Mr. Paresh Khatri
Alameda County
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

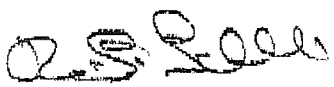
Re: Foothill Mini Mart, 6600 Foothill Boulevard, Oakland, California
(ACEHS Case No. RO0000175)

Dear Mr. Khatri:

Stratus Environmental, Inc. (Stratus) has recently prepared an *In-Situ Chemical Oxidation Remediation Pilot Test Report* on my behalf. The report was prepared in regards to Alameda County Fuel Leak Case No. RO0000175, located at 6600 Foothill Boulevard, Oakland, 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,



Ravi Sekhon

STRATUS
ENVIRONMENTAL, INC.

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

September 23, 2011
Project No. 2087-6600-01

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

Re: In-Situ Chemical Oxidation
Remediation Pilot Test Report
Foothill Mini Mart
6600 Foothill Boulevard
Oakland, California

Dear Mr. Khatri:

Stratus Environmental, Inc. (Stratus) has prepared this document, on behalf of Mr. Ravi Sekhon, for the Foothill Mini Mart (the Site), located at 6600 Foothill Boulevard, Oakland, California (the Site, see Figures 1 and 2). Subsurface petroleum hydrocarbon impact to soil and groundwater has previously been identified in the vicinity of the site. In order to mitigate this condition, Stratus proposed, at the request of Alameda County Environmental Health Department (ACEHD) to conduct remediation pilot testing using in-situ chemical oxidation (ISCO) and dual phase extraction (DPE) technology. The pilot testing scope of work proposed by Stratus was subsequently approved by ACEHD, with comments, in a letter dated February 10, 2011. In late April 2011, Stratus implemented the DPE pilot test at the site and a report documenting this work was prepared and submitted to ACEHD on July 14, 2011.

In May and June 2011, Stratus completed the ISCO pilot test, which consisted of injecting ozone and hydrogen peroxide into the shallow saturated interval at the site for a period of approximately 33 days. During the test, geochemical parameters of shallow groundwater were monitored and samples of the groundwater were collected before, during, and after testing in order to assess the effectiveness of these remedial efforts. This report presents a description of the pilot test procedures, data and field measurements collected during the test, and an evaluation of the effectiveness and applicability of ozone/hydrogen peroxide injection for mitigation of fuel contaminants within the shallow saturated interval at the site.

SITE DESCRIPTION

The subject site is an active retail fueling station located at the northeast corner of the intersection of Havenscourt Boulevard and Foothill Boulevard in the city of Oakland. The property is situated in a mixed residential and commercial neighborhood. The station (now Golden Gasoline) dispenses fuel from two pump islands which contain two dispensers on each island. The general layout of the site is depicted on Figure 2. Service stations have operated on the subject property since approximately 1959, under Beacon, ARCO, and Shell branding. Mr. Sekhon purchased the service station from Beacon in 1998.

The property is situated on the East Bay Plain, immediately west of the Oakland Hills and approximately 2 miles east of San Francisco/San Leandro Bay. The service station is located roughly 60 feet above mean sea level (MSL). Residential buildings are located north of the site, a vacant building occupies the property to the east, and a vacant lot is present south of the site.

A service station formerly operated on the vacant lot situated south of the site, across Foothill Boulevard (6601 Foothill Boulevard). This property is not currently in the ACEHD oversight program; however, analytical data from a soil sample collected in the western portion of this property suggest that a fuel leak could have historically occurred on this property. Additional data would be needed to confirm or deny that a fuel leak occurred at 6601 Foothill Boulevard.

SITE BACKGROUND

Historical Site Assessment Activities

This information, regarding environmental activities performed to date at the site, is summarized from documents uploaded to the State of California's GeoTracker Database; these reports were prepared by consultants previously representing Mr. Sekhon (Advanced Assessment and Remediation Services [AARS] and Environmental Risk Specialties Corporation [ERS]).

A suspected fuel leakage was discovered in November 1998, at the time of removal of an 8,000-gallon steel underground storage tank (UST) and upgrading of the fuel storage and delivery system. The following summarizes site characterization work activities that have been completed since removal and replacement of the former USTs and fuel delivery equipment:

- Compliance sampling of soil and groundwater was completed in December 1998. A sheen was observed on the groundwater situated within the cavity of the 8,000-gallon UST at this time. Prior to backfilling of this UST pit, batch

extraction of groundwater was performed. Soil generated during construction work was hauled offsite for proper disposal.

- AARS directed the installation of three groundwater monitoring wells (MW-1 through MW-3) in June 2001.
- AARS oversaw the completion of three additional monitoring wells (MW-4 through MW-6), and two exploratory soil borings (SB-1 and SB-2) in June 2002.
- Intermittent groundwater monitoring and sampling was performed between 2001 and 2010 (14 total sampling events).
- An additional subsurface investigation, which consisted of advancing twelve additional exploratory soil borings (SB-3 through SB-14) was conducted in August 2005.
- A sensitive receptor survey and preferential pathway study was performed by ERS in 2008.
- ERS oversaw the installation of 8 additional groundwater monitoring wells (MW-5B, MW-6B, MW-7, MW-10, MW-11, MW-12A, MW-12B, and MW-13A) and advancement of 10 soil borings (SB-15 through SB-17, SMW-13, USB-2, USB-5, USB-7, USB-8, USB-10, and USB-11) in September 2009. This project included an assessment of the lateral and vertical extent of contaminant distribution in the subsurface, and an evaluation of contaminant migration within underground utility corridors.
- In April 2011, Stratus directed the installation of an extraction well (EX-1), two nested injection wells (IW-1 A/B and IW-2 A/B), and two soil vapor monitoring wells (SGW-1 and SGW-2) for use during remediation pilot testing.
- Between April 26 and 28, 2011, a DPE pilot test was performed.
- Groundwater monitoring and sampling at the site is being completed on an ongoing basis; currently, Stratus is collecting samples from each of the site monitoring wells on a semi-annual basis.

Table 1 presents available information regarding the construction of the site monitoring and remediation wells.

Site Geology and Hydrogeology

Soil conditions beneath the site consist of heterogeneous mixtures of fine grained soils (silt/clay mixtures) and coarser grained soils (silty sand, sand, clayey gravel, sandy gravel, and gravel) from surface grade to approximately 50 feet below ground surface (bgs), the maximum depth explored beneath the site. In most of the boreholes, one to two intervals of coarser grained soils, typically about 2 to 5 feet in thickness, were logged between the depths of about 4 to 20 feet bgs. These coarser grained soil strata are typically saturated, and it is likely that lateral migration of contaminants within the subsurface (discussed in more detail below) occur within the coarser grained soils at these depths.

Below approximately 20 feet bgs, fine grained soils were predominately noted, although silty sand and clayey gravel were also encountered. In particular, offsite well MW-12B appears to be screened within the more permeable coarse grained soil. Based on the relatively low levels of contaminants reported in samples collected from 3 wells screened below first encountered groundwater (MW-5B, MW-6B, and MW-12B, discussed below) relative to concentrations of contaminants within first encountered groundwater, it appears as though soils between the uppermost water bearing strata and the screening interval of the 3 deeper monitoring wells are of sufficiently low permeability to retard vertical migration of contaminants at the site. Bedrock was not encountered in the upper 50 feet of the subsurface.

Between 2001 and 2010, groundwater levels fluctuated between approximately 6.5 and 11 feet bgs in onsite wells MW-1 through MW-3. Seasonal water level fluctuations of about 2 feet in the wells are typical. In 2002 and 2003, groundwater elevation contour maps that were available to Stratus generally depict southeast and south groundwater flow, and based on the distribution of contaminants in the subsurface (discussed below), site contaminants appear to be migrating towards the southeast and south in the saturated zone. Since 2004, significantly variable groundwater flow directions have been reported, using updated surveying data collected following site assessment work near this time. The apparent discrepancy between the groundwater flow directions calculated since 2004, and the noticeable orientation of the plume of groundwater contaminants in the south-southeast direction, has not been resolved. A groundwater elevation contour map that was prepared using groundwater elevations measured during the second quarter 2011 is presented as Figure 3.

Petroleum Hydrocarbon Impact to Soil

Gasoline range organics (GRO), benzene, toluene, ethylbenzene, and xylenes (BTEX constituents), methyl tertiary butyl ether (MTBE), and tertiary butyl alcohol (TBA) have been detected in soil samples collected in the site vicinity. The highest concentrations of contaminants in soil appear to be present between approximately 7.5 and 10 feet bgs. Onsite, the highest concentrations of petroleum hydrocarbons and MTBE appear to be situated immediately south and southeast of the former UST complex. GRO was reported at concentrations of 410 milligrams per kilogram (mg/Kg) and 73 mg/Kg in samples collected from onsite borings SB-16 and SB-17, respectively, in September 2009. Soil contamination offsite extends predominately in the southeast direction, and to a lesser extent to the south of the site. The highest concentrations of GRO offsite have been reported in samples collected from the two borings located furthest away from the site in the southeast direction (borings SMW-13 and MW-13A, GRO at levels of 170 mg/Kg and 800 mg/Kg, respectively). Concentrations of petroleum hydrocarbons and fuel oxygenates in soil do not appear to consistently decrease with distance from the

source(s) of the fuel leak; instead, contaminants appear irregularly distributed in areas where shallow groundwater has provided a transport mechanism for these contaminants. Petroleum hydrocarbons and fuel oxygenates are likely adsorbed to soil particles located within, and adjacent to, soils of elevated permeability, situated near the water table interface. These soils of elevated permeability appear to include both natural material and fill that has been placed around municipal water piping buried beneath the Foothill Boulevard roadway.

GRO was reported in a soil sample collected from offsite boring SB-4 at 11 feet bgs (4.7 mg/Kg). ERS (who collected this sample) has indicated their belief that the reported contaminants at boring SB-4 originated from a fuel leak at the former 6601 Foothill Boulevard service station. No soil samples from the vadose zone of boring SB-4 were submitted for chemical analysis, and thus, given the available data set, Stratus is unable to definitively determine whether or not a separate fuel contamination source originating from 6601 Foothill Boulevard exists. Further subsurface investigation work at this vacant lot would be useful in evaluating whether or not a fuel release has occurred in this area, in particular, submittal of vadose zone soil samples for chemical analysis.

Petroleum Hydrocarbon Impact to Groundwater

GRO, BTEX, MTBE, and TBA have been detected in groundwater in the site vicinity. Figures 4 through 7 illustrate the approximate extent of GRO, benzene, MTBE, and TBA impact to shallow groundwater, respectively, using data collected from the site's shallow monitoring well network during the second quarter 2011. Figure 8 summarizes groundwater contaminant concentrations in three monitoring wells screened below the uppermost water bearing interval from the second quarter 2011 samples.

The highest concentrations of contaminants in groundwater are generally present southeast of the former UST pit, near wells MW-2, MW-4, and MW-6. At the time of the most recent well sampling event, performed during the second quarter 2011, GRO, benzene, MTBE, and TBA were detected at maximum concentrations of 5,500 micrograms per liter (µg/L), 54 µg/L, 730 µg/L, and 6,700 µg/L, respectively. Given the layout of the site, with the former UST pit situated in the southeastern portion of the subject property, most of the dissolved petroleum hydrocarbon and fuel oxygenate mass appears to be situated offsite. GRO, MTBE, and TBA impact a relatively large area, with each plume extending at least 200 feet offsite in the southeast direction.

During a subsurface investigation performed in September 2009, grab groundwater samples were collected from 5 hand-augered soil borings (USB-5, USB-7, USB-8, USB-10, and USB-11) located along the northern portion of the Foothill Boulevard right-of-way. Each boring was located near an underground utility corridor containing a water main. The samples were collected from depths ranging from about 7 to 8 feet bgs.

GRO and TBA were detected in each groundwater sample, at concentrations ranging from 3,700 µg/L to 81,000 µg/L and 16 µg/L to 95 µg/L, respectively. Low levels of MTBE were also detected in 4 of the 5 samples, at concentrations ranging from 1.7 µg/L to 8.6 µg/L. Although each of these 5 borings were situated within the limits of the contaminant plumes depicted on Figures 4, 6, and 7, the consultant who performed the investigation (ERS) concluded that the water main utility corridor was allowing for preferential eastward migration of contaminants.

Petroleum hydrocarbon and fuel oxygenate impact below the uppermost 10 to 15 feet of the saturated zone appears to be limited. Three wells were installed in September 2009 in order to assess concentrations of contaminants deeper within the saturated zone. Very limited impact has been detected in samples collected from these wells (see Figure 8 for second quarter 2011 sample result summary). Given the available data set, the vertical extent of contaminant distribution in groundwater appears adequately characterized.

PILOT STUDY

The purpose of the pilot study was to evaluate the potential use of ozone and hydrogen peroxide as a full-time remedial option for mitigation of petroleum hydrocarbon impact to shallow groundwater. Ozone and hydrogen peroxide were injected into the saturated zone using two nested wells (IW-1A/B and IW-2A/B) that were situated within an area of the site where petroleum hydrocarbon impact to groundwater was previously documented. A network of groundwater monitoring wells, situated near the two injection wells, was used to evaluate changes in contaminant concentrations and groundwater geochemistry resulting from implementation of pilot testing. Details regarding the ozone/hydrogen peroxide injection system equipment, pilot study procedures, the groundwater monitoring and sampling plan and analytical methods used during the testing, and the results of the pilot study are presented in the following sub-sections of this document.

Equipment

An H_2O Engineering, Inc. ozone and hydrogen peroxide injection system (model MOSU20-52LINJ) was used to perform the pilot testing study. The system consists of a self-contained cabinet housing an oxygen concentrator, ozone generation system, compressors to inject air and ozone, and associated instrumentation. The ozone generation system is capable of generating up to 2.74 pounds per day (lbs/day) at a concentration of 6% by weight of ozone, which can be injected at flow rates of 24 standard cubic feet per hour (scfh). The system also incorporates a booster compressor rated at approximately 180 scfh (3 cubic feet per minute [cfm]) to deliver air enriched with ozone to the injection wells. The system incorporates a chemical metering pump

and a 60-gallon containment tank for storing and delivering hydrogen peroxide to the injection wells. A 10-percent hydrogen peroxide solution was utilized during the test work.

Ozone and air were injected using ¼-inch diameter Teflon™ tubing secondarily contained within 1-inch diameter polyvinyl chloride (PVC) piping. Separate ¼-inch diameter Teflon™ tubing with secondary containment was used to deliver hydrogen peroxide to the injection wells. The PVC piping was placed above ground beneath temporary speed bumps and connected to the IW-1 A/B and IW-2 A/B wellheads. The remediation equipment was staged on a neighboring property (6620 Foothill Boulevard), with the consent of the property owner. The property at 6620 Foothill Boulevard is currently vacant and surrounded by chain-link fencing with barbed wire, which provided security for the equipment during the pilot testing.

Pilot Study Observation Well Network

Six wells (EX-1, MW-2, MW-4, MW-5, MW-6, and MW-10) were used for monitoring/observation of groundwater during the pilot test. Based on available historical analytical data, well MW-10 appears to be situated outside of the area of known petroleum hydrocarbon and fuel oxygenate impact; thus groundwater quality parameter measurements at this location appear useful as 'background' levels for the site. The other five wells (EX-1, MW-2, MW-4, MW-5, and MW-6) are impacted with elevated levels of petroleum hydrocarbon contaminants. Given the location of these five wells relative to IW-1 A/B and IW-2 A/B, changes in contaminant levels and groundwater quality parameters resulting from the injection of ozone and hydrogen peroxide at these five wells should provide a useful basis for evaluating the effectiveness of the ISCO groundwater remedial approach for the site. Field data sheets documenting measurements collected during the pilot test from these six monitoring/observation wells are provided in Appendix A.

Pilot Study – System Operation

The pilot study was completed between May 26 and June 28, 2011. During the entire pilot study, the remediation system was programmed to inject ozone cyclically into wells IW-1 and IW-2 for 20-minutes per well, thus completing a 40-minute cycle. Based on the timing parameters and the capability of the system to produce 2 pounds of ozone per day, a maximum of approximately 66 pounds of ozone could have been injected into the subsurface between May 26 and June 28, 2011. On two site visits (June 1 and June 8, 2011), the generator powering the remediation system was found non-operational, and thus the actual amount of ozone injected into the subsurface would be less than 66 pounds. Stratus estimates that approximately 60 pounds of ozone would have actually

been injected during the test period (based on field observations and generator hour meter readings).

Injection of hydrogen peroxide into the subsurface did not begin until June 1, 2011. Upon start-up, the 10% hydrogen peroxide solution was continuously metered into the injection wells at a rate of approximately 5 milliliters per minute (ml/min). Injection of hydrogen peroxide into the subsurface appears to have been interrupted only once during the pilot test (between June 7 and 8, 2011).

Field Monitoring and Groundwater Sampling

Immediately prior to initiating the ISCO pilot test, Stratus performed the second quarter 2011 semi-annual groundwater monitoring and sampling event. Each of the site monitoring wells were sampled for the chemical analyses typically required for this site. However, samples for additional chemical analyses were collected at this time for the six wells used for monitoring/observation purposes during the ISCO pilot test. Thus, the second quarter 2011 groundwater monitoring event provides the baseline groundwater data for the ISCO pilot study.

Site visits were conducted on May 26 and 27, 2011, June 1, 8, 14, 22, and 28, 2011, and July 11, 2011. During each visit, Stratus technicians verified operation of the remediation system and collected field parameters including depth to water, pH, temperature, dissolved oxygen (DO), oxidation-reduction potential (ORP), and specific conductivity measurements in each of the six wells used for pilot test observations. Table 2 summarizes field parameter measurements collected during the site visits. During the June 8 and 28, 2011, and July 11, 2011 site visits, groundwater samples were collected from each of the 6 observation wells.

Soil Gas Sampling

Soil gas samples were collected on July 11, 2011, following the ISCO pilot test. As part of the DPE pilot test, soil gas samples were also collected on April 26, 27, and 28, 2011, and these sample results were previously reported in the July 14, 2011 report. Prior to sampling, an expendable 6-liter SUMMA™ canister was used to purge ambient air situated inside of the sand filter pack and the Teflon tubing connected to the soil gas implant. Following purging of this ambient air, a separate 1-liter SUMMA™ canister was used to collect each soil gas sample. The sample collection SUMMA™ canisters were filled at a regulated flow rate between 100 and 200 ml/min. During sample collection, a tracer gas of 1,1-difluoroethane (1,1-DFA) was intermittently applied (sprayed from a canister) around the outside of the sample train in order to assess potential leakage during the sample collection procedure. Following retention of the samples, the SUMMA™ canisters were stored at ambient air temperature, using proper

chain-of-custody procedures, until delivered to the analytical laboratory for chemical analysis.

Laboratory Analytical Methods

Groundwater samples collected during the ISCO pilot test were forwarded, with appropriate chain-of-custody documentation, to Alpha Analytical, Inc., a California state-certified laboratory (ELAP #2019) located in Sparks, Nevada, for chemical analysis. The groundwater samples were analyzed for GRO using USEPA Method SW8015B, for BTEX compounds, MTBE, TBA, di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), ethanol, and methanol using USEPA Method SW8260B or SW8260B DI, for nitrite, bromide, nitrate, and sulfate using EPA Method 300.0, for magnesium (Mg), aluminum (Al), potassium (K), calcium (Ca), manganese (Mn), nickel (Ni), copper (Cu), arsenic (As), and barium (Ba) using EPA Method SW6020/SW6020A, for sulfide using Method SM4500-S D, for bromate using UV/VIS methods, and for hexavalent chromium using APHA/EPA Methods. Alpha Analytical, Inc. subcontracted the bromate analyses to MWH Laboratories, Inc. (ELAP #1422) and the hexavalent chromium analyses to California Laboratory Services, Inc. (ELAP #1233). Copies of certified analytical reports with chain-of-custody documentation are included in Appendix B. Analytical data for these samples have also been uploaded to the State of California's Geotracker database; documentation regarding these data uploads are provided in Appendix C. Tables 3 through 5 present groundwater analytical results for samples collected before, during, and following injection of ozone and hydrogen peroxide into the saturated zone.

Soil gas samples were forwarded to Air Toxics, Ltd., a California state-certified laboratory (ELAP # 2110) located in Folsom, California, for chemical analysis. Soil vapor samples were analyzed for GRO, BTEX, MTBE, TBA, naphthalene, and the leak detection gas 1,1-DFA using USEPA Method TO-15. Copies of certified analytical reports with chain-of-custody documentation are included in Appendix B. Analytical data for these samples have also been uploaded to the State of California's Geotracker database; documentation regarding these data uploads are provided in Appendix C. Soil gas analytical results are included on Table 6.

ISCO Pilot Test Results

The following presents a summary of the results of the ozone/hydrogen peroxide injection remediation pilot test:

- At the five observation wells impacted with MTBE (all except MW-10), dissolved MTBE concentrations increased between the time of the baseline sampling event (May 26, 2011) and the June 8, 2011 sampling event. Following the June 8, 2011

sampling event, a declining trend in MTBE was observed at each of these 5 wells. We believe this data indicates that ISCO was effective in desorbing MTBE situated within the predominately fine-grained soil of the shallow water bearing interval, resulting in an initial increase in dissolved MTBE concentrations. Subsequent declines in dissolved MTBE concentrations during the later part of the monitoring period suggest mitigation of dissolved MTBE mass by ISCO.

- GRO and TBA concentrations in groundwater were variable during the test period; both increases and decreases in concentrations were observed. At well MW-2, which is the observation well situated in closest proximity to both injection well IW-1 and IW-2, TBA concentrations declined significantly during the test period. GRO concentrations at well MW-2 initially increased, and then declined following the June 8, 2011 sampling event, and may thus be indicative of an initial desorption of GRO from shallow soils, followed by mitigation of dissolved GRO mass.

- Dissolved oxygen and ORP levels generally increased at 5 of the 6 observation wells, while decreasing at well MW-5 (situated offsite across Foothill Boulevard). At wells EX-1 and MW-2, which are located in closest proximity to the injection wells, DO levels increased from baseline levels of 2.44 milligrams per liter (mg/L) and 2.91 mg/L, respectively, to maximum levels of 14.20 and 12.43 mg/L, respectively. In EX-1 and MW-2, ORP concentrations increased from baseline levels of 155 and 151 millivolts, respectively, to maximum levels of 354 and 349 millivolts, respectively.

- Given the distance between injection well IW-2A/B and monitoring well MW-2, the radius of influence (ROI) of ISCO remediation should exceed 20 feet, based on our interpretation of data collected during the test.

- Concentrations of most metals (Mg, Al, K, Ca, Mn, Ni, Cu, As, Ba) increased due to implementation of ISCO. Approximately 2 weeks following termination of ISCO (July 11, 2011), concentrations of most metals had declined in relation to levels observed during the last day of injection (June 28, 2011); however, concentrations of these metals generally had not yet returned to baseline concentrations observed before the pilot study.

- Hexavalent chromium was only detected in one sample collected during the test period, at a low concentration (well EX-1, 3.4 µg/L, on June 28, 2011).

- Petroleum hydrocarbon and fuel oxygenates were not detected in the soil gas sample collected from well SGW-2 following the ISCO test. GRO (1,200 milligrams per cubic meter [mg/m^3]) and toluene (6.3 mg/m^3) detected in the soil

gas sample collected from well SGW-1 in July 2011 were lower than the baseline sample collected from this well on April 26, 2011, before initiation of DPE pilot testing work, and other petroleum hydrocarbon concentrations from SGW-1 were below laboratory instrument detection limits. Soil gas concentrations following ISCO remain well below Environmental Screening Levels.

DISCUSSION AND RECOMMENDATIONS

Given the findings of this pilot study, it is our opinion that ISCO is an effective and viable remedial alternative for the subject site. Stratus recommends that a full-time ozone/hydrogen peroxide injection system be installed at the site. Pending a review of this report and concurrence/direction from ACEHD, Stratus will prepare a Corrective Action Plan (CAP) recommending installation of an ISCO system to mitigate site contaminants.

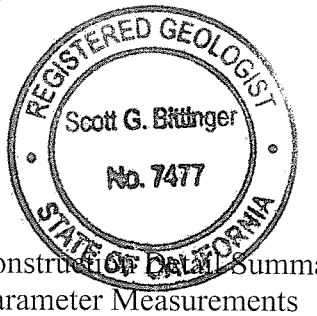
LIMITATIONS

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 regarding this report, or the project in general, please contact Scott Bittinger at (530) 676-2062 or Gowri Kowtha at (530) 676-6001.

Sincerely,
STRATUS ENVIRONMENTAL, INC.

Scott G. Bittinger, P.G.
Project Manager



Gowri S. Kowtha, P.E.
Principal Engineer

Attachments:

Table 1	Well Construction Detail Summary
Table 2	Field Parameter Measurements
Table 3	Petroleum Hydrocarbon and Fuel Additive Groundwater Analytical Results
Table 4	Groundwater Analytical Results for Metals
Table 5	Additional Groundwater Analytical Results
Table 6	Soil Gas Analytical Results
Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Groundwater Elevation Contour Map, Shallow Screened Wells, Second Quarter 2011
Figure 4	GRO Iso-Concentration Contour Map, Shallow Screened Wells, Second Quarter 2011
Figure 5	Benzene Iso-Concentration Contour Map, Shallow Screened Wells, Second Quarter 2011
Figure 6	MTBE Iso-Concentration Contour Map, Shallow Screened Wells, Second Quarter 2011
Figure 7	TBA Iso-Concentration Contour Map, Shallow Screened Wells, Second Quarter 2011
Figure 8	Groundwater Analytical Summary Map, Deep Screened Wells, Second Quarter 2011
Appendix A	Field Data Sheets
Appendix B	Certified Analytical Reports and Chain-of-Custody Documentation
Appendix C	Geotracker Data Upload Confirmation Sheets

cc: Mr. Ravi Sekhon, Former Property Owner
Mr. Joseph LeBlanc, Property Owner, 6620 Foothill Boulevard

TABLE 1
WELL CONSTRUCTION DETAIL SUMMARY
Foothill Mini Mart, 6600 Foothill Boulevard, Oakland, California

Boring/Well I.D.	Date Installed	Boring Depth (feet)	Boring Diameter (inches)	Well Diameter (inches)	Well Depth (feet)	Screen Interval (feet bgs)	Slot Size (inches)	Drilling Method
Shallow Groundwater Monitoring Wells								
MW-1	06/04/01	25	8	2	25	10-25	0.01	HSA
MW-2	06/04/01	25	8	2	25	10-25	0.01	HSA
MW-3	06/04/01	25	8	2	25	10-25	0.01	HSA
MW-4	06/26/02	20	8	2	20	7.5-20	0.01	HSA
MW-5	06/26/02	20	8	2	20	7.5-20	0.01	HSA
MW-6	06/26/02	20	8	2	20	7.5-20	0.01	HSA
MW-7	09/23/09	25	8	2	25	10-25	0.01	HSA
MW-10	09/22/09	25	8	2	25	15-25	0.01	HSA
MW-11	09/23/09	25	8	2	25	10-25	0.01	HSA
MW-12A	09/22/09	25	8	2	25	10-25	0.01	HSA
MW-13A	09/24/09	25	8	2	25	5--25	0.01	HSA
Deeper Groundwater Monitoring Wells								
MW-5B	09/23/09	45	8	2	45	35-45	0.01	HSA
MW-6B	09/24/09	50	8	2	50	35-50	0.01	HSA
MW-12B	09/22/09	43	8	2	43	33-43	0.01	HSA
Remediation Wells								
EX-1	04/04/11	30	10	4	30	10-30	0.02	HSA
IW-1A/B	04/06/11	28	8	1	21.5	20.5-21.5	0.02	HSA
				1	27	25-27	microporous	
IW-2A/B	04/06/11	28	8	1	21.5	20.5-21.5	0.02	HSA
				1	27	25-27	microporous	
Soil Gas Monitoring Wells								
SGW-1	04/06/11	2.5	6	0.25	2.5	2-2.5	mesh	hand digging
SGW-2	04/07/11	1.5	6	0.25	1.5	1-1.5	mesh	hand digging

Notes:
HSA = hollow stem auger

TABLE 2
FIELD PARAMETER MEASUREMENTS
IN-SITU GROUNDWATER REMEDIATION PILOT TEST
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	DTW (feet bgs)	pH	DO (mg/L)	Cond.	ORP (mV)	Temp. (deg C)
EX-1	**Baseline Measurement**						
	5/26/2011*	10.26	6.21	2.44	487	155	17.7
	ISCO Pilot Test Measurements						
	6/1/2011	9.35	6.84	7.68	551	252	18.3
	6/8/2011	11.10	6.90	9.84	519	208	17.7
	6/14/2011	7.40	7.00	14.20	510	314	19.3
	6/22/2011	9.42	6.94	3.99	502	354	19.2
	6/28/2011	8.93	7.08	5.68	473	316	18.4
	Post Injection Monitoring						
	7/11/2011	12.05	6.09	3.83	446	197	18.9
MW-2	**Baseline Measurement**						
	5/26/2011*	10.51	6.17	2.91	567	151	17.9
	ISCO Pilot Test Measurements						
	6/1/2011	8.85	6.18	5.53	629	246	17.8
	6/8/2011	6.32	6.34	10.23	648	250	18.5
	6/14/2011	4.62	6.41	12.43	615	306	19.2
	6/22/2011	6.42	6.42	3.89	610	349	19.1
	6/28/2011	6.77	6.10	7.01	617	311	18.4
	Post Injection Monitoring						
	7/11/2011	7.85	6.12	2.42	536	165	17.6
MW-4	**Baseline Measurement**						
	5/26/2011*	5.87	6.64	0.61	353	-62	18.5
	ISCO Pilot Test Measurements						
	6/1/2011	7.40	6.36	4.63	392	242	17.3
	6/8/2011	5.13	6.56	9.35	367	274	17.1
	6/14/2011	5.35	6.68	10.45	347	199	18.3
	6/22/2011	5.60	NM	3.84	368	203	18.3
	6/28/2011	5.71	6.82	4.90	390	357	17.3
	Post Injection Monitoring						
	7/11/2011	5.74	6.96	3.80	508	302	18.0
MW-5	**Baseline Measurement**						
	5/26/2011*	8.08	6.43	4.12	337	241	16.4
	ISCO Pilot Test Measurements						
	6/1/2011	8.11	6.90	3.17	344	236	16.0
	6/8/2011	7.38	6.56	1.92	347	179	16.3
	6/14/2011	7.67	6.56	2.02	322	289	18.2
	6/22/2011	7.99	6.28	3.17	336	195	17.9
	6/28/2011	8.12	6.51	3.30	352	335	17.1
	Post Injection Monitoring						
	7/11/2011	8.03	6.34	3.54	338	253	17.1

TABLE 2
FIELD PARAMETER MEASUREMENTS
IN-SITU GROUNDWATER REMEDIATION PILOT TEST
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	DTW (feet bgs)	pH	DO (mg/L)	Cond.	ORP (mV)	Temp. (deg C)
MW-6	**Baseline Measurement**						
	5/26/2011*	5.73	6.63	0.75	362	64	17.5
	ISCO Pilot Test Measurements						
	6/1/2011	6.22	6.65	1.26	458	276	16.5
	6/8/2011	5.02	6.63	2.42	440	229	16.6
	6/14/2011	5.39	6.44	2.95	456	245	17.7
	6/22/2011	5.74	6.52	3.72	463	282	18.0
	6/28/2011	7.93	6.46	2.52	460	154	17.3
	Post Injection Monitoring						
	7/11/2011	5.82	6.36	2.84	439	160	17.0
MW-10	**Baseline Measurement**						
	5/26/2011*	10.45	6.27	3.11	392	192	16.2
	ISCO Pilot Test Measurements						
	6/1/2011	10.72	6.28	2.44	411	238	15.9
	6/8/2011	7.40	6.12	1.32	427	255	17.0
	6/14/2011	8.12	6.70	7.19	402	267	17.7
	6/22/2011	8.98	7.32	4.14	402	323	17.7
	6/28/2011	9.51	6.28	4.64	398	243	16.8
	Post Injection Monitoring						
	7/11/2011	10.81	6.23	3.36	380	132	16.2

Notes
* = Baseline measurements were taken as pre-well purge measurements, collected at the time of the second quarter 2011 well sampling event in order to be consistent with monitoring during and following the pilot tests, when no well purging was conducted.
mV = millivolts
mg/L = milligrams per liter
bgs = below ground surface
DTW = Depth to water
DO = Dissolved oxygen
Cond. = Conductivity
ORP = Oxidation - reduction potential
Temp = Temperature
deg C = degrees in celsius
NM = Not measured

TABLE 3
PETROLEUM HYDROCARBON AND FUEL ADDITIVE GROUNDWATER ANALYTICAL RESULTS
IN-SITU GROUNDWATER REMEDIATION PILOT TEST
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Sample ID	Date Collected	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
EX-1	**Baseline Monitoring**												
	05/26/11	**600**	<2.5*	<2.5*	<2.5*	<2.5*	**730**	<5.0*	<5.0*	<5.0*	**6,700**	<50	<5.0
	ISCO Pilot Test Sampling												
	06/08/11	**640**	<1.0*	<1.0*	<1.0*	<1.0*	**1,100**	NA	NA	NA	**620**	NA	NA
	06/28/11	**84**	<0.5	<0.5	<0.5	<0.5	**170**	NA	NA	NA	**12**	NA	NA
	Post Injection Monitoring												
	07/11/11	**910**	<1.0*	<1.0*	<1.0*	<1.0*	**130**	NA	NA	NA	**3,100**	NA	NA
MW-2	**Baseline Monitoring**												
	05/26/11	<500*	<2.5*	<2.5*	<2.5*	<2.5*	**27**	<5.0*	<5.0*	<5.0*	**5,400**	<50	<5.0
	ISCO Pilot Test Sampling												
	06/08/11	**1,200**	<1.5*	<1.5*	<1.5*	<1.5*	**2,000**	NA	NA	NA	**690**	NA	NA
	06/28/11	**830**	<2.5*	<2.5*	<2.5*	<2.5*	**1,700**	NA	NA	NA	**110**	NA	NA
	Post Injection Monitoring												
	07/11/11	**140**	<0.5	<0.5	<0.5	<0.5	**39**	NA	NA	NA	**280**	NA	NA

TABLE 3
PETROLEUM HYDROCARBON AND FUEL ADDITIVE GROUNDWATER ANALYTICAL RESULTS
IN-SITU GROUNDWATER REMEDIATION PILOT TEST
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Sample ID	Date Collected	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-4	**Baseline Monitoring**												
	05/26/11	**4,000**	<2.5*	<2.5*	**2.6**	<2.5*	**3.7**	<5.0*	<5.0*	<5.0*	**1,400**	<50	<5.0
	ISCO Pilot Test Sampling												
	06/08/11	**1,400**	<1.5*	<1.5*	<1.5*	<1.5*	**1,700**	NA	NA	NA	**570**	NA	NA
	06/28/11	**910**	<1.0*	<1.0*	<1.0*	<1.0*	**830**	NA	NA	NA	**2,000**	NA	NA
	Post Injection Monitoring												
	07/11/11	**2,100**	<1.0*	<1.0*	**1.2**	<1.0*	**270**	NA	NA	NA	**2,900**	NA	NA
MW-5	**Baseline Monitoring**												
	05/26/11	**230**	<1.0*	<1.0*	<1.0*	<1.0*	**3.5**	<2.0*	<2.0*	<2.0*	**1,300**	<50	<5.0
	ISCO Pilot Test Sampling												
	06/08/11	<200*	<1.0*	<1.0*	<1.0*	<1.0*	**11**	NA	NA	NA	**980**	NA	NA
	06/28/11	<200*	<1.0*	<1.0*	<1.0*	<1.0*	**3.3**	NA	NA	NA	**1,300**	NA	NA
	Post Injection Monitoring												
	07/11/11	**60**	<0.5	<0.5	<0.5	<0.5	**3.2**	NA	NA	NA	**870**	NA	NA

TABLE 3
PETROLEUM HYDROCARBON AND FUEL ADDITIVE GROUNDWATER ANALYTICAL RESULTS
IN-SITU GROUNDWATER REMEDIATION PILOT TEST
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Sample ID	Date Collected	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-6	**Baseline Monitoring**												
	05/26/11	**5,500**	**54**	<1.0*	**23**	**30.4**	**230**	<2.0*	<2.0*	<2.0*	**640**	<50	<5.0
	ISCO Pilot Test Sampling												
	06/08/11	**3,900**	**60**	<1.0*	**41**	**61.6**	**300**	NA	NA	NA	**630**	NA	NA
	06/28/11	**7,500**	**69**	<2.5*	**56**	**91.9**	**270**	NA	NA	NA	**880**	NA	NA
	Post Injection Monitoring												
	07/11/11	**6,000**	**63**	<2.0*	**57**	**94.2**	**240**	NA	NA	NA	**620**	NA	NA
MW-10	**Baseline Monitoring**												
	05/26/11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<50	<5.0
	ISCO Pilot Test Sampling												
	06/08/11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	<10	NA	NA
	06/28/11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	<10	NA	NA
	Post Injection Monitoring												
	07/11/11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	<10	NA	NA

TABLE 3
PETROLEUM HYDROCARBON AND FUEL ADDITIVE GROUNDWATER ANALYTICAL RESULTS
IN-SITU GROUNDWATER REMEDIATION PILOT TEST
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Sample ID	Date Collected	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Methanol (µg/L)	Ethanol (µg/L)

Explanation
GRO = Gasoline range organics
BTEX = Benzene, toluene, ethylbenzene, and xylenes
MTBE = Methyl tertiary butyl ether
TBA=Tertiary butyl alcohol
DIPE =Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
µg/L = micrograms per liter
* = Reporting limits increased due to high concentrations of target analytes
NA = Not analyzed
ISCO = In-situ chemical oxidation

Analytical Methods
GRO analyzed using EPA Method SW8015B/DHS LUFT Manual
BTEX, MTBE, DIPE, ETBE, TAME, and TBA analyzed using EPA Method SW8260B
Methanol and Ethanol analyzed using EPA Method SW8260B-DI

Analytical Laboratory
Alpha Analytical, Inc. (ELAP #2019)

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR METALS
IN-SITU GROUNDWATER REMEDIATION PILOT TEST
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Sample ID	Date Collected	Hexavalent Chromium (µg/L)	Magnesium (µg/L)	Aluminum (µg/L)	Potassium (µg/L)	Calcium (µg/L)	Manganese (µg/L)	Nickel (µg/L)	Copper (µg/L)	Arsenic (µg/L)	Barium (µg/L)
EX-1	**Baseline Monitoring**										
	05/26/11	<1.0	**26,000**	**560**	**900**	**45,000**	**460**	**21**	<10	<5.0	**96**
	ISCO Pilot Test Sampling										
	06/08/11	<1.0	**44,000**	**110,000**	**14,000**	**51,000**	**1,900**	**390**	**150**	**21**	**980**
	06/28/11	**3.4**	**86,000**	**290,000**	**32,000**	**66,000**	**4,600**	**1,100**	**350**	**52**	**2,200**
	Post Injection Monitoring										
	07/11/11	<1.0	**63,000**	**170,000**	**15,000**	**41,000**	**3,200**	**640**	**160**	**32**	**930**
MW-2	**Baseline Monitoring**										
	05/26/11	<1.0	**38,000**	**31,000**	**3,900**	**39,000**	**1,400**	**150**	**40**	**14**	**500**
	ISCO Pilot Test Sampling										
	06/08/11	<1.0	**64,000**	**170,000**	**21,000**	**55,000**	**3,200**	**860**	**280**	**46**	**2,400**
	06/28/11	<1.0	**78,000**	**160,000**	**18,000**	**68,000**	**4,200**	**1,000**	**310**	**47**	**2,700**
	Post Injection Monitoring										
	07/11/11	<1.0	**98,000**	**280,000**	**21,000**	**39,000**	**3,200**	**1,000**	**250**	**48**	**2,900**

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR METALS
IN-SITU GROUNDWATER REMEDIATION PILOT TEST
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Sample ID	Date Collected	Hexavalent Chromium (µg/L)	Magnesium (µg/L)	Aluminum (µg/L)	Potassium (µg/L)	Calcium (µg/L)	Manganese (µg/L)	Nickel (µg/L)	Copper (µg/L)	Arsenic (µg/L)	Barium (µg/L)
MW-4	**Baseline Monitoring**										
	05/26/11	<1.0	**38,000**	**33,000**	**3,700**	**34,000**	**5,900**	**71**	**43**	**16**	**420**
	ISCO Pilot Test Sampling										
	06/08/11	<1.0	**43,000**	**110,000**	**14,000**	**33,000**	**4,400**	**220**	**150**	**22**	**1,100**
	06/28/11	<1.0	**61,000**	**150,000**	**17,000**	**43,000**	**5,800**	**320**	**200**	**30**	**1,400**
	Post Injection Monitoring										
	07/11/11	<1.0	**51,000**	**81,000**	**9,400**	**33,000**	**5,300**	**150**	**81**	**16**	**640**
MW-5	**Baseline Monitoring**										
	05/26/11	<1.0	**25,000**	**2,700**	<500	**26,000**	**3,500**	**88**	<10	**6.5**	**140**
	ISCO Pilot Test Sampling										
	06/08/11	<1.0	**24,000**	**2,200**	**590**	**29,000**	**3,300**	<10	<10	**13**	**130**
	06/28/11	<1.0	**32,000**	**31,000**	**4,700**	**29,000**	**3,500**	**91**	**66**	**14**	**420**
	Post Injection Monitoring										
	07/11/11	<1.0	**29,000**	**17,000**	**3,400**	**26,000**	**2,900**	**64**	**33**	**9.6**	**240**

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR METALS
IN-SITU GROUNDWATER REMEDIATION PILOT TEST
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Sample ID	Date Collected	Hexavalent Chromium (µg/L)	Magnesium (µg/L)	Aluminum (µg/L)	Potassium (µg/L)	Calcium (µg/L)	Manganese (µg/L)	Nickel (µg/L)	Copper (µg/L)	Arsenic (µg/L)	Barium (µg/L)
MW-6	**Baseline Monitoring**										
	05/26/11	<1.0	**33,000**	**3,700**	**520**	**30,000**	**4,700**	**12**	<10	**7.3**	**120**
	ISCO Pilot Test Sampling										
	06/08/11	<1.0	**37,000**	**18,000**	**2,800**	**33,000**	**4,400**	**44**	**30**	**11**	**240**
	06/28/11	<1.0	**42,000**	**30,000**	**4,500**	**35,000**	**4,500**	**76**	**46**	**9.3**	**300**
	Post Injection Monitoring										
	07/11/11	<1.0	**43,000**	**22,000**	**3,300**	**31,000**	**4,700**	**110**	**28**	**9.0**	**200**
MW-10	**Baseline Monitoring**										
	05/26/11	<1.0	**14,000**	**790**	<500	**17,000**	**16**	**30**	<10	<5.0	**85**
	ISCO Pilot Test Sampling										
	06/08/11	<1.0	**15,000**	**1,500**	**520**	**19,000**	**20**	<10	<10	<5.0	**92**
	06/28/11	<1.0	**20,000**	**7,200**	**1,400**	**18,000**	**98**	**53**	<10	<5.0	**100**
	Post Injection Monitoring										
	07/11/11	<1.0	**17,000**	**7,500**	**1,600**	**17,000**	**170**	**120**	<10	<5.0	**110**

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR METALS
IN-SITU GROUNDWATER REMEDIATION PILOT TEST
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Sample ID	Date Collected	Hexavalent Chromium (µg/L)	Magnesium (µg/L)	Aluminum (µg/L)	Potassium (µg/L)	Calcium (µg/L)	Manganese (µg/L)	Nickel (µg/L)	Copper (µg/L)	Arsenic (µg/L)	Barium (µg/L)

Explanation
µg/L = micrograms per liter
ISCO = In-situ chemical oxidation

Analytical Methods
Hexavalent chromium analyzed using APHA/EPA Methods
All other analyses for metals performed using EPA Method SW6020 / SW6020A

Analytical Laboratory
Alpha Analytical, Inc. (ELAP #2019, except hexavalent chromium)
California Laboratory Services, Inc. (ELAP #1233, hexavalent chromium)

TABLE 5
ADDITIONAL GROUNDWATER ANALYTICAL RESULTS
IN-SITU GROUNDWATER REMEDIATION PILOT TEST
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Sample ID	Date Collected	Nitrite (µg/L)	Bromide (µg/L)	Nitrate (µg/L)	Sulfate (µg/L)	Sulfide (µg/L)	Bromate (µg/L)
SHALLOW SCREENED WELLS							
EX-1	**Baseline Monitoring**						
	05/26/11	<250	**530**	**870**	**25,000**	<100	<1.0
	ISCO Pilot Test Sampling						
	06/08/11	<250	**470**	**1,900**	**33,000**	**350**	<1.0
	06/28/11	<250	**560**	**450**	**30,000**	<100	**1.3**
	Post Injection Monitoring						
	07/11/11	<250	**330**	<250	**21,000**	<100	<1.0
MW-2	**Baseline Monitoring**						
	05/26/11	<250	<250	<250	**29,000**	<100	<1.0
	ISCO Pilot Test Sampling						
	06/08/11	<250	**470**	<250	**220,000**	<100	<1.0
	06/28/11	<250	**610**	<250	**250,000**	<100	<1.0
	Post Injection Monitoring						
	07/11/11	<250	**320**	<250	**130,000**	**140**	<1.0
MW-4	**Baseline Monitoring**						
	05/26/11	<250	<250	<250	**4,700**	<100	<1.0
	ISCO Pilot Test Sampling						
	06/08/11	<250	<250	<250	**8,200**	**110**	<1.0
	06/28/11	<250	<250	<250	**7,400**	<100	<1.0
	Post Injection Monitoring						
	07/11/11	<250	<250	<250	**3,000**	<100	<1.0
MW-5	**Baseline Monitoring**						
	05/26/11	<250	<250	<250	**6,000**	<100	<1.0
	ISCO Pilot Test Sampling						
	06/08/11	<250	<250	<250	**11,000**	<100	<1.0
	06/28/11	<250	<250	<250	**6,200**	<100	<1.0
	Post Injection Monitoring						
	07/11/11	<250	<250	<250	**7,500**	<100	<1.0

TABLE 5
ADDITIONAL GROUNDWATER ANALYTICAL RESULTS
IN-SITU GROUNDWATER REMEDIATION PILOT TEST
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Sample ID	Date Collected	Nitrite (µg/L)	Bromide (µg/L)	Nitrate (µg/L)	Sulfate (µg/L)	Sulfide (µg/L)	Bromate (µg/L)
MW-6	**Baseline Monitoring**						
	05/26/11	<250	**280**	<250	<500	**240**	<1.0
	ISCO Pilot Test Sampling						
	06/08/11	<250	**370**	<250	<500	<100	<1.0
	06/28/11	<250	**340**	<250	**590**	<100	<1.0
	Post Injection Monitoring						
	07/11/11	<250	**300**	<250	<500	<100	<1.0
MW-10	**Baseline Monitoring**						
	05/26/11	<250	<250	**10,000**	**65,000**	<100	<1.0
	ISCO Pilot Test Sampling						
	06/08/11	<250	<250	**9,600**	**62,000**	<100	<1.0
	06/28/11	<250	<250	**11,000**	**59,000**	<100	<1.0
	Post Injection Monitoring						
	07/11/11	<250	<250	**12,000**	**50,000**	<100	<1.0

Explanation
µg/L = micrograms per liter
ISCO = In-situ chemical oxidation

Analytical Methods
Nitrite, bromide, nitrate, and sulfate analyzed using EPA Method 300.0
Sulfide analyzed using EPA Method 4500-S D
Bromate analyzed using EPA Method 317

Analytical Laboratory
Alpha Analytical, Inc. (ELAP #2019, all analyses except bromate)
MWH Laboratories (ELAP #1422, bromate analysis)

TABLE 6
SOIL GAS ANALYTICAL RESULTS
Foothill Mini Mart
6600 Foothill Boulevard, Oakland, California

Sample ID	Date	TPHg ($\mu g/m^3$)	Benzene ($\mu g/m^3$)	Toluene ($\mu g/m^3$)	Ethylbenzene ($\mu g/m^3$)	Total Xylenes ($\mu g/m^3$)	MTBE ($\mu g/m^3$)	TBA ($\mu g/m^3$)	Naphthalene ($\mu g/m^3$)	1,1-DFA ($\mu g/m^3$)
Environmental Screening Level (ESL)[1] (commercial property)		**29,000**	**280**	**180,000**	**3,300**	**58,000**	**31,000**	-------	**240**	-------
Pre-DPE Test Samples										
SGW-1	04/26/11	1,300	8.4	46	<5.4	26	4.6	<15	<26	770
SGW-2	04/26/11	1,800	5.5	38	<4.6	31	<3.8	<13	<22	64
During-DPE Test Samples										
SGW-1	04/27/11	410	4.9	20	<6.6	<6.6	<5.5	<18	<32	<16
SGW-2	04/27/11	410	9.2	63	<6.4	9.2	<5.3	<18	<31	<16
Post-DPE Test Samples										
SGW-1	04/28/11	410	<5.4	12	<7.3	<7.3	<6.1	<20	<35	<18
SGW-2	04/28/11	<300	<4.6	31	<6.3	6.5	<5.2	<18	<30	<16
Post-Ozone Injection Test										
SGW-1	07/11/11	1,200	<3.3	6.3	<4.5	<4.5	<3.7	<12	<22	<11
SGW-2	07/11/11	<210	<3.3	<3.9	<4.5	<4.5	<3.7	<12	<22	<11

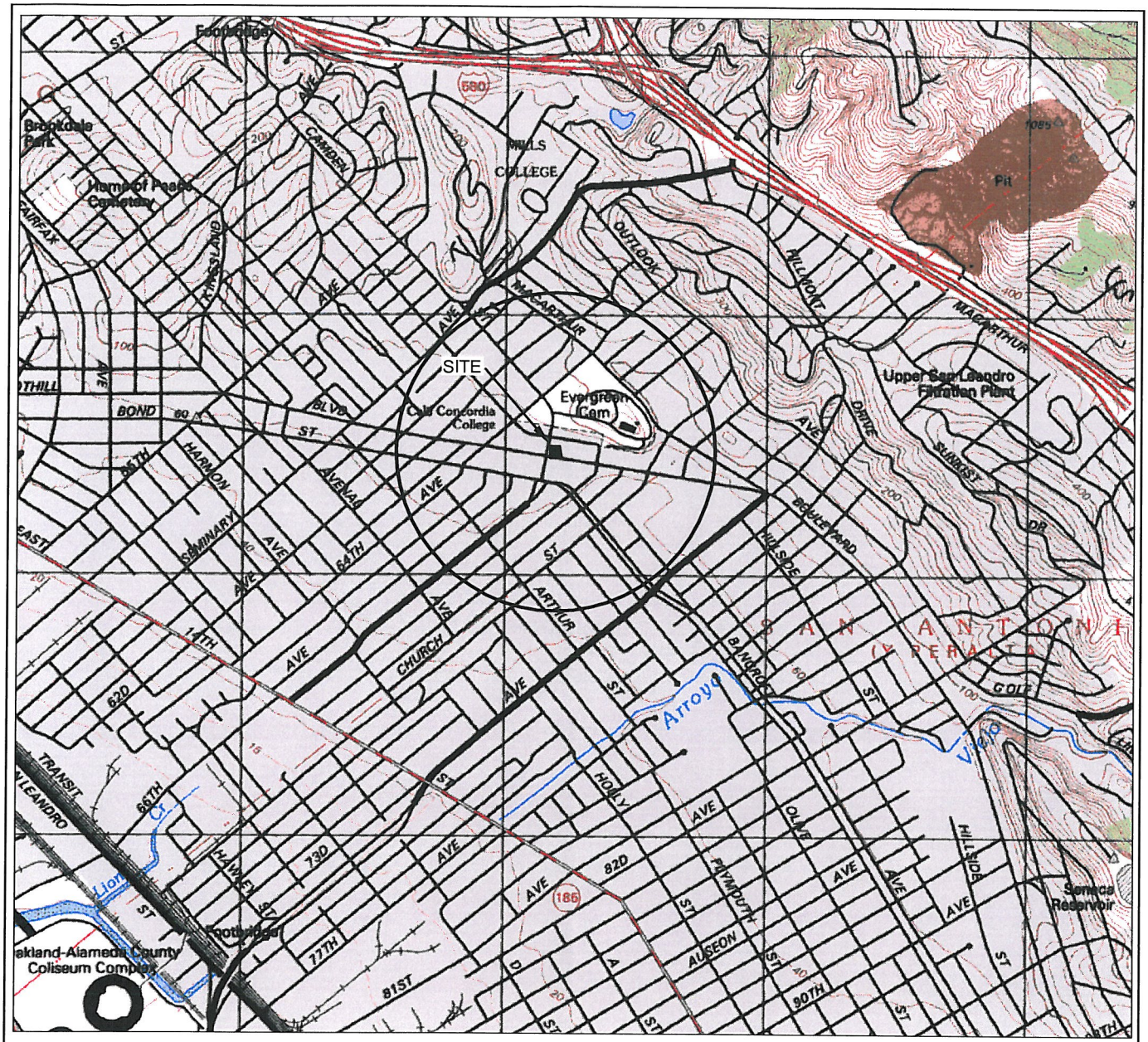
Legend:
TPHg = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tertiary butyl ether
TBA = Tertiary butyl alcohol
1,1-DFA = 1,1-difluoroethane
$\mu g/m^3$ = micrograms per cubic meter

Notes:
[1] = *RWQCB-SF Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final – November 2007 (revised May 2008)*; Table E-2, Shallow Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion Concerns (lowest commercial established risk value)

Analytical Laboratory
Air Toxics, LTD. (NELAP 02110CA)

BOLD font indicates analyte exceeds corresponding ESL

Analytical Methods
TPHg, BTEX, MTBE, TBA, Naphthalene, and 1,1-DFA analyzed using Modified EPA Method TO-15



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
OAKLAND EAST, CA.
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1980

N

QUADRANGLE LOCATION

0 2000 FT

SCALE 1:24,000

STRATUS
ENVIRONMENTAL, INC.

FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

SITE LOCATION MAP

FIGURE
1

PROJECT NO.
2087-6600-01

N

HAVENSCOURT BOULEVARD

SIDEWALK

BUILDING

HOUSE

HOUSE

HOUSE

HOUSE

PROPERTY LINE

MW-10

MINI MARKET

MW-11

MW-1

6600 FOOTHILL BLVD

DISPENSER AREA

USTs

SB-7

REMOVED UST

IW-2A/B

SB-8

SB-9

MW-3

SGW-1

MW-2

SGW-2

IW-1A/B

EX-1

6620 FOOTHILL BLVD

BUILDING

BUILDING

USB-2

MW-4

SIDEWALK

SB-1

MW-12A

MW-12B

USB-5

USB-7

USB-8

USB-10

USB-11

FOOTHILL BOULEVARD

MW-7

MW-5

MW-5B

SIDEWALK

6601 FOOTHILL BLVD

MW-6B

MW-6

SB-2

HAVENSCOURT BOULEVARD

SIDEWALK

SB-4

EMPTY FIELD (FORMER GAS STATION)

SB-3

BUILDING

BUILDING

SHED

BUILDING

SHED

BUILDING

SB-14

SB-13

SB-12

DRIVEWAY

MW-13A

SB-11

SB-10

SB-6

SB-5

BUILDING

LEGEND:

⊕	MW-1	MONITORING WELL LOCATION
●	SB-1	SOIL BORING LOCATION
◒	EX-1	APPROXIMATE EXTRACTION WELL LOCATION
⊙	IW-1	APPROXIMATE NESTED OZONE/HYDROGEN PEROXIDE INJECTION WELL LOCATION
⊗	SGW-1	APPROXIMATE SOIL VAPOR SAMPLING WELL LOCATION
+	USB-2	UTILITY CORRIDOR SOIL BORING LOCATION

NOTE: LOCATIONS OF SITE FEATURES, WELLS, & BORINGS ARE APPROXIMATE

JMP REV July 14, 2011 Foothill Site Vicinity Map

Foothill Mini Mart

STRATUS ENVIRONMENTAL, INC.

0 40 FT

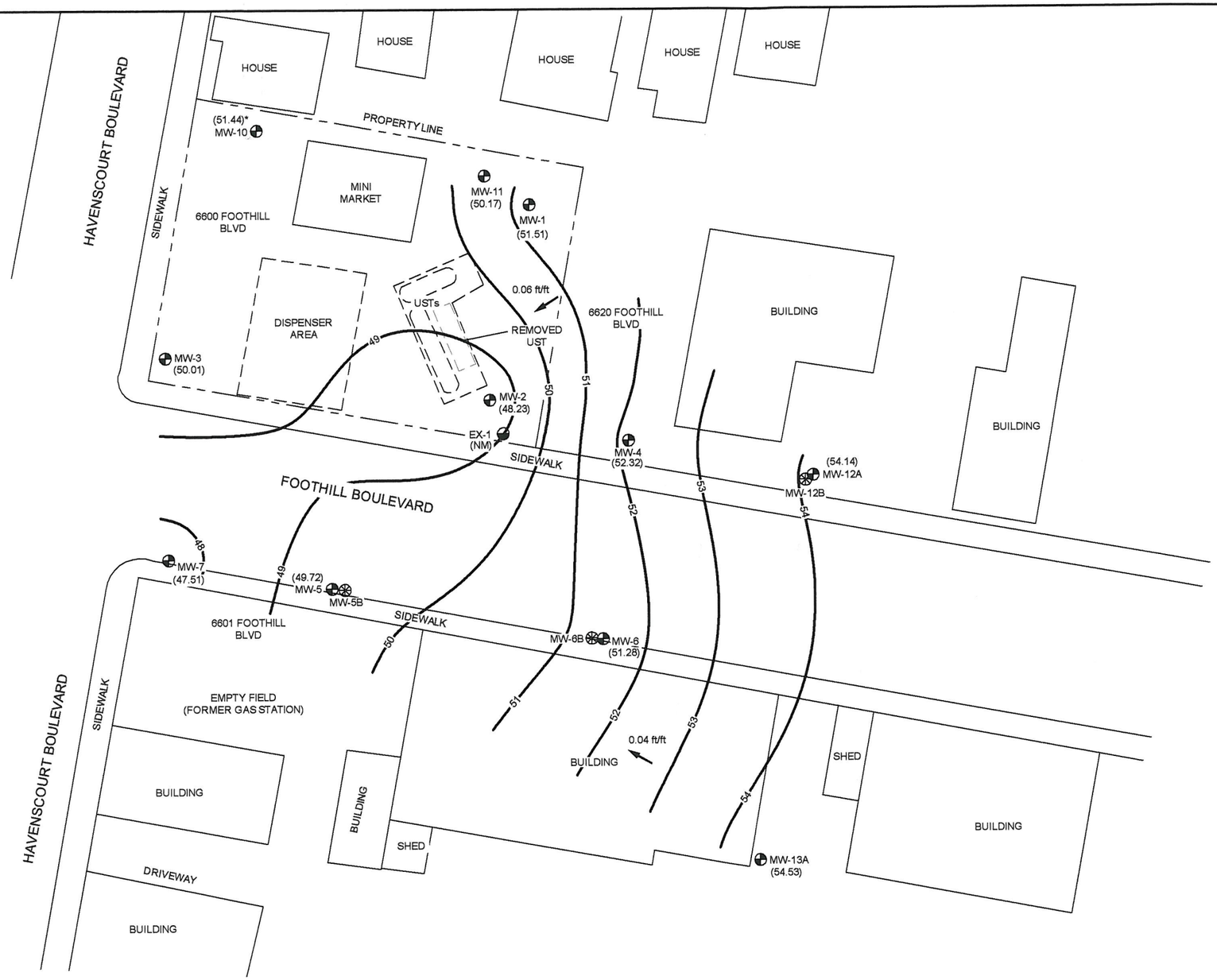
SCALE

FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

SITE PLAN

FIGURE
2

PROJECT NO.
2087-6600-01



LEGEND:

- MW-1 SHALLOW SCREENED MONITORING WELL LOCATION
- MW-5B DEEP SCREENED MONITORING WELL LOCATION
- EX-1 APPROXIMATE EXTRACTION WELL LOCATION
- (51.51) GROUNDWATER ELEVATION IN FEET RELATIVE TO MSL
- 51 GROUNDWATER ELEVATION CONTOUR IN FEET RELATIVE TO MSL
- INFERRED GROUNDWATER FLOW DIRECTION

WELLS MEASURED ON 5/26/11
MSL = MEAN SEA LEVEL
* NOT USED FOR CONTOURING
(NM) = NOT MEASURED

NOTE: LOCATIONS OF SITE FEATURES, WELLS, & BORINGS ARE APPROXIMATE

STRATUS ENVIRONMENTAL, INC.

0 40 FT
SCALE

FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP
SHALLOW SCREENED WELLS
2nd QUARTER 2011

FIGURE
3

PROJECT NO.
2087-6600-01

Foothill Mini Mart\Quarterly JMP REV July 14, 2011 Foothill Quarterly Figures

NOTE: LOCATIONS OF SITE FEATURES, WELLS, & BORINGS ARE APPROXIMATE

STRATUS ENVIRONMENTAL, INC.

0 40 FT
SCALE

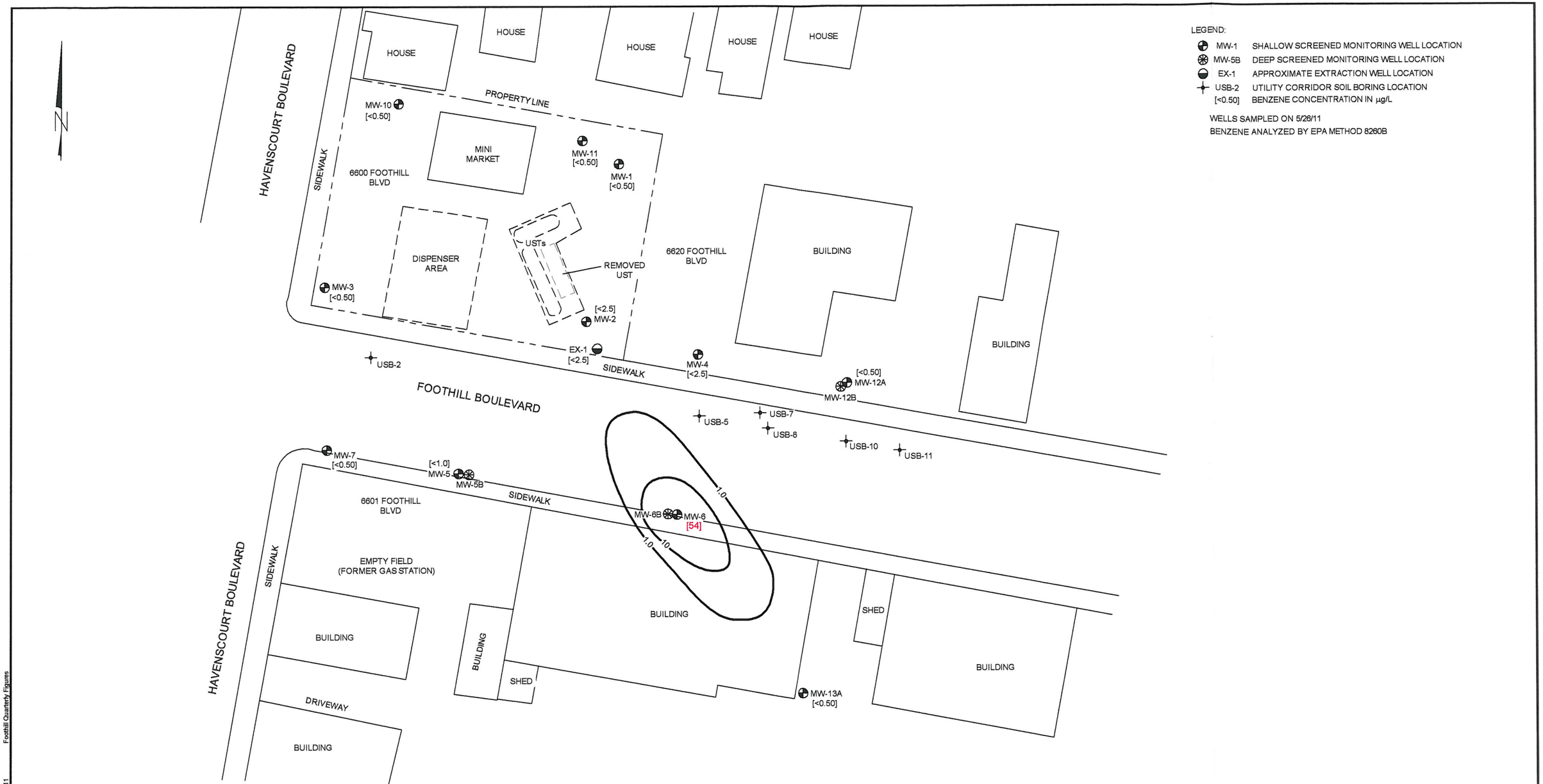
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

GRO ISO-CONCENTRATION CONTOUR MAP
SHALLOW SCREENED WELLS
2nd QUARTER 2011

FIGURE
4

PROJECT NO.
2087-6600-01

Foothill Mini Mart\Quarterly JMP REV July 14, 2011 Foothill Quarterly Figures



LEGEND:

MW-1	SHALLOW SCREENED MONITORING WELL LOCATION
MW-5B	DEEP SCREENED MONITORING WELL LOCATION
EX-1	APPROXIMATE EXTRACTION WELL LOCATION
USB-2	UTILITY CORRIDOR SOIL BORING LOCATION
[<0.50]	BENZENE CONCENTRATION IN µg/L

WELLS SAMPLED ON 5/26/11
BENZENE ANALYZED BY EPA METHOD 8260B

NOTE: LOCATIONS OF SITE FEATURES, WELLS, & BORINGS ARE APPROXIMATE

STRATUS ENVIRONMENTAL, INC.

0 40 FT
SCALE

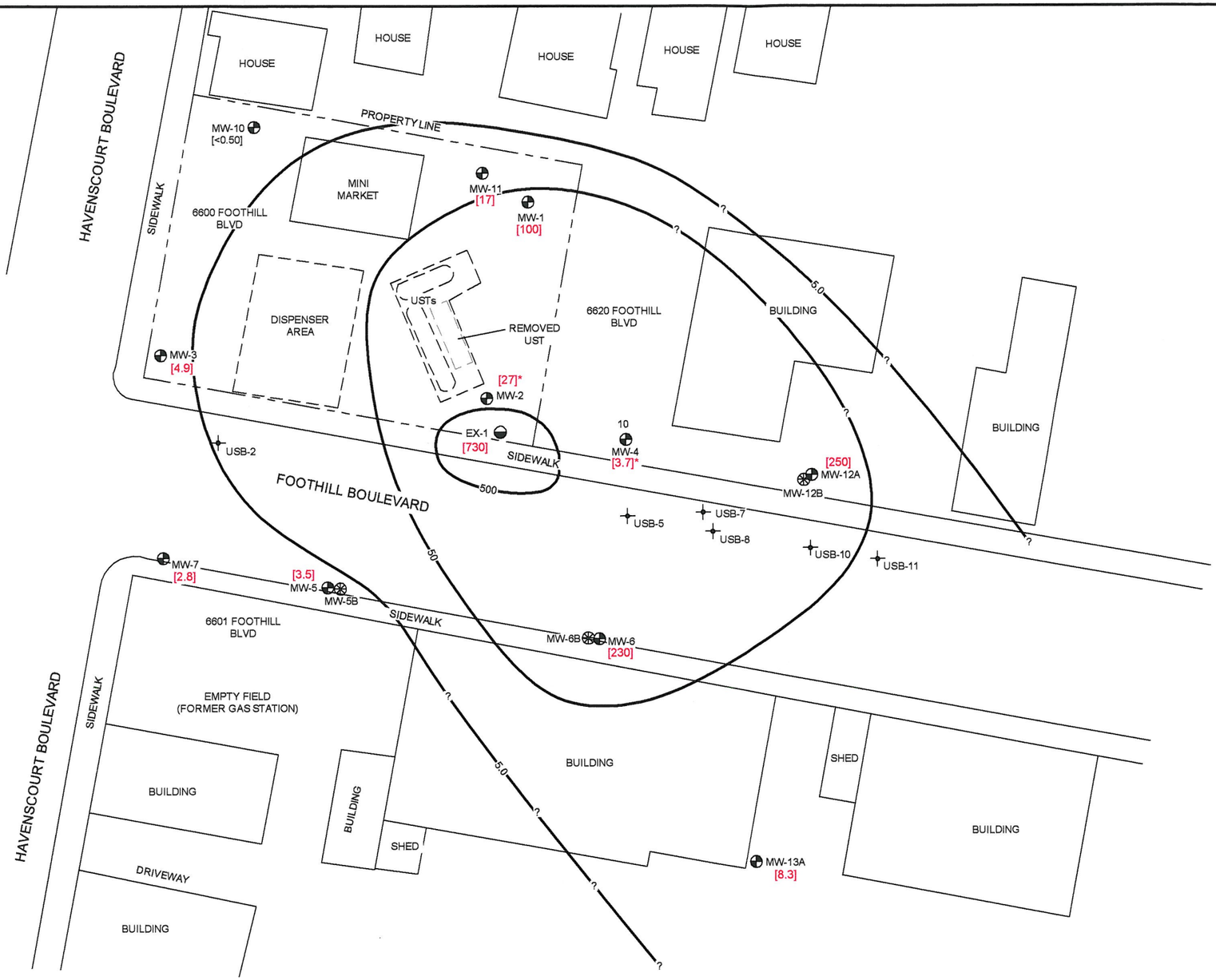
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

BENZENE ISO-CONCENTRATION CONTOUR MAP
SHALLOW SCREENED WELLS
2nd QUARTER 2011

FIGURE
5

PROJECT NO.
2087-6600-01

Foothill Mini Mart\Quarterly JMP REV July 14, 2011 Foothill Quarterly Figures



LEGEND:

MW-1	SHALLOW SCREENED MONITORING WELL LOCATION
MW-5B	DEEP SCREENED MONITORING WELL LOCATION
EX-1	APPROXIMATE EXTRACTION WELL LOCATION
USB-2	UTILITY CORRIDOR SOIL BORING LOCATION
[<0.50]	METHYL TERTIARY BUTYL ETHER (MTBE) IN µg/L

WELLS SAMPLED ON 5/26/11
MTBE ANALYZED BY EPA METHOD 8260B
* NOT USED FOR CONTOURING

NOTE: LOCATIONS OF SITE FEATURES, WELLS, & BORINGS ARE APPROXIMATE

Foothill Mini Mart\Quarterly JMP REV July 14, 2011 Foothill Quarterly Figures

STRATUS ENVIRONMENTAL, INC.

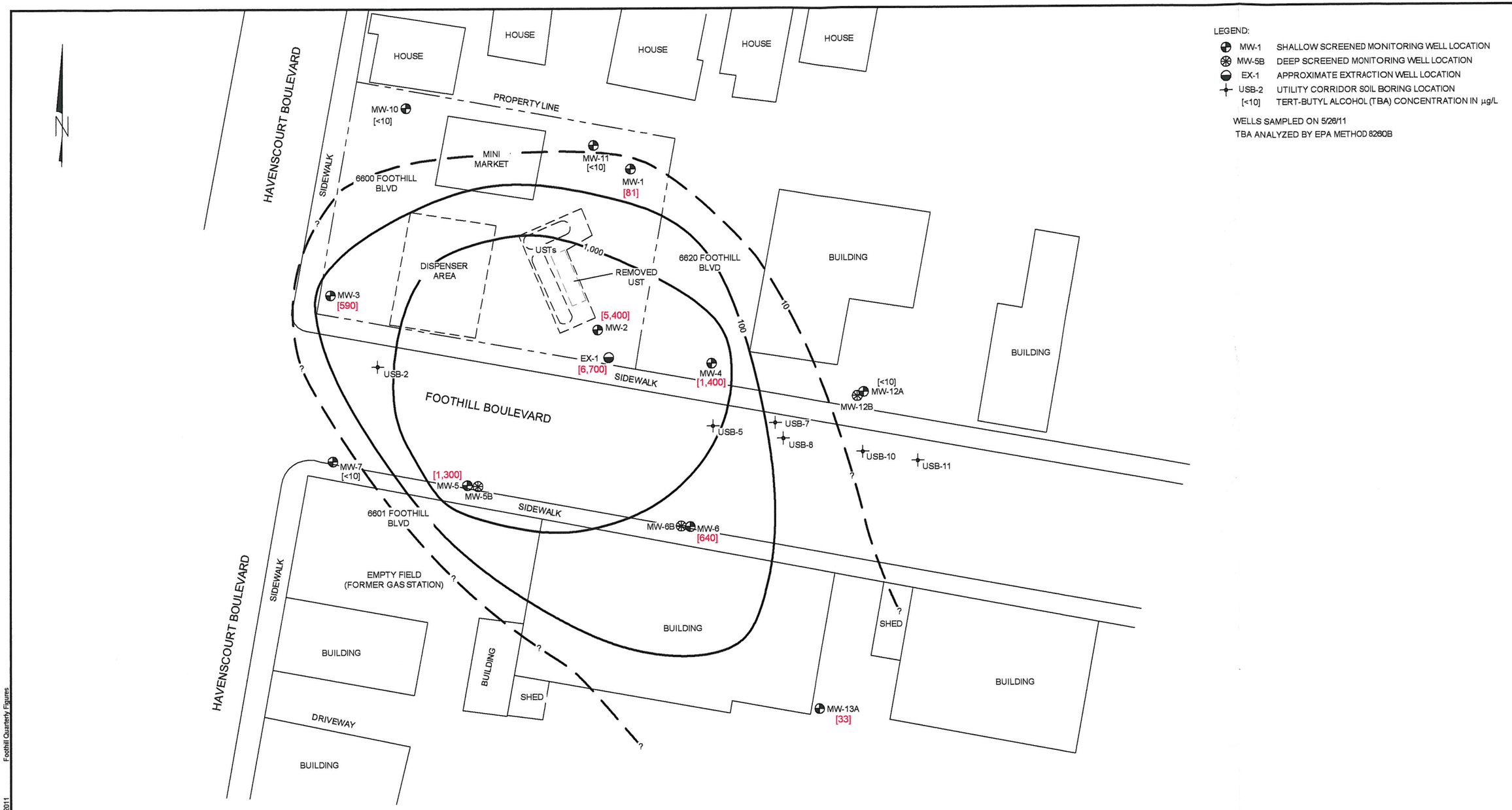
0 40 FT
SCALE

FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

MTBE ISO-CONCENTRATION CONTOUR MAP
SHALLOW SCREENED WELLS
2nd QUARTER 2011

FIGURE
6

PROJECT NO.
2087-6600-01



LEGEND:

MW-1	SHALLOW SCREENED MONITORING WELL LOCATION
MW-5B	DEEP SCREENED MONITORING WELL LOCATION
EX-1	APPROXIMATE EXTRACTION WELL LOCATION
USB-2	UTILITY CORRIDOR SOIL BORING LOCATION
[<10]	TERT-BUTYL ALCOHOL (TBA) CONCENTRATION IN µg/L

WELLS SAMPLED ON 5/26/11
TBA ANALYZED BY EPA METHOD 8260B

NOTE: LOCATIONS OF SITE FEATURES, WELLS, & BORINGS ARE APPROXIMATE

STRATUS ENVIRONMENTAL, INC.

0 40 FT
SCALE

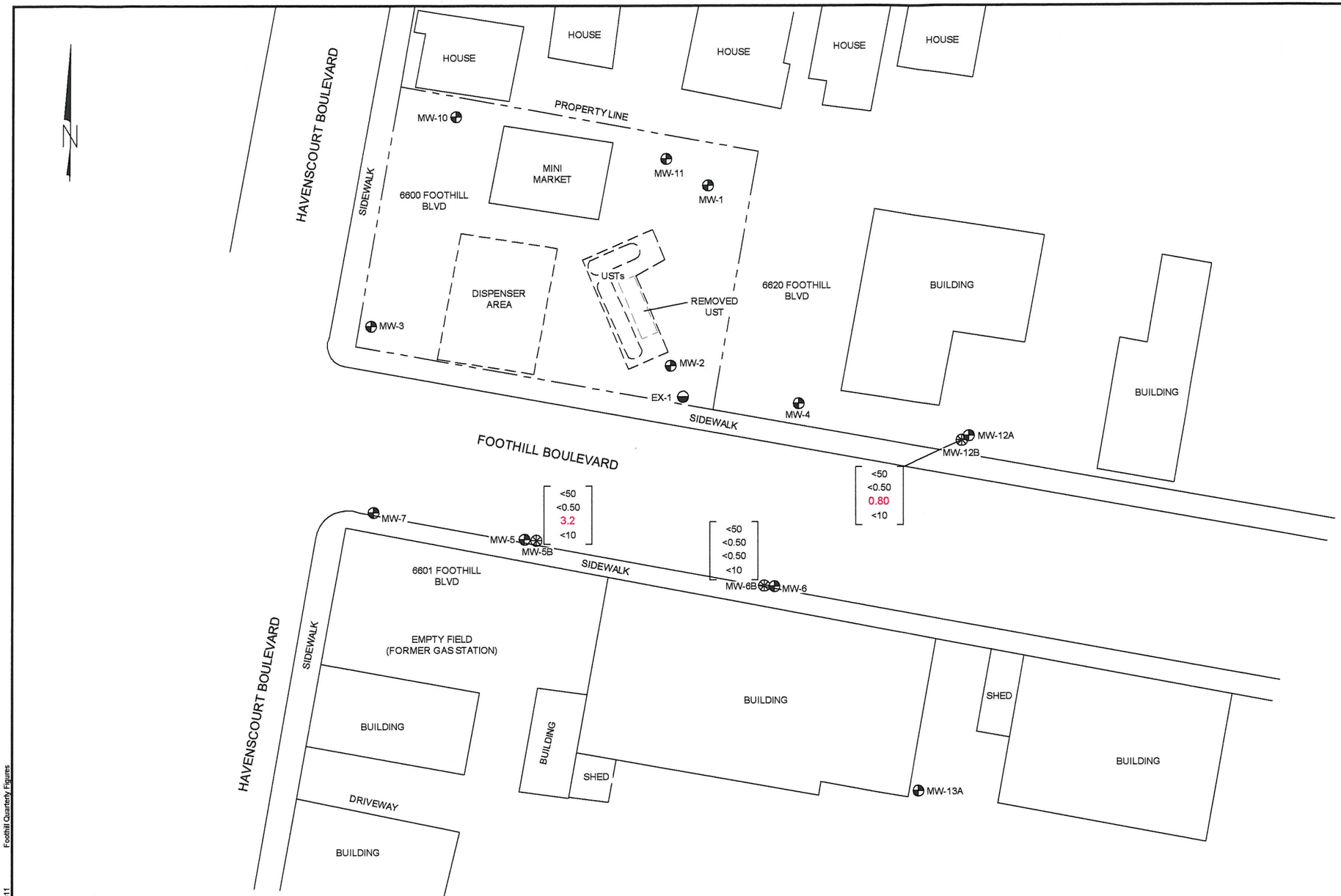
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

TBA ISO-CONCENTRATION CONTOUR MAP
SHALLOW SCREENED WELLS
2nd QUARTER 2011

FIGURE
7

PROJECT NO.
2087-6600-01

JMP REV July 14, 2011 Foothill Quarterly Figures
Foothill Mini Mart\Quarterly



LEGEND:

- MW-1 SHALLOW SCREENED MONITORING WELL LOCATION
- MW-5B DEEP SCREENED MONITORING WELL LOCATION
- EX-1 APPROXIMATE EXTRACTION WELL LOCATION

[<50 GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN µg/L
<50 BENZENE CONCENTRATION IN µg/L
<0.50 METHYL TERTIARY BUTYL ETHER (MTBE) IN µg/L
<10] TERT-BUTYL ALCOHOL (TBA) CONCENTRATION IN µg/L

WELLS SAMPLED ON 5/26/11
GRO ANALYZED BY EPA METHOD 8015B
TBA, MTBE, & BENZENE ANALYZED BY EPA METHOD 8260B

NOTE: LOCATIONS OF SITE FEATURES, WELLS, & BORINGS ARE APPROXIMATE

STRATUS ENVIRONMENTAL, INC.

0 40 FT
SCALE

FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

GROUNDWATER ANALYTICAL SUMMARY
DEEP SCREENED WELLS
2nd QUARTER 2011

FIGURE
8

PROJECT NO.
2087-6600-01

Foothill Mini Mart\Quarterly JMP REV July 14, 2011 Foothill Quarterly Figures

APPENDIX A

FIELD DATA SHEETS

STRATUS ENVIRONMENTAL, INC.

Site Address: 6600 Foothill Blvd
City: Oakland
Sampled by:
Signature:

Site Number: Foothill Mini Mart
Project Number: 2087-6600-01
Project PM: Scott Bittinger
DATE: 5-26-11

Water Level Data					Purge Volume Calculations					Purge Method				Sample Record			Field Data
Well ID	Time	Depth to Product (feet)	Depth to Water (feet)	Total Depth (feet)	Water column (feet)	Diameter (inches)	Multiplier	3 casing volumes (gallons)	Actual water purged (gallons)	No Purge	Bailer	Pump	other	DTW at sample time (feet)	Sample I.D	Sample Time	DO (mg/L)
MW-1	0447		9.51	24.18	15.67	2	.5	8	8		X			10.82	MW-1	0921	0.63
MW-2	0442		10.51	24.34	13.49	2	.5	7	7		X			15.03	2	1032	2.41
MW-3	0444		9.95	23.61	13.17	2	.5	6	6		X			10.25	3	0709	3.87
MW-4	0449		5.87	19.55	13.68	2	.5	7	7		X			5.93	4	0843	.61
MW-5	0439		8.08	19.21	10.52	2	.5	5	5		X			09.03	5	0615	4.12
MW-5B	0440		12.51	45.19	32.49	2	.5	16	16		X		Low	30.52	5B	0811	3.57
MW-6	0437		5.73	18.60	12.87	2	.5	6.5	6.5		X			0749	6	0822	0.75
MW-6B	0436	9	34.70	48.81	12.11	2	.5	6	6		X			39.82	6B	0817	8.93
MW-7	0453		11.17	24.64	12.55	2	.5	6	6		X			12.43	7	0516	3.42
MW-10	0445		10.45	24.90	13.55	2	.5	7	7		X		Low	13.30	10	1001	3.11
MW-11	0446		10.50	24.79	13.49	2	.5	7	7		X			10.80	11	0936	.54
MW-12A	0450		8.54	21.20	12.66	2	.5	6.5	6.5		X			9.35	12A	0903	0.35
MW-12B	0451		36.75	43.28	6.53	2	.5	3.5	3.5		X			39.81	12B	0908	1.48
MW-13A	1036		6.37	24.40	17.63	2	.5	8	8		X			8.11	MW-13A	1055	2.43
EX-1	0441		10.26	29.30	18.74	4	2	37	37		X			11.62	EX-1	1046	2.44

Multiplier
2" = 0.5 3" = 1.0 4" = 2.0 6" = 4.4

Please refer to groundwater sampling field procedures
pH/Conductivity/temperature Meter - Oakton Model PC-10
DO Meter - Oakton 300 Series (DO is always measured before purge)

CALIBRATION DATE
pH 5.25-11
Conductivity
DO

T:\Forms

ORIGINAL

STRATUS ENVIRONMENTAL, INC.

Site Address 6600 Foothill Blvd
City Oakland
Sampled By:
Signature CHILL

Site Number Foothill Mini Mart
Project Number 2087-6600-01
Project PM Scott Bittinger
DATE 5-24-11

Well ID MW-7

Purge start time			Odor Y (N)	
	Temp C	pH	cond	gallons
time 0504	16.0	6.78	572	4
time 0508	16.7	6.68	495	3
time 0516	16.5	6.73	532	6
time				
purge stop time DO 2.42			ORP 263	

Well ID MW-5

Purge start time			Odor Y (N)	
	Temp C	pH	cond	gallons
time 0537	16.4	6.43	357	2
time 0541	16.9	6.49	346	3
time 0544	16.5	6.49	349	5
time				
purge stop time DO 4.12			ORP 241	

Well ID MW5B

Purge start time			Odor Y (N)	
	Temp C	pH	cond	gallons
time 0549	17.7	6.79	423	8
time 0559	17.9	6.81	432	8
time 0610	LOW			16
time 0810	17.9	6.91	366	(16)
purge stop time 0610			ORP 208	

Well ID MW-10

Purge start time			Odor Y (N)	
	Temp C	pH	cond	gallons
time 0627	16.2	6.27	392	6
time 0632	16.8	6.33	395	3
time 0636	LOW			7
time 1001	18.3	6.42	362	(7.0)
purge stop time 0636			ORP 192	

Well ID MW-3

Purge start time			Odor (Y) N	
	Temp C	pH	cond	gallons
time 0650	16.9	6.35	387	2
time 0655	18.2	6.28	373	3
time 0705	18.1	6.29	380	6
time				
purge stop time 0705			ORP 191	

Well ID EX-1

Purge start time			Odor (Y) N	
	Temp C	pH	cond	gallons
time 0712	17.7	6.21	487	8
time 0717	17.7	6.30	568	15
time 0722	LOW			37
time 1046	19.6	6.52	431	(37)
purge stop time 0722			ORP 153	

Well ID MW-2

Purge start time			Odor (Y) N	
	Temp C	pH	cond	gallons
time 0732	17.9	6.17	567	8
time 0739	18.2	6.13	528	3
time 0740	LOW			7
time 1032	19.7	6.39	454	7.0
purge stop time 0740			ORP 194	

Well ID MW-13A

Purge start time			Odor (Y) N	
	Temp C	pH	cond	gallons
time 1038	17.3	6.96	314	6
time 1043	17.0	6.75	292	4
time 1047	17.0	6.78	257	8
time				
purge stop time			ORP 204	

STRATUS ENVIRONMENTAL, INC.

Site Address 6600 Foothill Blvd
City Oakland
Sampled By:
Signature V Z

Site Number Foothill Mini Mart
Project Number 2087-6600-01
Project PM Scott Bittinger
DATE 5-26-11

Well ID	MW-6B				Odor Y (N)
Purge start time	0530				
Bail	Temp C	pH	cond	gallons	
time 0530	17.2	6.93	369	⊘	
time 0536	19.5	6.97	343	3.0	
time 0543	Low		@	6.0	
time 0817	19.5	6.93	368	(6.0)	
purge stop time	0543		ORP	112	

Well ID	MW-6				Odor (Y) N
Purge start time	0547				
Bail	Temp C	pH	cond	gallons	
time 0547	17.5	6.63	362	⊘	
time 0552	18.2	6.61	359	3.5	
time 0557	Low		@	6.5	
time 0822	18.3	6.68	347	(6.5)	
purge stop time	0557		ORP	64	

Well ID	MW-4				sheen Odor (Y) N
Purge start time	0611				
Bail	Temp C	pH	cond	gallons	
time 0611	18.5	6.64	353	⊘	
time 0617	19.1	6.68	354	3.5	
time 0623	Low		@	7.0	
time 0843	18.5	6.78	328	(7.0)	
purge stop time	0623		ORP	-62	

Well ID	MW-12B				Odor Y (N)
Purge start time	0631				
Bail	Temp C	pH	cond	gallons	
time 0631	19.0	7.16	515	⊘	
time 0636	19.9	7.23	522	2.0	
time 0640	Low		@	3.5 gal	
time 0908	20.0	7.07	560	(3.5)	
purge stop time	0640		ORP	14	

Well ID	12A				Odor Y (N)
Purge start time	0643				
Bail	Temp C	pH	cond	gallons	
time 0643	19.1	6.56	287	⊘	
time 0648	19.0	6.52	290	3.5	
time 0652	Low		@	6.50	
time 0903	19.4	6.50	283	(6.50)	
purge stop time	0652		ORP	1	

Well ID	MW-1				Odor Y (N)
Purge start time	0701				
Bail	Temp C	pH	cond	gallons	
time 0701	18.7	6.07	288	⊘	
time 0708	18.9	6.07	300	4.0	
time 0715	Low		@	8.0	
time 0921	19.1	6.13	314	(8.0)	
purge stop time	0715		ORP	44	

Well ID	MW-11				Odor Y (N)
Purge start time	0719				
Bail	Temp C	pH	cond	gallons	
time 0719	18.3	5.97	533	⊘	
time 0726	18.4	6.00	536	3.5	
time 0732	Low		@	7.00	
time 0936	19.0	6.06	530	(7.00)	
purge stop time	0732		ORP	75	

Well ID					Odor Y N
Purge start time					
	Temp C	pH	cond	gallons	
time					
time					
time					
time					
purge stop time			ORP		

30-DAY O_3/H_2O_2 PILOT TEST FIELD DATA

Foothill Mini-Mart
6000 Foothill Boulevard
Oakland, California

Date: 5-26-11
Arrival Time: 0400
Departure Time: 1246
Technician: CHILL
Weather Conditions: Clouds
Ambient Temperature: 48
Equipment Manufacturer / Model No.:

ORIGINAL

Ozone (O_3) Injection System

System currently injecting into well IW-1B?	☒ yes	☐ no
System currently injecting into well IW-2B?	☒ yes	☐ no
Status Upon Arrival:	☐ ON	☒ OFF
Status Upon Departure:	☒ ON	☐ OFF
Hour Meter Reading:	0	
Injection Pressure IW-1B (psi):	35	
Injection Time IW-1B (min):	20	
Injection Pressure IW-2B (psi):	[illegible]	
Injection Time IW-2B (min):	20	
Oxygen flow rate (scfh):	17	
Air + ozone flow rate (scfm):	2.7	

Hydrogen Perioxide (H_2O_2) Injection System

System currently injecting into well IW-1A?	☒ yes	☐ no
System currently injecting into well IW-2A?	☒ yes	☐ no
Status Upon Arrival:	☐ ON	☒ OFF
Status Upon Departure:	☐ ON	☒ OFF

10% solution H_2O_2

Injection flow rate IW-1A (ml/min) _____

Injection flow rate IW-2A (ml/min) _____

pH/Cond/Temp Meter: _____ (CALIBRATE EVERY VISIT)

ORP Meter: _____ (CALIBRATE EVERY VISIT)

DO Meter: _____ (CALIBRATE EVERY VISIT)

Field Measurements (Each Visit)

Well ID	Time	DTW	pH	DO	Conductivity	Temperature	ORP		
		feet bgs	units	mg/L	µsiemen/cm	deg C	mV		
MW-2									
MW-4									
MW-5	See QM Data								
MW-6									
MW-10									
EX-1									

Notes/Comments:
Peroxide Not on Need Fittings for Stainless wells

30-DAY O_3/H_2O_2 PILOT TEST FIELD DATA

Foothill Mini-Mart
6000 Foothill Boulevard
Oakland, California

Date: 5-27-11
Arrival Time: 0530
Departure Time: 0745

Technician: CHILL
Weather Conditions: Cloudy
Ambient Temperature: 50

Equipment Manufacturer / Model No.: _____

Ozone (O_3) Injection System

System currently injecting into well IW-1B?	☒ yes	☐ no
System currently injecting into well IW-2B?	☒ yes	☐ no
Status Upon Arrival:	☒ ON	☐ OFF
Status Upon Departure:	☒ ON	☐ OFF

Hour Meter Reading: _____
Injection Pressure IW-1B (psi): 31
Injection Time IW-1B (min): 20
Injection Pressure IW-2B (psi): 25
Injection Time IW-2B (min): 20
Oxygen flow rate (scfh): 2.2 15
Air + ozone flow rate (scfm): 3.2

Hydrogen Perioxide (H_2O_2) Injection System

System currently injecting into well IW-1A?	☐ yes	☒ no
System currently injecting into well IW-2A?	☐ yes	☒ no
Status Upon Arrival:	☐ ON	☒ OFF
Status Upon Departure:	☐ ON	☒ OFF

10% solution H_2O_2
Injection flow rate IW-1A (ml/min) _____
Injection flow rate IW-2A (ml/min) _____
pH/Cond/Temp Meter: _____ (CALIBRATE EVERY VISIT)
ORP Meter: _____ (CALIBRATE EVERY VISIT)
DO Meter: _____ (CALIBRATE EVERY VISIT)

Field Measurements (Each Visit)

Well ID	Time	DTW	pH	DO	Conductivity	Temperature	ORP		
		feet bgs	units	mg/L	µsiemen/cm	deg C	mV		
MW-2									
MW-4									
MW-5	No Readings								
MW-6									
MW-10									
EX-1									

Notes/Comments:
No Float Switch
For Tank -

30-DAY O_3/H_2O_2 PILOT TEST FIELD DATA

Foothill Mini-Mart
6000 Foothill Boulevard
Oakland, California

Date: 6-1-11
Arrival Time: 0600
Departure Time: 0730

Technician: CHILL
Weather Conditions: Cloud
Ambient Temperature: 50

Equipment Manufacturer / Model No.:

Ozone (O_3) Injection System

System currently injecting into well IW-1B?	☒ yes	☐ no
System currently injecting into well IW-2B?	☒ yes	☐ no
Status Upon Arrival:	☐ ON	☒ OFF
Status Upon Departure:	☒ ON	☐ OFF

Hour Meter Reading: 14751 Gen Hrs
Injection Pressure IW-1B (psi): 25
Injection Time IW-1B (min): 20
Injection Pressure IW-2B (psi): 25
Injection Time IW-2B (min): 20
Oxygen flow rate (scfh): 17
Air + ozone flow rate (scfm): 3.4

Hydrogen Perioxide (H_2O_2) Injection System

System currently injecting into well IW-1A?	☒ yes	☐ no
System currently injecting into well IW-2A?	☒ yes	☐ no
Status Upon Arrival:	☑ ON	☒ OFF
Status Upon Departure:	☒ ON	☐ OFF

10% solution H_2O_2
Injection flow rate IW-1A (ml/min) 5
Injection flow rate IW-2A (ml/min) 5
pH/Cond/Temp Meter: 6-1-11 (CALIBRATE EVERY VISIT)
ORP Meter: (CALIBRATE EVERY VISIT)
DO Meter: (CALIBRATE EVERY VISIT)

Field Measurements (Each Visit)

Well ID	Time	DTW	pH	DO	Conductivity	Temperature	ORP		
		feet bgs	units	mg/L	µsiemen/cm	deg C	mV		
MW-2		8.55	6.18	5.53	629	17.8	246		
MW-4		7.40	6.36	4.63	342	17.3	242		
MW-5		8.11	6.90	3.17	344	16.0	236		
MW-6		6.22	6.65	1.26	458	16.4	276		
MW-10	10.72	8.64	6.28	2.44	411	15.9	238		
EX-1		9.35	6.84	7.68	551	18.3	252	ozone odor	

Notes/Comments:
Out of Propane

30-DAY O_3/H_2O_2 PILOT TEST FIELD DATA

Foothill Mini-Mart
6000 Foothill Boulevard
Oakland, California

ORIGINAL

Date: 6-6-11
Technician: CHILL
Arrival Time: 0400
Weather Conditions: Cloudy
Departure Time: 0900
Ambient Temperature: 60
Equipment Manufacturer / Model No.:

Ozone (O_3) Injection System

System currently injecting into well IW-1B?	☒ yes	☐ no
System currently injecting into well IW-2B?	☒ yes	☐ no
Status Upon Arrival:	☐ ON	☒ OFF
Status Upon Departure:	☒ ON	☐ OFF

Hour Meter Reading: 14898
Injection Pressure IW-1B (psi): 26
Injection Time IW-1B (min): 20
Injection Pressure IW-2B (psi): 25
Injection Time IW-2B (min): 20
Oxygen flow rate (scfh): 17
Air + ozone flow rate (scfm): 3.4

Hydrogen Perioxide (H_2O_2) Injection System

System currently injecting into well IW-1A?	☒ yes	☐ no
System currently injecting into well IW-2A?	☒ yes	☐ no
Status Upon Arrival:	☐ ON	☒ OFF
Status Upon Departure:	☒ ON	☐ OFF

10% solution H_2O_2
Injection flow rate IW-1A (ml/min) 5
Injection flow rate IW-2A (ml/min) 5
pH/Cond/Temp Meter: 6-7-11 (CALIBRATE EVERY VISIT)
ORP Meter: (CALIBRATE EVERY VISIT)
DO Meter: (CALIBRATE EVERY VISIT)

Field Measurements (Each Visit)

Well ID	Time	DTW feet bgs	pH units	DO mg/L	Conductivity µsiemen/cm	Temperature deg C	ORP mV		
MW-2	0452	6.32	6.54	10.27	645	18.4	260		
MW-4	0427	5.13	6.56	9.36	367	17.1	274		
MW-5	0425	7.36	6.56	1.92	347	16.3	179		
MW-6	0437	5.02	6.63	2.42	440	16.6	229		
MW-10	0454	7.40	6.12	1.32	427	17.0	255		
EX-1	0450	11.10	6.90	0.54	519	17.7	208		

Notes/Comments:
@ System Down Gen. out Think ran out Propane - was Running 4AM 6-7-11

Sample B10's

30-DAY O_3/H_2O_2 PILOT TEST FIELD DATA

Foothill Mini-Mart
6000 Foothill Boulevard
Oakland, California

ORIGINAL

Date: 6/4/11
Arrival Time: 0900
Departure Time: 1017

Technician: CHILL
Weather Conditions: Clear
Ambient Temperature: 65

Equipment Manufacturer / Model No.:

Ozone (O_3) Injection System

System currently injecting into well IW-1B?	☒ yes	☐ no
System currently injecting into well IW-2B?	☒ yes	☐ no
Status Upon Arrival:	☒ ON	☐ OFF
Status Upon Departure:	☐ ON	☐ OFF

Hour Meter Reading: 15046
Injection Pressure IW-1B (psi): 25
Injection Time IW-1B (min): 20
Injection Pressure IW-2B (psi): 25
Injection Time IW-2B (min): 20
Oxygen flow rate (scfh): 17
Air + ozone flow rate (scfm): 3.2

Hydrogen Perioxide (H_2O_2) Injection System

System currently injecting into well IW-1A?	☒ yes	☐ no
System currently injecting into well IW-2A?	☒ yes	☐ no
Status Upon Arrival:	☒ ON	☐ OFF
Status Upon Departure:	☒ ON	☐ OFF

10% solution H_2O_2
Injection flow rate IW-1A (ml/min)
Injection flow rate IW-2A (ml/min)
pH/Cond/Temp Meter: 6411 (CALIBRATE EVERY VISIT)
ORP Meter: (CALIBRATE EVERY VISIT)
DO Meter: (CALIBRATE EVERY VISIT)

Field Measurements (Each Visit)

Well ID	Time	DTW	pH	DO	Conductivity	Temperature	ORP		
		feet bgs	units	mg/L	µsiemen/cm	deg C	mV		
MW-2		4.62	6.41	12.43	614	19.2	306		
MW-4		5.32	6.65	10.45	347	15.3	199		
MW-5		7.67	6.56	2.02	~~650~~ 322	18.2	289		
MW-6		5.39	6.44	2.93	456	17.7	245		
MW-10		8.12	6.70	7.19	402	17.7	267		
EX-1		7.40	7.20	14.20	510	19.3	314		

Notes/Comments:
EX-1, MW-2, MW-4 Have silt Being Pushed into wells

30-DAY O_3/H_2O_2 PILOT TEST FIELD DATA

Foothill Mini-Mart
6000 Foothill Boulevard
Oakland, California

Date: 6-22-11
Arrival Time: 0800
Departure Time: 0945
Technician: CHILL
Weather Conditions: clear
Ambient Temperature: 70
Equipment Manufacturer / Model No.:

Ozone (O_3) Injection System

System currently injecting into well IW-1B? ☒ yes ☐ no
System currently injecting into well IW-2B? ☒ yes ☐ no
Status Upon Arrival: ☒ ON ☐ OFF
Status Upon Departure: ☒ ON ☐ OFF
Hour Meter Reading: 15237
Injection Pressure IW-1B (psi): 21
Injection Time IW-1B (min): 20
Injection Pressure IW-2B (psi): 20
Injection Time IW-2B (min): 20
Oxygen flow rate (scfh): 17
Air + ozone flow rate (scfm): 3.2

Hydrogen Perioxide (H_2O_2) Injection System

System currently injecting into well IW-1A? ☒ yes ☐ no
System currently injecting into well IW-2A? ☒ yes ☐ no
Status Upon Arrival: ☒ ON ☐ OFF
Status Upon Departure: ☒ ON ☐ OFF
10% solution H_2O_2
Injection flow rate IW-1A (ml/min)
Injection flow rate IW-2A (ml/min)
pH/Cond/Temp Meter: 6-22-11 (CALIBRATE EVERY VISIT)
ORP Meter: (CALIBRATE EVERY VISIT)
DO Meter: (CALIBRATE EVERY VISIT)

Field Measurements (Each Visit)

Well ID	Time	DTW	pH	DO	Conductivity	Temperature	ORP		
		feet bgs	units	mg/L	µsiemen/cm	deg C	mV		
MW-2	0822	6.42	6.42	3.67	610	14.1	349		
MW-4	0840	5.60		3.84	308	18.3	203		
MW-5	0833	7.99	6.25	3.17	336	17.9	195		
MW-6	0830	5.74	6.52	3.72	463	15.0	252		
MW-10	0821	8.45	7.32	4.14	402	17.7	323		
EX-1	0824	9.42	6.94	3.99	502	19.2	354		

Notes/Comments:

30-DAY O_3/H_2O_2 PILOT TEST FIELD DATA

Foothill Mini-Mart
6000 Foothill Boulevard
Oakland, California

ORIGINAL

Date: 6-28-16
Arrival Time: 0445
Departure Time: 0930

Technician: CHILL
Weather Conditions: Clouds
Ambient Temperature: 50

Equipment Manufacturer / Model No.:

Ozone (O_3) Injection System

System currently injecting into well IW-1B? ☒ yes ☐ no
System currently injecting into well IW-2B? ☒ yes ☐ no

Status Upon Arrival: ☒ ON ☐ OFF
Status Upon Departure: ☒ ON Test Done ☒ OFF
Hour Meter Reading: 15378
Injection Pressure IW-1B (psi): 20
Injection Time IW-1B (min): 20
Injection Pressure IW-2B (psi): 20
Injection Time IW-2B (min): 20
Oxygen flow rate (scfh): 17
Air + ozone flow rate (scfm): 3.2

Hydrogen Perioxide (H_2O_2) Injection System

System currently injecting into well IW-1A? ☒ yes ☐ no
System currently injecting into well IW-2A? ☒ yes ☐ no

Status Upon Arrival: ☒ ON ☐ OFF
Status Upon Departure: ☒ ON Test Done ☒ OFF
10% solution H_2O_2
Injection flow rate IW-1A (ml/min) .30
Injection flow rate IW-2A (ml/min) .25
pH/Cond/Temp Meter: 6254 (CALIBRATE EVERY VISIT)
ORP Meter: (CALIBRATE EVERY VISIT)
DO Meter: (CALIBRATE EVERY VISIT)

Field Measurements (Each Visit)

Well ID	Time	DTW	pH	DO	Conductivity	Temperature	ORP		
		feet bgs	units	mg/L	µsiemen/cm	deg C	mV		
MW-2	0621	6.77	6.10	7.01	617	18.4	311		0655
MW-4	0450	5.71	6.82	4.90	390	17.3	357		0509
MW-5	0513	8.12	6.51	3.30	352	17.1	339		0530
MW-6	0535	7.93	6.46	2.52	460	17.3	154		0645
MW-10	0610	9.51	6.28	4.64	398	16.8	243		0709
EX-1	0628	8.93	7.08	5.68	473	18.4	316		0650

Notes/Comments:
Simple wells

30-DAY O_3/H_2O_2 PILOT TEST FIELD DATA

Foothill Mini-Mart
6000 Foothill Boulevard
Oakland, California

ORIGINAL

Date: 7-11-11
Arrival Time: 0430
Departure Time: 0830

Technician: CHILL
Weather Conditions: Cloudy
Ambient Temperature: 50

Equipment Manufacturer / Model No.: ______

Ozone (O_3) Injection System

System currently injecting into well IW-1B? ☐ yes ☒ no
System currently injecting into well IW-2B? ☐ yes ☒ no
Status Upon Arrival: ☐ ON ☒ OFF
Status Upon Departure: ☐ ON ☒ OFF
Hour Meter Reading: ______
Injection Pressure IW-1B (psi): ______
Injection Time IW-1B (min): ______
Injection Pressure IW-2B (psi): ______
Injection Time IW-2B (min): ______
Oxygen flow rate (scfh): ______
Air + ozone flow rate (scfm): ______

Hydrogen Perioxide (H_2O_2) Injection System

System currently injecting into well IW-1A? ☐ yes ☒ no
System currently injecting into well IW-2A? ☐ yes ☒ no
Status Upon Arrival: ☐ ON ☒ OFF
Status Upon Departure: ☐ ON ☒ OFF
10% solution H_2O_2
Injection flow rate IW-1A (ml/min) ______
Injection flow rate IW-2A (ml/min) ______
pH/Cond/Temp Meter: ______ (CALIBRATE EVERY VISIT)
ORP Meter: ______ (CALIBRATE EVERY VISIT)
DO Meter: ______ (CALIBRATE EVERY VISIT)

Field Measurements (Each Visit)

Well ID	Time	DTW	pH	DO	Conductivity	Temperature	ORP		
		feet bgs	units	mg/L	µsiemen/cm	deg C	mV		
MW-2	0650	7.85	6.12	2.42	536	12.6	165		
MW-4	0500	5.74	6.96	3.80	508	18.0	302		
MW-5	0511	8.03	6.34	3.54	338	17.1	253		
MW-6	0535	5.82	6.36	2.84	439	17.0	160		
MW-10	0621	10.81	6.23	3.36	380	16.2	132		
EX-1	0655	12.05	6.09	3.83	446	18.9	197		

Notes/Comments: Final Samples Bio's + SCW-1, 2 Air Soil Samples

SCW-1 Summa 34192 25/12 0810
SCW-2 13659 30/10 0744

4 Drums onsite with Purge water

APPENDIX B

CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

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

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 05/26/11

Job: Foothill Mini Mart

Anions by IC
EPA Method 300.0

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **MW-2**					
Lab ID : STR11052641-02A	Nitrite (NO2) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 14:16
Date Sampled 05/26/11 10:32	Bromide	ND	250 µg/L	05/27/11 11:33	05/27/11 14:16
	Nitrate (NO3) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 14:16
	Sulfate (SO4)	29,000	500 µg/L	05/27/11 11:33	05/27/11 14:16
Client ID: **MW-4**					
Lab ID : STR11052641-04A	Nitrite (NO2) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 14:34
Date Sampled 05/26/11 08:43	Bromide	ND	250 µg/L	05/27/11 11:33	05/27/11 14:34
	Nitrate (NO3) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 14:34
	Sulfate (SO4)	4,700	500 µg/L	05/27/11 11:33	05/27/11 14:34
Client ID: **MW-5**					
Lab ID : STR11052641-05A	Nitrite (NO2) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 14:53
Date Sampled 05/26/11 06:15	Bromide	ND	250 µg/L	05/27/11 11:33	05/27/11 14:53
	Nitrate (NO3) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 14:53
	Sulfate (SO4)	6,000	500 µg/L	05/27/11 11:33	05/27/11 14:53
Client ID: **MW-6**					
Lab ID : STR11052641-07A	Nitrite (NO2) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 15:11
Date Sampled 05/26/11 08:22	Bromide	280	250 µg/L	05/27/11 11:33	05/27/11 15:11
	Nitrate (NO3) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 15:11
	Sulfate (SO4)	ND	500 µg/L	05/27/11 11:33	05/27/11 15:11
Client ID: **MW-10**					
Lab ID : STR11052641-10A	Nitrite (NO2) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 15:30
Date Sampled 05/26/11 10:01	Bromide	ND	250 µg/L	05/27/11 11:33	05/27/11 15:30
	Nitrate (NO3) - N	10,000	250 µg/L	05/27/11 11:33	05/27/11 15:30
	Sulfate (SO4)	65,000	500 µg/L	05/27/11 11:33	05/27/11 15:30
Client ID: **EX-1**					
Lab ID : STR11052641-15A	Nitrite (NO2) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 15:48
Date Sampled 05/26/11 10:46	Bromide	530	250 µg/L	05/27/11 11:33	05/27/11 15:48
	Nitrate (NO3) - N	870	250 µg/L	05/27/11 11:33	05/27/11 15:48
	Sulfate (SO4)	25,000	500 µg/L	05/27/11 11:33	05/27/11 15:48

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

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) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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.

6/6/11

Report Date

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

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 05/26/11

Job: Foothill Mini Mart

GC/MSD by Direct Injection
EPA Method SW8260B-DI

Parameter		Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **MW-1**					
Lab ID : STR11052641-01A	Methanol	ND	50 µg/L	05/31/11	06/01/11
Date Sampled 05/26/11 09:21	Ethanol	ND	5.0 µg/L	05/31/11	06/01/11
Client ID: **MW-2**					
Lab ID : STR11052641-02A	Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 10:32	Ethanol	ND	5.0 µg/L	05/31/11	05/31/11
Client ID: **MW-3**					
Lab ID : STR11052641-03A	Methanol	ND	50 µg/L	05/31/11	06/01/11
Date Sampled 05/26/11 07:05	Ethanol	ND	5.0 µg/L	05/31/11	06/01/11
Client ID: **MW-4**					
Lab ID : STR11052641-04A	Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 08:43	Ethanol	ND	5.0 µg/L	05/31/11	05/31/11
Client ID: **MW-5**					
Lab ID : STR11052641-05A	Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 06:15	Ethanol	ND	5.0 µg/L	05/31/11	05/31/11
Client ID: **MW-5B**					
Lab ID : STR11052641-06A	Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 08:11	Ethanol	ND	5.0 µg/L	05/31/11	05/31/11
Client ID: **MW-6**					
Lab ID : STR11052641-07A	Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 08:22	Ethanol	ND	5.0 µg/L	05/31/11	05/31/11
Client ID: **MW-6B**					
Lab ID : STR11052641-08A	Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 08:17	Ethanol	ND	5.0 µg/L	05/31/11	05/31/11
Client ID: **MW-7**					
Lab ID : STR11052641-09A	Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 05:16	Ethanol	ND	5.0 µg/L	05/31/11	05/31/11
Client ID: **MW-10**					
Lab ID : STR11052641-10A	Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 10:01	Ethanol	ND	5.0 µg/L	05/31/11	05/31/11
Client ID: **MW-11**					
Lab ID : STR11052641-11A	Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 09:36	Ethanol	ND	5.0 µg/L	05/31/11	05/31/11

Alpha Analytical, Inc.

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Client ID: **MW-12A**						
Lab ID :	STR11052641-12A	Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 09:03	Ethanol	ND	5.0 µg/L	05/31/11	05/31/11
Client ID: **MW-12B**						
Lab ID :	STR11052641-13A	Methanol	ND	50 µg/L	05/31/11	06/01/11
Date Sampled	05/26/11 09:08	Ethanol	ND	5.0 µg/L	05/31/11	06/01/11
Client ID: **MW-13A**						
Lab ID :	STR11052641-14A	Methanol	ND	50 µg/L	05/31/11	06/01/11
Date Sampled	05/26/11 10:55	Ethanol	ND	5.0 µg/L	05/31/11	06/01/11
Client ID: **EX-1**						
Lab ID :	STR11052641-15A	Methanol	ND	50 µg/L	05/31/11	06/01/11
Date Sampled	05/26/11 10:46	Ethanol	ND	5.0 µg/L	05/31/11	06/01/11

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

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) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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.

6/6/11
Report Date

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

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 05/26/11

Job: Foothill Mini Mart

Metals by ICPMS
EPA Method SW6020 / SW6020A

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **MW-2**					
Lab ID : STR11052641-02A	Magnesium (Mg)	38,000	500 µg/L	05/27/11	05/27/11
Date Sampled 05/26/11 10:32	Aluminum (Al)	31,000	200 µg/L	05/27/11	05/27/11
	Potassium (K)	3,900	500 µg/L	05/27/11	05/27/11
	Calcium (Ca)	39,000	500 µg/L	05/27/11	05/27/11
	Manganese (Mn)	1,400	5.0 µg/L	05/27/11	05/27/11
	Nickel (Ni)	150	10 µg/L	05/27/11	05/27/11
	Copper (Cu)	40	10 µg/L	05/27/11	05/27/11
	Arsenic (As)	14	5.0 µg/L	05/27/11	05/27/11
	Barium (Ba)	500	5.0 µg/L	05/27/11	05/27/11
Client ID: **MW-4**					
Lab ID : STR11052641-04A	Magnesium (Mg)	38,000	500 µg/L	05/27/11	05/27/11
Date Sampled 05/26/11 08:43	Aluminum (Al)	33,000	200 µg/L	05/27/11	05/27/11
	Potassium (K)	3,700	500 µg/L	05/27/11	05/27/11
	Calcium (Ca)	34,000	500 µg/L	05/27/11	05/27/11
	Manganese (Mn)	5,900	5.0 µg/L	05/27/11	05/27/11
	Nickel (Ni)	71	10 µg/L	05/27/11	05/27/11
	Copper (Cu)	43	10 µg/L	05/27/11	05/27/11
	Arsenic (As)	16	5.0 µg/L	05/27/11	05/27/11
	Barium (Ba)	420	5.0 µg/L	05/27/11	05/27/11
Client ID: **MW-5**					
Lab ID : STR11052641-05A	Magnesium (Mg)	25,000	500 µg/L	05/27/11	05/27/11
Date Sampled 05/26/11 06:15	Aluminum (Al)	2,700	200 µg/L	05/27/11	05/27/11
	Potassium (K)	ND	500 µg/L	05/27/11	05/27/11
	Calcium (Ca)	26,000	500 µg/L	05/27/11	05/27/11
	Manganese (Mn)	3,500	5.0 µg/L	05/27/11	05/27/11
	Nickel (Ni)	88	10 µg/L	05/27/11	05/27/11
	Copper (Cu)	ND	10 µg/L	05/27/11	05/27/11
	Arsenic (As)	6.5	5.0 µg/L	05/27/11	05/27/11
	Barium (Ba)	140	5.0 µg/L	05/27/11	05/27/11
Client ID: **MW-6**					
Lab ID : STR11052641-07A	Magnesium (Mg)	33,000	500 µg/L	05/27/11	05/27/11
Date Sampled 05/26/11 08:22	Aluminum (Al)	3,700	200 µg/L	05/27/11	05/27/11
	Potassium (K)	520	500 µg/L	05/27/11	05/27/11
	Calcium (Ca)	30,000	500 µg/L	05/27/11	05/27/11
	Manganese (Mn)	4,700	5.0 µg/L	05/27/11	05/27/11
	Nickel (Ni)	12	10 µg/L	05/27/11	05/27/11
	Copper (Cu)	ND	10 µg/L	05/27/11	05/27/11
	Arsenic (As)	7.3	5.0 µg/L	05/27/11	05/27/11
	Barium (Ba)	120	5.0 µg/L	05/27/11	05/27/11

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Client ID: **MW-10**					
Lab ID : STR11052641-10A	Magnesium (Mg)	14,000	500 µg/L	05/27/11	05/27/11
Date Sampled 05/26/11 10:01	Aluminum (Al)	790	200 µg/L	05/27/11	05/27/11
	Potassium (K)	ND	500 µg/L	05/27/11	05/27/11
	Calcium (Ca)	17,000	500 µg/L	05/27/11	05/27/11
	Manganese (Mn)	16	5.0 µg/L	05/27/11	05/27/11
	Nickel (Ni)	30	10 µg/L	05/27/11	05/27/11
	Copper (Cu)	ND	10 µg/L	05/27/11	05/27/11
	Arsenic (As)	ND	5.0 µg/L	05/27/11	05/27/11
	Barium (Ba)	85	5.0 µg/L	05/27/11	05/27/11
Client ID: **EX-1**					
Lab ID : STR11052641-15A	Magnesium (Mg)	26,000	500 µg/L	05/27/11	05/27/11
Date Sampled 05/26/11 10:46	Aluminum (Al)	560	200 µg/L	05/27/11	05/27/11
	Potassium (K)	900	500 µg/L	05/27/11	05/27/11
	Calcium (Ca)	45,000	500 µg/L	05/27/11	05/27/11
	Manganese (Mn)	460	5.0 µg/L	05/27/11	05/27/11
	Nickel (Ni)	21	10 µg/L	05/27/11	05/27/11
	Copper (Cu)	ND	10 µg/L	05/27/11	05/27/11
	Arsenic (As)	ND	5.0 µg/L	05/27/11	05/27/11
	Barium (Ba)	96	5.0 µg/L	05/27/11	05/27/11

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

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) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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.

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6/6/11
Report Date

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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 : 05/26/11

Job: Foothill Mini Mart

Sulfide
SM4500-S D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **MW-2**				
Lab ID : STR11052641-02A Sulfide	ND	100 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 10:32				
Client ID: **MW-4**				
Lab ID : STR11052641-04A Sulfide	ND	100 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 08:43				
Client ID: **MW-5**				
Lab ID : STR11052641-05A Sulfide	ND	100 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 06:15				
Client ID: **MW-6**				
Lab ID : STR11052641-07A Sulfide	240	100 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 08:22				
Client ID: **MW-10**				
Lab ID : STR11052641-10A Sulfide	ND	100 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 10:01				
Client ID: **EX-1**				
Lab ID : STR11052641-15A Sulfide	ND	100 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 10:46				

ND = Not Detected
Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

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) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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.

6/6/11
Report Date

Alpha Analytical, Inc.

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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 : 05/26/11

Job: Foothill Mini Mart

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

		Parameter	Concentration		Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**MW-1**						
Lab ID :	STR11052641-01A	TPH-P (GRO)	57		50 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 09:21	Tertiary Butyl Alcohol (TBA)	81		10 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	100		0.50 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	05/31/11	05/31/11
		Benzene	ND		0.50 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	05/31/11	05/31/11
		Toluene	ND		0.50 µg/L	05/31/11	05/31/11
		Ethylbenzene	ND		0.50 µg/L	05/31/11	05/31/11
		m,p-Xylene	ND		0.50 µg/L	05/31/11	05/31/11
		o-Xylene	ND		0.50 µg/L	05/31/11	05/31/11
Client ID :	**MW-2**						
Lab ID :	STR11052641-02A	TPH-P (GRO)	ND	V	500 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 10:32	Tertiary Butyl Alcohol (TBA)	5,400		50 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	27		2.5 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND	V	5.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	5.0 µg/L	05/31/11	05/31/11
		Benzene	ND	V	2.5 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND	V	5.0 µg/L	05/31/11	05/31/11
		Toluene	ND	V	2.5 µg/L	05/31/11	05/31/11
		Ethylbenzene	ND	V	2.5 µg/L	05/31/11	05/31/11
		m,p-Xylene	ND	V	2.5 µg/L	05/31/11	05/31/11
		o-Xylene	ND	V	2.5 µg/L	05/31/11	05/31/11
Client ID :	**MW-3**						
Lab ID :	STR11052641-03A	TPH-P (GRO)	54		50 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 07:05	Tertiary Butyl Alcohol (TBA)	590		10 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	4.9		0.50 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	05/31/11	05/31/11
		Benzene	ND		0.50 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	05/31/11	05/31/11
		Toluene	ND		0.50 µg/L	05/31/11	05/31/11
		Ethylbenzene	ND		0.50 µg/L	05/31/11	05/31/11
		m,p-Xylene	ND		0.50 µg/L	05/31/11	05/31/11
		o-Xylene	ND		0.50 µg/L	05/31/11	05/31/11

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Client ID :	**MW-4**						
Lab ID :	STR11052641-04A	TPH-P (GRO)	4,000		500 µg/L	06/01/11	06/01/11
Date Sampled	05/26/11 08:43	Tertiary Butyl Alcohol (TBA)	1,400		50 µg/L	06/01/11	06/01/11
		Methyl tert-butyl ether (MTBE)	3.7		2.5 µg/L	06/01/11	06/01/11
		Di-isopropyl Ether (DIPE)	ND	V	5.0 µg/L	06/01/11	06/01/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	5.0 µg/L	06/01/11	06/01/11
		Benzene	ND	V	2.5 µg/L	06/01/11	06/01/11
		Tertiary Amyl Methyl Ether (TAME)	ND	V	5.0 µg/L	06/01/11	06/01/11
		Toluene	ND	V	2.5 µg/L	06/01/11	06/01/11
		Ethylbenzene	2.6		2.5 µg/L	06/01/11	06/01/11
		m,p-Xylene	ND	V	2.5 µg/L	06/01/11	06/01/11
		o-Xylene	ND	V	2.5 µg/L	06/01/11	06/01/11
Client ID :	**MW-5**						
Lab ID :	STR11052641-05A	TPH-P (GRO)	230		200 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 06:15	Tertiary Butyl Alcohol (TBA)	1,300		20 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	3.5		1.0 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND	V	2.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	2.0 µg/L	05/31/11	05/31/11
		Benzene	ND	V	1.0 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND	V	2.0 µg/L	05/31/11	05/31/11
		Toluene	ND	V	1.0 µg/L	05/31/11	05/31/11
		Ethylbenzene	ND	V	1.0 µg/L	05/31/11	05/31/11
		m,p-Xylene	ND	V	1.0 µg/L	05/31/11	05/31/11
		o-Xylene	ND	V	1.0 µg/L	05/31/11	05/31/11
Client ID :	**MW-5B**						
Lab ID :	STR11052641-06A	TPH-P (GRO)	ND		50 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 08:11	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	3.2		0.50 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	05/31/11	05/31/11
		Benzene	ND		0.50 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	05/31/11	05/31/11
		Toluene	ND		0.50 µg/L	05/31/11	05/31/11
		Ethylbenzene	ND		0.50 µg/L	05/31/11	05/31/11
		m,p-Xylene	ND		0.50 µg/L	05/31/11	05/31/11
		o-Xylene	ND		0.50 µg/L	05/31/11	05/31/11
Client ID :	**MW-6**						
Lab ID :	STR11052641-07A	TPH-P (GRO)	5,500		200 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 08:22	Tertiary Butyl Alcohol (TBA)	640		20 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	230		1.0 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND	V	2.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	2.0 µg/L	05/31/11	05/31/11
		Benzene	54		1.0 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND	V	2.0 µg/L	05/31/11	05/31/11
		Toluene	ND	V	1.0 µg/L	05/31/11	05/31/11
		Ethylbenzene	23		1.0 µg/L	05/31/11	05/31/11
		m,p-Xylene	29		1.0 µg/L	05/31/11	05/31/11
		o-Xylene	1.4		1.0 µg/L	05/31/11	05/31/11

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Client ID :	**MW-6B**					
Lab ID :	STR11052641-08A	TPH-P (GRO)	ND	50 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 08:17	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	05/31/11	05/31/11
		Benzene	ND	0.50 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	05/31/11	05/31/11
		Toluene	ND	0.50 µg/L	05/31/11	05/31/11
		Ethylbenzene	ND	0.50 µg/L	05/31/11	05/31/11
		m,p-Xylene	ND	0.50 µg/L	05/31/11	05/31/11
		o-Xylene	ND	0.50 µg/L	05/31/11	05/31/11
Client ID :	**MW-7**					
Lab ID :	STR11052641-09A	TPH-P (GRO)	ND	50 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 05:16	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	2.8	0.50 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	05/31/11	05/31/11
		Benzene	ND	0.50 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	05/31/11	05/31/11
		Toluene	ND	0.50 µg/L	05/31/11	05/31/11
		Ethylbenzene	ND	0.50 µg/L	05/31/11	05/31/11
		m,p-Xylene	ND	0.50 µg/L	05/31/11	05/31/11
		o-Xylene	ND	0.50 µg/L	05/31/11	05/31/11
Client ID :	**MW-10**					
Lab ID :	STR11052641-10A	TPH-P (GRO)	ND	50 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 10:01	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	05/31/11	05/31/11
		Benzene	ND	0.50 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	05/31/11	05/31/11
		Toluene	ND	0.50 µg/L	05/31/11	05/31/11
		Ethylbenzene	ND	0.50 µg/L	05/31/11	05/31/11
		m,p-Xylene	ND	0.50 µg/L	05/31/11	05/31/11
		o-Xylene	ND	0.50 µg/L	05/31/11	05/31/11
Client ID :	**MW-11**					
Lab ID :	STR11052641-11A	TPH-P (GRO)	ND	50 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 09:36	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	17	0.50 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	05/31/11	05/31/11
		Benzene	ND	0.50 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	05/31/11	05/31/11
		Toluene	ND	0.50 µg/L	05/31/11	05/31/11
		Ethylbenzene	ND	0.50 µg/L	05/31/11	05/31/11
		m,p-Xylene	ND	0.50 µg/L	05/31/11	05/31/11
		o-Xylene	ND	0.50 µg/L	05/31/11	05/31/11

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Client ID :	**MW-12A**						
Lab ID :	STR11052641-12A	TPH-P (GRO)	140		50 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 09:03	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	250		0.50 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	05/31/11	05/31/11
		Benzene	ND		0.50 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	05/31/11	05/31/11
		Toluene	ND		0.50 µg/L	05/31/11	05/31/11
		Ethylbenzene	ND		0.50 µg/L	05/31/11	05/31/11
		m,p-Xylene	ND		0.50 µg/L	05/31/11	05/31/11
		o-Xylene	ND		0.50 µg/L	05/31/11	05/31/11
Client ID :	**MW-12B**						
Lab ID :	STR11052641-13A	TPH-P (GRO)	ND		50 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 09:08	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	0.80		0.50 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	05/31/11	05/31/11
		Benzene	ND		0.50 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	05/31/11	05/31/11
		Toluene	ND		0.50 µg/L	05/31/11	05/31/11
		Ethylbenzene	ND		0.50 µg/L	05/31/11	05/31/11
		m,p-Xylene	ND		0.50 µg/L	05/31/11	05/31/11
		o-Xylene	ND		0.50 µg/L	05/31/11	05/31/11
Client ID :	**MW-13A**						
Lab ID :	STR11052641-14A	TPH-P (GRO)	840		50 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 10:55	Tertiary Butyl Alcohol (TBA)	33		10 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	8.3		0.50 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	05/31/11	05/31/11
		Benzene	ND		0.50 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	05/31/11	05/31/11
		Toluene	ND		0.50 µg/L	05/31/11	05/31/11
		Ethylbenzene	ND		0.50 µg/L	05/31/11	05/31/11
		m,p-Xylene	ND		0.50 µg/L	05/31/11	05/31/11
		o-Xylene	ND		0.50 µg/L	05/31/11	05/31/11
Client ID :	**EX-1**						
Lab ID :	STR11052641-15A	TPH-P (GRO)	600		500 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 10:46	Tertiary Butyl Alcohol (TBA)	6,700		50 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	730		2.5 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND	V	5.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	5.0 µg/L	05/31/11	05/31/11
		Benzene	ND	V	2.5 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND	V	5.0 µg/L	05/31/11	05/31/11
		Toluene	ND	V	2.5 µg/L	05/31/11	05/31/11
		Ethylbenzene	ND	V	2.5 µg/L	05/31/11	05/31/11
		m,p-Xylene	ND	V	2.5 µg/L	05/31/11	05/31/11
		o-Xylene	ND	V	2.5 µg/L	05/31/11	05/31/11

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Gasoline Range Organics (GRO) C4-C13

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

ND = Not Detected

Reported in micrograms per Liter, per client request.

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) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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.

6/6/11

Report Date

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VOC Sample Preservation Report

Work Order: STR11052641 **Job:** Foothill Mini Mart

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11052641-01A	MW-1	Aqueous	2
11052641-02A	MW-2	Aqueous	2
11052641-03A	MW-3	Aqueous	2
11052641-04A	MW-4	Aqueous	2
11052641-05A	MW-5	Aqueous	2
11052641-06A	MW-5B	Aqueous	2
11052641-07A	MW-6	Aqueous	2
11052641-08A	MW-6B	Aqueous	2
11052641-09A	MW-7	Aqueous	2
11052641-10A	MW-10	Aqueous	2
11052641-11A	MW-11	Aqueous	2
11052641-12A	MW-12A	Aqueous	2
11052641-13A	MW-12B	Aqueous	2
11052641-14A	MW-13A	Aqueous	2
11052641-15A	EX-1	Aqueous	2

6/6/11

Report Date

Alpha Analytical, Inc.

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Date: *01-Jun-11*

QC Summary Report

Work Order: 11052641

Method Blank

Type **MBLK** Test Code: **EPA Method 300.0**

File ID: **21** Batch ID: **26634** Analysis Date: **05/27/2011 12:43**

Sample ID: **MB-26634** Units : **µg/L** Run ID: **IC_1_110527A** Prep Date: **05/27/2011 11:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	ND	250								
Bromide	ND	250								
Nitrate (NO3) - N	ND	250								
Sulfate (SO4)	ND	500								

Laboratory Fortified Blank

Type **LFB** Test Code: **EPA Method 300.0**

File ID: **22** Batch ID: **26634** Analysis Date: **05/27/2011 13:02**

Sample ID: **LFB-26634** Units : **µg/L** Run ID: **IC_1_110527A** Prep Date: **05/27/2011 11:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	4730	250	5000		95	90	110			
Bromide	4760	250	5000		95	90	110			
Nitrate (NO3) - N	5020	250	5000		100	90	110			
Sulfate (SO4)	94300	500	100000		94	90	110			

Sample Matrix Spike

Type **LFM** Test Code: **EPA Method 300.0**

File ID: **40** Batch ID: **26634** Analysis Date: **05/27/2011 18:35**

Sample ID: **11052705-05ALFM** Units : **µg/L** Run ID: **IC_1_110527A** Prep Date: **05/27/2011 11:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	9580	250	10000	0	96	80	120			
Bromide	10700	250	10000	0	107	80	120			
Nitrate (NO3) - N	10400	250	10000	0	104	80	120			
Sulfate (SO4)	220000	500	200000	46380	87	80	120			

Sample Matrix Spike Duplicate

Type **LFMD** Test Code: **EPA Method 300.0**

File ID: **41** Batch ID: **26634** Analysis Date: **05/27/2011 18:54**

Sample ID: **11052705-05ALFMD** Units : **µg/L** Run ID: **IC_1_110527A** Prep Date: **05/27/2011 11:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	9530	250	10000	0	95	80	120	9576	0.5(15)	
Bromide	10000	250	10000	0	100	80	120	10690	6.5(15)	
Nitrate (NO3) - N	10300	250	10000	0	103	80	120	10390	0.9(15)	
Sulfate (SO4)	223000	500	200000	46380	88	80	120	220100	1.1(15)	

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 Liter, per client request.

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Date: *02-Jun-11*

QC Summary Report

Work Order: 11052641

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B-DI**

File ID: **C:\HPCHEM\MS11\DATA\110531\11053109.D** Batch ID: **26645** Analysis Date: **05/31/2011 19:40**

Sample ID: **MBLK-26645** Units : **µg/L** Run ID: **MSD_11_110531A** Prep Date: **05/31/2011 12:16**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methanol	ND	50								
Ethanol	ND	5								
Surr: Hexafluoro-2-propanol	547		500		109	61	134			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B-DI**

File ID: **C:\HPCHEM\MS11\DATA\110531\11053105.D** Batch ID: **26645** Analysis Date: **05/31/2011 18:18**

Sample ID: **LCS-26645** Units : **µg/L** Run ID: **MSD_11_110531A** Prep Date: **05/31/2011 12:16**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methanol	255	50	250		102	44	145			
Ethanol	244	5	250		97	62	150			
Surr: Hexafluoro-2-propanol	517		500		103	61	134			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B-DI**

File ID: **C:\HPCHEM\MS11\DATA\110531\11053107.D** Batch ID: **26645** Analysis Date: **05/31/2011 18:59**

Sample ID: **11052641-02AMS** Units : **µg/L** Run ID: **MSD_11_110531A** Prep Date: **05/31/2011 12:16**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methanol	237	50	250	0	95	33	159			
Ethanol	243	5	250	0	97	56	153			
Surr: Hexafluoro-2-propanol	572		500		114	61	134			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B-DI**

File ID: **C:\HPCHEM\MS11\DATA\110531\11053108.D** Batch ID: **26645** Analysis Date: **05/31/2011 19:20**

Sample ID: **11052641-02AMSD** Units : **µg/L** Run ID: **MSD_11_110531A** Prep Date: **05/31/2011 12:16**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methanol	226	50	250	0	90	33	159	237.2	5.0(28)	
Ethanol	218	5	250	0	87	56	153	243.4	10.9(40)	
Surr: Hexafluoro-2-propanol	515		500		103	61	134			

Comments:

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Date: *01-Jun-11*

QC Summary Report

Work Order: 11052641

Method Blank

Type **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052611.B\094_M.D** Batch ID: **26637** Analysis Date: **05/27/2011 17:54**

Sample ID: **MB-26637** Units : **µg/L** Run ID: **ICP/MS_110527B** Prep Date: **05/27/2011 15:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	ND	500								
Aluminum (Al)	ND	200								
Potassium (K)	ND	500								
Calcium (Ca)	ND	500								
Manganese (Mn)	ND	5								
Nickel (Ni)	ND	10								
Copper (Cu)	ND	10								
Arsenic (As)	ND	5								
Barium (Ba)	ND	5								

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052611.B\095_M.D** Batch ID: **26637** Analysis Date: **05/27/2011 18:00**

Sample ID: **LCS-26637** Units : **µg/L** Run ID: **ICP/MS_110527B** Prep Date: **05/27/2011 15:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	52600	500	50000		105	80	120			
Aluminum (Al)	52100	200	50000		104	80	120			
Potassium (K)	52900	500	50000		106	80	120			
Calcium (Ca)	52000	500	50000		104	80	120			
Manganese (Mn)	2630	5	2500		105	80	120			
Nickel (Ni)	258	10	250		103	80	120			
Copper (Cu)	264	10	250		105	80	120			
Arsenic (As)	267	5	250		107	80	120			
Barium (Ba)	2670	5	2500		107	80	120			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052611.B\100_M.D** Batch ID: **26637** Analysis Date: **05/27/2011 18:28**

Sample ID: **11052503-01AMS** Units : **µg/L** Run ID: **ICP/MS_110527B** Prep Date: **05/27/2011 15:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	84100	500	50000	36890	94	75	125			
Aluminum (Al)	49600	200	50000	0	99	75	125			
Potassium (K)	70300	500	50000	20870	99	75	125			
Calcium (Ca)	244000	500	50000	206100	76	75	125			
Manganese (Mn)	5540	5	2500	3353	87	75	125			
Nickel (Ni)	307	10	250	59.35	99	75	125			
Copper (Cu)	255	10	250	0	102	75	125			
Arsenic (As)	4460	5	250	4308	59	75	125			M3
Barium (Ba)	2650	5	2500	12.39	105	75	125			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052611.B\101_M.D** Batch ID: **26637** Analysis Date: **05/27/2011 18:34**

Sample ID: **11052503-01AMSD** Units : **µg/L** Run ID: **ICP/MS_110527B** Prep Date: **05/27/2011 15:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	90800	500	50000	36890	108	75	125	84120	7.6(20)	
Aluminum (Al)	53600	200	50000	0	107	75	125	49600	7.7(20)	
Potassium (K)	76000	500	50000	20870	110	75	125	70320	7.8(20)	
Calcium (Ca)	262000	500	50000	206100	113	75	125	244100	7.2(20)	
Manganese (Mn)	5920	5	2500	3353	103	75	125	5540	6.6(20)	
Nickel (Ni)	326	10	250	59.35	107	75	125	307.1	6.1(20)	
Copper (Cu)	272	10	250	0	109	75	125	254.6	6.7(20)	
Arsenic (As)	4700	5	250	4308	157	75	125	4455	5.4(20)	M3
Barium (Ba)	2800	5	2500	12.39	112	75	125	2647	5.8(20)	

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.

M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to the spike level. The method control sample recovery was acceptable.

Reported in micrograms per Liter, per client request.

Alpha Analytical, Inc.

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Date: *01-Jun-11*

QC Summary Report

Work Order: 11052641

Method Blank

Type **MBLK** Test Code: **SM4500-S D**

File ID: Batch ID: **W0531SU** Analysis Date: **05/31/2011 00:00**

Sample ID: **MBLK-W0531SU** Units : **µg/L** Run ID: **WETLAB_110531C** Prep Date: **05/31/2011 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	ND	100								

Laboratory Control Spike

Type **LCS** Test Code: **SM4500-S D**

File ID: Batch ID: **W0531SU** Analysis Date: **05/31/2011 00:00**

Sample ID: **LCS-W0531SU** Units : **µg/L** Run ID: **WETLAB_110531C** Prep Date: **05/31/2011 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	947	100	1000		95	62	142			

Sample Matrix Spike

Type **MS** Test Code: **SM4500-S D**

File ID: Batch ID: **W0531SU** Analysis Date: **05/31/2011 00:00**

Sample ID: **11052641-02AMS** Units : **µg/L** Run ID: **WETLAB_110531C** Prep Date: **05/31/2011 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	972	100	1000	0	97	42	145			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **SM4500-S D**

File ID: Batch ID: **W0531SU** Analysis Date: **05/31/2011 00:00**

Sample ID: **11052641-02AMSD** Units : **µg/L** Run ID: **WETLAB_110531C** Prep Date: **05/31/2011 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	1000	100	1000	0	100	42	145	972	2.9(20)	

Comments:

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Date: *02-Jun-11*

QC Summary Report

Work Order: 11052641

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS07\DATA\110531\11053107.D** Batch ID: **MS07W0531B** Analysis Date: **05/31/2011 10:59**

Sample ID: **MBLK MS07W0531B** Units : **µg/L** Run ID: **MSD_07_110531A** Prep Date: **05/31/2011 10:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	10.1		10		101	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	10.1		10		101	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS07\DATA\110531\11053104.D** Batch ID: **MS07W0531B** Analysis Date: **05/31/2011 09:47**

Sample ID: **GLCS MS07W0531B** Units : **µg/L** Run ID: **MSD_07_110531A** Prep Date: **05/31/2011 09:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	431	50	400		108	70	130			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	9.77		10		98	70	130			
Surr: 4-Bromofluorobenzene	10.1		10		101	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS07\DATA\110531\11053112.D** Batch ID: **MS07W0531B** Analysis Date: **05/31/2011 13:00**

Sample ID: **11052641-01AGS** Units : **µg/L** Run ID: **MSD_07_110531A** Prep Date: **05/31/2011 13:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1930	250	2000	56.77	94	51	144			
Surr: 1,2-Dichloroethane-d4	49.6		50		99	70	130			
Surr: Toluene-d8	49.2		50		98	70	130			
Surr: 4-Bromofluorobenzene	48.7		50		97	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS07\DATA\110531\11053113.D** Batch ID: **MS07W0531B** Analysis Date: **05/31/2011 13:24**

Sample ID: **11052641-01AGSD** Units : **µg/L** Run ID: **MSD_07_110531A** Prep Date: **05/31/2011 13:24**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2210	250	2000	56.77	108	51	144	1930	13.7(29)	
Surr: 1,2-Dichloroethane-d4	50.1		50		100	70	130			
Surr: Toluene-d8	49		50		98	70	130			
Surr: 4-Bromofluorobenzene	49.8		50		99.6	70	130			

Comments:

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Reported in micrograms per Liter, per client request.

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Date: 02-Jun-11

QC Summary Report

Work Order: 11052641

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS07\DATA\110531\11053107.D** Batch ID: **MS07W0531A** Analysis Date: **05/31/2011 10:59**

Sample ID: **MBLK MS07W0531A** Units : **µg/L** Run ID: **MSD_07_110531A** Prep Date: **05/31/2011 10:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	10								
Methyl tert-butyl ether (MTBE)	ND	0.5								
Di-isopropyl Ether (DIPE)	ND	1								
Ethyl Tertiary Butyl Ether (ETBE)	ND	1								
Benzene	ND	0.5								
Tertiary Amyl Methyl Ether (TAME)	ND	1								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	10.1		10		101	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	10.1		10		101	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS07\DATA\110531\11053103.D** Batch ID: **MS07W0531A** Analysis Date: **05/31/2011 09:23**

Sample ID: **LCS MS07W0531A** Units : **µg/L** Run ID: **MSD_07_110531A** Prep Date: **05/31/2011 09:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	10.1	0.5	10		101	65	140			
Benzene	10.3	0.5	10		103	70	130			
Toluene	10.4	0.5	10		104	80	120			
Ethylbenzene	10.6	0.5	10		106	80	120			
m,p-Xylene	11.5	0.5	10		115	70	130			
o-Xylene	11.7	0.5	10		117	70	130			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	9.97		10		99.7	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS07\DATA\110531\11053110.D** Batch ID: **MS07W0531A** Analysis Date: **05/31/2011 12:12**

Sample ID: **11052641-01AMS** Units : **µg/L** Run ID: **MSD_07_110531A** Prep Date: **05/31/2011 12:12**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	155	1.3	50	100.7	109	47	150			
Benzene	49.1	1.3	50	0	98	59	138			
Toluene	47.3	1.3	50	0	95	68	130			
Ethylbenzene	50.4	1.3	50	0	101	68	130			
m,p-Xylene	53.9	1.3	50	0	108	68	131			
o-Xylene	55.4	1.3	50	0	111	70	130			
Surr: 1,2-Dichloroethane-d4	49.1		50		98	70	130			
Surr: Toluene-d8	47.2		50		94	70	130			
Surr: 4-Bromofluorobenzene	49.6		50		99	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS07\DATA\110531\11053111.D** Batch ID: **MS07W0531A** Analysis Date: **05/31/2011 12:36**

Sample ID: **11052641-01AMSD** Units : **µg/L** Run ID: **MSD_07_110531A** Prep Date: **05/31/2011 12:36**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	167	1.3	50	100.7	133	47	150	155.3	7.5(40)	
Benzene	48	1.3	50	0	96	59	138	49.1	2.3(21)	
Toluene	48.2	1.3	50	0	96	68	130	47.34	1.8(20)	
Ethylbenzene	49.2	1.3	50	0	98	68	130	50.39	2.5(20)	
m,p-Xylene	52.9	1.3	50	0	106	68	131	53.87	1.8(20)	
o-Xylene	54.4	1.3	50	0	109	70	130	55.38	1.7(20)	
Surr: 1,2-Dichloroethane-d4	50.2		50		100	70	130			
Surr: Toluene-d8	49.6		50		99	70	130			
Surr: 4-Bromofluorobenzene	48.7		50		97	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: *02-Jun-11*

QC Summary Report

Work Order: 11052641

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.

MWH
LABORATORIES
A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, NV 89431
Attention: Reyna Vallejo
Fax: 775-355-0406

Date of Issue
06/07/2011
MWH LABORATORIES

ACCREDITED IN ACCORDANCE WITH nelac 01114CA

Report#: 366067
Project: SUBCONTRACT
Group: Bromate

DST: David S Tripp
Project Manager

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

MWH LABORATORIES

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0455	Nevada	CA00006-2010-1
Arkansas	Certified	New Hampshire	2959-10
California – NELAP	01114CA	New Jersey	CA 008
California – ELAP	1422	New Mexico	Certified
Colorado	Certified	New York	11320
Connecticut	PH-0107	North Carolina	6701
Delaware	CA 006	North Dakota	R-009
Florida	E871024	Oregon	CA 200003-007
Georgia	947	Pennsylvania	68-565
Guam	09-006r	Rhode Island	01114CA
Hawaii	Certified	South Carolina	87016001
Idaho	Certified	South Dakota	Certified
Illinois	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas	T104704230-10-1
Kansas	E-10268	Utah	Mont-1
Kentucky	90107	Vermont	VT0114
Louisiana	LA070018	Virginia	210
Maine	CA0006	Washington	C383-10a
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	0007;0008	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-Q
Michigan	9906	EPA Region 5	Certified

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://MWHLabs.com

MWH LABORATORIES

Acknowledgement of Samples Received

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, NV 89431
Attn: Reyna Vallejo
Phone: 775-355-1044

Customer Code: ALPHA-NV
Folder #: 366067
Project: SUBCONTRACT
Sample Group: Bromate
Project Manager: David S Tripp
Phone: (626) 386-1158
PO #: STR11052641

The following samples were received from you on **May 27, 2011**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample ID	Sample Date
201105270133	MW-2 Variable ID: STR11052641-02A	May 26, 2011 10:32
	Bromate by UV/VIS	
201105270134	MW-4 Variable ID: STR11052641-04A	May 26, 2011 08:43
	Bromate by UV/VIS	
201105270135	MW-5 Variable ID: STR11052641-05A	May 26, 2011 06:15
	Bromate by UV/VIS	
201105270136	MW-6 Variable ID: STR11052641-07A	May 26, 2011 08:22
	Bromate by UV/VIS	
201105270137	MW-10 Variable ID: STR11052641-10A	May 26, 2011 10:01
	Bromate by UV/VIS	
201105270138	EX-1 Variable ID: STR11052641-15A	May 26, 2011 10:46
	Bromate by UV/VIS	

Test Description

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://MWHLabs.com

MWH
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750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory
Hits Report: 366067

Alpha Analytical, Inc.
Reyna Vallejo
255 Glendale Avenue, Suite 21
Sparks, NV 89431

Samples Received on:
05/27/2011

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL

SUMMARY OF POSITIVE DATA ONLY

MWH LABORATORIES
A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 366067

Alpha Analytical, Inc.
Reyna Vallejo
255 Glendale Avenue, Suite 21
Sparks, NV 89431

Samples Received on:
05/27/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
MW-2 (201105270133)						**Sampled on 05/26/2011 1032**		
Variable ID: STR11052641-02A								
EPA 317 - Bromate by UV/VIS 317								
06/02/2011	17:11	603748	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-4 (201105270134)						**Sampled on 05/26/2011 0843**		
Variable ID: STR11052641-04A								
EPA 317 - Bromate by UV/VIS 317								
06/02/2011	17:35	603748	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-5 (201105270135)						**Sampled on 05/26/2011 0615**		
Variable ID: STR11052641-05A								
EPA 317 - Bromate by UV/VIS 317								
06/02/2011	17:58	603748	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-6 (201105270136)						**Sampled on 05/26/2011 0822**		
Variable ID: STR11052641-07A								
EPA 317 - Bromate by UV/VIS 317								
06/02/2011	18:21	603748	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-10 (201105270137)						**Sampled on 05/26/2011 1001**		
Variable ID: STR11052641-10A								
EPA 317 - Bromate by UV/VIS 317								
06/02/2011	19:08	603748	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
EX-1 (201105270138)						**Sampled on 05/26/2011 1046**		
Variable ID: STR11052641-15A								
EPA 317 - Bromate by UV/VIS 317								
06/02/2011	20:19	603748	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1

Rounding on totals after summation.
(c) - indicates calculated results

MWH
LABORATORIES
A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Comments
Report: #366067

Alpha Analytical, Inc.
Reyna Vallejo
255 Glendale Avenue, Suite 21
Sparks, NV 89431

The Comments Report may be blank if there are no comments for this report.

MWH
LABORATORIES
A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Summary: 366067

Alpha Analytical, Inc.

QC Ref # 603748 - Bromate by UV/VIS 317

Analysis Date: 06/02/2011

201105270133	MW-2	Analyzed by: TLH
201105270134	MW-4	Analyzed by: TLH
201105270135	MW-5	Analyzed by: TLH
201105270136	MW-6	Analyzed by: TLH
201105270137	MW-10	Analyzed by: TLH
201105270138	EX-1	Analyzed by: TLH

MWH
LABORATORIES
A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report: 366067

Alpha Analytical, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 603748 - Bromate by UV/VIS 317 by EPA 317						**Analysis Date: 06/02/2011**			
LCS1	Bromate by UV/VIS		10	10.1	ug/L	101	(90-110)		
LCS2	Bromate by UV/VIS		10	10.6	ug/L	106	(90-110)	20	4.8
MBLK	Bromate by UV/VIS			<1	ug/L				
MRL_CHK	Bromate by UV/VIS		1.0	0.970	ug/L	97	(75-125)		
MS_201105230216	Bromate by UV/VIS	ND	5.0	4.36	ug/L	87	(75-125)		
MS_201105270137	Bromate by UV/VIS	ND	5.0	4.99	ug/L	100	(75-125)		
MSD_201105230216	Bromate by UV/VIS	ND	5.0	4.04	ug/L	81	(75-125)	15	7.7
MSD_201105270137	Bromate by UV/VIS	ND	5.0	4.85	ug/L	97	(75-125)	15	3.0

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
(S) Indicates surrogate compound.
(I) Indicates internal standard compound.
RPD not calculated for LCS2 when different a concentration than LCS1 is used
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

June 02, 2011

CLS Work Order #: CUE1084
COC #:

Reyna Vallejo
Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project Name: STR11052641

Enclosed are the results of analyses for samples received by the laboratory on 05/26/11 14:00. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

06/02/11 09:51

Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project: STR11052641
Project Number: [none]
Project Manager: Reyna Vallejo

CLS Work Order #: CUE1084
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STR11052641-02A (MW-2) (CUE1084-01) Aqueous	**Sampled: 05/26/11 10:32**		**Received: 05/26/11 14:00**						
Hexavalent Chromium	ND	1.0	µg/L	1	CU03691	05/27/11	05/27/11	EPA 7199	
STR11052641-04A (MW-4) (CUE1084-02) Aqueous	**Sampled: 05/26/11 08:43**		**Received: 05/26/11 14:00**						
Hexavalent Chromium	ND	1.0	µg/L	1	CU03691	05/27/11	05/27/11	EPA 7199	
STR11052641-05A (MW-5) (CUE1084-03) Aqueous	**Sampled: 05/26/11 06:15**		**Received: 05/26/11 14:00**						
Hexavalent Chromium	ND	1.0	µg/L	1	CU03691	05/27/11	05/27/11	EPA 7199	
STR11052641-07A (MW-6) (CUE1084-04) Aqueous	**Sampled: 05/26/11 08:22**		**Received: 05/26/11 14:00**						
Hexavalent Chromium	ND	1.0	µg/L	1	CU03691	05/27/11	05/27/11	EPA 7199	
STR11052641-10A (MW-10) (CUE1084-05) Aqueous	**Sampled: 05/26/11 10:01**		**Received: 05/26/11 14:00**						
Hexavalent Chromium	ND	1.0	µg/L	1	CU03691	05/27/11	05/27/11	EPA 7199	
STR11052641-15A (EX-1) (CUE1084-06) Aqueous	**Sampled: 05/26/11 10:46**		**Received: 05/26/11 14:00**						
Hexavalent Chromium	ND	1.0	µg/L	1	CU03691	05/27/11	05/27/11	EPA 7199	

CALIFORNIA LABORATORY SERVICES

06/02/11 09:51

Alpha Analytical, Inc.-Sparks	Project: STR11052641	
255 Glendale Ave.; Suite 21	Project Number: [none]	**CLS Work Order #: CUE1084**
Sparks, NV 89431	Project Manager: Reyna Vallejo	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CU03691 - General Prep										
Blank (CU03691-BLK1)				Prepared & Analyzed: 05/27/11						
Hexavalent Chromium	ND	1.0	µg/L							
LCS (CU03691-BS1)				Prepared & Analyzed: 05/27/11						
Hexavalent Chromium	4.76	1.0	µg/L	5.00		95	80-120			
LCS Dup (CU03691-BSD1)				Prepared & Analyzed: 05/27/11						
Hexavalent Chromium	4.67	1.0	µg/L	5.00		93	80-120	2	20	
Matrix Spike (CU03691-MS1)		**Source: CUE1097-01**		Prepared & Analyzed: 05/27/11						
Hexavalent Chromium	10.0	1.0	µg/L	5.00	5.63	88	75-125			
Matrix Spike Dup (CU03691-MSD1)		**Source: CUE1097-01**		Prepared & Analyzed: 05/27/11						
Hexavalent Chromium	9.60	1.0	µg/L	5.00	5.63	79	75-125	4	25	

CALIFORNIA LABORATORY SERVICES

06/02/11 09:51

Alpha Analytical, Inc.-Sparks	Project: STR11052641	
255 Glendale Ave.; Suite 21	Project Number: [none]	**CLS Work Order #: CUE1084**
Sparks, NV 89431	Project Manager: Reyna Vallejo	COC #:

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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

CA

WorkOrder : STR11052641

Report Due By : 5:00 PM On : 06-Jun-11

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Report Attention	Phone Number	EMail Address
Scott Bittinger	(530) 676-2062 x	sbittinger@stratusinc.net

EDD Required : **Yes**

Sampled by : C. Hill

PO :

Client's COC # : 55599,33096 Job : Foothill Mini Mart

Cooler Temp	Samples Received	Date Printed
6 °C	26-May-11	27-May-11

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests 300_0_W	317_W	ALCOHOL_W	METALS_AQ	METALS_CR6_SUB_W	SULFIDE_W	TPH/P_W	VOC_W	Sample Remarks
STR11052641-01A	MW-1	AQ	05/26/11 09:21	5	0	5			Low Level MeOH / EtOH				GAS-C	BTEX/OXY_C	
STR11052641-02A	MW-2	AQ	05/26/11 10:32	9	1	5	NO2, NO3, SO4, B	Bromate (Sub to MWH)	Low Level MeOH / EtOH	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTEX/OXY_C	
STR11052641-03A	MW-3	AQ	05/26/11 07:05	5	0	5			Low Level MeOH / EtOH				GAS-C	BTEX/OXY_C	
STR11052641-04A	MW-4	AQ	05/26/11 08:43	9	1	5	NO2, NO3, SO4, B	Bromate (Sub to MWH)	Low Level MeOH / EtOH	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTEX/OXY_C	Sulfide bottle labeled MW-6 matched up by sampling time.
STR11052641-05A	MW-5	AQ	05/26/11 06:15	9	1	5	NO2, NO3, SO4, B	Bromate (Sub to MWH)	Low Level MeOH / EtOH	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTEX/OXY_C	
STR11052641-06A	MW-5B	AQ	05/26/11 08:11	5	0	5			Low Level MeOH / EtOH				GAS-C	BTEX/OXY_C	
STR11052641-07A	MW-6	AQ	05/26/11 08:22	9	1	5	NO2, NO3, SO4, B	Bromate (Sub to MWH)	Low Level MeOH / EtOH	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTEX/OXY_C	
STR11052641-08A	MW-6B	AQ	05/26/11 08:17	5	0	5			Low Level MeOH / EtOH				GAS-C	BTEX/OXY_C	

Comments: Security seals intact. Frozen ice. Samples prelogged in order for Sac office to sub Cr+6 by 7199 to CLS and Bromate to MWH. Logged in samples -09A & -14A per bottles rec'd. Rest of samples rec'd 5/27/11. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Reyne Kelley	Reyne Kelley	Alpha Analytical, Inc.	5/27/11 10:20

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

CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : STR11052641

Report Due By : 5:00 PM On : 06-Jun-11

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Report Attention	Phone Number	EMail Address
Scott Bittinger	(530) 676-2062 x	sbittinger@stratusinc.net

EDD Required : **Yes**

Sampled by : C. Hill

PO :

Client's COC # : 55599,33096 Job : Foothill Mini Mart

Cooler Temp	Samples Received	Date Printed
6 °C	26-May-11	27-May-11

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests 300_0_W	317_W	ALCOHOL_W	METALS_AQ	METALS_CR6_SUB_W	SULFIDE_W	TPH/P_W	VOC_W	Sample Remarks
STR11052641-09A	MW-7	AQ	05/26/11 05:16	5	0	5			Low Level MeOH / EtOH				GAS-C	BTEX/OXY_C	
STR11052641-10A	MW-10	AQ	05/26/11 10:01	9	1	5	NO2, NO3, SO4, B	Bromate (Sub to MWH)	Low Level MeOH / EtOH	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTEX/OXY_C	
STR11052641-11A	MW-11	AQ	05/26/11 09:36	4	0	5			Low Level MeOH / EtOH				GAS-C	BTEX/OXY_C	1 HCL Voa rec'd broken
STR11052641-12A	MW-12A	AQ	05/26/11 09:03	5	0	5			Low Level MeOH / EtOH				GAS-C	BTEX/OXY_C	
STR11052641-13A	MW-12B	AQ	05/26/11 09:08	5	0	5			Low Level MeOH / EtOH				GAS-C	BTEX/OXY_C	
STR11052641-14A	MW-13A	AQ	05/26/11 10:55	5	0	5			Low Level MeOH / EtOH				GAS-C	BTEX/OXY_C	
STR11052641-15A	EX-1	AQ	05/26/11 10:46	9	1	5	NO2, NO3, SO4, B	Bromate (Sub to MWH)	Low Level MeOH / EtOH	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTEX/OXY_C	

Comments: Security seals intact. Frozen ice. Samples prelogged in order for Sac office to sub Cr+6 by 7199 to CLS and Bromate to MWH. Logged in samples -09A & -14A per bottles rec'd. Rest of samples rec'd 5/27/11. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Reyna Vallejo	Reyna Vallejo	Alpha Analytical, Inc.	5/27/11 10:50

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

55599

Billing Information:
Company Name: Stratus
Attn: Scott
Address: 3330 Cameron Pk DR
City, State, Zip: Cameron Pk
Phone Number: 5306766004 Fax: 5306766005

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ___ CA X NV ___ WA ___ DOD Site ___
ID ___ OR ___ OTHER ___
Page # 1 of 2

Consultant / Client Name: Foothill Mini Mart
Address:
City, State, Zip: Oakland
P.O. #:
Job #:
Job Name:

Report Attention / Project Manager
Name: Scott
Email:
Phone: Mobile:

Data Validation Level: III or IV
EDD / EDF? YES ___ NO ___
Global ID #

Analyses Required

Time Sampled	Date Sampled	Matrix* See Key Below	Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	GRO, BTEX	MTBE TBA	low Detect Ethanol/methanol	5 oxys	Nitrates Nitrites	Sulfates Sulfides	Metals	REMARKS
0921	5/26	AQ	STR11052641-01	MW-1	STD		5	X		X	X				Metals
1032			-02	MW-2				X	X	X	X	X	X	X	Magnesium
0705			-03	MW-3			5	X		X	X				Manganesse
0843			-04	MW-4				X	X	X	X	X	X	X	Nickel
0615			-05	MW-5				X	X	X	X	X	X	X	Copper
0811			-06	MW-5B			5	X		X	X				Potassium
0822			-07	MW-6				X	X	X	X	X	X	X	Calcium, Arsenic
0817			-08	MW-6B			5	X		X	X				Total-Hex Chromium
0516		AQ	-09	MW-7				X		X	X				Aluminum
~~[illegible]~~															barium
~~[illegible]~~	VZ														bromide
~~[illegible]~~															bromate
															Sub CHAIN #

#71050641

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: CHILL

Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date	Time
[signature] / Stratus	[signature]	5-26-11	1305
[signature] 5-26-11 1530	[signature]	5/27/11	10:30

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

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.

33096

Billing Information:
Company Name Stratus
Attn: Scott
Address 3330 Cameron Park DR
City, State, Zip Cameron Pk
Phone Number 5306766004 Fax 5306766005

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ___ CA X NV ___ WA ___ DOD Site ___
ID ___ OR ___ OTHER ___ Page # 2 of 2

Consultant / Client Name: Foothill Mini Mart
Address:
City, State, Zip: Oakley
Job #:
Job Name:
Report Attention / Project Manager
Name: Scott
Email:
Phone: Mobile:

Data Validation Level: III or IV
EDD / EDF? YES ___ NO ___
Global ID # ___

Analyses Required: GRO, BTEX | 5 OXYs | Low Detect Ethanol - Methanol | TBA | Nitrates | Nitrites | Sulfates | Sulfides | Metals

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. # Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	GRO, BTEX	5 OXYs	Low Detect Ethanol - Methanol	TBA	Nitrates, Nitrites	Sulfates, Sulfides	Metals	REMARKS
1001	5/26/11	AQ	-10	MW-10	STD			X	X	X	X	X	X	X	metals
0826			-11	MW-11			5	X	X	X					Magnesium
0903			-12	MW-12A			5	X	X	X					Manganese
0908			-13	MW-12B			5	X	X	X					Nickel
1055	5/26/11	AQ	-14	MW-13A			5	X	X	X					copper
1046	5/26/11		-15	EX-1				X	X	X	X	X	X	X	Potassium
															calcium, Arsenic
															Total-Hex Chrome
															Aluminum
															barium
															bromide
															bromate

FOR LAB USE ONLY

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445.0636 (c) (2)). Sampled By: CHM

Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:
[signature] / Stratus	[signature]	5-26-11	1305
[signature] 5-26-11 15:30	[signature]	5/27/11	1030

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

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.

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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 : 06/08/11

Job: Foothill Mini Mart

Anions by IC
EPA Method 300.0

Parameter		Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **EX-1**					
Lab ID : STR11060848-01A	Nitrite (NO2) - N	ND	250 µg/L	06/09/11 10:59	06/09/11 13:17
Date Sampled 06/08/11 07:10	Bromide	470	250 µg/L	06/09/11 10:59	06/09/11 13:17
	Nitrate (NO3) - N	1,900	250 µg/L	06/09/11 10:59	06/09/11 13:17
	Sulfate (SO4)	33,000	500 µg/L	06/09/11 10:59	06/09/11 13:17
Client ID: **MW-2**					
Lab ID : STR11060848-02A	Nitrite (NO2) - N	ND	250 µg/L	06/09/11 10:59	06/09/11 13:35
Date Sampled 06/08/11 07:00	Bromide	470	250 µg/L	06/09/11 10:59	06/09/11 13:35
	Nitrate (NO3) - N	ND	250 µg/L	06/09/11 10:59	06/09/11 13:35
	Sulfate (SO4)	220,000	500 µg/L	06/09/11 10:59	06/09/11 13:35
Client ID: **MW-4**					
Lab ID : STR11060848-03A	Nitrite (NO2) - N	ND	250 µg/L	06/09/11 10:59	06/09/11 16:40
Date Sampled 06/08/11 06:15	Bromide	ND	250 µg/L	06/09/11 10:59	06/09/11 16:40
	Nitrate (NO3) - N	ND	250 µg/L	06/09/11 10:59	06/09/11 16:40
	Sulfate (SO4)	8,200	500 µg/L	06/09/11 10:59	06/09/11 16:40
Client ID: **MW-5**					
Lab ID : STR11060848-04A	Nitrite (NO2) - N	ND	250 µg/L	06/09/11 10:59	06/09/11 13:54
Date Sampled 06/08/11 06:35	Bromide	ND	250 µg/L	06/09/11 10:59	06/09/11 13:54
	Nitrate (NO3) - N	ND	250 µg/L	06/09/11 10:59	06/09/11 13:54
	Sulfate (SO4)	11,000	500 µg/L	06/09/11 10:59	06/09/11 13:54
Client ID: **MW-6**					
Lab ID : STR11060848-05A	Nitrite (NO2) - N	ND	250 µg/L	06/09/11 10:59	06/09/11 14:12
Date Sampled 06/08/11 06:25	Bromide	370	250 µg/L	06/09/11 10:59	06/09/11 14:12
	Nitrate (NO3) - N	ND	250 µg/L	06/09/11 10:59	06/09/11 14:12
	Sulfate (SO4)	ND	500 µg/L	06/09/11 10:59	06/09/11 14:12
Client ID: **MW-10**					
Lab ID : STR11060848-06A	Nitrite (NO2) - N	ND	250 µg/L	06/09/11 10:59	06/09/11 14:31
Date Sampled 06/08/11 06:45	Bromide	ND	250 µg/L	06/09/11 10:59	06/09/11 14:31
	Nitrate (NO3) - N	9,600	250 µg/L	06/09/11 10:59	06/09/11 14:31
	Sulfate (SO4)	62,000	500 µg/L	06/09/11 10:59	06/09/11 14:31

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ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

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) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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.

6/16/11

Report Date

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

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 06/08/11

Job: Foothill Mini Mart

Metals by ICPMS
EPA Method SW6020 / SW6020A

Parameter		Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **EX-1**					
Lab ID : STR11060848-01A	Magnesium (Mg)	44,000	500 µg/L	06/09/11	06/10/11
Date Sampled 06/08/11 07:10	Aluminum (Al)	110,000	200 µg/L	06/09/11	06/10/11
	Potassium (K)	14,000	500 µg/L	06/09/11	06/10/11
	Calcium (Ca)	51,000	500 µg/L	06/09/11	06/10/11
	Manganese (Mn)	1,900	5.0 µg/L	06/09/11	06/10/11
	Nickel (Ni)	390	10 µg/L	06/09/11	06/10/11
	Copper (Cu)	150	10 µg/L	06/09/11	06/10/11
	Arsenic (As)	21	5.0 µg/L	06/09/11	06/10/11
	Barium (Ba)	980	5.0 µg/L	06/09/11	06/10/11
Client ID: **MW-2**					
Lab ID : STR11060848-02A	Magnesium (Mg)	64,000	500 µg/L	06/09/11	06/10/11
Date Sampled 06/08/11 07:00	Aluminum (Al)	170,000	200 µg/L	06/09/11	06/10/11
	Potassium (K)	21,000	500 µg/L	06/09/11	06/10/11
	Calcium (Ca)	55,000	500 µg/L	06/09/11	06/10/11
	Manganese (Mn)	3,200	5.0 µg/L	06/09/11	06/10/11
	Nickel (Ni)	860	10 µg/L	06/09/11	06/10/11
	Copper (Cu)	280	10 µg/L	06/09/11	06/10/11
	Arsenic (As)	46	5.0 µg/L	06/09/11	06/10/11
	Barium (Ba)	2,400	5.0 µg/L	06/09/11	06/10/11
Client ID: **MW-4**					
Lab ID : STR11060848-03A	Magnesium (Mg)	43,000	500 µg/L	06/09/11	06/10/11
Date Sampled 06/08/11 06:15	Aluminum (Al)	110,000	200 µg/L	06/09/11	06/10/11
	Potassium (K)	14,000	500 µg/L	06/09/11	06/10/11
	Calcium (Ca)	33,000	500 µg/L	06/09/11	06/10/11
	Manganese (Mn)	4,400	5.0 µg/L	06/09/11	06/10/11
	Nickel (Ni)	220	10 µg/L	06/09/11	06/10/11
	Copper (Cu)	150	10 µg/L	06/09/11	06/10/11
	Arsenic (As)	22	5.0 µg/L	06/09/11	06/10/11
	Barium (Ba)	1,100	5.0 µg/L	06/09/11	06/10/11
Client ID: **MW-5**					
Lab ID : STR11060848-04A	Magnesium (Mg)	24,000	500 µg/L	06/09/11	06/10/11
Date Sampled 06/08/11 06:35	Aluminum (Al)	2,200	200 µg/L	06/09/11	06/10/11
	Potassium (K)	590	500 µg/L	06/09/11	06/10/11
	Calcium (Ca)	29,000	500 µg/L	06/09/11	06/10/11
	Manganese (Mn)	3,300	5.0 µg/L	06/09/11	06/10/11
	Nickel (Ni)	ND	10 µg/L	06/09/11	06/10/11
	Copper (Cu)	ND	10 µg/L	06/09/11	06/10/11
	Arsenic (As)	13	5.0 µg/L	06/09/11	06/10/11
	Barium (Ba)	130	5.0 µg/L	06/09/11	06/10/11

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Client ID: **MW-6**					
Lab ID : STR11060848-05A	Magnesium (Mg)	37,000	500 µg/L	06/09/11	06/10/11
Date Sampled 06/08/11 06:25	Aluminum (Al)	18,000	200 µg/L	06/09/11	06/10/11
	Potassium (K)	2,800	500 µg/L	06/09/11	06/10/11
	Calcium (Ca)	33,000	500 µg/L	06/09/11	06/10/11
	Manganese (Mn)	4,400	5.0 µg/L	06/09/11	06/10/11
	Nickel (Ni)	44	10 µg/L	06/09/11	06/10/11
	Copper (Cu)	30	10 µg/L	06/09/11	06/10/11
	Arsenic (As)	11	5.0 µg/L	06/09/11	06/10/11
	Barium (Ba)	240	5.0 µg/L	06/09/11	06/10/11
Client ID: **MW-10**					
Lab ID : STR11060848-06A	Magnesium (Mg)	15,000	500 µg/L	06/09/11	06/10/11
Date Sampled 06/08/11 06:45	Aluminum (Al)	1,500	200 µg/L	06/09/11	06/10/11
	Potassium (K)	520	500 µg/L	06/09/11	06/10/11
	Calcium (Ca)	19,000	500 µg/L	06/09/11	06/10/11
	Manganese (Mn)	20	5.0 µg/L	06/09/11	06/10/11
	Nickel (Ni)	ND	10 µg/L	06/09/11	06/10/11
	Copper (Cu)	ND	10 µg/L	06/09/11	06/10/11
	Arsenic (As)	ND	5.0 µg/L	06/09/11	06/10/11
	Barium (Ba)	92	5.0 µg/L	06/09/11	06/10/11

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

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) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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6/16/11

Report Date

Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

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 : 06/08/11

Job: Foothill Mini Mart

Sulfide
SM4500-S D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **EX-1**				
Lab ID : STR11060848-01A Sulfide	350	100 µg/L	06/14/11	06/14/11
Date Sampled 06/08/11 07:10				
Client ID: **MW-2**				
Lab ID : STR11060848-02A Sulfide	ND	100 µg/L	06/14/11	06/14/11
Date Sampled 06/08/11 07:00				
Client ID: **MW-4**				
Lab ID : STR11060848-03A Sulfide	110	100 µg/L	06/14/11	06/14/11
Date Sampled 06/08/11 06:15				
Client ID: **MW-5**				
Lab ID : STR11060848-04A Sulfide	ND	100 µg/L	06/14/11	06/14/11
Date Sampled 06/08/11 06:35				
Clicnt ID: **MW-6**				
Lab ID : STR11060848-05A Sulfide	ND	100 µg/L	06/14/11	06/14/11
Date Sampled 06/08/11 06:25				
Client ID: **MW-10**				
Lab ID : STR11060848-06A Sulfide	ND	100 µg/L	06/14/11	06/14/11
Date Sampled 06/08/11 06:45				

ND = Not Detected
Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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6/16/11
Report Date

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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 : 06/08/11

Job: Foothill Mini Mart

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

		Parameter	Concentration		Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**EX-1**						
Lab ID :	STR11060848-01A	TPH-P (GRO)	640		200 µg/L	06/11/11	06/11/11
Date Sampled	06/08/11 07:10	Tertiary Butyl Alcohol (TBA)	620		20 µg/L	06/11/11	06/11/11
		Methyl tert-butyl ether (MTBE)	1,100		1.0 µg/L	06/11/11	06/11/11
		Benzene	ND	V	1.0 µg/L	06/11/11	06/11/11
		Toluene	ND	V	1.0 µg/L	06/11/11	06/11/11
		Ethylbenzene	ND	V	1.0 µg/L	06/11/11	06/11/11
		m,p-Xylene	ND	V	1.0 µg/L	06/11/11	06/11/11
		o-Xylene	ND	V	1.0 µg/L	06/11/11	06/11/11
Client ID :	**MW-2**						
Lab ID :	STR11060848-02A	TPH-P (GRO)	1,200		300 µg/L	06/11/11	06/11/11
Date Sampled	06/08/11 07:00	Tertiary Butyl Alcohol (TBA)	690		30 µg/L	06/11/11	06/11/11
		Methyl tert-butyl ether (MTBE)	2,000		1.5 µg/L	06/11/11	06/11/11
		Benzene	ND	V	1.5 µg/L	06/11/11	06/11/11
		Toluene	ND	V	1.5 µg/L	06/11/11	06/11/11
		Ethylbenzene	ND	V	1.5 µg/L	06/11/11	06/11/11
		m,p-Xylene	ND	V	1.5 µg/L	06/11/11	06/11/11
		o-Xylene	ND	V	1.5 µg/L	06/11/11	06/11/11
Client ID :	**MW-4**						
Lab ID :	STR11060848-03A	TPH-P (GRO)	1,400		300 µg/L	06/11/11	06/11/11
Date Sampled	06/08/11 06:15	Tertiary Butyl Alcohol (TBA)	570		30 µg/L	06/11/11	06/11/11
		Methyl tert-butyl ether (MTBE)	1,700		1.5 µg/L	06/11/11	06/11/11
		Benzene	ND	V	1.5 µg/L	06/11/11	06/11/11
		Toluene	ND	V	1.5 µg/L	06/11/11	06/11/11
		Ethylbenzene	ND	V	1.5 µg/L	06/11/11	06/11/11
		m,p-Xylene	ND	V	1.5 µg/L	06/11/11	06/11/11
		o-Xylene	ND	V	1.5 µg/L	06/11/11	06/11/11
Client ID :	**MW-5**						
Lab ID :	STR11060848-04A	TPH-P (GRO)	ND	V	200 µg/L	06/11/11	06/11/11
Date Sampled	06/08/11 06:35	Tertiary Butyl Alcohol (TBA)	980		20 µg/L	06/11/11	06/11/11
		Methyl tert-butyl ether (MTBE)	11		1.0 µg/L	06/11/11	06/11/11
		Benzene	ND	V	1.0 µg/L	06/11/11	06/11/11
		Toluene	ND	V	1.0 µg/L	06/11/11	06/11/11
		Ethylbenzene	ND	V	1.0 µg/L	06/11/11	06/11/11
		m,p-Xylene	ND	V	1.0 µg/L	06/11/11	06/11/11
		o-Xylene	ND	V	1.0 µg/L	06/11/11	06/11/11

Alpha Analytical, Inc.

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Client ID :	**MW-6**						
Lab ID :	STR11060848-05A	TPH-P (GRO)	3,900		200 µg/L	06/11/11	06/11/11
Date Sampled	06/08/11 06:25	Tertiary Butyl Alcohol (TBA)	630		20 µg/L	06/11/11	06/11/11
		Methyl tert-butyl ether (MTBE)	300		1.0 µg/L	06/11/11	06/11/11
		Benzene	60		1.0 µg/L	06/11/11	06/11/11
		Toluene	ND	V	1.0 µg/L	06/11/11	06/11/11
		Ethylbenzene	41		1.0 µg/L	06/11/11	06/11/11
		m,p-Xylene	59		1.0 µg/L	06/11/11	06/11/11
		o-Xylene	2.6		1.0 µg/L	06/11/11	06/11/11
Client ID :	**MW-10**						
Lab ID :	STR11060848-06A	TPH-P (GRO)	ND		50 µg/L	06/11/11	06/11/11
Date Sampled	06/08/11 06:45	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	06/11/11	06/11/11
		Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	06/11/11	06/11/11
		Benzene	ND		0.50 µg/L	06/11/11	06/11/11
		Toluene	ND		0.50 µg/L	06/11/11	06/11/11
		Ethylbenzene	ND		0.50 µg/L	06/11/11	06/11/11
		m,p-Xylene	ND		0.50 µg/L	06/11/11	06/11/11
		o-Xylene	ND		0.50 µg/L	06/11/11	06/11/11

Gasoline Range Organics (GRO) C4-C13

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

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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6/16/11

Report Date

Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: STR11060848 **Job:** Foothill Mini Mart

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11060848-01A	EX-1	Aqueous	2
11060848-02A	MW-2	Aqueous	2
11060848-03A	MW-4	Aqueous	2
11060848-04A	MW-5	Aqueous	2
11060848-05A	MW-6	Aqueous	2
11060848-06A	MW-10	Aqueous	2

6/16/11
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *13-Jun-11*

QC Summary Report

Work Order: 11060848

Method Blank

Type **MBLK** Test Code: **EPA Method 300.0**

File ID: **23** Batch ID: **26695** Analysis Date: **06/09/2011 12:03**

Sample ID: **MB-26695** Units : **µg/L** Run ID: **IC_1_110609A** Prep Date: **06/09/2011 10:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	ND	250								
Bromide	ND	250								
Nitrate (NO3) - N	ND	250								
Sulfate (SO4)	ND	500								

Laboratory Fortified Blank

Type **LFB** Test Code: **EPA Method 300.0**

File ID: **24** Batch ID: **26695** Analysis Date: **06/09/2011 12:21**

Sample ID: **LFB-26695** Units : **µg/L** Run ID: **IC_1_110609A** Prep Date: **06/09/2011 10:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	5360	250	5000		107	90	110			
Bromide	5090	250	5000		102	90	110			
Nitrate (NO3) - N	5050	250	5000		101	90	110			
Sulfate (SO4)	103000	500	100000		103	90	110			

Sample Matrix Spike

Type **LFM** Test Code: **EPA Method 300.0**

File ID: **32** Batch ID: **26695** Analysis Date: **06/09/2011 14:49**

Sample ID: **11060848-06ALFM** Units : **µg/L** Run ID: **IC_1_110609A** Prep Date: **06/09/2011 10:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	11200	250	10000	0	112	80	120			
Bromide	11700	250	10000	0	117	80	120			
Nitrate (NO3) - N	20700	250	10000	9634	111	80	120			
Sulfate (SO4)	244000	500	200000	61540	91	80	120			

Sample Matrix Spike Duplicate

Type **LFMD** Test Code: **EPA Method 300.0**

File ID: **33** Batch ID: **26695** Analysis Date: **06/09/2011 15:08**

Sample ID: **11060848-06ALFMD** Units : **µg/L** Run ID: **IC_1_110609A** Prep Date: **06/09/2011 10:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	11100	250	10000	0	111	80	120	11220	1.2(15)	
Bromide	11400	250	10000	0	114	80	120	11730	2.9(15)	
Nitrate (NO3) - N	20600	250	10000	9634	110	80	120	20750	0.7(15)	
Sulfate (SO4)	246000	500	200000	61540	92	80	120	243700	0.7(15)	

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 Liter, per client request.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 15-Jun-11

QC Summary Report

Work Order: 11060848

Method Blank

Type **MBLK** Test Code: **EPA Method SW6020 / SW6020A**
File ID: **060911.B\033_M.D** Batch ID: **26696** Analysis Date: **06/10/2011 02:51**
Sample ID: **MB-26696** Units : **µg/L** Run ID: **ICP/MS_110609A** Prep Date: **06/09/2011 11:46**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	ND	500								
Aluminum (Al)	ND	200								
Potassium (K)	ND	500								
Calcium (Ca)	ND	500								
Manganese (Mn)	ND	5								
Nickel (Ni)	ND	10								
Copper (Cu)	ND	10								
Arsenic (As)	ND	5								
Barium (Ba)	ND	5								

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW6020 / SW6020A**
File ID: **060911.B\034_M.D** Batch ID: **26696** Analysis Date: **06/10/2011 02:57**
Sample ID: **LCS-26696** Units : **µg/L** Run ID: **ICP/MS_110609A** Prep Date: **06/09/2011 11:46**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	41900	500	50000		84	80	120			
Aluminum (Al)	41200	200	50000		82	80	120			
Potassium (K)	47400	500	50000		95	80	120			
Calcium (Ca)	46000	500	50000		92	80	120			
Manganese (Mn)	2410	5	2500		96	80	120			
Nickel (Ni)	222	10	250		89	80	120			
Copper (Cu)	230	10	250		92	80	120			
Arsenic (As)	232	5	250		93	80	120			
Barium (Ba)	2370	5	2500		95	80	120			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW6020 / SW6020A**
File ID: **060911.B\039_M.D** Batch ID: **26696** Analysis Date: **06/10/2011 03:25**
Sample ID: **11060848-01AMS** Units : **µg/L** Run ID: **ICP/MS_110609A** Prep Date: **06/09/2011 11:46**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	86300	500	50000	43890	85	75	125			
Aluminum (Al)	173000	200	50000	111500	124	75	125			
Potassium (K)	60400	500	50000	14210	92	75	125			
Calcium (Ca)	93700	500	50000	50930	85	75	125			
Manganese (Mn)	4330	5	2500	1930	96	75	125			
Nickel (Ni)	629	10	250	390.2	96	75	125			
Copper (Cu)	385	10	250	153.1	93	75	125			
Arsenic (As)	250	5	250	21.37	92	75	125			
Barium (Ba)	3510	5	2500	977.3	101	75	125			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW6020 / SW6020A**
File ID: **060911.B\040_M.D** Batch ID: **26696** Analysis Date: **06/10/2011 03:30**
Sample ID: **11060848-01AMSD** Units : **µg/L** Run ID: **ICP/MS_110609A** Prep Date: **06/09/2011 11:46**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	87500	500	50000	43890	87	75	125	86270	1.4(20)	
Aluminum (Al)	187000	200	50000	111500	150	75	125	173400	7.3(20)	M1
Potassium (K)	64600	500	50000	14210	101	75	125	60420	6.7(20)	
Calcium (Ca)	97600	500	50000	50930	93	75	125	93650	4.1(20)	
Manganese (Mn)	4730	5	2500	1930	112	75	125	4334	8.8(20)	
Nickel (Ni)	690	10	250	390.2	120	75	125	629.1	9.2(20)	
Copper (Cu)	416	10	250	153.1	105	75	125	384.5	7.8(20)	
Arsenic (As)	261	5	250	21.37	96	75	125	250.4	4.3(20)	
Barium (Ba)	3760	5	2500	977.3	111	75	125	3511	6.7(20)	

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.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.

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Alpha Analytical, Inc.

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Date: *16-Jun-11*

QC Summary Report

Work Order: 11060848

Method Blank

Type: **MBLK** Test Code: **SM4500-S D**

File ID:

Batch ID: **W0614SU** Analysis Date: **06/14/2011 00:00**

Sample ID: **MBLK-W0614SU** Units : **µg/L** Run ID: **WETLAB_110614B** Prep Date: **06/14/2011 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	ND	100								

Laboratory Control Spike

Type: **LCS** Test Code: **SM4500-S D**

File ID:

Batch ID: **W0614SU** Analysis Date: **06/14/2011 00:00**

Sample ID: **LCS-W0614SU** Units : **µg/L** Run ID: **WETLAB_110614B** Prep Date: **06/14/2011 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	863	100	1000		86	62	142			

Sample Matrix Spike

Type: **MS** Test Code: **SM4500-S D**

File ID:

Batch ID: **W0614SU** Analysis Date: **06/14/2011 00:00**

Sample ID: **11060848-06AMS** Units : **µg/L** Run ID: **WETLAB_110614B** Prep Date: **06/14/2011 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	849	100	1000	0	85	42	145			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **SM4500-S D**

File ID:

Batch ID: **W0614SU** Analysis Date: **06/14/2011 00:00**

Sample ID: **11060848-06AMSD** Units : **µg/L** Run ID: **WETLAB_110614B** Prep Date: **06/14/2011 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	862	100	1000	0	86	42	145	849	1.5(20)	

Comments:

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Date: *14-Jun-2011*

QC Summary Report

Work Order: 11060848

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C**
File ID: **11061042.D** Batch ID: **MS15W0610B** Analysis Date: **06/10/2011 23:06**
Sample ID: **MBLK MS15W0610B** Units : **µg/L** Run ID: **MSD_15_110610C** Prep Date: **06/10/2011 23:06**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	9.39		10		94	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C**
File ID: **11061038.D** Batch ID: **MS15W0610B** Analysis Date: **06/10/2011 21:39**
Sample ID: **GLCS MS15W0610B** Units : **µg/L** Run ID: **MSD_15_110610C** Prep Date: **06/10/2011 21:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	372	50	400		93	70	130			
Surr: 1,2-Dichloroethane-d4	10.3		10		103	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	9.26		10		93	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C**
File ID: **11061045.D** Batch ID: **MS15W0610B** Analysis Date: **06/11/2011 00:11**
Sample ID: **11060943-01AGS** Units : **µg/L** Run ID: **MSD_15_110610C** Prep Date: **06/11/2011 00:11**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1650	250	2000	0	82	51	144			
Surr: 1,2-Dichloroethane-d4	51.8		50		104	70	130			
Surr: Toluene-d8	49.7		50		99	70	130			
Surr: 4-Bromofluorobenzene	47.5		50		95	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C**
File ID: **11061046.D** Batch ID: **MS15W0610B** Analysis Date: **06/11/2011 00:33**
Sample ID: **11060943-01AGSD** Units : **µg/L** Run ID: **MSD_15_110610C** Prep Date: **06/11/2011 00:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1740	250	2000	0	87	51	144	1647	5.2(29)	
Surr: 1,2-Dichloroethane-d4	51.8		50		104	70	130			
Surr: Toluene-d8	50.2		50		100	70	130			
Surr: 4-Bromofluorobenzene	49.5		50		99	70	130			

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.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *14-Jun-2011*

QC Summary Report

Work Order: 11060848

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **11061042.D** Batch ID: **MS15W0610A** Analysis Date: **06/10/2011 23:06**

Sample ID: **MBLK MS15W0610A** Units : **µg/L** Run ID: **MSD_15_110610C** Prep Date: **06/10/2011 23:06**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	10								
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	9.39		10		94	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **11061036.D** Batch ID: **MS15W0610A** Analysis Date: **06/10/2011 20:56**

Sample ID: **LCS MS15W0610A** Units : **µg/L** Run ID: **MSD_15_110610C** Prep Date: **06/10/2011 20:56**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	10.2	0.5	10		102	65	140			
Benzene	9.59	0.5	10		96	70	130			
Toluene	10	0.5	10		100	80	120			
Ethylbenzene	9.94	0.5	10		99	80	120			
m,p-Xylene	10.2	0.5	10		102	70	130			
o-Xylene	9.97	0.5	10		99.7	70	130			
Surr: 1,2-Dichloroethane-d4	10.1		10		101	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	9.69		10		97	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B**

File ID: **11061043.D** Batch ID: **MS15W0610A** Analysis Date: **06/10/2011 23:27**

Sample ID: **11060943-01AMS** Units : **µg/L** Run ID: **MSD_15_110610C** Prep Date: **06/10/2011 23:27**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	46.4	1.3	50	0	93	47	150			
Benzene	44	1.3	50	0	88	59	138			
Toluene	45.6	1.3	50	0	91	68	130			
Ethylbenzene	45.7	1.3	50	0	91	68	130			
m,p-Xylene	46.6	1.3	50	0	93	68	131			
o-Xylene	45.7	1.3	50	0	91	70	130			
Surr: 1,2-Dichloroethane-d4	49.9		50		99.8	70	130			
Surr: Toluene-d8	50.3		50		101	70	130			
Surr: 4-Bromofluorobenzene	47.6		50		95	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **11061044.D** Batch ID: **MS15W0610A** Analysis Date: **06/10/2011 23:49**

Sample ID: **11060943-01AMSD** Units : **µg/L** Run ID: **MSD_15_110610C** Prep Date: **06/10/2011 23:49**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	49	1.3	50	0	98	47	150	46.43	5.5(40)	
Benzene	45.3	1.3	50	0	91	59	138	44.02	2.8(21)	
Toluene	46.9	1.3	50	0	94	68	130	45.58	2.9(20)	
Ethylbenzene	46.6	1.3	50	0	93	68	130	45.65	2.0(20)	
m,p-Xylene	47.9	1.3	50	0	96	68	131	46.55	2.8(20)	
o-Xylene	46.7	1.3	50	0	93	70	130	45.69	2.3(20)	
Surr: 1,2-Dichloroethane-d4	51.9		50		104	70	130			
Surr: Toluene-d8	50.7		50		101	70	130			
Surr: 4-Bromofluorobenzene	47.1		50		94	70	130			

Alpha Analytical, Inc.

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Date: *14-Jun-2011*

QC Summary Report

Work Order: 11060848

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.

MWH
LABORATORIES
A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, NV 89431
Attention: Reyna Vallejo
Fax: 775-355-0406

Date of Issue
06/15/2011
MWH LABORATORIES

ACCREDITED IN ACCORDANCE WITH nelac 01114CA

Report#: 367101
Project: SUBCONTRACT
Group: Bromate

DST: David S Tripp
Project Manager

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

MWH LABORATORIES

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0455	**Nevada**	CA00006-2010-1
Arkansas	Certified	**New Hampshire**	2959-10
California – NELAP	01114CA	**New Jersey**	CA 008
California – ELAP	1422	**New Mexico**	Certified
Colorado	Certified	**New York**	11320
Connecticut	PH-0107	**North Carolina**	6701
Delaware	CA 006	**North Dakota**	R-009
Florida	E871024	**Oregon**	CA 200003-007
Georgia	947	**Pennsylvania**	68-565
Guam	09-006r	**Rhode Island**	01114CA
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Idaho	Certified	**South Dakota**	Certified
Illinois	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas**	T104704230-10-1
Kansas	E-10268	**Utah**	Mont-1
Kentucky	90107	**Vermont**	VT0114
Louisiana	LA070018	**Virginia**	210
Maine	CA0006	**Washington**	C383-10a
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	0007;0008	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-Q
Michigan	9906	**EPA Region 5**	Certified

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://MWHLabs.com

MWH LABORATORIES

Acknowledgement of Samples Received

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, NV 89431
Attn: Reyna Vallejo
Phone: 775-355-1044

Customer Code: ALPHA-NV
Folder #: 367101
Project: SUBCONTRACT
Sample Group: Bromate
Project Manager: David S Tripp
Phone: (626) 386-1158
PO #: STR11060848

The following samples were received from you on **June 09, 2011**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample ID	Sample Date
201106090411	EX-1 Variable ID: STR11060848-01A Bromate by UV/VIS	Jun 08, 2011 07:10
201106090412	MW02 Variable ID: STR11060848-02A Bromate by UV/VIS	Jun 08, 2011 07:00
201106090413	MW-4 Variable ID: STR11060848-03A Bromate by UV/VIS	Jun 08, 2011 06:15
201106090414	MW-5 Variable ID: STR11060848-04A Bromate by UV/VIS	Jun 08, 2011 06:35
201106090415	MW-6 Variable ID: STR11060848-05A Bromate by UV/VIS	Jun 08, 2011 06:25
201106090416	MW-10 Variable ID: STR11060848-06A Bromate by UV/VIS	Jun 08, 2011 06:45

Test Description

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://MWHLabs.com

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750 Royal Oak Dr., Suite 100
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Fax: 626 386 1101
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Laboratory
Hits Report: 367101

Alpha Analytical, Inc.
Reyna Vallejo
255 Glendale Avenue, Suite 21
Sparks, NV 89431

Samples Received on:
06/09/2011

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL

SUMMARY OF POSITIVE DATA ONLY

MWH
LABORATORIES
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750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 367101

Alpha Analytical, Inc.
Reyna Vallejo
255 Glendale Avenue, Suite 21
Sparks, NV 89431

Samples Received on:
06/09/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
EX-1 (201106090411)						**Sampled on 06/08/2011 0710**		
Variable ID: STR11060848-01A								
EPA 317 - Bromate by UV/VIS 317								
06/14/2011	07:14	605213	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW02 (201106090412)						**Sampled on 06/08/2011 0700**		
Variable ID: STR11060848-02A								
EPA 317 - Bromate by UV/VIS 317								
06/14/2011	07:37	605213	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-4 (201106090413)						**Sampled on 06/08/2011 0615**		
Variable ID: STR11060848-03A								
EPA 317 - Bromate by UV/VIS 317								
06/14/2011	08:00	605213	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-5 (201106090414)						**Sampled on 06/08/2011 0635**		
Variable ID: STR11060848-04A								
EPA 317 - Bromate by UV/VIS 317								
06/14/2011	08:40	605213	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-6 (201106090415)						**Sampled on 06/08/2011 0625**		
Variable ID: STR11060848-05A								
EPA 317 - Bromate by UV/VIS 317								
06/14/2011	09:27	605213	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-10 (201106090416)						**Sampled on 06/08/2011 0645**		
Variable ID: STR11060848-06A								
EPA 317 - Bromate by UV/VIS 317								
06/14/2011	09:50	605213	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1

Rounding on totals after summation.
(c) - indicates calculated results

MWH
LABORATORIES
A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Comments
Report: #367101

Alpha Analytical, Inc.
Reyna Vallejo
255 Glendale Avenue, Suite 21
Sparks, NV 89431

The Comments Report may be blank if there are no comments for this report.

MWH
LABORATORIES
A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Summary: 367101

Alpha Analytical, Inc.

QC Ref # 605213 - Bromate by UV/VIS 317

Analysis Date: 06/14/2011

201106090411	EX-1	Analyzed by: TLH
201106090412	MW02	Analyzed by: TLH
201106090413	MW-4	Analyzed by: TLH
201106090414	MW-5	Analyzed by: TLH
201106090415	MW-6	Analyzed by: TLH
201106090416	MW-10	Analyzed by: TLH

MWH
LABORATORIES
A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report: 367101

Alpha Analytical, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 605213 - Bromate by UV/VIS 317 by EPA 317						**Analysis Date: 06/14/2011**			
LCS1	Bromate by UV/VIS		10	9.75	ug/L	98	(90-110)		
LCS2	Bromate by UV/VIS		10	9.76	ug/L	98	(90-110)	20	0.10
MBLK	Bromate by UV/VIS			<1	ug/L				
MRL_CHK	Bromate by UV/VIS		1.0	1.12	ug/L	112	(75-125)		
MS_201106020453	Bromate by UV/VIS	1.5	5.0	6.75	ug/L	104	(75-125)		
MSD_201106020453	Bromate by UV/VIS	1.5	5.0	6.56	ug/L	100	(75-125)	15	3.9

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
(S) Indicates surrogate compound.
(I) Indicates internal standard compound.
RPD not calculated for LCS2 when different a concentration than LCS1 is used
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

June 14, 2011

CLS Work Order #: CUF0374
COC #:

Reyna Vallejo
Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project Name: STR11060848

Enclosed are the results of analyses for samples received by the laboratory on 06/08/11 11:50. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

06/14/11 11:01

Alpha Analytical, Inc.-Sparks	Project: STR11060848	
255 Glendale Ave.; Suite 21	Project Number: [none]	**CLS Work Order #: CUF0374**
Sparks, NV 89431	Project Manager: Reyna Vallejo	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STR11060848-01A (EX-1) (CUF0374-01) Aqueous	**Sampled: 06/08/11 07:10**		**Received: 06/08/11 11:50**						
Hexavalent Chromium	ND	1.0	µg/L	1	CU03955	06/08/11	06/08/11	EPA 7199	
STR11060848-02A (MW-2) (CUF0374-02) Aqueous	**Sampled: 06/08/11 07:00**		**Received: 06/08/11 11:50**						
Hexavalent Chromium	ND	1.0	µg/L	1	CU03955	06/08/11	06/08/11	EPA 7199	
STR11060848-03A (MW-4) (CUF0374-03) Aqueous	**Sampled: 06/08/11 06:15**		**Received: 06/08/11 11:50**						
Hexavalent Chromium	ND	1.0	µg/L	1	CU03955	06/08/11	06/08/11	EPA 7199	
STR11060848-04A (MW-5) (CUF0374-04) Aqueous	**Sampled: 06/08/11 06:35**		**Received: 06/08/11 11:50**						
Hexavalent Chromium	ND	1.0	µg/L	1	CU03955	06/08/11	06/08/11	EPA 7199	
STR11060848-05A (MW-6) (CUF0374-05) Aqueous	**Sampled: 06/08/11 06:25**		**Received: 06/08/11 11:50**						
Hexavalent Chromium	ND	1.0	µg/L	1	CU03955	06/08/11	06/08/11	EPA 7199	
STR11060848-06A (MW-10) (CUF0374-06) Aqueous	**Sampled: 06/08/11 06:45**		**Received: 06/08/11 11:50**						
Hexavalent Chromium	ND	1.0	µg/L	1	CU03955	06/08/11	06/08/11	EPA 7199	

Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project: STR11060848
Project Number: [none]
Project Manager: Reyna Vallejo

CLS Work Order #: CUF0374
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CU03955 - General Prep										
Blank (CU03955-BLK1)				Prepared & Analyzed: 06/08/11						
Hexavalent Chromium	ND	1.0	µg/L							
LCS (CU03955-BS1)				Prepared & Analyzed: 06/08/11						
Hexavalent Chromium	4.72	1.0	µg/L	5.00		94	80-120			
LCS Dup (CU03955-BSD1)				Prepared & Analyzed: 06/08/11						
Hexavalent Chromium	4.89	1.0	µg/L	5.00		98	80-120	4	20	
Matrix Spike (CU03955-MS1)	**Source: CUF0343-01**			Prepared & Analyzed: 06/08/11						
Hexavalent Chromium	4.61	1.0	µg/L	5.00	ND	92	75-125			
Matrix Spike Dup (CU03955-MSD1)	**Source: CUF0343-01**			Prepared & Analyzed: 06/08/11						
Hexavalent Chromium	4.98	1.0	µg/L	5.00	ND	100	75-125	8	25	

CALIFORNIA LABORATORY SERVICES

06/14/11 11:01

Alpha Analytical, Inc.-Sparks	Project: STR11060848	
255 Glendale Ave.; Suite 21	Project Number: [none]	**CLS Work Order #: CUF0374**
Sparks, NV 89431	Project Manager: Reyna Vallejo	COC #:

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Billing Information :

CHAIN-OF-CUSTODY RECORD

AMENDED
CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : STR11060848

Report Due By : 5:00 PM On : 16-Jun-11

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Report Attention	Phone Number	EMail Address
Scott Bittinger	(530) 676-2062 x	sbittinger@stratusinc.net

EDD Required : **Yes**

Sampled by : C. Hill

PO :

Client's COC # : 55639 Job : Foothill Mini Mart

Cooler Temp	Samples Received	Date Printed
3 °C	08-Jun-11	10-Jun-11

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests 300_0_W	317_W	METALS_AQ	METALS_CR6_SUB_W	SULFIDE_W	TPH/P_W	VOC_W	Sample Remarks
STR11060848-01A	EX-1	AQ	06/08/11 07:10	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTXE/MTBE /TBA_C	One voa labeled EX-11, matched by time
STR11060848-02A	MW-2	AQ	06/08/11 07:00	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTXE/MTBE /TBA_C	
STR11060848-03A	MW-4	AQ	06/08/11 06:15	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTXE/MTBE /TBA_C	
STR11060848-04A	MW-5	AQ	06/08/11 06:35	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTXE/MTBE /TBA_C	
STR11060848-05A	MW-6	AQ	06/08/11 06:25	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTXE/MTBE /TBA_C	
STR11060848-06A	MW-10	AQ	06/08/11 06:45	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTXE/MTBE /TBA_C	

Comments: Security seals intact. Frozen ice. Samples prelogged in order for Sac office to sub Cr+6 by 7199 to CLS and Low Level Bromate to MWH. Rest of samples rec'd 6/9/11. Amended 6/10/11 to add TPH/P to all samples, due to login error. TD. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Tara Jackson	Tara Jackson	Alpha Analytical, Inc.	6/10/11 857

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

CA

WorkOrder : STR11060848

Report Due By : 5:00 PM On : 16-Jun-11

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Report Attention	Phone Number	EMail Address
Scott Bittinger	(530) 676-2062 x	sbittinger@stratusinc.net

EDD Required : **Yes**

Sampled by : C. Hill

PO :

Client's COC # : 55639 Job : Foothill Mini Mart

Cooler Temp	Samples Received	Date Printed
3 °C	08-Jun-11	**09-Jun-11**

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests 300_0_W	317_W	METALS_AQ	METALS_CR6_SUB_W	SULFIDE_W	VOC_W	Sample Remarks
STR11060848-01A	EX-1	AQ	06/08/11 07:10	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	BTXE/MTBE /TBA_C	One voa labeled EX-11, matched by time
STR11060848-02A	MW-2	AQ	06/08/11 07:00	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	BTXE/MTBE /TBA_C	
STR11060848-03A	MW-4	AQ	06/08/11 06:15	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	BTXE/MTBE /TBA_C	
STR11060848-04A	MW-5	AQ	06/08/11 06:35	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	BTXE/MTBE /TBA_C	
STR11060848-05A	MW-6	AQ	06/08/11 06:25	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	BTXE/MTBE /TBA_C	
STR11060848-06A	MW-10	AQ	06/08/11 06:45	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	BTXE/MTBE /TBA_C	

Comments: Security seals intact. Frozen ice. Samples prelogged in order for Sac office to sub Cr+6 by 7199 to CLS and Low Level Bromate to MWH. Rest of samples rec'd 6/9/11. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Tara Dickinson	Tara Dickinson	Alpha Analytical, Inc.	6/9/11 1040

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

55639

Billing Information:
Company Name: Stratus
Attn: Scott
Address: 3330 Cameron Pk Dr
City, State, Zip: Cameron Pk
Phone Number: 5306766004 Fax: 5306766005

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ___ CA X NV ___ WA ___ DOD Site ___
ID ___ OR ___ OTHER ___
Page # 1 of 1

Consultant / Client Name: Foothill Mini Mart
Address:
City, State, Zip: Oakland
P.O. #:
Job #:
Job Name:

Report Attention / Project Manager
Name: Scott
Email:
Phone: Mobile:

Analyses Required

Data Validation Level: III or IV
EDD / EDF? YES ___ NO ___
Global ID #

Time Sampled	Date Sampled	Matrix* See Key Below	Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	GRO-BTEX	MTBE-TBA	Nitrates Nitrites	Sulfides Sulfates	Hex Total Chrome	metals		REMARKS
0710	6/8	AQ	STR1100848-01	EX-1	STD			X	X	X	X	X	X		Metals
0700			-02	MW-2				X	X	X	X	X	X		Magnesium
0615			-03	MW-4				X	X	X	X	X	X		Manganese
0635			-04	MW-5				X	X	X	X	X	X		Nickel
0625			-05	MW-6				X	X	X	X	X	X		copper
0645	6/8	AQ	-06	MW-10	STD			X	X	X	X	X	X		Potassium
															Calcium
															Arsenic
															aluminum
															barium
															bromide
															bromate
															Sub to CLS And MW4

FOR LAB USE ONLY

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: CHILL

Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:
[signature] Stratus	[signature]	6-8-11	910
	[signature] / Alpha	6/9/11	1005

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

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.

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

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 06/28/11

Job: Foothill Mini Mart

Anions by IC
EPA Method 300.0

Parameter		Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **MW-2**					
Lab ID : STR11062823-01A	Nitrite (NO2) - N	ND	250 µg/L	06/29/11 10:01	06/29/11 12:52
Date Sampled 06/28/11 06:55	Bromide	610	250 µg/L	06/29/11 10:01	06/29/11 12:52
	Nitrate (NO3) - N	ND	250 µg/L	06/29/11 10:01	06/29/11 12:52
	Sulfate (SO4)	250,000	50,000 µg/L	06/29/11 10:01	06/29/11 12:52
Client ID: **MW-4**					
Lab ID : STR11062823-02A	Nitrite (NO2) - N	ND	250 µg/L	06/29/11 10:01	06/29/11 13:11
Date Sampled 06/28/11 05:05	Bromide	ND	250 µg/L	06/29/11 10:01	06/29/11 13:11
	Nitrate (NO3) - N	ND	250 µg/L	06/29/11 10:01	06/29/11 13:11
	Sulfate (SO4)	7,400	500 µg/L	06/29/11 10:01	06/29/11 13:11
Client ID: **MW-5**					
Lab ID : STR11062823-03A	Nitrite (NO2) - N	ND	250 µg/L	06/29/11 10:01	06/29/11 13:29
Date Sampled 06/28/11 05:30	Bromide	ND	250 µg/L	06/29/11 10:01	06/29/11 13:29
	Nitrate (NO3) - N	ND	250 µg/L	06/29/11 10:01	06/29/11 13:29
	Sulfate (SO4)	6,200	500 µg/L	06/29/11 10:01	06/29/11 13:29
Client ID: **MW-6**					
Lab ID : STR11062823-04A	Nitrite (NO2) - N	ND	250 µg/L	06/29/11 10:01	06/29/11 13:48
Date Sampled 06/28/11 06:45	Bromide	340	250 µg/L	06/29/11 10:01	06/29/11 13:48
	Nitrate (NO3) - N	ND	250 µg/L	06/29/11 10:01	06/29/11 13:48
	Sulfate (SO4)	590	500 µg/L	06/29/11 10:01	06/29/11 13:48
Client ID: **MW-10**					
Lab ID : STR11062823-05A	Nitrite (NO2) - N	ND	250 µg/L	06/29/11 10:01	06/29/11 14:06
Date Sampled 06/28/11 07:09	Bromide	ND	250 µg/L	06/29/11 10:01	06/29/11 14:06
	Nitrate (NO3) - N	11,000	250 µg/L	06/29/11 10:01	06/29/11 14:06
	Sulfate (SO4)	59,000	500 µg/L	06/29/11 10:01	06/29/11 14:06
Client ID: **EX-1**					
Lab ID : STR11062823-06A	Nitrite (NO2) - N	ND	250 µg/L	06/29/11 10:01	06/29/11 18:17
Date Sampled 06/28/11 06:50	Bromide	560	250 µg/L	06/29/11 10:01	06/29/11 18:17
	Nitrate (NO3) - N	450	250 µg/L	06/29/11 10:01	06/29/11 18:17
	Sulfate (SO4)	30,000	500 µg/L	06/29/11 10:01	06/29/11 18:17

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

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) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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.

7/7/11

Report Date

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

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 06/28/11

Job: Foothill Mini Mart

Metals by ICPMS
EPA Method SW6020 / SW6020A

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **MW-2**					
Lab ID : STR11062823-01A	Magnesium (Mg)	78,000	500 µg/L	06/30/11	06/30/11
Date Sampled 06/28/11 06:55	Aluminum (Al)	160,000	200 µg/L	06/30/11	06/30/11
	Potassium (K)	18,000	500 µg/L	06/30/11	06/30/11
	Calcium (Ca)	68,000	500 µg/L	06/30/11	06/30/11
	Chromium (Cr)	390	5.0 µg/L	06/30/11	06/30/11
	Manganese (Mn)	4,200	5.0 µg/L	06/30/11	06/30/11
	Nickel (Ni)	1,000	10 µg/L	06/30/11	06/30/11
	Copper (Cu)	310	10 µg/L	06/30/11	06/30/11
	Arsenic (As)	47	5.0 µg/L	06/30/11	06/30/11
	Barium (Ba)	2,700	5.0 µg/L	06/30/11	06/30/11
Client ID: **MW-4**					
Lab ID : STR11062823-02A	Magnesium (Mg)	61,000	500 µg/L	06/30/11	06/30/11
Date Sampled 06/28/11 05:05	Aluminum (Al)	150,000	200 µg/L	06/30/11	06/30/11
	Potassium (K)	17,000	500 µg/L	06/30/11	06/30/11
	Calcium (Ca)	43,000	500 µg/L	06/30/11	06/30/11
	Chromium (Cr)	260	5.0 µg/L	06/30/11	06/30/11
	Manganese (Mn)	5,800	5.0 µg/L	06/30/11	06/30/11
	Nickel (Ni)	320	10 µg/L	06/30/11	06/30/11
	Copper (Cu)	200	10 µg/L	06/30/11	06/30/11
	Arsenic (As)	30	5.0 µg/L	06/30/11	06/30/11
	Barium (Ba)	1,400	5.0 µg/L	06/30/11	06/30/11
Client ID: **MW-5**					
Lab ID : STR11062823-03A	Magnesium (Mg)	32,000	500 µg/L	06/30/11	06/30/11
Date Sampled 06/28/11 05:30	Aluminum (Al)	31,000	200 µg/L	06/30/11	06/30/11
	Potassium (K)	4,700	500 µg/L	06/30/11	06/30/11
	Calcium (Ca)	29,000	500 µg/L	06/30/11	06/30/11
	Chromium (Cr)	55	5.0 µg/L	06/30/11	06/30/11
	Manganese (Mn)	3,500	5.0 µg/L	06/30/11	06/30/11
	Nickel (Ni)	91	10 µg/L	06/30/11	06/30/11
	Copper (Cu)	66	10 µg/L	06/30/11	06/30/11
	Arsenic (As)	14	5.0 µg/L	06/30/11	06/30/11
	Barium (Ba)	420	5.0 µg/L	06/30/11	06/30/11

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Client ID: **MW-6**					
Lab ID : STR11062823-04A	Magnesium (Mg)	42,000	500 µg/L	06/30/11	06/30/11
Date Sampled 06/28/11 06:45	Aluminum (Al)	30,000	200 µg/L	06/30/11	06/30/11
	Potassium (K)	4,500	500 µg/L	06/30/11	06/30/11
	Calcium (Ca)	35,000	500 µg/L	06/30/11	06/30/11
	Chromium (Cr)	49	5.0 µg/L	06/30/11	06/30/11
	Manganese (Mn)	4,500	5.0 µg/L	06/30/11	06/30/11
	Nickel (Ni)	76	10 µg/L	06/30/11	06/30/11
	Copper (Cu)	46	10 µg/L	06/30/11	06/30/11
	Arsenic (As)	9.3	5.0 µg/L	06/30/11	06/30/11
	Barium (Ba)	300	5.0 µg/L	06/30/11	06/30/11
Client ID: **MW-10**					
Lab ID : STR11062823-05A	Magnesium (Mg)	20,000	500 µg/L	06/30/11	06/30/11
Date Sampled 06/28/11 07:09	Aluminum (Al)	7,200	200 µg/L	06/30/11	06/30/11
	Potassium (K)	1,400	500 µg/L	06/30/11	06/30/11
	Calcium (Ca)	18,000	500 µg/L	06/30/11	06/30/11
	Chromium (Cr)	16	5.0 µg/L	06/30/11	07/01/11
	Manganese (Mn)	98	5.0 µg/L	06/30/11	06/30/11
	Nickel (Ni)	53	10 µg/L	06/30/11	06/30/11
	Copper (Cu)	ND	10 µg/L	06/30/11	06/30/11
	Arsenic (As)	ND	5.0 µg/L	06/30/11	06/30/11
	Barium (Ba)	100	5.0 µg/L	06/30/11	06/30/11
Client ID: **EX-1**					
Lab ID : STR11062823-06A	Magnesium (Mg)	86,000	500 µg/L	06/30/11	06/30/11
Date Sampled 06/28/11 06:50	Aluminum (Al)	290,000	200 µg/L	06/30/11	06/30/11
	Potassium (K)	32,000	500 µg/L	06/30/11	06/30/11
	Calcium (Ca)	66,000	500 µg/L	06/30/11	06/30/11
	Chromium (Cr)	700	5.0 µg/L	06/30/11	06/30/11
	Manganese (Mn)	4,600	5.0 µg/L	06/30/11	06/30/11
	Nickel (Ni)	1,100	10 µg/L	06/30/11	06/30/11
	Copper (Cu)	350	10 µg/L	06/30/11	06/30/11
	Arsenic (As)	52	5.0 µg/L	06/30/11	06/30/11
	Barium (Ba)	2,200	5.0 µg/L	06/30/11	06/30/11

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

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

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7/7/11

Report Date

Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

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 : 06/28/11

Job: Foothill Mini Mart

Sulfide
SM4500-S D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **MW-2**				
Lab ID : STR11062823-01A Sulfide	ND	100 µg/L	07/01/11	07/01/11
Date Sampled 06/28/11 06:55				
Client ID: **MW-4**				
Lab ID : STR11062823-02A Sulfide	ND	100 µg/L	07/01/11	07/01/11
Date Sampled 06/28/11 05:05				
Client ID: **MW-5**				
Lab ID : STR11062823-03A Sulfide	ND	100 µg/L	07/01/11	07/01/11
Date Sampled 06/28/11 05:30				
Client ID: **MW-6**				
Lab ID : STR11062823-04A Sulfide	ND	100 µg/L	07/01/11	07/01/11
Date Sampled 06/28/11 06:45				
Client ID: **MW-10**				
Lab ID : STR11062823-05A Sulfide	ND	100 µg/L	07/01/11	07/01/11
Date Sampled 06/28/11 07:09				
Client ID: **EX-1**				
Lab ID : STR11062823-06A Sulfide	ND	100 µg/L	07/01/11	07/01/11
Date Sampled 06/28/11 06:50				

ND = Not Detected
Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

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) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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7/7/11
Report Date

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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 : 06/28/11

Job: Foothill Mini Mart

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

	Parameter	Concentration		Reporting Limit	Date Extracted	Date Analyzed
Client ID : **MW-2**						
Lab ID : STR11062823-01A	TPH-P (GRO)	830		500 µg/L	07/01/11	07/01/11
Date Sampled 06/28/11 06:55	Tertiary Butyl Alcohol (TBA)	110		50 µg/L	07/01/11	07/01/11
	Methyl tert-butyl ether (MTBE)	1,700		2.5 µg/L	07/01/11	07/01/11
	Benzene	ND	V	2.5 µg/L	07/01/11	07/01/11
	Toluene	ND	V	2.5 µg/L	07/01/11	07/01/11
	Ethylbenzene	ND	V	2.5 µg/L	07/01/11	07/01/11
	m,p-Xylene	ND	V	2.5 µg/L	07/01/11	07/01/11
	o-Xylene	ND	V	2.5 µg/L	07/01/11	07/01/11
Client ID : **MW-4**						
Lab ID : STR11062823-02A	TPH-P (GRO)	910		200 µg/L	07/01/11	07/01/11
Date Sampled 06/28/11 05:05	Tertiary Butyl Alcohol (TBA)	2,000		20 µg/L	07/01/11	07/01/11
	Methyl tert-butyl ether (MTBE)	830		1.0 µg/L	07/01/11	07/01/11
	Benzene	ND	V	1.0 µg/L	07/01/11	07/01/11
	Toluene	ND	V	1.0 µg/L	07/01/11	07/01/11
	Ethylbenzene	ND	V	1.0 µg/L	07/01/11	07/01/11
	m,p-Xylene	ND	V	1.0 µg/L	07/01/11	07/01/11
	o-Xylene	ND	V	1.0 µg/L	07/01/11	07/01/11
Client ID : **MW-5**						
Lab ID : STR11062823-03A	TPH-P (GRO)	ND	V	200 µg/L	07/02/11	07/02/11
Date Sampled 06/28/11 05:30	Tertiary Butyl Alcohol (TBA)	1,300		20 µg/L	07/02/11	07/02/11
	Methyl tert-butyl ether (MTBE)	3.3		1.0 µg/L	07/02/11	07/02/11
	Benzene	ND	V	1.0 µg/L	07/02/11	07/02/11
	Toluene	ND	V	1.0 µg/L	07/02/11	07/02/11
	Ethylbenzene	ND	V	1.0 µg/L	07/02/11	07/02/11
	m,p-Xylene	ND	V	1.0 µg/L	07/02/11	07/02/11
	o-Xylene	ND	V	1.0 µg/L	07/02/11	07/02/11
Client ID : **MW-6**						
Lab ID : STR11062823-04A	TPH-P (GRO)	7,500		500 µg/L	07/01/11	07/01/11
Date Sampled 06/28/11 06:45	Tertiary Butyl Alcohol (TBA)	880		50 µg/L	07/01/11	07/01/11
	Methyl tert-butyl ether (MTBE)	270		2.5 µg/L	07/01/11	07/01/11
	Benzene	69		2.5 µg/L	07/01/11	07/01/11
	Toluene	ND	V	2.5 µg/L	07/01/11	07/01/11
	Ethylbenzene	56		2.5 µg/L	07/01/11	07/01/11
	m,p-Xylene	88		2.5 µg/L	07/01/11	07/01/11
	o-Xylene	3.9		2.5 µg/L	07/01/11	07/01/11

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Client ID :	**MW-10**					
Lab ID :	STR11062823-05A	TPH-P (GRO)	ND	50 µg/L	07/01/11	07/01/11
Date Sampled	06/28/11 07:09	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	07/01/11	07/01/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	07/01/11	07/01/11
		Benzene	ND	0.50 µg/L	07/01/11	07/01/11
		Toluene	ND	0.50 µg/L	07/01/11	07/01/11
		Ethylbenzene	ND	0.50 µg/L	07/01/11	07/01/11
		m,p-Xylene	ND	0.50 µg/L	07/01/11	07/01/11
		o-Xylene	ND	0.50 µg/L	07/01/11	07/01/11
Client ID :	**EX-1**					
Lab ID :	STR11062823-06A	TPH-P (GRO)	84	50 µg/L	07/01/11	07/01/11
Date Sampled	06/28/11 06:50	Tertiary Butyl Alcohol (TBA)	12	10 µg/L	07/01/11	07/01/11
		Methyl tert-butyl ether (MTBE)	170	0.50 µg/L	07/01/11	07/01/11
		Benzene	ND	0.50 µg/L	07/01/11	07/01/11
		Toluene	ND	0.50 µg/L	07/01/11	07/01/11
		Ethylbenzene	ND	0.50 µg/L	07/01/11	07/01/11
		m,p-Xylene	ND	0.50 µg/L	07/01/11	07/01/11
		o-Xylene	ND	0.50 µg/L	07/01/11	07/01/11

Gasoline Range Organics (GRO) C4-C13

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

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

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7/7/11

Report Date

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VOC Sample Preservation Report

Work Order: STR11062823 **Job:** Foothill Mini Mart

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11062823-01A	MW-2	Aqueous	2
11062823-02A	MW-4	Aqueous	2
11062823-03A	MW-5	Aqueous	2
11062823-04A	MW-6	Aqueous	2
11062823-05A	MW-10	Aqueous	2
11062823-06A	EX-1	Aqueous	2

7/7/11
Report Date

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Date: *07-Jul-11*

QC Summary Report

Work Order: 11062823

Method Blank

Type: **MBLK** Test Code: **EPA Method 300.0**

File ID: **22** Batch ID: **26810** Analysis Date: **06/29/2011 11:20**

Sample ID: **MB-26810** Units : **µg/L** Run ID: **IC_1_110629A** Prep Date: **06/29/2011 10:01**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	ND	250								
Bromide	ND	250								
Nitrate (NO3) - N	ND	250								
Sulfate (SO4)	ND	500								

Laboratory Fortified Blank

Type: **LFB** Test Code: **EPA Method 300.0**

File ID: **23** Batch ID: **26810** Analysis Date: **06/29/2011 11:38**

Sample ID: **LFB-26810** Units : **µg/L** Run ID: **IC_1_110629A** Prep Date: **06/29/2011 10:01**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	5710	250	5000		114	90	110			L51
Bromide	5410	250	5000		108	90	110			
Nitrate (NO3) - N	5420	250	5000		108	90	110			
Sulfate (SO4)	114000	500	100000		114	90	110			L51

Laboratory Fortified Blank Duplicate

Type: **LFBD** Test Code: **EPA Method 300.0**

File ID: **24** Batch ID: **26810** Analysis Date: **06/29/2011 11:57**

Sample ID: **LFBD-26810** Units : **µg/L** Run ID: **IC_1_110629A** Prep Date: **06/29/2011 10:01**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	5350	250	5000		107	90	110	5706	6.4(15)	
Bromide	5030	250	5000		101	90	110	5406	7.3(15)	
Nitrate (NO3) - N	5100	250	5000		102	90	110	5418	6.1(15)	
Sulfate (SO4)	105000	500	100000		105	90	110	113900	7.7(15)	

Sample Matrix Spike

Type: **LFM** Test Code: **EPA Method 300.0**

File ID: **38** Batch ID: **26810** Analysis Date: **06/29/2011 18:36**

Sample ID: **11062823-02ALFM** Units : **µg/L** Run ID: **IC_1_110629A** Prep Date: **06/29/2011 10:01**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	5370	250	5000	0	107	80	120			
Bromide	5090	250	5000	0	102	80	120			
Nitrate (NO3) - N	5150	250	5000	0	103	80	120			
Sulfate (SO4)	103000	500	100000	7352	96	80	120			

Sample Matrix Spike Duplicate

Type: **LFMD** Test Code: **EPA Method 300.0**

File ID: **39** Batch ID: **26810** Analysis Date: **06/29/2011 18:55**

Sample ID: **11062823-02ALFMD** Units : **µg/L** Run ID: **IC_1_110629A** Prep Date: **06/29/2011 10:01**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	5280	250	5000	0	106	80	120	5371	1.7(15)	
Bromide	5520	250	5000	0	110	80	120	5094	8.0(15)	
Nitrate (NO3) - N	5330	250	5000	0	107	80	120	5145	3.5(15)	
Sulfate (SO4)	104000	500	100000	7352	96	80	120	103000	0.7(15)	

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.

L51 = Analyte recovery was above acceptance limits for the LCS, but was acceptable in the MS/MSD.

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Date: *05-Jul-11*

QC Summary Report

Work Order: 11062823

Method Blank

Type **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **062911.B\231_M1.D** Batch ID: **26826** Analysis Date: **06/30/2011 19:38**

Sample ID: **MB-26826** Units : **µg/L** Run ID: **ICP/MS_110630B** Prep Date: **06/30/2011 11:06**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	ND	500								
Aluminum (Al)	ND	200								
Potassium (K)	ND	500								
Calcium (Ca)	ND	500								
Chromium (Cr)	ND	5								
Manganese (Mn)	ND	5								
Nickel (Ni)	ND	10								
Copper (Cu)	ND	10								
Arsenic (As)	ND	5								
Barium (Ba)	ND	5								

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **062911.B\231_M2.D** Batch ID: **26826** Analysis Date: **06/30/2011 19:44**

Sample ID: **LCS-26826** Units : **µg/L** Run ID: **ICP/MS_110630B** Prep Date: **06/30/2011 11:06**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	48600	500	50000		97	80	120			
Aluminum (Al)	45100	200	50000		90	80	120			
Potassium (K)	50500	500	50000		101	80	120			
Calcium (Ca)	47500	500	50000		95	80	120			
Chromium (Cr)	253	5	250		101	80	120			
Manganese (Mn)	2620	5	2500		105	80	120			
Nickel (Ni)	245	10	250		98	80	120			
Copper (Cu)	243	10	250		97	80	120			
Arsenic (As)	246	5	250		98	80	120			
Barium (Ba)	2620	5	2500		105	80	120			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **062911.B\235_M.D** Batch ID: **26826** Analysis Date: **06/30/2011 20:12**

Sample ID: **11062823-05AMS** Units : **µg/L** Run ID: **ICP/MS_110630B** Prep Date: **06/30/2011 11:06**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	70800	500	50000	19640	102	75	125			
Aluminum (Al)	55800	200	50000	7223	97	75	125			
Potassium (K)	53200	500	50000	1363	104	75	125			
Calcium (Ca)	70200	500	50000	18080	104	75	125			
Chromium (Cr)	290	5	250	15.88	110	75	125			
Manganese (Mn)	2680	5	2500	97.48	103	75	125			
Nickel (Ni)	308	10	250	52.51	102	75	125			
Copper (Cu)	268	10	250	0	107	75	125			
Arsenic (As)	252	5	250	0	101	75	125			
Barium (Ba)	2680	5	2500	103.9	103	75	125			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **062911.B\236_M.D** Batch ID: **26826** Analysis Date: **06/30/2011 20:18**

Sample ID: **11062823-05AMSD** Units : **µg/L** Run ID: **ICP/MS_110630B** Prep Date: **06/30/2011 11:06**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	72000	500	50000	19640	105	75	125	70760	1.8(20)	
Aluminum (Al)	56600	200	50000	7223	99	75	125	55830	1.4(20)	
Potassium (K)	54300	500	50000	1363	106	75	125	53210	2.1(20)	
Calcium (Ca)	71400	500	50000	18080	107	75	125	70180	1.7(20)	
Chromium (Cr)	283	5	250	15.88	107	75	125	290	2.6(20)	
Manganese (Mn)	2760	5	2500	97.48	107	75	125	2683	2.9(20)	
Nickel (Ni)	314	10	250	52.51	105	75	125	307.9	2.1(20)	
Copper (Cu)	274	10	250	0	109	75	125	268.3	2.0(20)	
Arsenic (As)	255	5	250	0	102	75	125	251.5	1.4(20)	
Barium (Ba)	2730	5	2500	103.9	105	75	125	2682	1.6(20)	

Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *05-Jul-11*

QC Summary Report

Work Order: 11062823

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 Liter, per client request.

Alpha Analytical, Inc.

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Date: *07-Jul-11*

QC Summary Report

Work Order: 11062823

Method Blank

Type: **MBLK** Test Code: **SM4500-S D**

File ID: Batch ID: **W0701SU** Analysis Date: **07/01/2011 00:00**

Sample ID: **MBLK-W0701SU** Units : **µg/L** Run ID: **WETLAB_110701B** Prep Date: **07/01/2011 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	ND	100								

Laboratory Control Spike

Type: **LCS** Test Code: **SM4500-S D**

File ID: Batch ID: **W0701SU** Analysis Date: **07/01/2011 00:00**

Sample ID: **LCS-W0701SU** Units : **µg/L** Run ID: **WETLAB_110701B** Prep Date: **07/01/2011 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	758	100	1000		76	62	142			

Sample Matrix Spike

Type: **MS** Test Code: **SM4500-S D**

File ID: Batch ID: **W0701SU** Analysis Date: **07/01/2011 00:00**

Sample ID: **11062823-01AMS** Units : **µg/L** Run ID: **WETLAB_110701B** Prep Date: **07/01/2011 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	818	100	1000	0	82	42	145			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **SM4500-S D**

File ID: Batch ID: **W0701SU** Analysis Date: **07/01/2011 00:00**

Sample ID: **11062823-01AMSD** Units : **µg/L** Run ID: **WETLAB_110701B** Prep Date: **07/01/2011 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	847	100	1000	0	85	42	145	818	3.5(20)	

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 Liter, per client request.

Alpha Analytical, Inc.

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Date: 06-Jul-11

QC Summary Report

Work Order: 11062823

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS07\DATA\110630\11063038.D** Batch ID: **MS07W0630D** Analysis Date: **06/30/2011 23:45**

Sample ID: **MBLK MS07W0630D** Units : **µg/L** Run ID: **MSD_07_110630B** Prep Date: **06/30/2011 23:45**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	8.99		10		90	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	9.92		10		99	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS07\DATA\110630\11063035.D** Batch ID: **MS07W0630D** Analysis Date: **06/30/2011 22:33**

Sample ID: **GLCS MS07W0630D** Units : **µg/L** Run ID: **MSD_07_110630B** Prep Date: **06/30/2011 22:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	395	50	400		99	70	130			
Surr: 1,2-Dichloroethane-d4	8.97		10		90	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	9.73		10		97	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS07\DATA\110630\11063041.D** Batch ID: **MS07W0630D** Analysis Date: **07/01/2011 00:58**

Sample ID: **11062823-03AGS** Units : **µg/L** Run ID: **MSD_07_110630B** Prep Date: **07/01/2011 00:58**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2210	250	2000	161.5	102	51	144			
Surr: 1,2-Dichloroethane-d4	42.8		50		86	70	130			
Surr: Toluene-d8	49.7		50		99	70	130			
Surr: 4-Bromofluorobenzene	49.4		50		99	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS07\DATA\110630\11063042.D** Batch ID: **MS07W0630D** Analysis Date: **07/01/2011 01:22**

Sample ID: **11062823-03AGSD** Units : **µg/L** Run ID: **MSD_07_110630B** Prep Date: **07/01/2011 01:22**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2170	250	2000	161.5	100	51	144	2206	1.6(29)	
Surr: 1,2-Dichloroethane-d4	45.1		50		90	70	130			
Surr: Toluene-d8	50.9		50		102	70	130			
Surr: 4-Bromofluorobenzene	48.5		50		97	70	130			

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 Liter, per client request.

Alpha Analytical, Inc.

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Date: *06-Jul-11*

QC Summary Report

Work Order: 11062823

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS07\DATA\110630\11063038.D** Batch ID: **MS07W0630C** Analysis Date: **06/30/2011 23:45**

Sample ID: **MBLK MS07W0630C** Units : **µg/L** Run ID: **MSD_07_110630B** Prep Date: **06/30/2011 23:45**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	10								
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	8.99		10		90	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	9.92		10		99	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS07\DATA\110630\11063034.D** Batch ID: **MS07W0630C** Analysis Date: **06/30/2011 22:09**

Sample ID: **LCS MS07W0630C** Units : **µg/L** Run ID: **MSD_07_110630B** Prep Date: **06/30/2011 22:09**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.68	0.5	10		97	65	140			
Benzene	9.5	0.5	10		95	70	130			
Toluene	9.95	0.5	10		100	80	120			
Ethylbenzene	10.5	0.5	10		105	80	120			
m,p-Xylene	10.4	0.5	10		104	70	130			
o-Xylene	10.5	0.5	10		105	70	130			
Surr: 1,2-Dichloroethane-d4	8.75		10		88	70	130			
Surr: Toluene-d8	10.5		10		105	70	130			
Surr: 4-Bromofluorobenzene	9.67		10		97	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS07\DATA\110630\11063039.D** Batch ID: **MS07W0630C** Analysis Date: **07/01/2011 00:09**

Sample ID: **11062823-03AMS** Units : **µg/L** Run ID: **MSD_07_110630B** Prep Date: **07/01/2011 00:09**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	51.5	1.3	50	3.34	96	47	150			
Benzene	45.3	1.3	50	0	91	59	138			
Toluene	47.1	1.3	50	0	94	68	130			
Ethylbenzene	50	1.3	50	0	99.9	68	130			
m,p-Xylene	49.6	1.3	50	0	99	68	131			
o-Xylene	50.6	1.3	50	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	43.7		50		87	70	130			
Surr: Toluene-d8	52		50		104	70	130			
Surr: 4-Bromofluorobenzene	48.7		50		97	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS07\DATA\110630\11063040.D** Batch ID: **MS07W0630C** Analysis Date: **07/01/2011 00:34**

Sample ID: **11062823-03AMSD** Units : **µg/L** Run ID: **MSD_07_110630B** Prep Date: **07/01/2011 00:34**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	52.8	1.3	50	3.34	99	47	150	51.46	2.6(40)	
Benzene	46.9	1.3	50	0	94	59	138	45.33	3.5(21)	
Toluene	49.4	1.3	50	0	99	68	130	47.14	4.6(20)	
Ethylbenzene	52.4	1.3	50	0	105	68	130	49.96	4.8(20)	
m,p-Xylene	52.3	1.3	50	0	105	68	131	49.62	5.2(20)	
o-Xylene	52.6	1.3	50	0	105	70	130	50.55	4.0(20)	
Surr: 1,2-Dichloroethane-d4	42.8		50		86	70	130			
Surr: Toluene-d8	52.9		50		106	70	130			
Surr: 4-Bromofluorobenzene	48.6		50		97	70	130			

Alpha Analytical, Inc.

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Date: *06-Jul-11*

QC Summary Report

Work Order: 11062823

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.

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Fax: 626 386 1101
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Laboratory Report

for

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, NV 89431
Attention: Reyna Vallejo
Fax: 775-355-0406

Date of Issue
07/12/2011
MWH LABORATORIES

ACCREDITED IN ACCORDANCE WITH nelac 01114CA

Report#: 369034
Project: SUBCONTRACT
Group: Bromate

DST: David S Tripp
Project Manager

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

MWH LABORATORIES

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0455	**Nevada**	CA00006-2010-1
Arkansas	Certified	**New Hampshire**	2959-10
California – NELAP	01114CA	**New Jersey**	CA 008
California – ELAP	1422	**New Mexico**	Certified
Colorado	Certified	**New York**	11320
Connecticut	PH-0107	**North Carolina**	6701
Delaware	CA 006	**North Dakota**	R-009
Florida	E871024	**Oregon**	CA 200003-007
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Kansas	E-10268	**Utah**	Mont-1
Kentucky	90107	**Vermont**	VT0114
Louisiana	LA070018	**Virginia**	210
Maine	CA0006	**Washington**	C383-10a
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	0007;0008	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-Q
Michigan	9906	**EPA Region 5**	Certified

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://MWHLabs.com

MWH LABORATORIES

Acknowledgement of Samples Received

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, NV 89431
Attn: Reyna Vallejo
Phone: 775-355-1044

Customer Code: ALPHA-NV
Folder #: 369034
Project: SUBCONTRACT
Sample Group: Bromate
Project Manager: David S Tripp
Phone: (626) 386-1158
PO #: STR11062823

The following samples were received from you on **June 29, 2011**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample ID	Sample Date
201106290500	MW-2 Variable ID: STR11062823-01A	Jun 28, 2011 06:53
	Bromate by UV/VIS	
201106290502	MW-4 Variable ID: STR11062823-02A	Jun 28, 2011 05:05
	Bromate by UV/VIS	
201106290503	MW-5 Variable ID: STR11062823-03A	Jun 28, 2011 05:30
	Bromate by UV/VIS	
201106290504	MW-6 Variable ID: STR11062823-04A	Jun 28, 2011 06:45
	Bromate by UV/VIS	
201106290505	MW-10 Variable ID: STR11062823-05A	Jun 28, 2011 07:09
	Bromate by UV/VIS	
201106290506	EX-1 Variable ID: STR11062823-06A	Jun 28, 2011 06:50
	Bromate by UV/VIS	

Test Description

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Laboratory
Hits Report: 369034

Alpha Analytical, Inc.
Reyna Vallejo
255 Glendale Avenue, Suite 21
Sparks, NV 89431

Samples Received on:
06/29/2011

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		201106290506 **EX-1**				
07/08/2011	15:01 Bromate by UV/VIS		1.3	10	ug/L	1

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data
Report: 369034

Alpha Analytical, Inc.
Reyna Vallejo
255 Glendale Avenue, Suite 21
Sparks, NV 89431

Samples Received on:
06/29/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
MW-2 (201106290500)						**Sampled on 06/28/2011 0653**		
Variable ID: STR11062823-01A								
EPA 317 - Bromate by UV/VIS 317								
07/08/2011	13:04	608987	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-4 (201106290502)						**Sampled on 06/28/2011 0505**		
Variable ID: STR11062823-02A								
EPA 317 - Bromate by UV/VIS 317								
07/08/2011	13:27	608987	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-5 (201106290503)						**Sampled on 06/28/2011 0530**		
Variable ID: STR11062823-03A								
EPA 317 - Bromate by UV/VIS 317								
07/08/2011	13:51	608987	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-6 (201106290504)						**Sampled on 06/28/2011 0645**		
Variable ID: STR11062823-04A								
EPA 317 - Bromate by UV/VIS 317								
07/08/2011	14:14	608987	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-10 (201106290505)						**Sampled on 06/28/2011 0709**		
Variable ID: STR11062823-05A								
EPA 317 - Bromate by UV/VIS 317								
07/08/2011	14:38	608987	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
EX-1 (201106290506)						**Sampled on 06/28/2011 0650**		
Variable ID: STR11062823-06A								
EPA 317 - Bromate by UV/VIS 317								
07/08/2011	15:01	608987	(EPA 317)	Bromate by UV/VIS	1.3	ug/L	1	1

Rounding on totals after summation.
(c) - indicates calculated results

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Laboratory Comments
Report: #369034

Alpha Analytical, Inc.
Reyna Vallejo
255 Glendale Avenue, Suite 21
Sparks, NV 89431

The Comments Report may be blank if there are no comments for this report.

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Laboratory
QC Summary: 369034

Alpha Analytical, Inc.

QC Ref # 608987 - Bromate by UV/VIS 317

Analysis Date: 07/08/2011

201106290500	MW-2	Analyzed by: TLH
201106290502	MW-4	Analyzed by: TLH
201106290503	MW-5	Analyzed by: TLH
201106290504	MW-6	Analyzed by: TLH
201106290505	MW-10	Analyzed by: TLH
201106290506	EX-1	Analyzed by: TLH

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Laboratory
QC Report: 369034

Alpha Analytical, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 608987 - Bromate by UV/VIS 317 by EPA 317						**Analysis Date: 07/08/2011**			
LCS1	Bromate by UV/VIS		10	9.28	ug/L	93	(90-110)		
LCS2	Bromate by UV/VIS		10	9.38	ug/L	94	(90-110)	20	1.1
MBLK	Bromate by UV/VIS			<1	ug/L				
MRL_CHK	Bromate by UV/VIS		1.0	0.766	ug/L	77	(75-125)		
MS_201106300239	Bromate by UV/VIS	ND	5.0	5.29	ug/L	97	(75-125)		
MSD_201106300239	Bromate by UV/VIS	ND	5.0	5.15	ug/L	94	(75-125)	15	2.9

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
(S) Indicates surrogate compound.
(I) Indicates internal standard compound.
RPD not calculated for LCS2 when different a concentration than LCS1 is used
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

July 05, 2011

CLS Work Order #: CUF1137
COC #:

Reyna Vallejo
Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project Name: STR11062823

Enclosed are the results of analyses for samples received by the laboratory on 06/28/11 12:25. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

07/05/11 12:53

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: STR11062823 Project Number: STR11062823 Project Manager: Reyna Vallejo	**CLS Work Order #: CUF1137** COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STR11062823-01A (MW-2) (CUF1137-01) Water Sampled: 06/28/11 06:53 Received: 06/28/11 12:25									
Hexavalent Chromium	ND	1.0	µg/L	1	CU04510	06/29/11	06/29/11	EPA 7199	
STR11062823-02A (MW-4) (CUF1137-02) Water Sampled: 06/28/11 05:05 Received: 06/28/11 12:25									
Hexavalent Chromium	ND	1.0	µg/L	1	CU04479	06/28/11	06/28/11	EPA 7199	
STR11062823-03A (MW-5) (CUF1137-03) Water Sampled: 06/28/11 05:30 Received: 06/28/11 12:25									
Hexavalent Chromium	ND	1.0	µg/L	1	CU04479	06/28/11	06/28/11	EPA 7199	
STR11062823-04A (MW-6) (CUF1137-04) Water Sampled: 06/28/11 06:45 Received: 06/28/11 12:25									
Hexavalent Chromium	ND	1.0	µg/L	1	CU04510	06/29/11	06/29/11	EPA 7199	
STR11062823-05A (MW-10) (CUF1137-05) Water Sampled: 06/28/11 07:09 Received: 06/28/11 12:25									
Hexavalent Chromium	ND	1.0	µg/L	1	CU04510	06/29/11	06/29/11	EPA 7199	
STR11062823-06A (EX-1) (CUF1137-06) Water Sampled: 06/28/11 06:50 Received: 06/28/11 12:25									
Hexavalent Chromium	**3.4**	1.0	µg/L	1	CU04510	06/29/11	06/29/11	EPA 7199	

CALIFORNIA LABORATORY SERVICES

07/05/11 12:53

Alpha Analytical, Inc.-Sparks	Project: STR11062823	
255 Glendale Ave.; Suite 21	Project Number: STR11062823	**CLS Work Order #: CUF1137**
Sparks, NV 89431	Project Manager: Reyna Vallejo	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CU04479 - General Prep										
Blank (CU04479-BLK1)				Prepared & Analyzed: 06/28/11						
Hexavalent Chromium	ND	1.0	µg/L							
LCS (CU04479-BS1)				Prepared & Analyzed: 06/28/11						
Hexavalent Chromium	4.88	1.0	µg/L	5.00		98	80-120			
LCS Dup (CU04479-BSD1)				Prepared & Analyzed: 06/28/11						
Hexavalent Chromium	4.53	1.0	µg/L	5.00		91	80-120	8	20	
Matrix Spike (CU04479-MS1)		**Source: CUF1137-02**		Prepared & Analyzed: 06/28/11						
Hexavalent Chromium	5.35	1.0	µg/L	5.00	ND	107	75-125			
Matrix Spike Dup (CU04479-MSD1)		**Source: CUF1137-02**		Prepared & Analyzed: 06/28/11						
Hexavalent Chromium	4.52	1.0	µg/L	5.00	ND	90	75-125	17	25	
Batch CU04510 - General Prep										
Blank (CU04510-BLK1)				Prepared & Analyzed: 06/29/11						
Hexavalent Chromium	ND	1.0	µg/L							
LCS (CU04510-BS1)				Prepared & Analyzed: 06/29/11						
Hexavalent Chromium	4.63	1.0	µg/L	5.00		93	80-120			
LCS Dup (CU04510-BSD1)				Prepared & Analyzed: 06/29/11						
Hexavalent Chromium	4.74	1.0	µg/L	5.00		95	80-120	2	20	
Matrix Spike (CU04510-MS1)		**Source: CUF1137-04**		Prepared & Analyzed: 06/29/11						
Hexavalent Chromium	0.749	1.0	µg/L	5.00	ND	15	75-125			QM-7

07/05/11 12:53

Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project: STR11062823
Project Number: STR11062823
Project Manager: Reyna Vallejo

CLS Work Order #: CUF1137
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CU04510 - General Prep										
Matrix Spike Dup (CU04510-MSD1)	**Source: CUF1137-04**			Prepared & Analyzed: 06/29/11						
Hexavalent Chromium	0.821	1.0	µg/L	5.00	ND	16	75-125	9	25	QM-7

CALIFORNIA LABORATORY SERVICES

07/05/11 12:53

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: STR11062823 Project Number: STR11062823 Project Manager: Reyna Vallejo	**CLS Work Order #: CUF1137** COC #:

Notes and Definitions

QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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

CA

WorkOrder : STR11062823

Report Due By : 5:00 PM On : 07-Jul-11

Report Attention	Phone Number	EMail Address
Scott Bittinger	(530) 676-2062 x	sbittinger@stratusinc.net

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

PO :

Client's COC # : 54985 Job : Foothill Mini Mart

EDD Required : **Yes**

Sampled by : C. Hill

Cooler Temp	Samples Received	Date Printed
0 °C	28-Jun-11	**29-Jun-11**

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests 300_0_W	317_W	METALS_AQ	METALS_CR6_SUB_W	SULFIDE_W	TPH/P_W	VOC_W	Sample Remarks
STR11062823-01A	MW-2	AQ	06/28/11 06:55	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTXE/MTBE/TBA_C	
STR11062823-02A	MW-4	AQ	06/28/11 05:05	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTXE/MTBE/TBA_C	
STR11062823-03A	MW-5	AQ	06/28/11 05:30	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTXE/MTBE/TBA_C	
STR11062823-04A	MW-6	AQ	06/28/11 06:45	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTXE/MTBE/TBA_C	
STR11062823-05A	MW-10	AQ	06/28/11 07:09	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTXE/MTBE/TBA_C	
STR11062823-06A	EX-1	AQ	06/28/11 06:50	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTXE/MTBE/TBA_C	

Comments: Chain prelogged 6/28/11 in order for Sac office to sub Cr6+ by 7199 to CLS and Low Level Bromate to MWH. Remaining samples received 6/28/11. Security seals intact. Frozen ice. :

	Signature	Print Name	Company	Date/Time
Logged in by:	K Murray	K Murray	**Alpha Analytical, Inc.**	6/29/11 1030

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

54985

Billing Information:
Company Name: Stratus
Attn: Scott
Address: 3330 Cameron Pk Dr
City, State, Zip: Cameron Pk CA
Phone Number: 530 676 6004 Fax: 530 676 6005

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ____ CA X NV ____ WA ____ DOD Site ____
ID ____ OR ____ OTHER ____
Page # 1 of 1

Consultant / Client Name: Foothill Mini Mart
Address:
City, State, Zip: Oakland
Job #:
Job Name:
Report Attention / Project Manager
Name: Scott
Email:
Phone: Mobile:

Data Validation Level: III or IV
EDD / EDF? YES ____ NO ____
Global ID # ____

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. # / Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	GRO, BTEX	MTBE, TBA	Nitrates	Nitrites	Sulfides	Sulfates	Metals	REMARKS
0645	6/28	AQ	STR1106282 3-01	MW-2	STD		10	X	X	X	X	X			Metals
0505			02	MW-4			10	X	X	X	X	X			Magnesium,
0530			03	MW-5			10	X	X	X	X	X			Manganese, Nickel
0645			04	MW-6			10	X	X	X	X	X			Copper, Potassium
0709			05	MW-10			10	X	X	X	X	X			Calcium, Arsenic
0750			06	EX-1			10	X	X	X	X	X			Total Chromium
															Hex Chromium
															aluminum, barium
															Bromide
															bromate
															Sub to CLS &
															mwd # 1106283

FOR LAB USE ONLY

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: CYRIL

Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date: 6-28-11	Time: 1115
Relinquished by: (Signature/Affiliation) 6-28-11 1500	Received by: (Signature/Affiliation)	Date: 6/29/11	Time: 1030
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

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

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.

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

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 07/12/11

Job: Foothill Mini Mart

Anions by IC
EPA Method 300.0

Parameter		Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **MW-2**					
Lab ID : STR11071261-01A	Nitrite (NO2) - N	ND	250 µg/L	07/12/11 12:59	07/12/11 19:39
Date Sampled 07/11/11 06:50	Bromide	320	250 µg/L	07/12/11 12:59	07/13/11 16:49
	Nitrate (NO3) - N	ND	250 µg/L	07/12/11 12:59	07/12/11 19:39
	Sulfate (SO4)	130,000	50,000 µg/L	07/12/11 12:59	07/12/11 19:39
Client ID: **MW-4**					
Lab ID : STR11071261-02A	Nitrite (NO2) - N	ND	250 µg/L	07/12/11 12:59	07/12/11 19:58
Date Sampled 07/11/11 05:00	Bromide	ND	250 µg/L	07/12/11 12:59	07/12/11 19:58
	Nitrate (NO3) - N	ND	250 µg/L	07/12/11 12:59	07/12/11 19:58
	Sulfate (SO4)	3,000	500 µg/L	07/12/11 12:59	07/12/11 19:58
Client ID: **MW-5**					
Lab ID : STR11071261-03A	Nitrite (NO2) - N	ND	250 µg/L	07/12/11 12:59	07/12/11 20:16
Date Sampled 07/11/11 05:11	Bromide	ND	250 µg/L	07/12/11 12:59	07/12/11 20:16
	Nitrate (NO3) - N	ND	250 µg/L	07/12/11 12:59	07/12/11 20:16
	Sulfate (SO4)	7,500	500 µg/L	07/12/11 12:59	07/12/11 20:16
Client ID: **MW-6**					
Lab ID : STR11071261-04A	Nitrite (NO2) - N	ND	250 µg/L	07/12/11 12:59	07/12/11 20:35
Date Sampled 07/11/11 05:35	Bromide	300	250 µg/L	07/12/11 12:59	07/12/11 20:35
	Nitrate (NO3) - N	ND	250 µg/L	07/12/11 12:59	07/12/11 20:35
	Sulfate (SO4)	ND	500 µg/L	07/12/11 12:59	07/12/11 20:35
Client ID: **MW-10**					
Lab ID : STR11071261-05A	Nitrite (NO2) - N	ND	250 µg/L	07/12/11 12:59	07/12/11 20:53
Date Sampled 07/11/11 06:21	Bromide	ND	250 µg/L	07/12/11 12:59	07/12/11 20:53
	Nitrate (NO3) - N	12,000	250 µg/L	07/12/11 12:59	07/12/11 20:53
	Sulfate (SO4)	50,000	500 µg/L	07/12/11 12:59	07/12/11 20:53
Client ID: **EX-1**					
Lab ID : STR11071261-06A	Nitrite (NO2) - N	ND	250 µg/L	07/12/11 12:59	07/12/11 21:12
Date Sampled 07/11/11 06:55	Bromide	330	250 µg/L	07/12/11 12:59	07/12/11 21:12
	Nitrate (NO3) - N	ND	250 µg/L	07/12/11 12:59	07/12/11 21:12
	Sulfate (SO4)	21,000	500 µg/L	07/12/11 12:59	07/12/11 21:12

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

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) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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.

e

7/20/11

Report Date

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

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 07/12/11

Job: Foothill Mini Mart

Metals by ICPMS
EPA Method SW6020 / SW6020A

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **MW-2**					
Lab ID : STR11071261-01A	Magnesium (Mg)	98,000	500 µg/L	07/15/11	07/20/11
Date Sampled 07/11/11 06:50	Aluminum (Al)	280,000	200 µg/L	07/15/11	07/20/11
	Potassium (K)	21,000	500 µg/L	07/15/11	07/20/11
	Calcium (Ca)	39,000	500 µg/L	07/15/11	07/20/11
	Chromium (Cr)	570	5.0 µg/L	07/15/11	07/20/11
	Manganese (Mn)	3,200	5.0 µg/L	07/15/11	07/20/11
	Nickel (Ni)	1,000	10 µg/L	07/15/11	07/20/11
	Copper (Cu)	250	10 µg/L	07/15/11	07/20/11
	Arsenic (As)	48	5.0 µg/L	07/15/11	07/20/11
	Barium (Ba)	2,900	5.0 µg/L	07/15/11	07/20/11
Client ID: **MW-4**					
Lab ID : STR11071261-02A	Magnesium (Mg)	51,000	500 µg/L	07/15/11	07/20/11
Date Sampled 07/11/11 05:00	Aluminum (Al)	81,000	200 µg/L	07/15/11	07/20/11
	Potassium (K)	9,400	500 µg/L	07/15/11	07/20/11
	Calcium (Ca)	33,000	500 µg/L	07/15/11	07/20/11
	Chromium (Cr)	130	5.0 µg/L	07/15/11	07/20/11
	Manganese (Mn)	5,300	5.0 µg/L	07/15/11	07/20/11
	Nickel (Ni)	150	10 µg/L	07/15/11	07/20/11
	Copper (Cu)	81	10 µg/L	07/15/11	07/20/11
	Arsenic (As)	16	5.0 µg/L	07/15/11	07/20/11
	Barium (Ba)	640	5.0 µg/L	07/15/11	07/20/11
Client ID: **MW-5**					
Lab ID : STR11071261-03A	Magnesium (Mg)	29,000	500 µg/L	07/15/11	07/19/11
Date Sampled 07/11/11 05:11	Aluminum (Al)	17,000	200 µg/L	07/15/11	07/19/11
	Potassium (K)	3,400	500 µg/L	07/15/11	07/19/11
	Calcium (Ca)	26,000	500 µg/L	07/15/11	07/19/11
	Chromium (Cr)	36	5.0 µg/L	07/15/11	07/19/11
	Manganese (Mn)	2,900	5.0 µg/L	07/15/11	07/19/11
	Nickel (Ni)	64	10 µg/L	07/15/11	07/19/11
	Copper (Cu)	33	10 µg/L	07/15/11	07/19/11
	Arsenic (As)	9.6	5.0 µg/L	07/15/11	07/19/11
	Barium (Ba)	240	5.0 µg/L	07/15/11	07/19/11

Alpha Analytical, Inc.

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Client ID: **MW-6**					
Lab ID : STR11071261-04A	Magnesium (Mg)	43,000	500 µg/L	07/15/11	07/20/11
Date Sampled 07/11/11 05:35	Aluminum (Al)	22,000	200 µg/L	07/15/11	07/20/11
	Potassium (K)	3,300	500 µg/L	07/15/11	07/20/11
	Calcium (Ca)	31,000	500 µg/L	07/15/11	07/20/11
	Chromium (Cr)	56	5.0 µg/L	07/15/11	07/20/11
	Manganese (Mn)	4,700	5.0 µg/L	07/15/11	07/20/11
	Nickel (Ni)	110	10 µg/L	07/15/11	07/20/11
	Copper (Cu)	28	10 µg/L	07/15/11	07/20/11
	Arsenic (As)	9.0	5.0 µg/L	07/15/11	07/20/11
	Barium (Ba)	200	5.0 µg/L	07/15/11	07/20/11
Client ID: **MW-10**					
Lab ID : STR11071261-05A	Magnesium (Mg)	17,000	500 µg/L	07/15/11	07/20/11
Date Sampled 07/11/11 06:21	Aluminum (Al)	7,500	200 µg/L	07/15/11	07/20/11
	Potassium (K)	1,600	500 µg/L	07/15/11	07/20/11
	Calcium (Ca)	17,000	500 µg/L	07/15/11	07/20/11
	Chromium (Cr)	39	5.0 µg/L	07/15/11	07/20/11
	Manganese (Mn)	170	5.0 µg/L	07/15/11	07/20/11
	Nickel (Ni)	120	10 µg/L	07/15/11	07/20/11
	Copper (Cu)	ND	10 µg/L	07/15/11	07/20/11
	Arsenic (As)	ND	5.0 µg/L	07/15/11	07/20/11
	Barium (Ba)	110	5.0 µg/L	07/15/11	07/20/11
Client ID: **EX-1**					
Lab ID : STR11071261-06A	Magnesium (Mg)	63,000	500 µg/L	07/15/11	07/20/11
Date Sampled 07/11/11 06:55	Aluminum (Al)	170,000	200 µg/L	07/15/11	07/20/11
	Potassium (K)	15,000	500 µg/L	07/15/11	07/20/11
	Calcium (Ca)	41,000	500 µg/L	07/15/11	07/20/11
	Chromium (Cr)	360	5.0 µg/L	07/15/11	07/20/11
	Manganese (Mn)	3,200	5.0 µg/L	07/15/11	07/20/11
	Nickel (Ni)	640	10 µg/L	07/15/11	07/20/11
	Copper (Cu)	160	10 µg/L	07/15/11	07/20/11
	Arsenic (As)	32	5.0 µg/L	07/15/11	07/20/11
	Barium (Ba)	930	5.0 µg/L	07/15/11	07/20/11

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

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) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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.

7/21/11

Report Date

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

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 07/12/11

Job: Foothill Mini Mart

Sulfide
SM4500-S D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **MW-2**				
Lab ID : STR11071261-01A Sulfide	140	100 µg/L	07/15/11	07/15/11
Date Sampled 07/11/11 06:50				
Client ID: **MW-4**				
Lab ID : STR11071261-02A Sulfide	ND	100 µg/L	07/15/11	07/15/11
Date Sampled 07/11/11 05:00				
Client ID: **MW-5**				
Lab ID : STR11071261-03A Sulfide	ND	100 µg/L	07/15/11	07/15/11
Date Sampled 07/11/11 05:11				
Client ID: **MW-6**				
Lab ID : STR11071261-04A Sulfide	ND	100 µg/L	07/15/11	07/15/11
Date Sampled 07/11/11 05:35				
Client ID: **MW-10**				
Lab ID : STR11071261-05A Sulfide	ND	100 µg/L	07/15/11	07/15/11
Date Sampled 07/11/11 06:21				
Client ID: **EX-1**				
Lab ID : STR11071261-06A Sulfide	ND	100 µg/L	07/15/11	07/15/11
Date Sampled 07/11/11 06:55				

ND = Not Detected
Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

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) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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.

7/20/11
Report Date

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

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 07/12/11

Job: Foothill Mini Mart

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

		Parameter	Concentration		Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**MW-2**						
Lab ID :	STR11071261-01A	TPH-P (GRO)	140		50 µg/L	07/13/11	07/13/11
Date Sampled	07/11/11 06:50	Tertiary Butyl Alcohol (TBA)	280		10 µg/L	07/13/11	07/13/11
		Methyl tert-butyl ether (MTBE)	39		0.50 µg/L	07/13/11	07/13/11
		Benzene	ND		0.50 µg/L	07/13/11	07/13/11
		Toluene	ND		0.50 µg/L	07/13/11	07/13/11
		Ethylbenzene	ND		0.50 µg/L	07/13/11	07/13/11
		m,p-Xylene	ND		0.50 µg/L	07/13/11	07/13/11
		o-Xylene	ND		0.50 µg/L	07/13/11	07/13/11
Client ID :	**MW-4**						
Lab ID :	STR11071261-02A	TPH-P (GRO)	2,100		200 µg/L	07/15/11	07/15/11
Date Sampled	07/11/11 05:00	Tertiary Butyl Alcohol (TBA)	2,900		20 µg/L	07/15/11	07/15/11
		Methyl tert-butyl ether (MTBE)	270		1.0 µg/L	07/15/11	07/15/11
		Benzene	ND	V	1.0 µg/L	07/15/11	07/15/11
		Toluene	ND	V	1.0 µg/L	07/15/11	07/15/11
		Ethylbenzene	1.2		1.0 µg/L	07/15/11	07/15/11
		m,p-Xylene	ND	V	1.0 µg/L	07/15/11	07/15/11
		o-Xylene	ND	V	1.0 µg/L	07/15/11	07/15/11
Client ID :	**MW-5**						
Lab ID :	STR11071261-03A	TPH-P (GRO)	60		50 µg/L	07/15/11	07/15/11
Date Sampled	07/11/11 05:11	Tertiary Butyl Alcohol (TBA)	870		10 µg/L	07/15/11	07/15/11
		Methyl tert-butyl ether (MTBE)	3.2		0.50 µg/L	07/15/11	07/15/11
		Benzene	ND		0.50 µg/L	07/15/11	07/15/11
		Toluene	ND		0.50 µg/L	07/15/11	07/15/11
		Ethylbenzene	ND		0.50 µg/L	07/15/11	07/15/11
		m,p-Xylene	ND		0.50 µg/L	07/15/11	07/15/11
		o-Xylene	ND		0.50 µg/L	07/15/11	07/15/11
Client ID :	**MW-6**						
Lab ID :	STR11071261-04A	TPH-P (GRO)	6,000		400 µg/L	07/13/11	07/13/11
Date Sampled	07/11/11 05:35	Tertiary Butyl Alcohol (TBA)	620		40 µg/L	07/13/11	07/13/11
		Methyl tert-butyl ether (MTBE)	240		2.0 µg/L	07/13/11	07/13/11
		Benzene	63		2.0 µg/L	07/13/11	07/13/11
		Toluene	ND	V	2.0 µg/L	07/13/11	07/13/11
		Ethylbenzene	57		2.0 µg/L	07/13/11	07/13/11
		m,p-Xylene	90		2.0 µg/L	07/13/11	07/13/11
		o-Xylene	4.2		2.0 µg/L	07/13/11	07/13/11

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Client ID :	**MW-10**						
Lab ID :	STR11071261-05A	TPH-P (GRO)	ND		50 µg/L	07/13/11	07/13/11
Date Sampled	07/11/11 06:21	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	07/13/11	07/13/11
		Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	07/13/11	07/13/11
		Benzene	ND		0.50 µg/L	07/13/11	07/13/11
		Toluene	ND		0.50 µg/L	07/13/11	07/13/11
		Ethylbenzene	ND		0.50 µg/L	07/13/11	07/13/11
		m,p-Xylene	ND		0.50 µg/L	07/13/11	07/13/11
		o-Xylene	ND		0.50 µg/L	07/13/11	07/13/11
Client ID :	**EX-1**						
Lab ID :	STR11071261-06A	TPH-P (GRO)	910		200 µg/L	07/15/11	07/15/11
Date Sampled	07/11/11 06:55	Tertiary Butyl Alcohol (TBA)	3,100		20 µg/L	07/15/11	07/15/11
		Methyl tert-butyl ether (MTBE)	130		1.0 µg/L	07/15/11	07/15/11
		Benzene	ND	V	1.0 µg/L	07/15/11	07/15/11
		Toluene	ND	V	1.0 µg/L	07/15/11	07/15/11
		Ethylbenzene	ND	V	1.0 µg/L	07/15/11	07/15/11
		m,p-Xylene	ND	V	1.0 µg/L	07/15/11	07/15/11
		o-Xylene	ND	V	1.0 µg/L	07/15/11	07/15/11

Gasoline Range Organics (GRO) C4-C13

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

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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.

7/20/11
Report Date

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VOC Sample Preservation Report

Work Order: STR11071261 **Job:** Foothill Mini Mart

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11071261-01A	MW-2	Aqueous	2
11071261-02A	MW-4	Aqueous	2
11071261-03A	MW-5	Aqueous	2
11071261-04A	MW-6	Aqueous	2
11071261-05A	MW-10	Aqueous	2
11071261-06A	EX-1	Aqueous	2

7/20/11
Report Date

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Date: *20-Jul-11*

QC Summary Report

Work Order: 11071261

Method Blank

Type **MBLK** Test Code: **EPA Method 300.0**

File ID: **20** Batch ID: **26898** Analysis Date: **07/12/2011 13:16**

Sample ID: **MB-26898** Units : **µg/L** Run ID: **IC_1_110712A** Prep Date: **07/12/2011 12:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	ND	250								
Bromide	ND	250								
Nitrate (NO3) - N	ND	250								
Sulfate (SO4)	ND	500								

Laboratory Fortified Blank

Type **LFB** Test Code: **EPA Method 300.0**

File ID: **22** Batch ID: **26898** Analysis Date: **07/12/2011 13:53**

Sample ID: **LFB-26898** Units : **µg/L** Run ID: **IC_1_110712A** Prep Date: **07/12/2011 12:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	5500	250	5000		110	90	110			
Bromide	5420	250	5000		108	90	110			
Nitrate (NO3) - N	5210	250	5000		104	90	110			
Sulfate (SO4)	106000	500	100000		106	90	110			

Sample Matrix Spike

Type **LFM** Test Code: **EPA Method 300.0**

File ID: **35** Batch ID: **26898** Analysis Date: **07/12/2011 18:07**

Sample ID: **11071204-01ALFM** Units : **µg/L** Run ID: **IC_1_110712A** Prep Date: **07/12/2011 12:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	10400	250	10000	0	104	80	120			
Bromide	10100	250	10000	353.8	97	80	120			
Nitrate (NO3) - N	12800	250	10000	2861	99.6	80	120			
Sulfate (SO4)	283000	500	200000	115600	84	80	120			

Sample Matrix Spike Duplicate

Type **LFMD** Test Code: **EPA Method 300.0**

File ID: **36** Batch ID: **26898** Analysis Date: **07/12/2011 18:25**

Sample ID: **11071204-01ALFMD** Units : **µg/L** Run ID: **IC_1_110712A** Prep Date: **07/12/2011 12:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	11000	250	10000	0	110	80	120	10410	5.7(15)	
Bromide	10300	250	10000	353.8	99.8	80	120	10060	2.6(15)	
Nitrate (NO3) - N	13200	250	10000	2861	103	80	120	12820	2.7(15)	
Sulfate (SO4)	291000	500	200000	115600	88	80	120	283500	2.7(15)	

Comments:

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Date: 21-Jul-11

QC Summary Report

Work Order: 11071261

Method Blank

Type: **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **071911.B\052_M.D** Batch ID: **26909** Analysis Date: **07/20/2011 09:06**

Sample ID: **MB-26909** Units : **µg/L** Run ID: **ICP/MS_110719A** Prep Date: **07/15/2011 15:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	ND	500								
Aluminum (Al)	ND	200								
Potassium (K)	ND	500								
Calcium (Ca)	ND	500								
Chromium (Cr)	ND	5								
Manganese (Mn)	ND	5								
Nickel (Ni)	ND	10								
Copper (Cu)	ND	10								
Arsenic (As)	ND	5								
Barium (Ba)	ND	5								

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **071911.B\021_M2.D** Batch ID: **26909** Analysis Date: **07/19/2011 19:31**

Sample ID: **LCS-26909** Units : **µg/L** Run ID: **ICP/MS_110719A** Prep Date: **07/15/2011 15:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	48200	500	50000		96	80	120			
Aluminum (Al)	47600	200	50000		95	80	120			
Potassium (K)	51300	500	50000		103	80	120			
Calcium (Ca)	49700	500	50000		99	80	120			
Chromium (Cr)	232	5	250		93	80	120			
Manganese (Mn)	2380	5	2500		95	80	120			
Nickel (Ni)	247	10	250		99	80	120			
Copper (Cu)	294	10	250		117	80	120			
Arsenic (As)	256	5	250		102	80	120			
Barium (Ba)	2460	5	2500		98	80	120			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **071911.B\025_M.D** Batch ID: **26909** Analysis Date: **07/19/2011 19:59**

Sample ID: **11071261-03AMS** Units : **µg/L** Run ID: **ICP/MS_110719A** Prep Date: **07/15/2011 15:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	76800	500	50000	28760	96	75	125			
Aluminum (Al)	61600	200	50000	17340	89	75	125			
Potassium (K)	52400	500	50000	3430	98	75	125			
Calcium (Ca)	71200	500	50000	25530	91	75	125			
Chromium (Cr)	265	5	250	35.93	92	75	125			
Manganese (Mn)	5140	5	2500	2853	92	75	125			
Nickel (Ni)	303	10	250	63.89	95	75	125			
Copper (Cu)	298	10	250	32.94	106	75	125			
Arsenic (As)	264	5	250	9.593	102	75	125			
Barium (Ba)	2750	5	2500	244.9	100	75	125			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **071911.B\026_M.D** Batch ID: **26909** Analysis Date: **07/19/2011 20:04**

Sample ID: **11071261-03AMSD** Units : **µg/L** Run ID: **ICP/MS_110719A** Prep Date: **07/15/2011 15:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	73100	500	50000	28760	89	75	125	76760	5.0(20)	
Aluminum (Al)	58400	200	50000	17340	82	75	125	61630	5.4(20)	
Potassium (K)	54100	500	50000	3430	101	75	125	52350	3.3(20)	
Calcium (Ca)	72300	500	50000	25530	94	75	125	71150	1.7(20)	
Chromium (Cr)	260	5	250	35.93	90	75	125	264.9	1.9(20)	
Manganese (Mn)	5080	5	2500	2853	89	75	125	5143	1.3(20)	
Nickel (Ni)	305	10	250	63.89	96	75	125	302.5	0.7(20)	
Copper (Cu)	308	10	250	32.94	110	75	125	298.3	3.1(20)	
Arsenic (As)	272	5	250	9.593	105	75	125	264.4	2.7(20)	
Barium (Ba)	2800	5	2500	244.9	102	75	125	2754	1.5(20)	

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Date: *21-Jul-11*

QC Summary Report

Work Order: 11071261

Comments:

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Date: *20-Jul-11*

QC Summary Report

Work Order: 11071261

Method Blank

Type: **MBLK** Test Code: **SM4500-S D**

File ID: Batch ID: **W0715SU** Analysis Date: **07/15/2011 00:00**

Sample ID: **MBLK-W0715SU** Units : **µg/L** Run ID: **WETLAB_110715B** Prep Date: **07/15/2011 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	ND	100								

Laboratory Control Spike

Type: **LCS** Test Code: **SM4500-S D**

File ID: Batch ID: **W0715SU** Analysis Date: **07/15/2011 00:00**

Sample ID: **LCS-W0715SU** Units : **µg/L** Run ID: **WETLAB_110715B** Prep Date: **07/15/2011 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	903	100	1000		90	62	142			

Sample Matrix Spike

Type: **MS** Test Code: **SM4500-S D**

File ID: Batch ID: **W0715SU** Analysis Date: **07/15/2011 00:00**

Sample ID: **11071261-05AMS** Units : **µg/L** Run ID: **WETLAB_110715B** Prep Date: **07/15/2011 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	342	100	1000	0	34	42	145			M2

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **SM4500-S D**

File ID: Batch ID: **W0715SU** Analysis Date: **07/15/2011 00:00**

Sample ID: **11071261-05AMSD** Units : **µg/L** Run ID: **WETLAB_110715B** Prep Date: **07/15/2011 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	163	100	1000	0	16	42	145	342	70.9(20)	M2 R58

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.

R58 = MS/MSD RPD exceeded the laboratory control limit.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.

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Date: *20-Jul-11*

QC Summary Report

Work Order: 11071261

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **11071308.D** Batch ID: **MS09W0713B** Analysis Date: **07/13/2011 11:02**

Sample ID: **MBLK MS09W0713B** Units : **µg/L** Run ID: **MSD_09_110713A** Prep Date: **07/13/2011 11:02**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	9.47		10		95	70	130			
Surr: Toluene-d8	10.6		10		106	70	130			
Surr: 4-Bromofluorobenzene	10.9		10		109	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **11071307.D** Batch ID: **MS09W0713B** Analysis Date: **07/13/2011 10:38**

Sample ID: **GLCS MS09W0713B** Units : **µg/L** Run ID: **MSD_09_110713A** Prep Date: **07/13/2011 10:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	364	50	400		91	70	130			
Surr: 1,2-Dichloroethane-d4	9.78		10		98	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	11.1		10		111	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C**

File ID: **11071313.D** Batch ID: **MS09W0713B** Analysis Date: **07/13/2011 13:01**

Sample ID: **11071261-01AGS** Units : **µg/L** Run ID: **MSD_09_110713A** Prep Date: **07/13/2011 13:01**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1820	250	2000	139	84	51	144			
Surr: 1,2-Dichloroethane-d4	43.5		50		87	70	130			
Surr: Toluene-d8	53.5		50		107	70	130			
Surr: 4-Bromofluorobenzene	52.6		50		105	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C**

File ID: **11071314.D** Batch ID: **MS09W0713B** Analysis Date: **07/13/2011 13:23**

Sample ID: **11071261-01AGSD** Units : **µg/L** Run ID: **MSD_09_110713A** Prep Date: **07/13/2011 13:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1610	250	2000	139	73	51	144	1820	12.5(29)	
Surr: 1,2-Dichloroethane-d4	42.9		50		86	70	130			
Surr: Toluene-d8	53.9		50		108	70	130			
Surr: 4-Bromofluorobenzene	54		50		108	70	130			

Comments:

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Date: 20-Jul-11

QC Summary Report

Work Order: 11071261

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **11071308.D** Batch ID: **MS09W0713A** Analysis Date: **07/13/2011 11:02**

Sample ID: **MBLK MS09W0713A** Units : **µg/L** Run ID: **MSD_09_110713A** Prep Date: **07/13/2011 11:02**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	10								
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	9.47		10		95	70	130			
Surr: Toluene-d8	10.6		10		106	70	130			
Surr: 4-Bromofluorobenzene	10.9		10		109	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **11071304.D** Batch ID: **MS09W0713A** Analysis Date: **07/13/2011 09:28**

Sample ID: **LCS MS09W0713A** Units : **µg/L** Run ID: **MSD_09_110713A** Prep Date: **07/13/2011 09:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	8.54	0.5	10		85	65	140			
Benzene	9.32	0.5	10		93	70	130			
Toluene	9.47	0.5	10		95	80	120			
Ethylbenzene	9.61	0.5	10		96	80	120			
m,p-Xylene	9.27	0.5	10		93	70	130			
o-Xylene	9.16	0.5	10		92	70	130			
Surr: 1,2-Dichloroethane-d4	9.52		10		95	70	130			
Surr: Toluene-d8	10.4		10		104	70	130			
Surr: 4-Bromofluorobenzene	10.5		10		105	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B**

File ID: **11071311.D** Batch ID: **MS09W0713A** Analysis Date: **07/13/2011 12:15**

Sample ID: **11071261-01AMS** Units : **µg/L** Run ID: **MSD_09_110713A** Prep Date: **07/13/2011 12:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	84.7	1.3	50	39.44	90	47	150			
Benzene	43.8	1.3	50	0	88	59	138			
Toluene	44.9	1.3	50	0	90	68	130			
Ethylbenzene	44.6	1.3	50	0	89	68	130			
m,p-Xylene	43.3	1.3	50	0	87	68	131			
o-Xylene	42.9	1.3	50	0	86	70	130			
Surr: 1,2-Dichloroethane-d4	45.4		50		91	70	130			
Surr: Toluene-d8	53.2		50		106	70	130			
Surr: 4-Bromofluorobenzene	51.7		50		103	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **11071312.D** Batch ID: **MS09W0713A** Analysis Date: **07/13/2011 12:38**

Sample ID: **11071261-01AMSD** Units : **µg/L** Run ID: **MSD_09_110713A** Prep Date: **07/13/2011 12:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	83.8	1.3	50	39.44	89	47	150	84.66	1.0(40)	
Benzene	41.7	1.3	50	0	83	59	138	43.78	4.9(21)	
Toluene	42.9	1.3	50	0	86	68	130	44.92	4.5(20)	
Ethylbenzene	42	1.3	50	0	84	68	130	44.62	6.0(20)	
m,p-Xylene	41.1	1.3	50	0	82	68	131	43.29	5.3(20)	
o-Xylene	41	1.3	50	0	82	70	130	42.89	4.6(20)	
Surr: 1,2-Dichloroethane-d4	44.5		50		89	70	130			
Surr: Toluene-d8	53.1		50		106	70	130			
Surr: 4-Bromofluorobenzene	52.5		50		105	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: *20-Jul-11*

QC Summary Report

Work Order: 11071261

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.

MWH
LABORATORIES
A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, NV 89431
Attention: Reyna Vallejo
Fax: 775-355-0406

Date of Issue
07/19/2011
MWH LABORATORIES

ACCREDITED IN ACCORDANCE WITH nelac 01114CA

Report#: 370328
Project: SUBCONTRACT
Group: Bromate

DST: David S Tripp
Project Manager

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

MWH LABORATORIES

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0455	**Nevada**	CA00006-2010-1
Arkansas	Certified	**New Hampshire**	2959-11
California – NELAP	01114CA	**New Jersey**	CA 008
California – ELAP	1422	**New Mexico**	Certified
Colorado	Certified	**New York**	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida	E871024	**Oregon**	CA 200003-009
Georgia	947	**Pennsylvania**	68-565
Guam	11-004r	**Rhode Island**	01114CA
Hawaii	Certified	**South Carolina**	87016001
Idaho	Certified	**South Dakota**	Certified
Illinois	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas**	T104704230-11-2
Kansas	E-10268	**Utah**	Mont-1
Kentucky	90107	**Vermont**	VT0114
Louisiana	LA110022	**Virginia**	00210
Maine	CA0006	**Washington**	C383
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://MWHLabs.com

MWH LABORATORIES

Acknowledgement of Samples Received

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, NV 89431
Attn: Reyna Vallejo
Phone: 775-355-1044

Customer Code: ALPHA-NV
Folder #: 370328
Project: SUBCONTRACT
Sample Group: Bromate
Project Manager: David S Tripp
Phone: (626) 386-1158

The following samples were received from you on **July 13, 2011**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample ID	Sample Date
201107140190	MW-2 Variable ID: STR11071261-01A Bromate by UV/VIS	Jul 11, 2011 06:50
201107140191	MW-4 Variable ID: STR11071261-02A Bromate by UV/VIS	Jul 11, 2011 05:00
201107140192	MW-5 Variable ID: STR11071261-03A Bromate by UV/VIS	Jul 11, 2011 05:11
201107140193	MW-6 Variable ID: STR11071261-04A Bromate by UV/VIS	Jul 11, 2011 05:35
201107140194	MW-10 Variable ID: STR11071261-05A Bromate by UV/VIS	Jul 11, 2011 06:21
201107140195	EX-1 Variable ID: STR11071261-06A Bromate by UV/VIS	Jul 11, 2011 06:55

Test Description

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://MWHLabs.com

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750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory
Hits Report: 370328

Alpha Analytical, Inc.
Reyna Vallejo
255 Glendale Avenue, Suite 21
Sparks, NV 89431

Samples Received on:
07/13/2011

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL

SUMMARY OF POSITIVE DATA ONLY

MWH
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750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 370328

Alpha Analytical, Inc.
Reyna Vallejo
255 Glendale Avenue, Suite 21
Sparks, NV 89431

Samples Received on:
07/13/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
MW-2 (201107140190)						**Sampled on 07/11/2011 0650**		
Variable ID: STR11071261-01A								
EPA 317 - Bromate by UV/VIS 317								
07/14/2011	23:25	609758	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-4 (201107140191)						**Sampled on 07/11/2011 0500**		
Variable ID: STR11071261-02A								
EPA 317 - Bromate by UV/VIS 317								
07/14/2011	23:48	609758	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-5 (201107140192)						**Sampled on 07/11/2011 0511**		
Variable ID: STR11071261-03A								
EPA 317 - Bromate by UV/VIS 317								
07/15/2011	00:12	609758	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-6 (201107140193)						**Sampled on 07/11/2011 0535**		
Variable ID: STR11071261-04A								
EPA 317 - Bromate by UV/VIS 317								
07/15/2011	02:32	609758	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-10 (201107140194)						**Sampled on 07/11/2011 0621**		
Variable ID: STR11071261-05A								
EPA 317 - Bromate by UV/VIS 317								
07/15/2011	02:56	609758	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
EX-1 (201107140195)						**Sampled on 07/11/2011 0655**		
Variable ID: STR11071261-06A								
EPA 317 - Bromate by UV/VIS 317								
07/15/2011	03:19	609758	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1

Rounding on totals after summation.
(c) - indicates calculated results

MWH
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750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Comments
Report: #370328

Alpha Analytical, Inc.
Reyna Vallejo
255 Glendale Avenue, Suite 21
Sparks, NV 89431

The Comments Report may be blank if there are no comments for this report.

MWH
LABORATORIES
A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Summary: 370328

Alpha Analytical, Inc.

QC Ref # 609758 - Bromate by UV/VIS 317

Analysis Date: 07/14/2011

201107140190	MW-2	Analyzed by: TLH
201107140191	MW-4	Analyzed by: TLH
201107140192	MW-5	Analyzed by: TLH
201107140193	MW-6	Analyzed by: TLH
201107140194	MW-10	Analyzed by: TLH
201107140195	EX-1	Analyzed by: TLH

MWH
LABORATORIES
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750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report: 370328

Alpha Analytical, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 609758 - Bromate by UV/VIS 317 by EPA 317						**Analysis Date: 07/14/2011**			
LCS1	Bromate by UV/VIS		10	10.1	ug/L	101	(90-110)		
LCS2	Bromate by UV/VIS		10	9.79	ug/L	98	(90-110)	20	3.1
MBLK	Bromate by UV/VIS			<1	ug/L				
MRL_CHK	Bromate by UV/VIS		1.0	0.819	ug/L	82	(75-125)		
MS_201107130086	Bromate by UV/VIS	ND	5.0	5.25	ug/L	95	(75-125)		
MS_201107130348	Bromate by UV/VIS	ND	5.0	5.07	ug/L	94	(75-125)		
MSD_201107130086	Bromate by UV/VIS	ND	5.0	5.38	ug/L	98	(75-125)	15	2.7
MSD_201107130348	Bromate by UV/VIS	ND	5.0	5.07	ug/L	94	(75-125)	15	0.11

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
(S) Indicates surrogate compound.
(I) Indicates internal standard compound.
RPD not calculated for LCS2 when different a concentration than LCS1 is used
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

July 15, 2011

CLS Work Order #: CUG0433
COC #:

Reyna Vallejo
Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project Name: STR11071261

Enclosed are the results of analyses for samples received by the laboratory on 07/11/11 10:10. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

07/15/11 15:37

Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project: STR11071261
Project Number: [none]
Project Manager: Reyna Vallejo

CLS Work Order #: CUG0433
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STR11071261-01A (MW-2) (CUG0433-01) Aqueous	**Sampled: 07/11/11 06:50**		**Received: 07/11/11 10:10**						
Hexavalent Chromium	ND	1.0	µg/L	1	CU04835	07/11/11	07/11/11	EPA 7199	
STR11071261-02A (MW-4) (CUG0433-02) Aqueous	**Sampled: 07/11/11 05:00**		**Received: 07/11/11 10:10**						
Hexavalent Chromium	ND	1.0	µg/L	1	CU04835	07/11/11	07/11/11	EPA 7199	
STR11071261-03A (MW-5) (CUG0433-03) Aqueous	**Sampled: 07/11/11 05:11**		**Received: 07/11/11 10:10**						
Hexavalent Chromium	ND	1.0	µg/L	1	CU04835	07/11/11	07/11/11	EPA 7199	
STR11071261-04A (MW-6) (CUG0433-04) Aqueous	**Sampled: 07/11/11 05:35**		**Received: 07/11/11 10:10**						
Hexavalent Chromium	ND	1.0	µg/L	1	CU04835	07/11/11	07/11/11	EPA 7199	
STR11071261-05A (MW-10) (CUG0433-05) Aqueous	**Sampled: 07/11/11 06:21**		**Received: 07/11/11 10:10**						
Hexavalent Chromium	ND	1.0	µg/L	1	CU04835	07/11/11	07/11/11	EPA 7199	
STR11071261-06A (EX-1) (CUG0433-06) Aqueous	**Sampled: 07/11/11 06:55**		**Received: 07/11/11 10:10**						
Hexavalent Chromium	ND	1.0	µg/L	1	CU04835	07/11/11	07/11/11	EPA 7199	

Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project: STR11071261
Project Number: [none]
Project Manager: Reyna Vallejo

CLS Work Order #: CUG0433
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CU04835 - General Prep										
Blank (CU04835-BLK1)				Prepared & Analyzed: 07/11/11						
Hexavalent Chromium	ND	1.0	µg/L							
LCS (CU04835-BS1)				Prepared & Analyzed: 07/11/11						
Hexavalent Chromium	4.80	1.0	µg/L	5.00		96	80-120			
LCS Dup (CU04835-BSD1)				Prepared & Analyzed: 07/11/11						
Hexavalent Chromium	4.93	1.0	µg/L	5.00		99	80-120	3	20	
Matrix Spike (CU04835-MS1)		Source: CUG0433-05		Prepared & Analyzed: 07/11/11						
Hexavalent Chromium	5.01	1.0	µg/L	5.00	ND	100	75-125			
Matrix Spike Dup (CU04835-MSD1)		Source: CUG0433-05		Prepared & Analyzed: 07/11/11						
Hexavalent Chromium	5.75	1.0	µg/L	5.00	ND	115	75-125	14	25	

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: STR11071261 Project Number: [none] Project Manager: Reyna Vallejo	**CLS Work Order #: CUG0433** COC #:

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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

CA

WorkOrder : STR11071261

Report Due By : 5:00 PM On : 20-Jul-11

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Report Attention	Phone Number	EMail Address
Scott Bittinger	(530) 676-2062 x	sbittinger@stratusinc.net

EDD Required : **Yes**

Sampled by : C. Hill

PO :

Client's COC # : 33113 Job : Foothill Mini Mart

Cooler Temp	Samples Received	Date Printed
0 °C	12-Jul-11	12-Jul-11

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests 300_0_W	317_W	METALS_AQ	METALS_CR6_SUB_W	SULFIDE_W	TPH/P_W	VOC_W	Sample Remarks
STR11071261-01A	MW-2	AQ	07/11/11 06:50	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTXE/MTBE /TBA_C	
STR11071261-02A	MW-4	AQ	07/11/11 05:00	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTXE/MTBE /TBA_C	
STR11071261-03A	MW-5	AQ	07/11/11 05:11	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTXE/MTBE /TBA_C	
STR11071261-04A	MW-6	AQ	07/11/11 05:35	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTXE/MTBE /TBA_C	
STR11071261-05A	MW-10	AQ	07/11/11 06:21	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTXE/MTBE /TBA_C	
STR11071261-06A	EX-1	AQ	07/11/11 06:55	8	2	5	NO2, NO3, SO4, Br	Bromate (Sub to MWH)	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTXE/MTBE /TBA_C	

Comments: No security seals. Frozen Ice. Cr6+ by 7199 sent directly to CLS by Stratus. Low Level Bromate subbed to MWH. :

	Signature	Print Name	Company	Date/Time
Logged in by:		Cheryl Gamble	Alpha Analytical, Inc.	7/12/11 10:47

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

35117

Billing Information
Company Name: Stratus
Attn: Scott
Address: 3330 Cameron Park Dr
City, State, Zip: Cameron Pk
Phone Number: 5302766004 Fax: 5306766005

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ___ CA X NV ___ WA ___ DOD Site ___
ID ___ OR ___ OTHER ___ Page # 1 of 1

Consultant / Client Name: Foothill Mini Mart
Address:
City, State, Zip: Oakland
Job #:
Job Name:
Report Attention / Project Manager
Name: Scott
Email:
Phone: Mobile:

Data Validation Level: III or IV
EDD / EDF? YES ___ NO ___
Global ID #:

Analyses Required: GRO, BEX | MTBE, TBA | Nitrates, Nitrites | Sulfides, Sulfates | Metals

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. # / Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	REMARKS
0450	7-11-11	AR	STR1107126l-01A	MW-2	STD		9	Metals
0500	"	"	-02A	MW-4	"		9	Magnesium
0511	"	"	-03A	MW-5	"		9	Manganese
0535	"	"	-04A	MW-6	"		9	Nickel, Copper
0621	"	"	-05A	MW-10	"		9	Potassium
0655	7-11-11	AQ	-06A	EX-1	STD		9	Calcium
								Arsenic
								Total Chrome
								Hex Chrome
								aluminum
								Barium
								bromide
								Bromate

FOR LAB USE ONLY

ADDITIONAL INSTRUCTIONS: Ship, Fed EX

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445A.0636 (c) (2)). Sampled By: CHLC

Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:
[signature] Stratus	[signature] / Alpha	7/12/11	09:55
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

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

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.

Air Toxics LTD.
Laboratory Services Since 1989

7/26/2011
Mr. Scott Bittinger
Stratus Environmental, Inc.
3330 Cameron Park Drive
Suite 550
Cameron Park CA 95682-8861

Project Name: Foothill Mini Mart
Project #: 20876600-1
Workorder #: 1107162

Dear Mr. Scott Bittinger

The following report includes the data for the above referenced project for sample(s) received on 7/11/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1107162

Work Order Summary

CLIENT:	Mr. Scott Bittinger Stratus Environmental, Inc. 3330 Cameron Park Drive Suite 550 Cameron Park, CA 95682-8861	**BILL TO:**	Mr. Scott Bittinger Stratus Environmental, Inc. 3330 Cameron Park Drive Suite 550 Cameron Park, CA 95682-8861
PHONE:	530-676-2062	**P.O. #**	2087-072611-1
FAX:	530-676-6005	**PROJECT #**	20876600-1 Foothill Mini Mart
DATE RECEIVED:	07/11/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	07/23/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SGW-1	Modified TO-15	10.5 "Hg	5 psi
02A	SGW-2	Modified TO-15	10.5 "Hg	5 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA
05AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 07/23/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
Stratus Environmental, Inc.
Workorder# 1107162

Two 6 Liter Summa Canister samples were received on July 11, 2011. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

The recovery of surrogate 1,2-Dichloroethane-d4 in sample SGW-1 was outside control limits due to matrix interference. Data is reported as qualified.

All Quality Control Limit exceedences and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates

as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGW-1

Lab ID#: 1107162-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	1.0	1.7	3.9	6.3
TPH ref. to Gasoline (MW=100)	52	290	210	1200

Client Sample ID: SGW-2

Lab ID#: 1107162-02A

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SGW-1

Lab ID#: 1107162-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p071227	Date of Collection:	7/11/11 8:10:00 AM
Dil. Factor:	2.06	Date of Analysis:	7/13/11 10:07 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.0	Not Detected	3.7	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
Toluene	1.0	1.7	3.9	6.3
Ethyl Benzene	1.0	Not Detected	4.5	Not Detected
m,p-Xylene	1.0	Not Detected	4.5	Not Detected
o-Xylene	1.0	Not Detected	4.5	Not Detected
Naphthalene	4.1	Not Detected	22	Not Detected
1,1-Difluoroethane	4.1	Not Detected	11	Not Detected
tert-Butyl alcohol	4.1	Not Detected	12	Not Detected
TPH ref. to Gasoline (MW=100)	52	290	210	1200

Q = Exceeds Quality Control limits of 70% to 130%, due to matrix effects.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	135 Q	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SGW-2

Lab ID#: 1107162-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p071226	Date of Collection:	7/11/11 7:44:00 AM
Dil. Factor:	2.06	Date of Analysis:	7/13/11 09:34 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.0	Not Detected	3.7	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
Toluene	1.0	Not Detected	3.9	Not Detected
Ethyl Benzene	1.0	Not Detected	4.5	Not Detected
m,p-Xylene	1.0	Not Detected	4.5	Not Detected
o-Xylene	1.0	Not Detected	4.5	Not Detected
Naphthalene	4.1	Not Detected	22	Not Detected
1,1-Difluoroethane	4.1	Not Detected	11	Not Detected
tert-Butyl alcohol	4.1	Not Detected	12	Not Detected
TPH ref. to Gasoline (MW=100)	52	Not Detected	210	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	125	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1107162-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p071212a	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 7/12/11 06:20 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected
1,1-Difluoroethane	2.0	Not Detected	5.4	Not Detected
tert-Butyl alcohol	2.0	Not Detected	6.1	Not Detected
TPH ref. to Gasoline (MW=100)	25	Not Detected	100	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1107162-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p071205	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/12/11 02:55 PM

Compound	%Recovery
Methyl tert-butyl ether	111
Benzene	112
Toluene	110
Ethyl Benzene	117
m,p-Xylene	119
o-Xylene	121
Naphthalene	110
1,1-Difluoroethane	85
tert-Butyl alcohol	110
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1107162-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p071206	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 7/12/11 03:16 PM	

Compound	%Recovery
Methyl tert-butyl ether	96
Benzene	95
Toluene	92
Ethyl Benzene	95
m,p-Xylene	98
o-Xylene	100
Naphthalene	107
1,1-Difluoroethane	Not Spiked
tert-Butyl alcohol	58 Q
TPH ref. to Gasoline (MW=100)	Not Spiked

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1107162-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p071207	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 7/12/11 03:33 PM	

Compound	%Recovery
Methyl tert-butyl ether	92
Benzene	90
Toluene	87
Ethyl Benzene	91
m,p-Xylene	96
o-Xylene	94
Naphthalene	111
1,1-Difluoroethane	Not Spiked
tert-Butyl alcohol	56 Q
TPH ref. to Gasoline (MW=100)	Not Spiked

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Scott

Collected by: (Print and Sign) CHILL

Company Stantec Email

Address 3330 Cameron Pk Dr City Cameron Pk State CA Zip 95682

Phone 530 676 6004 Fax 530 676 6005

Project Info:
P.O. #
Project #
Project Name Foothill Mini Mart

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	SGW-1	34192	7-11-11	0810	GRO-BTEX	25	12		
02A	SGW-2	13659	7-11-11	0744	MTBE-TBA	30	10		
					1,1 DFA				
					Naphthalene				
					Method TO-15				

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	7/11 1035	[signature] ATL	7.11.11 1035
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Hand Del.		NA	Good	Yes No (None)	1107162

Form 1293 rev.11

APPENDIX C

GEOTRACKER DATA UPLOAD CONFIRMATION SHEETS

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 - Monitoring Report - Quarterly
Submittal Title:	Analytical 5-26-11
Facility Global ID:	T0600102286
Facility Name:	FOOTHILL MINI MART
File Name:	11052641_EDF.zip
Organization Name:	Stratus Environmental, Inc.
Username:	STRATUS NOCAL
IP Address:	12.186.106.98
Submittal Date/Time:	6/10/2011 11:33:43 AM
Confirmation Number:	2089167296

VIEW QC REPORT

VIEW DETECTIONS REPORT

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 - Pilot Study/ Treatability Report**
Submittal Title:	**groundwater analytical results, June 8, 2011**
Facility Global ID:	**T0600102286**
Facility Name:	**FOOTHILL MINI MART**
File Name:	**11060848_EDF.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**7/27/2011 7:24:59 AM**
Confirmation Number:	3708561718

VIEW QC REPORT

VIEW DETECTIONS REPORT

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 - Pilot Study/ Treatability Report**
Submittal Title:	**Groundwater analytical results, June 28, 2011**
Facility Global ID:	**T0600102286**
Facility Name:	**FOOTHILL MINI MART**
File Name:	**11062823_EDF.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**7/27/2011 7:20:30 AM**
Confirmation Number:	**8134119689**

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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 - Pilot Study/ Treatability Report**
Submittal Title:	**Groundwater Analytical Results, July 11, 2011**
Facility Global ID:	**T0600102286**
Facility Name:	**FOOTHILL MINI MART**
File Name:	**11071261_EDF.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**7/27/2011 7:15:47 AM**
Confirmation Number:	**6240876555**

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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 - Pilot Study/ Treatability Report**
Submittal Title:	**soil gas sample results, July 11, 2011**
Facility Global ID:	**T0600102286**
Facility Name:	**FOOTHILL MINI MART**
File Name:	**1107162.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**7/27/2011 2:56:32 PM**
Confirmation Number:	**6018815398**

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