically advanced into subsurface soils by a small, truck-mounted rig. The sampling tool is designed similar to a California-modified split-spoon sampler, and lined with a 5-foot long, clear acrylic sample tube that enables continuous core sampling.

To collect soil samples, the sampler is advanced to the desired sampling depth. The mouth of the sampling tool is plugged to prevent soil from entering the sampler. Upon reaching the desired sampling depth, the plug at the mouth of the sample tool is disengaged and retracted, the sampler is advanced, and the sampler is filled with soil. The sample tool is then retrieved from the boring, and the acrylic sample tube removed. The sample tool is then cleaned, a new acrylic tube is placed inside and the sampling equipment is advanced back down the borehole to the next sample interval.

The Stratus geologist describes the entire interval of soil visible in the acrylic tube. The bottom-most 6-inch long section is cut off and retained for possible chemical analysis. The ends of the chemical sample are lined with Teflon[™] sheets, capped, labeled, and placed in an ice-chilled cooler for transport to California Department of Health Services-certified analytical laboratory under chain-of-custody.

Direct Push Technology, Water Sampling

A well known example of direct push technology for water sampling is the Hydropunch[®]. For the purpose of this field method the term hydropunch will be used instead of direct push technology for water sampling.

The hydropunch is typically used with a drill rig. A boring is drilled with hollow stemaugers to just above the sampling zone. In some soil conditions the drill rig can push directly from the surface to the sampling interval. The hydropunch is conveyed to the bottom of the boring using drill rods. Once on bottom the hydropunch is driven a maximum of five feet. The tool is then opened by lifting up the drill rod no more than four feet. Once the tool is opened, water enters and a sample can be collected with a bailer or tubing utilizing a peristaltic pump. Soil particles larger than silt are prevented from entering the tool by a screen within the tool. The water sample is collected, labeled, and handled according to the Quality Assurance Plan.

Monitoring Well Installation

Monitoring wells will be completed by installing 2 to 6 inch-diameter Schedule 40 polyvinyl chloride (PVC) casing. The borehole diameter for a monitoring well will be a minimum of four inches larger than the outside diameter of the casing. The 2-inch-diameter flush-threaded casing is generally used for wells dedicated for groundwater monitoring purposes.

A monitoring well is typically cased with threaded, factory-perforated and blank Schedule 40 PVC. The perforated interval consists of slotted casing, generally with 0.01 or 0.02 inch-wide by 1.5-inch-long slots, with 42 slots per foot. The screened sections of casing are factory machine slotted and will be installed approximately 5 feet above and 10 feet below first-encountered water level. The screened interval will allow for seasonal fluctuation in water level and for monitoring floating product. A threaded or slip PVC cap is secured to the bottom of the casing. The slip cap can be secured with stainless steel screws or friction; no solvents or cements are used. Centering devices may be fastened to the casing to ensure even distribution of filter material and grout within the borehole annulus. The well casing is thoroughly washed and/or steam cleaned, or may be purchased as pre-cleaned, prior to completion.

A filter pack of graded sand will be placed in the annular space between the PVC casing and the borehole wall. Sand will be added to the borehole through the hollow stem of the augers to provide a uniform filter pack around the casing and to stabilize the borehole. The sand pack will be placed to a maximum of 2 feet above the screens, followed by a minimum 1-foot seal consisting of bentonite pellets.

Cement grout containing 5 percent bentonite or concrete will be placed above the bentonite seal to the ground surface. A concrete traffic-rated vault box will be installed over the monitoring well(s). A watertight locking cap will be installed over the top of the

Field Practices and Procedures Page 5

well casing. Reference elevations for each monitoring well will be surveyed when more than two wells will be located on site. Monitoring well elevations will be surveyed by a California licensed surveyor to the nearest 0.01-foot relative to mean sea level (MSL). Horizontal coordinates of the wells will be measured at the same time.

Exploratory boring logs and well construction details will be prepared for the final written report.

APPENDIX B DRILLING PERMIT AND SOIL BORING LOGS



ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306 E-MAIL whomaware.com

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT 2008 First St., Livermond	PERMIT NUMBER 2013098
	WELL NUMBER
	APN 197-0001-024-07
Coordinates Source (2009 4 Fan / ft. Accuracy ft. LAT: 37° 40 5 213 N ft. LONG: 171° 46 16.50° W ft. APN 097-7001-024-01	PERMIT CONDITIONS (Circled Permit Requirements Apply)
CLIENT Balaji Angle Address 35534 (and Land Phone 510-517-4977 City Fremont Zip 94534 APPLICANT Name Sharts Environ mantal Tmc. Email Shirting C Standsim, not Fax 530-676-16005 Address 3330 (amon fault 1/1 # 59 Phone 530-676-16005 City (and fault 1/1 # 59 Phone 530-676-16005 TYPE OF PROJECT: Well Construction Geotechnical Investigation Well Destruction Contamination Investigation Cathodic Protection Other 501 160105 PROPOSED WELL USE: Domestic Irrigation Municipal Remediation Industrial Groundwater Monitoring	A GENERAL 1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date. 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report (DWR Form 188), signed by the driller. 3. Permit is void if project not begun within 90 days of approval date. 4. Notify Zone 7 at least 24 hours before the start of work. B. WATER SUPPLY WELLS 1. Minimum surface seal diameter is four inches greater than the well casing diameter. 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. 3. Grout placed by tremle. 4. An access port at least 0.5 inches in diameter is required on the wellhead for water level present a season.
Dewatering Other DRILLING METHOD: Mud Rotary Air Rotary Hollow Stem Auger Cable Tool Direct Push Other DRILLING COMPANY DALLING	 A sample port is required on the discharge pipe near the wellhead. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
WELL SPECIFICATIONS: Drill Hole Diameter in. Depth ft. Number Soil Borings: Number of Borings Hole Diameter Maximum All Maximum Maxi	GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings. E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.
ESTIMATED STARTING DATE 8-15-13 ESTIMATED COMPLETION DATE 5-15-13	F. WELL DESTRUCTION. See attached. G. SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water below.
I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68. APPLICANT'S SIGNATURE Date 7-31-413 ATTACH SITE PLAN OR SKETCH	Approved

SOIL	BORING/W	/FII (CONSTRI	ICTION I	വദ

Boring No. AB-1

Sheet: 1 of 3

Client	B&C Gas	Date	August 15, 2013			
Address	2008 1st Street	Drilling Co.	Penecore Drilling	rig type	: GeoProbe 7822DT	
	Livermore, CA	Driller	Martin			_
Project No.	2146-2008-01	Method	Direct Push	Hole Diameter:	2.5 inches	
Logged By:	Allan Dudding	Sampler:	5 foot acetate sample liners			
		Depth to GW:	first encountered: 37	feet bgs	VStatic:	

S	ample	Blow	Sar	nple	Actual	Boring	Lithelegic		PID
Туре	No.	Count	Time	Recov.	Depth	Length	Column	Descriptions of Materials and Conditions	(PPM)
					0.97	_1		Concrete pavement at surface. Boring hand cleared to 3 feet.	
					1.93	_ ₂			
					2.90	3			
					3.86	_4	ML	Silt, some clay, ML, dark brown (10YR 3/3), moist, low- to non-plastic, 80% silt, 20% clay, trace sand.	
s	AB-1-5		0900	ļ	4.83	5			0
					5.80	<u> </u>			
					6.76	7		As above, 60% silt, 10% clay, 30% gravel.	
					7.73				
		 			8.69	9			
s	AB-1-10		0906		9.66	10			0
					10.63	_11			
					11.59	12			
					12.56	13			
					13.52	14	CL	Silty Clay, CL, dark yellowish brown (10YR 4/4), moist, medium plasticity, 70%	
s	AB-1-15		0910		14.49	15	-	clay, 30% silt.	0
					15.45	16			
ļ <u> </u>		•			16.42	17			
					17.39	18		As above, 10% gravel.	
					18.35	19		Clayey Gravel, GC, olive brown (2.5Y 4/3), moist, 50% fine gravel, 40% clay, 10%	
s	AB-1-20		0915		19.32	20	GC	silt.	0
					covery —			Comments: Color descriptions from Munsell Color Chart. The boring was advanced a degree angle from vertical. ENVIRONMENTAL INC	t a 15
		_							

SOIL	BORING/WELL	CONSTRUCTION	LOG

Boring No. AB-1

SOIL BOR	ING/WELL CONSTRI	UCTION LOG	Boring N	o. AB-1	Sheet:	2 of 3
Client	B&C Gas	Date	August 15, 2013			
Address	2008 1st Street	Drilling Co.	Penecore Drilling	rig type: G	eoProbe 7822DT	
	Livermore, CA	Driller	Martin			
Project No.	2146-2008-01	Method	Direct Push	Hole Diameter: 2	2.5 inches	
Logged By:	Allan Dudding	Sampler:	5 foot acetate sample liners			
		Depth to GW	: V first encountered: 37 f	eet bgs	Static:	

Sample		Sido:		nple					
Туре	Commence of Street, 5	Blow	46.704.3	npie Recov.	Actual Depth	Boring Length	Lithologic Column	Descriptions of Materials and Conditions	PID
			3,11,10	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20.28	21	GC	Clayey Gravel, GC, olive brown (2.5Y 4/3), moist, 50% fine gravel, 40% clay, 10% silt.	(PPM)
					21.25	22			-
					22.22				
					23.18				-
s	AB-1-25		0921		24.15	25	CL	Silty Clay, CL, olive, (5Y 4/3), moist, low plasticity, 60% clay, 40% silt.	303
					25.11	26		, , , , , , , , , , , , , , , , , , ,	303
}	· · · · · · · · · · · · · · · · · · ·				26.08	-20 -27			
					27.05	- 28			-
					28.01	-28 -29		Clay with silt, CL, olive (5Y 4/3), moist, medium plasticity, 80% clay, 20% silt.	<u> </u>
S	AB-1-30		0925		28.98	30			496
					29.94	31			
					30.91	32			
					31.88	33	ML 	Clayey Silt with gravel, ML, greenish gray (GLEY1 5/5GY), moist, low plasticity, 50% silt, 30% clay, 20% fine gravel.	
					32.84	34	and the second		
S	AB-1-35		0932		33.81	35	CL	Clay with silt, CL, greenish gray (GLEY1 5/5GY), moist, medium plasticity, 80% clay, 20% silt.	1,000+
					34.77	36			
					35.74	37			
					36.71	38	ML	Clayey Silt with gravel, ML, greenish gray (GLEY1 5/5GY), wet, low plasticity, 50% silt, 30% clay, 20% fine gravel.	
					37.67	39			
s	AB-1-40		0944		38.64	40	SM	Silty Sand with gravel, SM, greenish gray (GLEY 1 5/5GY), wet, 60% fine to coarse sand, 20% silt, 20% fine to coarse gravel, trace clay.	537
					covery — ample			Comments: Color descriptions from Munsell Color Chart. The boring was advanced degree angle from vertical.	at a 15
								ENVIRONMENTAL INC	

SOIL BORING/WELL C	ONSTRUCTION LOG
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Boring No. AB-1

Sheet: 3 of 3

Clien	ıt	B&C (∂as			Dat	te	August 15, 2013							
Addr	ess	2008 1	Ist Stree	et		Dril	lling Co.	Penecore Drilling rig type: GeoProbe 7822DT							
		Liverm	ore, CA	١		Dril	ller	Martin							
Proje	ect No.	2146-2	2008-01			Me	thod	Direct Push Hole Diameter: 2.5 inches							
Logg	ed By:	Allan [Dudding			Sar	mpler:	5 foot acetate sample liners							
						De	epth to GW:	: V first encountered: 37 feet bgs Static:							
	2] - 200a.							al monocologic						
	Sample	Blow		nple	Actual	Boring	Lithelogic		PID						
Туре	No.	Count	Time	Recov.	Depth	Length	Column	Descriptions of Materials and Conditions Silty Sand with gravel, SM, greenish gray (GLEY 1 5/5GY), wet, 60% fine to	(PPM						
		ļ 	ļ	ļ	39.60	41		coarse sand, 20% silt, 20% fine to coarse gravel, trace clay.							
					40.57	42									
					41.53	43									
s	AB-1-44		0948		42.50	44									
			0040	+	1 1				438						
		ļ		 	43.47	— ⁴⁵			ļ						
			ļ	ļ	44.43	46									
					45.40	_ ₄₇									
		ļ	 	ļ	46.36	₄₈									
 					47.33	49									
		}			48.30	₅₀									
					49.26	₅₁									
					50.23	_ ₅₂									
				ļ	51.19	₅₃	i i								
				ļ	52.16	54									
					53.13	₅₅									
					54.09	56									
ļ					55.06	<u>_</u> 57			<u> </u>						
ļ					56.02	58									
					56.99	59									
					<u>5</u> 7.96	60									
					covery —			Comments: Color descriptions from Munsell Color Chart. The boring was advanced a degree angle from vertical. STRATUS ENVIRONMENTAL INC	t a 15						

SOIL BORING/WELL CONSTRUCT	ſΩ	10	N	П	O	C
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Boring No. AB-2

Sheet: 1 of 3

Client	B&C Gas	Date	August 15, 2013
Address	2008 1st Street	Drilling Co.	Penecore Drilling rig type: GeoProbe 7822DT
	Livermore, CA	Driller	Martin
Project No.	2146-2008-01	Method	Direct Push Hole Diameter: 2.5 inches
Logged By:	Allan Dudding	Sampler:	5 foot acetate sample liners
		Depth to GW	7: V first encountered: 37 feet bgs V Static:

ं	Sample	Blow	San	nple	Actual	Boring	Lithologic		
Туре	No.	Count	Time	Recov.	Depth	Length	Column	Descriptions of Materials and Conditions	PID (PPM)
					0.97	_1		Concrete pavement at surface. Boring hand cleared to 3 feet.	
					1.93				1
					2.90				
					3.86	F ₄		Non-native mix of pea gravel, silt, sand, brick, and concrete materials.	
s	AB-2-5		1030		[-
	~		1030		4.83	5	,,,,		0
					5.80	6	managan and a second		
					6.76	- ⁷	ML	Silt with gravel, ML, dark yellowish brown (10YR 4/4), moist, low plasticity, 80% silt, 20% fine to coarse gravel, some pieces of terra cotta or brick found in	
					7.73	_8		sediment.	
	••••				8.69	9			
S	AB-2-10		1034		9.66	10			0
	**				10.63	<u></u> 11			
					11.59	12	/		
					12.56	13	GP	Poorly-graded gravel, GP, light brownish gray (10YR 6/2), dry, 95% fine angular gravel, 5% silt and fines.	
					13.52	14			
s	AB-2-15		1038		14.49	15			0
					15.45	16	ML	Clayey Silt, ML, dark yellowish brown (10YR 4/4), moist to dry, low plasticity, 70%	
					16.42	_ 17		silt, 30% clay.	·
					17.39	18			·
					18.35	19		i	
	AD 0 00		40.42					As above, with gravel. 50% silt, 20% clay, 30% fine to coarse gravel.	·
S	AB-2-20		1043		19.32	20			210
					covery — ample			Comments: Color descriptions from Munsell Color Chart. The boring was advanced a degree angle from vertical.	at a 15
								STRATUS ENVIRONMENTAL, INC	

SOIL BORING/WELL CONSTRUCTION LOG

Boring No. AB-2 Sheet: 2 of 3

Client	B&C Gas	Date	August 15, 2013
Address	2008 1st Street	Brilling Co.	Penecore Drilling rig type: GeoProbe 7822DT
	Livermore, CA	Driller	<u>Martin</u>
Project No.	2146-2008-01	Method	Direct Push Hole Diameter: 2.5 inches
Logged By:	Allan Dudding	Sampler:	5 foot acetate sample liners
		Depth to GW	V: V first encountered: 37 feet bgs Static:

	Sample		Sar	nple					100000
Туре	Jun (8, 111 JR, 13	Blow Count	Time	Recov.	Actual Depth	Boring Length	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
					20.28	21	ML	Clayey Silt with gravel, ML, dark yellowish brown (10YR 4/4), moist, low plasticity, 50% silt, 20% clay, 30% fine to coarse gravel.	-1 (S.P. 1911) S
					21.25			30 % Sitt, 20 % Clay, 30 % liftle to Coarse gravel.	
					22.22				
					23.18				
S	AB-2-25		1048		24.15	25			408
					25.11	26			
******			•••••		26.08	——————————————————————————————————————			
					27.05	²⁸			
					28.01	29	CL	Silty Clay, CL, olive gray (5Y 4/2), moist, medium plasticity, 70% clay, 30% silt.	
S	AB-2-30		1051		28.98	30			791
					29.94	31		Color changes to greenish gray (GLEY1 5/5GY).	
					30.91	32			
					31.88	33	ML	Clayey Silt, ML, greenish gray (GLEY1 5/5GY), moist, low plasticity, 70% silt, 30% clay, trace fine sand.	
					32.84	_34	- CI		
s	AB-2-35		1055		33.81	35	CL	Silty Clay, CL, greenish gray (GLEY1 5/5GY), moist, medium plasticity, 70% clay, 30% silt.	1,000+
				·	34.77		∇		
					35.74	37	ML	Clayey Silt, ML, greenish gray (GLEY1 5/5GY), wet, low plasticity, 70% silt, 30% clay, trace fine sand.	
				·	36.71	38			
	·				37.67	39			
s	AB-2-40		1103		38.64	40			941
					covery — ample			Comments: Color descriptions from Munsell Color Chart. The boring was advanced a degree angle from vertical. STATUS ENVIRONMENTAL INC.	at a 15

SOIL BORING/WELL CONSTRUCTION LO	LOG	ICTION.	CONSTRU	WELL	BORING	SOILE
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Boring No. AB-2 Sheet: 3 of 3

				•	
Client	B&C Gas	Date	August 15, 2013		
Address	2008 1st Street	Drilling Co.	Penecore Drilling	rig type	: GeoProbe 7822DT
	Livermore, CA	Driller	Martin		
Project No.	2146-2008-01	Method	Direct Push	Hole Diameter:	2.5 inches
Logged By:	Allan Dudding	Sampler:	5 foot acetate sample lii	ners	
		Depth to GW:	first encountered:	37 feet bgs	Static:
The second secon				A	
Sample	Blow Sample 4	ciusi Borina Lithologic			2011 C

	Sample	Blow	Sar	nple	Actual	Boring	h ark ar a sin		
Туре	No.	Count	Time	Recov.		Length	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
	ļ 		ļ		39.60	41	SM-SC	Silty Clayey Sand, SM-SC, greenish gray (GLEY1 5/5GY), wet, 70% fine to coarse sand, 20% fines, 10% fine to coarse gravel.	
					40.57	42			
			 		41.53	43			
S	AB-2-44		1108		42.50	44			217
					43.47	45			
					44.43	46			
					45.40	47			
					46.36	48			
			,		47.33	49			
				<u> </u>	48.30	50			
					49.26	51			
					50.23	52			
					51.19	53			
	·				52.16	₅₄			
					53.13	55			
					54.09	56			
					55.06	57			
					56.02	58			
					56.99	59			
					57.96	60			
					covery — ample			Comments: Color descriptions from Munsell Color Chart. The boring was advanced at degree angle from vertical.	a 15
								STRATUS Environmental inc	

APPENDIX C

CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION



Alpha Analytical Number: STR13081641-01A

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861

Client I.D. Number: AB-1-5

Job: **B&C Gas** Attn:

Scott Bittinger

Phone:

(530) 676-2062

Fax:

(530) 676-6005

Sampled: 08/15/13 09:00

Received: 08/16/13

Extracted: 08/15/13 12:42

Analyzed: 08/22/13

Semivolatile Organics by GC/MS EPA Method SW8270C

_	Compound C	oncentration	Reporting	Limit		Compound	Concentration	Reporting Li	mit
1	Phenol	ND	660	μg/Kg	36	Hexachlorobenzene	ND	660	μg/Kg
2	2-Chlorophenol	ND	660	μg/Kg	37	Pentachlorophenol	ND	3,300	µg/Kg
3	Bis(2-chloroethyl)ether	ND	660	μg/Kg	38	Phenanthrene	ND	. 660	μg/Kg
4	1,3-Dichlorobenzene	ND	1,300	μg/Kg	39	Anthracene	ND	660	µg/Kg
5	1,4-Dichlorobenzene	ND	1,300	μg/Kg	40	Di-n-butyl phthalate	ND	3,300	µg/Kg
6	1,2-Dichlorobenzene	ND	1,300	μg/Kg	41	Fluoranthene	ND	660	μg/Kg
7	Bis(2-chloroisopropyl)ether	ND	660	μg/Kg	42	Pyrene	ND	660	µg/Kg
8	N-Nitrosodi-n-propylamine	ND	660	μg/Kg	43	Butyl benzyl phthalate	ND	1,300	µg/Kg
9	Hexachloroethane	ND	1,300	μg/Kg	44	Benzo(a)anthracene	ND	660	µg/Kg
10	Nitrobenzene	ND	660	μg/Kg	45	3.3'-Dichlorobenzidine	ND	1,300	µg/Kg
11	Isophorone	ND	660	μg/Kg	46	Chrysene	ND	660	µg/Kg
12	2-Nitrophenol	ND	660	μg/Kg	47	Bis(2-ethylhexyl)phthalate	ND	3,300	μg/Kg
13	2,4-Dimelhylphenol	ND	660	µg/Kg	48	Di-n-octvl phthalate	ND	3,300	µg/Kg
14	Bis(2-chloroethoxy)methane	ND	660	μg/Kg	49	Benzo(b)fluoranthene	ND	660	µg/Kg
15	2,4-Dichlorophenol	ND	660	μg/Kg	50	Benzo(k)fluoranthene	ND	660	µg/Kg
16	1,2,4-Trichlorobenzene	ND	660	μg/Kg	51	Benzo(a)pyrene	ND	660	µg/Kg
17	Naphthalene	ND	660	μg/Kg	52	Indeno(1,2,3-cd)pyrene	ND	660	µg/Kg
18	Hexachlorobutadiene	ND	1,300	μg/Kg	53	Dibenz(a,h)anthracene	ND	660	µg/Kg
19	4-Chloro-3-methylphenol	ND	1,300	μg/Kg	54	Benzo(g,h,i)perylene	ND	660	µg/Kg
20	Hexachlorocyclopentadiene	ND	6,600	μg/Kg		(3. 47),	•	, ,	F99
21	2,4,6-Trichlorophenol	ND	660	μg/Kg					
22	2-Chloronaphthalene	ND	660	μg/Kg					
23	Dimethyl phthalate	ND	660	µg/Kg					
24	Acenaphthylene	ND	660	μg/Kg		•			
25	2,6-Dinitrotoluene	ND	660	µg/Kg					
26	Acenaphthene	ND	660	μg/Kg					
27	2,4-Dinitrophenol	ND	6,600	μg/Kg					
28	4-Nitrophenol	ND	3,300	μg/Kg					

Sample results were calculated on a wet weight basis. ND = Not Detected

29 2,4-Dinitrololuene

30 Diethyl phthalate

32 4-Chlorophenyl phenyl ether

33 4,6-Dinitro-2-methylphenol

35 4-Bromophenyl phenyl ether

34 N-Nitrosodiphenylamine

31 Fluorene

Roger Scholl

ND

ND

ND

ND

ND

ND

ND

660

660

660

6,600

660

µg/Kg

μg/Kg

μg/Kg

µg/Кg

660 , µg/Kg

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered an any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

Report Date

Page 1 of 1



Alpha Analytical Number: STR13081641-02A

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861

B&C Gas

Client I.D. Number: AB-1-10

Job:

Scott Bittinger

Phone: (530) 676-2062

Fax:

(530) 676-6005

Sampled: 08/15/13 09:06

Received: 08/16/13

Extracted: 08/15/13 12:42 Analyzed: 08/22/13

Semivolatile Organics by GC/MS EPA Method SW8270C

	Compound	Concentration	Reporting L	_imit		Compound	Concentration	Reporting Lin	nit .
1	Phenol	l ND	660	μg/Kg	36	Hexachlorobenzene	ND	660	µg/Kg
2	2-Chlorophenol	ND	660	μg/Kg	37	Pentachlorophenol	ND	3,300	µg/Kg
3	Bis(2-chloroethyl)ether	ND	660	μg/Kg	38	Phenanthrene	ND	660	µg/Kg
4	1,3-Dichlorobenzene	ND	1,300	μg/Kg	39	Anthracene	ND	660	µg/Kg
5	1,4-Dichlorobenzene	ND	1,300	μg/Kg	40	Di-n-butyl phthalate	ND	3,300	µg/Kg
6	1,2-Dichlorobenzene	ND	1,300	μg/Kg	41	Fluoranthene	ND	660	µg/Kg
7	Bis(2-chloroisopropyl)ether	ND	660	µg/Kg	42	Pyrene	ND	660	µg/Kg
8	N-Nitrosodi-n-propylamine	ND	660	μg/Kg	43	Butyl benzyl phthalate	ND	1,300	µg/Kg
9	Hexachloroethane	ND	1,300	µg/Kg	44	Benzo(a)anthracene	ND	660	µg/Kg
10	Nilrobenzene	ND	660	μg/Kg	45	3,3'-Dichlorobenzidine	ND	1,300	µg/Kg
11	Isophorone	ND	660	µg/Kg	46	Chrysene	ND	660	µg/Kg
.12	2-Nitrophenol	. ND	660	μg/Kg	47	Bis(2-ethylhexyl)phthalate	ND	3,300	µg/Kg
13	•	ND	660	μg/Kg	48	Di-n-octyl phthalate	ND	3,300	µg/Kg
- 14	Bis(2-chloroethoxy)methane	ND	660	μg/Kg	49	Benzo(b)fluoranthene	ND	660	µg/Kg
15	*	ND	660	µg/Kg	50	Benzo(k)fluoranthene	ND	660	µg/Kg
16	1,2,4-Trichlorobenzene	ND	660	μg/Kg	51	Benzo(a)pyrene	ND	660	μg/Kg
17	Naphthalene	ND	660	μg/Kg	52	Indeno(1,2,3-cd)pyrene	ND	660	µg/Kg
18	Hexachlorobutadiene	. ND	1,300	μg/Kg	53	Dibenz(a,h)anthracene	ND	660	µg/Kg
19	4-Chioro-3-methylphenol	ND	1,300	μg/Kg	54	Benzo(g,h,i)perylene	ND	660	µg/Kg
20	Hexachlorocyclopentadiene	ND	6,600	µg/Kg					
21	2,4,6-Trichlorophenol	ND	660	µg/Kg					

Sample results were calculated on a wet weight basis. ND = Not Detected



22 2-Chloronaphthalene

23 Dimethyl phthalate

24 Acenaphthylene

28 4-Nitrophenol

31 Fluorene

29

25 2.6-Dinitrotoluene

Acenaphthene 27 2,4-Dinitrophenol

2,4-Dinitrotoluene

32 4-Chlorophenyl phenyl ether

33 4,6-Dinitro-2-methylphenol

34 N-Nitrosodiphenylamine 35 4-Bromophenyl phenyl ether

30 Diethyl phthalate

ND

660

660

660

660

6.600

3,300

660

660

660

660

660

6,600

μg/Kg

µg/Kg

μg/Kg

μg/Kg

µg/Kg

µg/Kg

μg/Kα 660

µg/Kg

µg/Kg

μg/Kg

μg/Kg

µg/Kg

µg/Kg

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered an any way.

Report Date

Page 1 of 1

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861

B&C Gas

Job:

Attn:

Scott Bittinger

Phone:

(530) 676-2062

Fax:

(530) 676-6005

Alpha Analytical Number: STR13081641-08A

Client I.D. Number: AB-2-5

Sampled: 08/15/13 10:30

Received: 08/16/13

Extracted: 08/15/13 12:42

Analyzed: 08/22/13

Semivolatile Organics by GC/MS EPA Method SW8270C

	Compound C	oncentration	Reporting	Limit		Compound	Concentration	Reporting Li	mit
1	Phenol	ND	660	μg/Kg	36	Hexachlorobenzene	I ND	660	<u>μg</u> /Kg
2	2-Chlorophenol	ND	660	μg/Kg	37	Pentachlorophenol	ND	3,300	µg/Kg
3	Bis(2-chloroethyl)ether	ND .	660	µg/Kg	38	Phenanthrene	ND	660	μg/Kg
4	1,3-Dichlorobenzene	ND	1,300	μg/Kg	39	Anthracene	ND	660	µg/Kg
5	1,4-Dichlorobenzene	ND	1,300	μg/Kg	40	Di-n-butyl phthalate	ND	3,300	µg/Kg
6	1,2-Dichlorobenzene	ND	1,300	μg/Kg	41	Fluoranthene	ND	660	µg/Kg
7	Bis(2-chloroisopropyl)ether	ND	660	µg/Kg	42	Pyrene	ND	660	µg/Kg
8	N-Nitrosodi-n-propylamine	ND	660	μg/Kg	43	Butyl benzyl phthalate	ND	1,300	µg/Kg
9	Hexachloroethane	ND	1,300	µg/Kg	44	Benzo(a)anthracene	ND ND	660	μg/Kg
10	Nitrobenzene	ND	660	μg/Kg	45	3.3'-Dichlorobenzidine	ND	1,300	µg/Kg
11	Isophorone	ND	660	µg/Kg	46	Chrysene	ND	660	µg/Kg
12	2-Nitrophenol	ND	660	μg/Kg	47	Bis(2-ethylhexyl)phthalate	ND	3,300	µg/Kg
13	2,4-Dimethylphenol	ND	660	μg/Kg	48	Di-n-octyl phthalate	ND	3,300	μg/Kg
14	Bis(2-chloroethoxy)methane	ND	660	µg/Kg	49	Benzo(b)fluoranthene	ND	660	µg/Kg
15	2,4-Dichlorophenol	ND	660	μg/Kg	50	Benzo(k)fluoranthene	ND	. 660	μg/Kg
16	1,2,4-Trichlorobenzene	ND	660	µg/Kg	51	Benzo(a)pyrene	ND	660	μg/Kg
17	Naphthalene	ND	660	μg/Kg	52	Indeno(1,2,3-cd)pyrene	ND	660	μg/Kg
18	Hexachlorobutadiene	ND	1,300	μg/Kg	53	Dibenz(a,h)anthracene	ND	660	µg/Kg
19	4-Chloro-3-methylphenol	ND	1,300	μg/Kg	54	Benzo(g,h,i)perylene	ND	660	µg/Kg
20	Hexachlorocyclopentadiene	ND	6,600	μg/Kg	•	20.20(8),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	1 000	Parra
21	2,4,6-Trichlorophenol	ND	660	µg/Kg					
22	2-Chloronaphthalene	ND	660	μg/Kg					
23	Dimethyl phthalate	ND	660	μg/Kg					
24	Acenaphthylene	ND	660	µg/Kg					
	A A BL II II I	I							

Sample results were calculated on a wet weight basis. ND = Not Detected



25

27

31

34

2,6-Dinitrotoluene

2.4-Dinitrophenol

32 4-Chlorophenyl phenyl ether

N-Nitrosodiphenylamine

4-Bromophenyl phenyl ether

33 4,6-Dinitro-2-methylphenol

4-Nitrophenol

29 2.4-Dinitrotoluene

30 Diethyl phthalate

Fluorene

26 Acenaphthene

NĎ

ND

660

660

6,600

3,300

660

660

660

660 µg/Kg

660 µg/Kg

6,600

μg/Kg

µg/Kg

μg/Kg

µg/Kg

µg/Kg

ua/Ka

µg/Kg

µg/Kg

µg/Kg

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Report Date

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Alpha Analytical Number: STR13081641-09A

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861

B&C Gas

Client I.D. Number: AB-2-10

Job:

Scott Bittinger

Phone:

(530) 676-2062

Fax:

(530) 676-6005

Sampled: 08/15/13 10:34

Received: 08/16/13 Extracted: 08/15/13 12:42

Analyzed: 08/22/13

Semivolatile Organics by GC/MS EPA Method SW8270C

_	Compound	Concentration	Reporting Li	mit		Compound	Cond	centration	Reporting Li	mit
1	Phenoi	ND	660 µ	ug/Kg	36	Hexachlorobenzene		ND	660	<u>μ</u> g/Kg
2	2-Chlorophenol	ND	660 µ	ug/Kg	37	Pentachlorophenol		ND	3,300	μg/Kg
3	Bis(2-chloroethyl)ether	ND	660 µ	μg/Kg	38	Phenanthrene		ND	660	μg/Kg
4	1,3-Dichlorobenzene	ND	1,300 µ	μg/Kg	39	Anthracene		ND	660	μg/Kg
5	1,4-Dichlorobenzene	ND	1,300 µ	ug/Kg	40	Di-n-butyl phthalate		ND	3,300	μg/Kg
6	1,2-Dichlorobenzene	ND		ug/Kg	41	Fluoranthene		ND	660	µg/Kg
7	Bis(2-chloroisopropyl)ether	ND:	660 µ	ug/Kg	42	Pyrene		ND	660	μg/Kg
8	N-Nitrosodi-n-propylamine	ND	660 µ	µg/Kg	43	Butyl benzyl phthalate		ND	1,300	μg/Kg
9	Hexachloroethane	ND	1,300 µ	ug/Kg	44	Benzo(a)anthracene		ND	660	μg/Kg
10	Nitrobenzene	ND	660 µ	ug/Kg	45	3,3'-Dichlorobenzidine		ND	1,300	μg/Kg
11	Isophorone	ND		µg/Kg	46	Chrysene		ND	660	μg/Kg
12	2-Nitrophenol	ND		μg/Kg	47	Bis(2-ethylhexyl)phthalate		ND	3,300	μg/Kg
13	2,4-Dimethylphenol	ND		µg/Kg	48	Di-n-octyl phthalate		ND	3,300	μg/Kg
14	Bis(2-chloroethoxy)methane	ND		µg/Kg	49	Benzo(b)fluoranthene		ND	660	μg/Kg
15	2,4-Dichlorophenol	ND	660 L	μg/Kg	50	Benzo(k)fluoranthene		ND	660	μg/Kg
16	1,2,4-Trichlorobenzene	ND	660 L	µg/Kg	51	Benzo(a)pyrene		ND	660	µg/Kg
17	Naphthalene	ND		µg/Kg	52	Indeno(1,2,3-cd)pyrene		ND	660	μg/Kg
18	Hexachlorobutadiene	ND		µg/Kg	53	Dibenz(a,h)anthracene		ND	660	μg/Kg
19	4-Chloro-3-methylphenol	ND	1,300 µ	µg/Kg	54	Benzo(g,h,i)perylene		ND	660	μg/Kg
20	Hexachlorocyclopentadiene	ND	6,600 L	µg/Kg				•	•	, , ,
21	2,4,6-Trichlorophenol	ND	660 L	μg/Kg						
22	2-Chloronaphthalene	ND		µg/Kg						
23	Dimethyl phthalate	ND	660 L	μg/Kg						
24	Acenaphthylene	ND	660 L	µg/Kg						
25	2,6-Dinitrotoluene	ND		µg/Kg						
26	Acenaphthene	ND	660	µg/Kg						
27	2,4-Dinitrophenol	ND		ug/Kg						
28	4-Nitrophenol	ND		µg/Kg						
29	2,4-Dinitrotoluene	ND		µg/Kg						
30	Diethyl phthalate	ND		µg/Kg						
31	Fluorene	ND		µg/Kg						
32	4-Chlorophenyl phenyl ether	ND		μg/Kg						

Sample results were calculated on a wet weight basis. ND = Not Detected



33 4,6-Dinitro-2-methylphenol

4-Bromophenyl phenyl ether

34 N-Nitrosodiphenylamine

ND

ND

6,600

μg/Kg

μg/Kg

µg/Kg

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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Page 1 of 1



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ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861

Attn: Scott Bittinger Phone: (530) 676-2062 Fax: (530) 676-6005

Date Received: 08/16/13

Job: B&C Gas

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B / SW8260B Volatile Organic Compounds (VOCs) EPA Method SW8260B

		Parameter	Concentrat	ion	Reporting	Date	Date
Client ID:	AB-1-5				Limit	Extracted	Analyzed
Lab ID:	STR13081641-01A	TPH-P (GRO)	ND		1,000 µg/Kg	08/16/13	08/22/13
	08/15/13 09:00	Tertiary Butyl Alcohol (TBA)	ND		1,000 μg/Kg 500 μg/Kg		
zare zampred	00/15/15 07:00	Methyl tert-butyl ether (MTBE)	ND			08/16/13	08/22/13
		Benzene	ND		5.0 μg/Kg	08/16/13	08/22/13
		Toluene	ND		5.0 μg/Kg	08/16/13	08/22/13
		Ethylbenzene	ND		5.0 μg/Kg	08/16/13	08/22/13
		m,p-Xylene	ND		5.0 μg/Kg	08/16/13	08/22/13
		o-Xylene	ND		5.0 μg/Kg	08/16/13	08/22/13
		Naphthalene	ND		5.0 μg/Kg	08/16/13	08/22/13
Client ID:	AB-1-10	ruphmatene	ND		40 μg/Kg	08/16/13	08/22/13
Lab ID :	STR13081641-02A	TPH-P (GRO)	ND		1,000 µg/Кg	08/16/13	08/22/13
Date Sampled	08/15/13 09:06	Tertiary Butyl Alcohol (TBA)	ND		500 μg/Kg	08/16/13	08/22/13
•		Methyl tert-butyl ether (MTBE)	31		5.0 μg/Kg	08/16/13	08/22/13
		Benzene	ND		5.0 μg/Kg	08/16/13	08/22/13
		Toluene	ND		5.0 μg/Kg	08/16/13	08/22/13
		Ethylbenzene	ND		5.0 μg/Kg	08/16/13	08/22/13
		m,p-Xylene	ND		5.0 μg/Kg	08/16/13	08/22/13
		o-Xylene	ND		5.0 μg/Kg	08/16/13	08/22/13
		Naphthalene	ND		40 μg/Kg	08/16/13	08/22/13
Client ID:	AB-1-25	•				00,10,15	00/22/15
Lab ID:	STR13081641-03A	TPH-P (GRO)	2,300,000		500,000 μg/Kg	08/16/13	08/23/13
Date Sampled	08/15/13 09:21	Tertiary Butyl Alcohol (TBA)	ND	V	250,000 μg/Kg	08/16/13	08/23/13
		Methyl tert-butyl ether (MTBE)	ND	v	2,500 μg/Kg	08/16/13	08/23/13
		Benzene	ND	V	2,500 μg/Kg	08/16/13	08/23/13
		Toluene	3,800		2,500 μg/Kg	08/16/13	08/23/13
		Ethylbenzene	31,000		2,500 µg/Kg	08/16/13	08/23/13
		m,p-Xylene	210,000		2,500 μg/Kg	08/16/13	08/23/13
		o-Xylene	66,000		2,500 µg/Kg	08/16/13	08/23/13
		Naphthalene	21,000		20,000 μg/Kg	08/16/13	08/23/13
Client ID:	AB-1-30						
Lab ID:	STR13081641-04A	TPH-P (GRO)	2,000,000		250,000 μg/Kg	08/16/13	08/23/13
Date Sampled	08/15/13 09:25	Tertiary Butyl Alcohol (TBA)	ND	V	130,000 µg/Kg	08/16/13	08/23/13
		Methyl tert-butyl ether (MTBE)	ND	V	1,300 µg/Kg	08/16/13	08/23/13
		Benzene	1,300		1,300 µg/Kg	08/16/13	08/23/13
		Toluene	71,000		1,300 µg/Kg	08/16/13	08/23/13
		Ethylbenzene	48,000		1,300 µg/Kg	08/16/13	08/23/13
		m,p-Xylene	210,000		1,300 µg/Kg	08/16/13	08/23/13
		o-Xylene	73,000		1,300 µg/Kg	08/16/13	08/23/13
		Naphthalene	13,000		10,000 μg/Kg	08/16/13	08/23/13



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Client ID:	AB-1-35						
Lab ID:	STR13081641-05A	TPH-P (GRO)	1,400,000	100,000	μα/Κα	08/16/13	08/22/13
Date Sampled	08/15/13 09:32	Tertiary Butyl Alcohol (TBA)	ND V	50,000	•	08/16/13	08/22/13
•		Methyl tert-butyl ether (MTBE)	2,000		μg/Kg	08/16/13	08/22/13
		Benzene	12,000		μg/Kg	08/16/13	08/22/13
		Toluene	29,000		μg/Kg μg/Kg	08/16/13	08/22/13
		Ethylbenzene	30,000		μg/Kg μg/Kg	08/16/13	08/22/13
		m,p-Xylene	120,000		μg/Kg	08/16/13	08/22/13
		o-Xylene	44,000		μg/Kg	08/16/13	08/22/13
		Naphthalene	30,000			08/16/13	08/22/13
Client ID:	AB-1-40	· · · · · · · · · · · · · · · · · · ·	50,000	7,000	μg/Kg	06/10/13	00/22/13
Lab ID :	STR13081641-06A	TPH-P (GRO)	2,600,000	160,000		08/16/13	08/22/13
Date Sampled	08/15/13 09:44	Tertiary Butyl Alcohol (TBA)	ND V	80,000			08/22/13
		Methyl tert-butyl ether (MTBE)	1,400			08/16/13	
		Benzene	•		μg/Kg	08/16/13	08/22/13
		Toluene	16,000		μg/Kg	08/16/13	08/22/13
		Ethylbenzene	3,200		μg/Kg	08/16/13	08/22/13
		m,p-Xylene	53,000		μg/Kg	08/16/13	08/22/13
		o-Xylene	210,000		μg/Kg	08/16/13	08/22/13
		Naphthalene	60,000		μg/Kg	08/16/13	08/22/13
Client ID:	AB-1-44	Napitulaiene	35,000	6,400	μg/Kg	08/16/13	08/22/13
Lab ID:	STR13081641-07A	TPH-P (GRO)	9.300	1.000	nr.	00/1/6/10	00.002/12
	08/15/13 09:48	Tertiary Butyl Alcohol (TBA)	8,300		μg/Kg	08/16/13	08/23/13
Date Bampied	00/13/13/09.40	,	ND		μg/Kg	08/16/13	08/23/13
		Methyl tert-butyl ether (MTBE) Benzene	5.4		μg/Kg	08/16/13	08/23/13
		Toluene	9.0		μg/Kg	08/16/13	08/23/13
			ND		μg/Kg	08/16/13	08/23/13
		Ethylbenzene	56		μg/Kg	08/16/13	08/23/13
		m,p-Xylene	66		μg/Kg	08/16/13	08/23/13
		o-Xylene	21		μg/Kg	08/16/13	08/23/13
Client ID:	AB-2-5	Naphthalene	ND	40	μg/Kg	08/16/13	08/23/13
Lab ID:	STR13081641-08A	TRUE DAGRAN				E	
	08/15/13 10:30	TPH-P (GRO)	ND		μg/Kg	08/16/13	08/22/13
Date Sampled	00/13/13 10.30	Tertiary Butyl Alcohol (TBA)	ND		μg/Kg	08/16/13	08/22/13
		Methyl tert-butyl ether (MTBE)	ND		μg/Kg	08/16/13	08/22/13
		Benzene	ND		μg/Kg	08/16/13	08/22/13
		Toluene	ND		μg/Kg	08/16/13	08/22/13
		Ethylbenzene	ND		μg/Kg	08/16/13	08/22/13
		m,p-Xylene	8.9		μg/Kg	08/16/13	08/22/13
		o-Xylene	ND		μ g/K g	08/16/13	08/22/13
Client ID	AD 3.10	Naphthalene	ND	40	μg/Kg	08/16/13	08/22/13
Client ID : Lab ID :	AB-2-10	TOUR D (GDG)					
	STR13081641-09A	TPH-P (GRO)	ND		μg/Kg	08/16/13	08/22/13
Date Sampled	08/15/13 10:34	Tertiary Butyl Alcohol (TBA)	ND		μg/Kg	08/16/13	08/22/13
		Methyl tert-butyl ether (MTBE)	ND		μg/Kg	08/16/13	08/22/13
		Benzene	ND		μg/Kg	08/16/13	08/22/13
		Toluene	9.2		μg/Kg	08/16/13	08/22/13
		Ethylbenzene	ND		μg/Kg	08/16/13	08/22/13
		m,p-Xylene	7.6		μg/Kg	08/16/13	08/22/13
		o-Xylene	ND		μg/Kg	08/16/13	08/22/13
		Naphthalene	ND ,	40	μg/Kg	08/16/13	08/22/13



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Client ID:	AB-2-25							
Lab ID :	STR13081641-10A	TPH-P (GRO)	1,200		1,000 µg	/K o	08/16/13	08/22/13
Date Sampled	08/15/13 10:48	Tertiary Butyl Alcohol (TBA)	ND		500 μg		08/16/13	08/22/13
		Methyl tert-butyl ether (MTBE)	5.9		5.0 μg		08/16/13	08/22/13
		Benzene	9.2		5.0 μg	_	08/16/13	08/22/13
		Toluene	79		5.0 μg	-	08/16/13	08/22/13
		Ethylbenzene	14		5.0 μg		08/16/13	08/22/13
		m,p-Xylene	81		5.0 µg	-	08/16/13	08/22/13
		o-Xylene	21		5.0 μg	_	08/16/13	08/22/13
		Naphthalene	ND		40 μg		08/16/13	08/22/13
Client ID:	AB-2-30		ND		то де	, I.S	06/10/15	00/22/15
Lab ID :	STR13081641-11A	TPH-P (GRO)	270,000		20,000 µg	/K a	08/16/13	08/22/13
Date Sampled	08/15/13 10:51	Tertiary Butyl Alcohol (TBA)	ND	V	20,000 μg 10,000 μg		08/16/13	08/22/13
•		Methyl tert-butyl ether (MTBE)	140	•	10,000 дд	_	08/16/13	08/22/13
		Benzene	130		100 µg		08/16/13	08/22/13
		Toluene	ND	v	100 μg 100 μg		08/16/13	08/22/13
		Ethylbenzene	4,000	•	100 µg	_	08/16/13	08/22/13
		m,p-Xylene	20,000		100 µg		08/16/13	08/22/13
		o-Xylene	7,100		100 μg 100 μg	-	08/16/13	08/22/13
		Naphthalene	5,700			_	08/16/13	08/22/13
Client ID:	AB-2-35	1 raphotatorio	3,700		800 µg	/ ICB	06/10/13	06/22/13
Lab ID:	STR13081641-12A	TPH-P (GRO)	560,000		40,000 μg	/IV ~	08/16/13	08/22/13
	08/15/13 10:55	Tertiary Butyl Alcohol (TBA)	ND .	v	40,000 μg 20,000 μg	_	08/16/13	08/22/13
	10.00	Methyl tert-butyl ether (MTBE)	300	*			08/16/13	08/22/13
	•	Benzene	1,200		200 μg	_	08/16/13	08/22/13
		Toluene	1,200 ND	v	200 μg			
		Ethylbenzene		v	200 μg	_	08/16/13	08/22/13
		m,p-Xylene	13,000		200 μg		08/16/13 08/16/13	08/22/13
		o-Xylene	51,000		200 μg	_		08/22/13
		Naphthalene	530		200 μg	-	08/16/13	08/22/13
Client ID:	AB-2-40	Napitulaiche	7,800		1,600 дд	ИKg	08/16/13	08/22/13
Lab ID:	STR13081641-13A	TPH-P (GRO)	200,000		20,000	/V ~	08/16/13	08/22/13
	08/15/13 11:03	Tertiary Butyl Alcohol (TBA)	200,000 ND	V	20,000 де			08/22/13
Sate Samples	00/13/13 11.03	Methyl tert-butyl ether (MTBE)	430	V	10,000 µg		08/16/13	08/22/13
		Benzene	1,600		100 μg		08/16/13	
		Toluene			100 де		08/16/13	08/22/13
		Ethylbenzene	1,200		100 дд		08/16/13	08/22/13
		m,p-Xylene	4,000		100 µg		08/16/13	08/22/13
		o-Xylene	17,000		100 με	_	08/16/13	08/22/13
		Naphthalene	6,400		100 μg		08/16/13	08/22/13
Client ID:	AB-2-44	11apaulaiene	3,200		800 µg	yKg	08/16/13	08/22/13
Lab ID :	STR13081641-14A	TPH-P (GRO)	£4.000		0.000	ne	00/1//12	00.00/12
	08/15/13 11:08		54,000		2,000 με		08/16/13	08/22/13
Date Sampled	00/13/13 11.00	Tertiary Butyl Alcohol (TBA) Methyl tert-butyl ether (MTBE)	ND	V	1,000 με		08/16/13	08/22/13
		Benzene	ND	V	10 με		08/16/13	08/22/13
		Toluene	ND	V	10 με		08/16/13	08/22/13
		Ethylbenzene	ND	V	10 да		08/16/13	08/22/13
		m,p-Xylene	66		10 да		08/16/13	08/22/13
		o-Xylene	160		10 με		08/16/13	08/22/13
		Naphthalene	12		10 με		08/16/13	08/22/13
		raphunatene	360		80 µg	yrkg	08/16/13	08/22/13



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Gasoline Range Organics (GRO) C4-C13

V = Reporting Limits were increased due to high concentrations of target analytes.

Sample results were calculated on a wet weight basis.

ND = Not Detected

Reported in micrograms per Kilogram, per client request.

ACLASS

Roger Scholl Ka

toger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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8/23/13

Report Date



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Date: 23-Aug-13	Q	C Sumi	Work Order: 13081641				
Method Blank	7	ype: MBLK	Test Code: EPA Me	thod SW82	70C		
File ID: 13082207.D			Batch ID: 31481		Analysis Date:	08/22/2013 17:48	
Sample ID: MBLK-31481	Units : µg/Kg	Run	ID: MSD 16 130815A		Prep Date:	08/15/2013 12:42	
Analyte			okVal SpkRefVal %RE	C. I.C.L(ME)	•		Qual
Phenol			DKVAI OPKITEIVAI /6112	C LOL(IVIL)	OCL(WIL) IV DIVE	vai 767(1 D(Liitiit)	- Quai
2-Chlorophenol	ND ND	660					
Bis(2-chloroethyl)ether	ND ND	660 660					
1.3-Dichlorobenzene	ND	1300					
1,4-Dichlorobenzene	ND	1300					
1,2-Dichlorobenzene	ND	1300					
Bis(2-chloroisopropyl)ether	ND	660					
N-Nitrosodi-n-propylamine	ND	660					
Hexachloroethane	ND	1300				•	
Nitrobenzene	ND	660					
sophorone	ND	660					
2-Nitrophenol	ND	660					
2,4-Dimethylphenol	ND	660					
Bis(2-chloroethoxy)methane	ND	660					
2,4-Dichlorophenol	ND	660					
1,2,4-Trichlorobenzene	ND	660		,			
Naphthalene	ND	660					
4-Chloro-3-methylphenol	ND	1300	•				
Hexachlorobutadiene Hexachlorocyclopentadiene	ND	1300					
2,4,6-Trichlorophenol	ND	6600					
2-Chloronaphthalene	ND ND	660 660					
Dimethyl phthalate	ND	660					
Acenaphthylene	ND	660					
2,6-Dinitrotoluene	ND	660					
Acenaphthene	ND	660					
2,4-Dinitrophenol	ND	6600					
4-Nitrophenol	ND	3300					
2,4-Dinitrotoluene	ND	660					
Diethyl phthalate	ND	660					
Fluorene	ND	660					
4-Chlorophenyl phenyl ether	ND	660					
4,6-Dinitro-2-methylphenol	ND	6600					
N-Nitrosodiphenylamine	ND	660					
4-Bromophenyl phenyl ether	ND	660					
Hexachlorobenzene	ND	660					
Pentachlorophenol Phenanthrene	ND	3300					
Anthracene	ND ND	660 660					
Di-n-butyl phthalate	ND	3300					
Fluoranthene	ND	660					
Pyrene	ND	660					
Butyl benzyl phthalate	ND	1300					
Benzo(a)anthracene	ND	660					
3,3'-Dichlorobenzidine	ND	1300					
Chrysene	ND	660					
Bis(2-ethylhexyl)phthalate	ND	3300					
Di-n-octyl phthalate	ND	3300					
Benzo(b)fluoranthene	ND	660					
Benzo(k)fluoranthene	ND	660					
Benzo(a)pyrene	ND	660					
Indeno(1,2,3-cd)pyrene	ND ND	660					
Dibenz(a,h)anthracene Benzo(g,h,i)perylene	ND ND	660 660					
Surr: 2-Fluorophenol	11400		12500 91	60	143		
Surr: Phenol-d5	10000		12500 80		148		
Surr: Nitrobenzene-d5	5060		6250 81		131		
Surr: 2-Fluorobiphenyl	5330		6250 85		130		
Surr: 2,4,6-Tribromophenol	7020		12500 56		154		
Surr: 4-Terphenyl-d14	2490		6250 40		145		S54



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 23-Aug-13	QC Summary Report						Work Order: 13081641			
Laboratory Control Spike		Type: L0	S Te	est Code: EP	A Met	hod SW82	70C			
File ID: 13082208.D			Ba	atch ID: 31481	ı		Analys	is Date:	08/22/2013 18:13	
Sample ID: LCS-31481	Units : µg/Kg		Run ID: MS	SD_16_13081	5A		Prep D	ate:	08/15/2013 12:42	
Analyte	Result	PQL				LCL(ME)	-		/al %RPD(Limit)	Qu
Phenol				Ophritor var 7				W DITON	vai 7011 D(Ellisty	Qui
2-Chlorophenol	5100 5030	660 660	6250 6250		82 80	45 66	130 . 130			
1.4-Dichlorobenzene	4130	1300	6250		66	59	130			
N-Nitrosodi-n-propylamine	4380	660	6250		70	52	136			
1,2,4-Trichlorobenzene	3240	660	6250		52	46	130			
4-Chloro-3-methylphenol	4160	1300	6250		67	49	130			
Acenaphthene	4090	660	6250		65	57	130			
4-Nitrophenol	14400	3300	25000		57	13	142			
2,4-Dinitrotoluene	3370	660	6250		54	50	136 ⁻	•		
Pentachlorophenol	15500 ·	3300	25000		62	24	138			
Pyrene	3690	660	6250		59	38	141			
Surr: 2-Fluorophenol Surr: Phenol-d5	11200		12500		90	60	143			
Surr: Nitrobenzene-d5	10500 3740		12500		84	56	148			
Surr: 2-Fluorobiphenyl	5210		6250 6250		60 83	48 53	131 130			
Surr: 2,4,6-Tribromophenol	8190		12500		66	.44	154			
Surr: 4-Terphenyl-d14	2840		6250		45	42	145			
Sample Matrix Spike		Type: M		est Code: EP						_
File ID: 13082214.D		•		atch ID: 3148				is Date:	08/22/2013 20:45	
Sample ID: 13081641-01AMS	Units : μg/Kg			SD_16_13081			Prep D		08/15/2013 12:42	
Analyte	Result	PQL						RPDRef\	Val %RPD(Limit)	Qu
Phenol	4880	660	6250	0	78	28	132			
2-Chlorophenol 1,4-Dichlorobenzene	4750	660	6250	0	76	32	143			
N-Nitrosodi-n-propylamine	4130 4300	1300	6250	0	66	40	130			
1,2,4-Trichlorobenzene	3160	660 660	6250 6250	0	69 51	43 28	145 136			
4-Chloro-3-methylphenol	4160	1300	6250	0	67	26 15	144			
Acenaphthene	4160	660	6250	0	67	27	140			
1-Nitrophenol	9020	3300	25000	Ö	36	5	142			
2,4-Dinitrotoluene	3120	660	6250	0	50	23	151			
Pentachlorophenol	5940	3300	25000	0	24	5	140			
Pyrene	3230	660	6250	0	52	29	145			
Surr: 2-Fluorophenol	10300		12500		82	60	143			
Surr: Phenol-d5	9830		12500		79	56	148			
Surr: Nitrobenzene-d5 Surr: 2-Fluorobiphenyl	3620		6250		58	48	131			
Surr: 2,4,6-Tribromophenol	5130 7350		6250		82	53	130			
Surr: 4-Terphenyl-d14	7250 2500		12500 6250		58 40	44 42	154 145			S5
	2300	Tunna M		C ED				-		
Sample Matrix Spike Duplicate File ID: 13082215.D	Type: MSD Test Code: EPA Method SW8270C Batch ID: 31481 Analysis Date: 08/22/2013 21:1									
Sample ID: 13081641-01AMSD	Units : µg/K	n		SD_16_1308 ⁴			Prep D		08/15/2013 12:42	
Analyte	Result	PQL		_		LCL(ME)	•		Val %RPD(Limit)	Qu
Phenol	4850	660	6250	0	78	28	132	4884		
2-Chlorophenol	4600	660	6250	Ö	74	32	143	4752		
1,4-Dichlorobenzene	4050	1300	6250	0	65	40	130	4135		
N-Nitrosodi-n-propylamine	4370	660	6250	0	70	43	145	4296	6 1.8(21)	
1,2,4-Trichlorobenzene	3140	660	6250	0	50	28	136	3158		
4-Chloro-3-methylphenol	4090	1300	6250	0	65	15	144	4161		
Acenaphthene	4150	660	6250	0	66	27	140	4164		
4-Nitrophenol 2,4-Dinitrotoluene	9800	3300	25000	0	39	5	142	9019		
2,4-Dinitrotoluene Pentachlorophenol	2940 6880	660 3300	6250	0	47 28	23	151	3121		
Pyrene	3370	660	25000 6250	0	28 54	5 29	140 145	5944 3229		
Surr: 2-Fluorophenol	9800	000	12500	U	78	60	143	3228	7.3(23)	
Surr: Phenol-d5	9490		12500		76	56	148			
Surr: Nitrobenzene-d5	3590		6250		57	48	131			
Surr: 2-Fluorobiphenyl	5140		6250		82	53	130			
Surr: 2,4,6-Tribromophenol	6860		12500		55	44	154			
Surr: 4-Terphenyl-d14	2510		6250		40	42	145			S5



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 23-Aug-13

QC Summary Report

Work Order: 13081641

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

S54 = Surrogate recovery was below laboratory acceptance limits.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

08/22/2013 12:09 08/22/2013 12:09 ol %RPD(Limit)	
8/22/2013 12:09	
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8/22/2013 14:37	
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8/22/2013 15:01	
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08/22/2013 15:26	
al %RPD(Limit)	Qual
0.5(40)	
	8/22/2013 14:37 I %RPD(Limit) 8/22/2013 15:01 8/22/2013 15:01 I %RPD(Limit) 98/22/2013 15:26 98/22/2013 15:26

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per Kilogram, per client request.



Alpha Analytical, Inc.

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Date: 23-Aug-13	Ç	C Su	ımmary	Repor	t				Work Orde 13081641	
Method Blank		Туре: М	BLK Te	st Code: El	A Met	hod SW82	260B			
File ID: 13082206.D			Ba	tch ID: MS0	8\$148	8A	Analys	sis Date:	08/22/2013 12:09	
Sample ID: MBLK MS08S1488A	Units : µg/Kg		Run ID: MS	SD_08_1308	322A		Prep C	Date:	08/22/2013 12:09	
Analyte	Result	PQL				LCL(ME)	UCL(ME)		al %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	500		•						
Methyl tert-butyl ether (MTBE)	ND	5								
Benzene	ND	5								
Toluene	ND	5								
Ethylbenzene m,p-Xylene	ND	5								
o-Xylene	ND ND	5 5					•			
Naphthalene	ND	40								
Surr: 1,2-Dichloroethane-d4	207	,,	200		104	70	130			
Surr: Toluene-d8	194		200		97	70	130			
Surr: 4-Bromofluorobenzene	205		200		102	70	130			
Laboratory Control Spike		Type: L (CS Te	est Code: El	PA Met	hod SW82	60B	· · · · ·		
File ID: 13082208.D				tch ID: MS		8A	Analys	sis Date:	08/22/2013 12:59	
Sample ID: LCS MS08S1488A	Units : µg/Kg	l	Run ID: MS	SD_08_1308	322A		Prep D	Date:	08/22/2013 12:59	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefV	'al %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	363	10	400		91	65	145			
Benzene	394	10	400		98	70	137			
Toluene Ethylbenzene	416	10	400		104	70	139			
m,p-Xylene	387 395	10	400		97	70 70	137			
o-Xylene	387	10 10	400 400		99 97	70 70	145 145		• *	
Surr: 1,2-Dichloroethane-d4	414	10	400		103	70	130			
Surr: Toluene-d8	350		400		88	70	130			
Surr: 4-Bromofluorobenzene	437		400		109	70	130			
Sample Matrix Spike		Type: M	S Te	est Code: El	PA Met	hod SW82	260B			
File ID: 13082209.D			Ba	atch ID: MS()8 S 148	8A	Analys	sis Date:	08/22/2013 13:47	
Sample ID: 13081641-01AMS	Units : µg/Kg	I	Run ID: MS	SD_08_130	822A		Prep [Date:	08/22/2013 13:47	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\/	/al %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	324	10	400	0	81	45	155			
Benzene	346	10	400	0	87	52	151			
Toluene	365	10	400	. 0	91	47	154			
Ethylbenzene m,p-Xylene	343	10	400	0	86	52	154			
o-Xylene	349 344	10 10	400 400	0	87 86	51 52	162 162			
Surr: 1,2-Dichloroethane-d4	418	10	400	U	105	70	130			
Surr: Toluene-d8	348		400		87	70	130	,		
Surr: 4-Bromofluorobenzene	442		400		110	70	130			
Sample Matrix Spike Duplicate		Туре: М	SD To	est Code: El	PA Met	hod SW82	260B			
File ID: 13082210.D				atch ID: MS		8 A	Analys	sis Date:	08/22/2013 14:11	
Sample ID: 13081641-01AMSD	Units : µg/Kg	J		SD_08_130			Prep [08/22/2013 14:11	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al_%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	292	10	400	0	73	45	155	324.3	10.5(32)	
Benzene	323	10		0	81	52	151	346.2		
Toluene	346	10		0	86	47	154	364.5		
Ethylbenzene	323	10		0	81	52	154	342.5		
m,p-Xylene o-Xylene	333 321	10 10		0	83 80	51 52	162	348.7		
Surr: 1,2-Dichloroethane-d4	403	10	400 400	U	101	52 70	162 130	343.6	6.7(40)	
Surr: Toluene-d8	351		400		88	70 70	130			
Surr: 4-Bromofluorobenzene	451		400		113	70	130			



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 23-Aug-13

QC Summary Report

Work Order: 13081641

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Billing Information:

Client:

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406

Report Attention Phone Number EMail Address

Stratus Environmental Scott Bittinger (530) 676-2062 x sbittinger@stratusinc.net

Cameron Park, CA 95682-8861

PO:

Suite 550

 Cooler Temp

EDD Required: Yes

Sampled by: Client

Samples Received 16-Aug-13

WorkOrder: STR13081641

Report Due By: 5:00 PM On: 23-Aug-13

Date Printed 16-Aug-13

Page: 1 of 2

QC Level: S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

			_				Req	uested Tests		-	
Alpha	Client	Collection	No. of Bottles	3	BNA_S	TPH/P_S	voc_s				
Sample ID	Sample ID	Matrix Date	Alpha Sub	TAT			1		<u> </u>	1	Sample Remarks
STR13081641-01A	AB-1-5	SO 08/15/13 09:00	1 0	5	8270	GAS-C	BTXE/MTBE /TBA/NAPH _C				
STR13081641-02A	AB-1-10	SO 08/15/13 09:06	1 0	5	8270	GAS-C	BTXE/MTBE /TBA/NAPH _C				
STR13081641-03A	AB-1-25	SO 08/15/13 09:21	1 0	5		GAS-C	BTXE/MTBE /TBA/NAPH _C				
STR13081641-04A	AB-1-30	SO 08/15/13 09:25	1 0	5		GAS-C	BTXE/MTBE /TBA/NAPH C				
STR13081641-05A	AB-1-35	SO 08/15/13 09:32	1 0	5		GAS-C	BTXE/MTBE /TBA/NAPH _C				
STR13081641-06A	AB-1-40	SO 08/15/13 09:44	1 0	5		GAS-C	BTXE/MTBE /TBA/NAPH _C				
STR13081641-07A	AB-1-44	SO 08/15/13 09:48	1 0	5		GAS-C	BTXE/MTBE /TBA/NAPH _C				
STR13081641-08A	AB-2-5	SO 08/15/13 10:30	1 0	5	8270	GAS-C	BTXE/MTBE /TBA/NAPH				

-						
C	^	201	m	22	fe	٠

Security seals intact. Frozen ice. Samples AB-1-15, AB-1-20, AB-2-15, and AB-2-20 received with sample set & disposed by lab, per email from Allan 8/16/13. Samples -01A through -12A sampling dateadded to the COC and logged in per container labels.: 8270 full list confirmed by email from Allan 8/16/13.

	Signature	Print Name	Company	Date/Time
Logged in by:		- Swall Nen	Alpha Analytical, Inc.	8/16/13 1055

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information:

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406

EMail Address

sbittinger@stratusinc.net

Phone Number

(530) 676-2062 x

WorkOrder: STR13081641

Page: 2 of 2

Report Due By: 5:00 PM On: 23-Aug-13

Client:

Stratus Environmental 3330 Cameron Park Drive Suite 550

Cameron Park, CA 95682-8861

EDD Required: Yes

Sampled by: Client

PO:

Client's COC #: 13692, 13693

Job: B&C Gas

Report Attention

Scott Bittinger

Cooler Temp 2°C

Samples Received 16-Aug-13

Date Printed 16-Aug-13

QC Level: S3

= Final Rpt, MBLK, LCS, MS/MSD With Surrogates

				Re				Requ	Requested Tests					
Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Alpha			BNA_S	TPH/P_S	voc_s					Sample Remarks	
STR13081641-09A	AB-2-10	SO 08/15/13 10:34	1	0	5	8270	GAS-C	BTXE/MTBE /TBA/NAPH C						
STR13081641-10A	AB-2-25	SO 08/15/13 10:48	1	0	5		GAS-C	BTXE/MTBE /TBA/NAPH _C						
STR13081641-11A	AB-2-30	SO 08/15/13 10:51	1	0	5		GAS-C	BTXE/MTBE /TBA/NAPH _C						
STR13081641-12A	AB-2-35	SO 08/15/13 10:55	1	0	5		GAS-C	BTXE/MTBE /TBA/NAPH _C						
STR13081641-13A	AB-2-40	SO 08/15/13 11:03	1	0	5		GAS-C	BTXE/MTBE /TBA/NAPH _C						
STR13081641-14A	AB-2-44	SO 08/15/13 11:08	1	0	5		GAS-C	BTXE/MTBE /TBA/NAPH						

_				
\boldsymbol{c}	. PTT	222	an	ts:

Security seals intact. Frozen ice. Samples AB-1-15, AB-1-20, AB-2-15, and AB-2-20 received with sample set & disposed by lab, per email from Allan 8/16/13. Samples -01A through -12A sampling dateadded to the COC and logged in per container labels.: 8270 full list confirmed by email from Allan 8/16/13.

	Signature	Print Name	Company	Date/Time
Logged in by:		Samue Non	Alpha Analytical, Inc.	8/14/13 1055

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)

Company: Attn. Address: City, State, Zip: Phone Number:	Billing Information: Strufus En U. Fax:	Analytica,	No.	orthern CA: Southern N	Sate 9891 Horn /: 6255 Mc	Glendale / liite Serv Road, Sui Leod Ave,	ytical, Inc. Ave, Suite 21 ice Center te C, Rancho Suite 24, La : St., Suite O,	l Sparks, h rs: c Cordova, ss Vegas, l	, CA 95827 NV 89120		Fax: Phone: Phone:	775-355- 775-355- 918-368- 702-281- 714-388-	0406 9089 4848		13	692 1 .	2
Company: Address: City, State, Zip:	Consultant Client Info: B+C (SEL) 2008 (EE S.F. Liver mare, C.A. ad from which State? (circle one) AZ CA	Job and Purchase Or Job # Job Name: B+C Ca3 P.O. #:	der Info:	-	Name: Email Add Phone #: Cell #:		tention/Pro	oject Ma	nager:			Global ID	uired?	/ No		OF Required	
Time Date Sampled Sample (IHHMM) (IMMOD O900) 8 5 0906 5 0931 5944 5148 5030 5944 5048 5051 5055 5051 5055 5051 5055 5051 5055 5051 5055 5051 5055 5051 5055 5051 5055 5051 5055 5051 5055 5051 5055 5051 5055 5051 5055 5051 5055 5051 5055 5051 5055 5051	d Matrix* d (See Key Below) Lab ID Number (For Lab Use Only)	Sample Description AB-1-5 AB-1-30 AB-1-35 AB-1-35 AB-1-40 AB-1-40 AB-2-5 AB-2-5 AB-2-10 AB-2-25	TAT Std	Containers" (See Key Below)	K GRO 8015	Ath Ath Show	X NaphHale	XXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Analysis Requ	ested						Remarks	
Sampled By: Relinquished by: (S Relinquished by: (S	itest to the validity and authenticity of this samp interpre/Affiliation): ignature/Affiliation):	Date: Time: Date: Time:	Received	by: (Signat by: (Signat by: (Signat	ure/Affiliat Lure/Affiliati	on): OW/ on):	of collection	la consid	ered fraud and r	nay be gr	rounds for		Date:	145.0638 (1 1512 W/15	7 Time	°405	,

* Key: AQ - Aqueous WA - Waste OT - Other **: L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Company: Attn: Address: City, State, Zip: Phone Number:	Billing Information:		Analytical in the state of the	Northern CA Southern N	Satellite Ser : 9891 Horn Road, Si V: 6255 McLaod Ave	alytical, Inc. Ave, Suite 21 Sparke vice Centers: uite C, Rancho Cordo , Suite 24, Las Vegal zz St., Suite O, Carso	va, ÇA 95827 s, NV 89120	Phone: 5	775-355-1044 775-355-0408 918-388-9089 702-281-4848 714-388-2901	13693 Page# 1 of 2
Company: Address: City, State, Zip: Samples Collecte	Consultant/ Cilent Info: BKC Gas ZOUN 12 54. Live mark	Job # Job Name: P.O. #:	St. Cas		Report A Name: Email Address: Phone #: Cell #:	Attention/Project	Aanager: ¬`N ⊊D ✔	(QA-Delive EDD Required? (es) No Global ID: Data Velidation Level:	erable Info: EDF Required? Yea /
Time Date Sampled (IHMMD IIIO) 8//5) Below) Lab ID Number (For Lab Use Only)	Sample Desc A8-ユーゼロ A8-ユーゼ4		Field Fiterod?	XX GRO (8018) XX BTEX, ATBE, TAA (8160)		Analysis Requests	id .		Remarks
Sampled By:	tteat to the validity and authenticity of this samp		Time:	beling the sample ic		of collection is cons	ridered fraud and may	be grounds for k	egal action. NAC 445.0636 Date:	5 (c) (2).
	ll); iigneture/Affiliation): 	Date: Date:	1405 Time:	Received by: (Signa	ture/Affitiation):		Alpha	J	Qate:	3 1405 3 Time: 0953

* Key: AQ - Aqueous WA - Waste OT - Other **: L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples

received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

APPENDIX D

GEOTRACKER DATA UPLOAD CONFIRMATION SHEETS

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_BORE FILE

SUCCESS

Your GEO_BORE file has been successfully submitted!

Submittal Type:

GEO_BORE

Facility Global ID:

T0600100930

Field Point:

AB-1

Facility Name:

DESERT PETROLEUM #795

File Name:

SKMBT_C35313082209180.pdf

Organization Name:

Stratus Environmental, Inc.

<u>Username:</u>

STRATUS NOCAL 50.192.223.97

IP Address:
Submittal Date/Time:

8/22/2013 9:30:02 AM

Confirmation Number:

3949064135

Copyright © 2013 State of California

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_BORE FILE

SUCCESS

Your GEO_BORE file has been successfully submitted!

Submittal Type: GEO_BORE

Facility Global ID: T0600100930

Field Point: AB-2

Facility Name: DESERT PETROLEUM #795
File Name: SKMBT_C35313082209181.pdf

Organization Name: Stratus Environmental, Inc.
Username: STRATUS NOCAL

Username: STRATUS NOCAL IP Address: 50.192.223.97

Submittal Date/Time: 8/22/2013 9:30:56 AM

Confirmation Number: 9465854704

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STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found! Your file has been successfully submitted!

Submittal Type:

EDF

Report Title:

Subsurface Site Assessment Report

Report Type:

Site Investigation

Facility Global ID:

T0600100930

Facility Name:

DESERT PETROLEUM #795

File Name:

13081641 EDF.zip

Organization Name:

Stratus Environmental, Inc.

<u>Username:</u>

STRATUS NOCAL

IP Address:

50.192.223.97

Submittal Date/Time:

8/30/2013 1:31:38 PM

Confirmation Number:

1127245068

VIEW QC REPORT

VIEW DETECTIONS REPORT

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APPENDIX E

JULY 1996 COMPLIANCE SOIL SAMPLE RESULTS AND MAP

FACSIMILE COVER SHEET

DATE: 7/24/96

TO: Eva Chu

COMPANY: ACHA

Fax No. 510 337-9335

From: Robert Mallory Phone/Fax No. 510 658-6872

Eva,

Soil sample analytical results and site plan of UST and product piping sampling at B&C Gas Mini Mart, 2008 First Street, Livermore, CA. Also included are the soil stockpile results (I believe this will be hauled away). I'm sure we'll be discussing these again soon. Please call if you have questions or comments at (510) 658-6872.

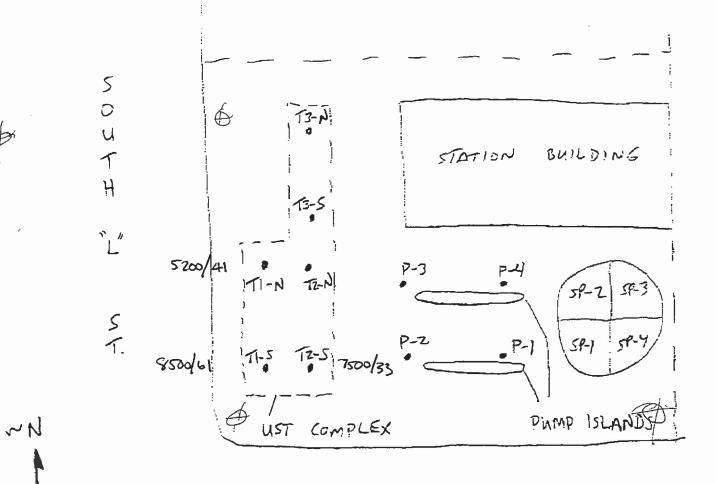
7/25/96 - Overestante pit to ordent
possible without shoring . Try
to excavale to bengene conc
< 10 ppm.

Sincerely,

Mach C mally

total pages including cover sheet

enclosed are:



FIRST

5T.

Soil andusis

Ppm TPHq/benzene @141 bg

B+C GAS MINI MAKT 2008 FIRST ST. LIVERMONE, CA.

TABLE A

Gasoline UST and Product Piping Sampling Summary B&C Gas Mini Mart

2008 1st Street, Livermore, California

Results in mg/Kg - parts per million (ppm)

Gasoline UST and Product Piping Sampling Results

Sample ID	Depth (ft)	Laboratory	Date	TPH-Gasoline	Beazene	Toluene	Etinylpenzene	Xylenes	MIBE Tota	Lead
T1-S-14,0	14	Analytical Science	18-Jul-56	8500	<u>6</u> 1	250	75	380	30	
T1-N-14.0	14	Analytical Science	18-Jul-66	5200	44	92	46	260	46	
T2-S-14.0	14	Analytical Science	18-Jul- 8 6	7530	3 3	253	190	400	96	
T2-N-14.0	14	Analytical Science	18-Jul-96	270	0 27	0.43	C.39	2.2	€.6	
T3-S-13.5	13.5	Analytical Science	96-الاي-86	ND	NE	ND	ND	ND	0.24	
T3-N-13.5	13.5	Analytical Science	18-Jul- 9 6	52	1.9	1.5	ND	28	36	
P-1-3.0	3	Analytical Science	18-Jul-96	ND	ND	0.013	ND	0.017	0.012	
P-2-3.5	3.5	Analytical Science	18-Jul-95	ND	CM	ND	ND	ND	0.17	
.P-3-3.5	3.5	Analytical Science	18-Jul-95	ND	СИ	ND	NO	ND	0.015	
P-4-3.0	3	Analytical Science	18-Jul-96	ND	ND	ND	ND	ND	ND	

TPH-Gasoline = Total Petroleum Hydrocarbons calculated as Gasoline.

MTBE = Methyl t-Butyl Ether.

ND = Not detected at or above faboratory detection limits.

TABLE B

Soil Stockpile Sampling Summary B&C Gas Mini Mart

2008 1st Street, Livermore, California

Results in mg/Kg - parts per million (ppm)

UST Excavation and Product Piping Soil Stockpile Sampling Results

Sample ID	Laboratory	Qate.	TPH-Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes To	hai Lead
SP-1(A-D)	Analytical Science	18-Jul-96	320	СЛ	ND	1.5	3.3	
SP-2(A-D)	Analytical Science	18-Jul-96	300	GM	ND	ND	6.9	-
SP-3(A-D)	Analytical Science	18-Jul-96	130	ND	ND	ND	1.2	
SP-4(A-D)	Analytical Science	16-Jul-96	130	ND	ND	ND	0.90	

TPH-Gasoline = Total Petroleum Hydrocarbons calculated as Gasoline.

NO = Not detected at or above to constany detection firmits.