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 a document titled *Dual Phase Extraction 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

July 14, 2011
Project No. 2087-6600-01

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

Re: Dual Phase Extraction
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 a letter dated October 14, 2010, Alameda County Environmental Health Department (ACEHD) requested that a work plan to conduct remediation pilot testing at the subject site be prepared and submitted for agency review. On December 13, 2010, Stratus prepared and submitted a report titled *Feasibility Study Work Plan (Work Plan)* on behalf of Mr. Sekhon; this document proposed to assess the viability of using dual phase extraction (DPE) and/or in-situ chemical oxidation (ISCO) by ozone and hydrogen peroxide injection to remediate petroleum hydrocarbon contaminant impact to the subsurface. After reviewing the *Work Plan*, ACEHD prepared a letter, dated February 10, 2011, which approved the pilot testing scope of work proposed by Stratus. However, in this letter, agency personnel requested that an additional work task not included in the *Work Plan*, pertaining to the monitoring of petroleum hydrocarbon concentrations in soil vapor within onsite underground utility corridors, be included as part of the pilot testing work. Stratus subsequently prepared an *Addendum to Feasibility Study Work Plan*, dated February 25, 2011, which proposed to install two onsite soil vapor monitoring wells and a protocol to conduct soil vapor sampling before, during, and after the DPE and ISCO pilot tests. The addendum scope of work was subsequently approved by ACEHD via electronic mail correspondence, dated March 23, 2011.

Stratus recently completed a DPE remediation pilot test at the site; information and findings associated with this work are provided in this report. The ISCO (ozone/hydrogen peroxide injection) pilot test is tentatively scheduled to begin during the late second or early third quarter 2011. Results of the ISCO pilot testing will be reported to ACEHD in a separate report.

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 that 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.
- 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 about 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. 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; however, we interpret that south-southeast groundwater flow is predominant beneath the site. A groundwater elevation contour map that was prepared using groundwater elevations measured during the fourth quarter 2010 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 in soil appear to be situated immediately south and southeast of the former UST complex. GRO was recently 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, at approximately 7.5 feet bgs. 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, at depths of approximately 7.5 to 8 feet bgs). 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 fourth quarter 2010. Figure 8 summarizes groundwater contaminant concentrations in 3 monitoring wells screened below the uppermost water bearing interval from the fourth quarter 2010 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 fourth quarter 2010 well sampling event, GRO, benzene, MTBE, and TBA were detected at maximum concentrations of 6,200 micrograms per liter (µg/L), 90 µg/L, 420 µg/L, and 9,900 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 (see Figure 2 for location). Each boring was located near an underground utility corridor containing a water main; the approximate locations of each of these borings are included on Figure 2 and Figures 4 through 7. 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 fourth quarter 2010 sample result summary). Given the available data set, the vertical extent of contaminant distribution in groundwater appears adequately characterized.

DUAL PHASE EXTRACTION EVENT

The purpose of the pilot testing was to assess the feasibility of using DPE to mitigate petroleum hydrocarbon impact to soil and groundwater. Given the soil types historically observed beneath the site and shallow groundwater, DPE appeared to be a viable remedial alternative to mitigate contamination in soil and groundwater, and was thus selected for pilot testing. The remediation event was conducted between April 26 and 28, 2011, using a CBA Equipment, LLC (CBA) owned trailer mounted high vacuum dual phase extraction (HV-DPE) system with a Bay Area Air Quality Management District (BAAQMD) various locations permit (Plant Number 17101). Before initiating pilot testing, the BAAQMD and the property owners at 6600 and 6620 Foothill Boulevard were notified of the work schedule. A site-specific health and safety plan was also developed and discussed prior to conducting field activities.

Dual Phase Extraction Equipment

The HV-DPE system, manufactured by Mako Industries, Inc. (Mako), consisted of a 20-horsepower (hp) liquid ring pump and a 250 cubic feet per minute (cfm) rated thermal oxidizer. The system also included a knockout tank and a 2-hp centrifugal pump used to transfer water to a water storage tank. A 49-hp propane generator rated at 68 KVA was

used to power the DPE system. Liquid propane was used as supplemental fuel to maintain combustion temperatures in the thermal oxidizer. The DPE system, generator, and water storage tank were situated within a fenced enclosure at 6620 Foothill Boulevard, with pre-arranged consent from the property owner.

Dual Phase Extraction Procedure

Initially, Stratus intended to conduct a 72-hour DPE test using only well EX-1 for extraction, consistent with the December 2010 *Work Plan*. Instead, DPE was conducted using well EX-1 for extraction for a period of approximately 34 hours. During this period (Test 1), negligible vacuum influence was observed in the nearby observation/monitoring wells. In order to evaluate potential changes in DPE performance by using more than one well for extraction, Stratus began simultaneously extracting soil vapors and groundwater from wells EX-1 and MW-4 (Test 2). However, after completing multi-well extraction for only about 2.0 hours, the generator powering the DPE system suffered a mechanical malfunction requiring termination of DPE.

The liquid ring pump of the DPE system was used to extract groundwater and soil vapors from the subsurface. Soil vapors were separated from groundwater in the knockout tank and then directed to the thermal oxidizer for abatement before discharging to the atmosphere. Groundwater in the knockout tank of the DPE system was routed through aboveground hoses to a water storage tank provided by Integrated Wastestream Management (IWM) of San Jose, California. IWM subsequently removed the extracted groundwater and the storage tank from the site; the groundwater was transported to a licensed facility for proper disposal.

During the DPE test, the EX-1 wellhead was temporarily modified to provide a seal for vacuum conditions and to facilitate insertion of a drop-tube (1.5-inch diameter) to extract soil vapors and groundwater. After 34 hours of test time, the MW-4 wellhead was also temporarily modified to allow for extraction of soil vapors and groundwater through a drop tube. Wells MW-1, MW-2, MW-5, MW-5B, MW-6, MW-6B, and MW-4 (through Test 1) were used as observation wells during the DPE test. The depth and screening interval for each well are provided in Table 1.

Magnahelic gauges were used to measure induced vacuum at the observation wells, and hand-operated electric water-level sounders were used to measure depth-to-groundwater in the observation wells. The DPE system was equipped to measure the groundwater extraction rate (discharge from the centrifugal pump after the knockout tank) and the soil vapor flow rate. A flow totalizer was installed to record the volume of groundwater that was transferred to the water storage trailer. Influent soil vapor concentrations were also monitored periodically using a photo-ionization detector (PID).

On April 26, 27, and 28, 2011, one sample of the influent air and groundwater samples extracted from well EX-1, were collected for chemical analyses. An additional influent air and groundwater sample were collected following initiation of extraction from both EX-1 and MW-4. One sample of the effluent air stream was also collected on the initial day of the test. The air samples were retained in laboratory supplied tedlar bags, identified on a chain-of-custody form, and stored in a protective container at ambient air temperature. Groundwater samples were collected in laboratory supplied, properly preserved containers, identified on a chain-of-custody form, and placed in an ice-chilled cooler for temporary storage. Proper chain-of-custody procedures were followed until these samples were delivered to a representative of Alpha Analytical, Inc., who was retained to perform the chemical analyses on the samples.

All observations were recorded on field data sheets during the DPE tests; copies of these forms are provided in Appendix A.

Soil Gas Sampling

Soil gas samples were collected on April 26, 27, and 28, 2011; the samples collected on April 26 and April 28 were collected before, and after, DPE. 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 milliliters per minute (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

All groundwater and air samples collected during the DPE event 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. Air and groundwater samples were analyzed for GRO using USEPA Method SW8015B, and for BTEX compounds, MTBE, and TBA using USEPA Method SW8260B. Groundwater samples were additionally analyzed for di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), and tertiary amyl methyl ether (TAME) using USEPA Method SW8260B 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 samples were forwarded to Air Toxics, Ltd., a California state-certified laboratory (ELAP # 2110) located in Folsom, California, for chemical analysis. Soil gas samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), 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.

DPE Event Results

Data pertaining to the DPE pilot test work are presented in Tables 2 through 8. The following subsections of this report summarize the findings of the DPE pilot test.

- During the EX-1 DPE Test (Test 1), an average applied vacuum of 10.2 inches of mercury ("Hg) resulted in an average influent soil vapor flow rate of 58.68 cfm.
- During the EX-1 and MW-4 DPE Test (Test 2), an average applied vacuum of 9.5 "Hg resulted in an average influent soil vapor flow rate of 70.85 cfm.
- Negligible or no induced vacuum was observed in the observation wells during Test 1 and Test 2 because much of the well screen length in the observation wells was submerged at the time of the testing due to relatively high groundwater levels. Given the relatively good air flow rates at low applied vacuum, the vadose zone radius of influence (ROI) for DPE is likely about 25 feet.
- PID measurements of the influent air stream ranged from 1 part per million by volume (ppmv) to 100 ppmv during Test 1, generally declining during the test period. Influent PID measurements of 30 and 55 ppmv were recorded during Test 2.
- Four influent air samples were submitted for chemical analysis; GRO was only detected above reporting limits in one of these samples (the one collected during Test 2), at a concentration of 120 milligrams per cubic meter (mg/m^3). MTBE was detected in the 3 samples collected during Test 1, at low concentrations ranging from 1.3 mg/m^3 and 3.3 mg/m^3. No BTEX or TBA detections were reported in the influent air samples.
- Groundwater level drawdown was observed in each of the shallow observation/monitoring wells, ranging from 0.22 feet (MW-4) to 3.42 feet (MW-2). Approximately 4.26 feet of drawdown was observed in deeply screened well MW-5B. Groundwater levels increased in well MW-6B.

- Approximately 1,170 gallons of groundwater were extracted during Test 1 and about 120 gallons of groundwater were extracted during Test 2, at average extraction rates of approximately 0.6 gallons per minute (gpm) during Test 1 and 1.1 gpm during Test 2.

- GRO, MTBE, and TBA were detected in each of 4 influent water samples submitted for chemical analysis, at concentrations ranging from 220 µg/L to 330 µg/L, 260 µg/L to 840 µg/L, and 730 µg/L to 3,900 µg/L, respectively. Low to non-detectable levels of BTEX, TAME, DIPE, and ETBE were extracted in the dissolved phase.

DISCUSSION AND RECOMMENDATIONS

The objective of the DPE pilot testing was to evaluate the feasibility of using combined soil vapor and groundwater extraction to remove petroleum mass situated near the soil/groundwater interface, in particular between 7 and 11 feet bgs. Given the findings of the test, DPE does not appear to be a viable remedial option for the site, as the extracted soil vapor concentrations were very low and groundwater level drawdown was insufficient to allow for vapor exposure and recovery of residual contaminants near the soil/groundwater interface. Concentrations of GRO, benzene, and MTBE in the extracted groundwater were also very low, resulting in low mass extraction rates. In addition, given the low contaminant mass extraction rates and the costs associated with constructing and operating a DPE system, it is apparent that DPE is not a cost effective remedial alternative for the subject site.

Concentrations of petroleum hydrocarbons and fuel oxygenates were very low in each of the soil gas samples and are far below current Environmental Screening Levels (ESLs) established by the San Francisco Bay office of the Regional Water Quality Control Board (SF-RWQCB). Given this observation, our understanding of the extent of subsurface impact onsite, and the close location of wells SGW-1 and SGW-2 to onsite utility trenches, it is our opinion that migration of soil vapor contaminants within onsite utility trenches is not likely a significant migration pathway.

Ozone and hydrogen peroxide injection was performed at the site between late May and late June 2011. Once all of the data associated with test work has been obtained, the report documenting this work will be prepared. This report will include a recommendation as to whether or not an ISCO system should be installed at the site, or another remedial approach should be pilot tested/utilized to remediate 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	Soil Vapor Analytical Results
Table 3	Groundwater Analytical Results
Table 4	Soil Gas Analytical Results
Table 5	Test 1: DPE Test Summary (Well EX-1)
Table 6	Test 2: DPE Test Summary (Wells EX-1 and MW-4)
Table 7	Petroleum Hydrocarbon Mass Extraction Rates Summary – Soil Vapor
Table 8	Petroleum Hydrocarbon Mass Extraction Rates Summary - Groundwater
Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Groundwater Elevation Contour Map, Shallow Screened Wells, Fourth Quarter 2010
Figure 4	GRO Iso-Concentration Contour Map, Shallow Screened Wells, Fourth Quarter 2010
Figure 5	Benzene Iso-Concentration Contour Map, Shallow Screened Wells, Fourth Quarter 2010
Figure 6	MTBE Iso-Concentration Contour Map, Shallow Screened Wells, Fourth Quarter 2010
Figure 7	TBA Iso-Concentration Contour Map, Shallow Screened Wells, Fourth Quarter 2010
Figure 8	Groundwater Analytical Summary Map, Deep Screened Wells, Fourth Quarter 2010
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
Soil Vapor Analytical Results
Foothill Mini Mart
6600 Foothill Boulevard, Oakland, California

Sample Date	Sample ID	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA
INFLUENT AIR SAMPLES								
Extraction from Well EX-1								
04/26/11	Foothill A SYS INF	<15	<0.15	<0.15	<0.15	<0.15	**3.3**	<7.5
04/27/11	Foothill A SYS INF	<15	<0.15	<0.15	<0.15	<0.15	**1.6**	<7.5
04/28/11	Foothill A SYS INF	<15	<0.15	<0.15	<0.15	<0.15	**1.3**	<7.5
Extraction from Well EX-1 and MW-4								
04/28/11	Foothill A SYS INF	**120**	<0.15	<0.15	<0.15	<0.15	<0.15	<7.5
EFFLUENT AIR SAMPLES								
04/26/11	Foothill A EFF	<15	<0.15	<0.15	<0.15	<0.15	<0.15	<7.5

Notes:
All air sample values reported in milligrams per cubic meter (mg/m^3)
GRO = Gasoline range organics
BTEX = Benzene, toluene, ethyl benzene, and total xylenes
MTBE = Methyl tertiary butyl ether
TBA = Tertiary butyl alcohol

Analytical Methods
GRO analyzed by EPA Method SW8015B
BTEX, MTBE, and TBA analyzed by EPA Method SW8260B

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

Table 3
Groundwater Analytical Results
Foothill Mini Mart
6600 Foothill Boulevard, Oakland, California

Sample Date	Sample ID	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA	TAME	DIPE	ETBE
Extraction from Well EX-1											
04/26/11	Foothill W INF	**310**	<1.0*	<1.0*	<1.0*	**2.2**	**460**	**3,900**	<2.0*	<2.0*	<2.0*
04/27/11	Foothill W INF	**220**	<0.50	**7.0**	<0.50	**0.52**	**530**	**880**	<1.0	<1.0	<1.0
04/28/11	Foothill W INF	**320**	<1.0*	**2.3**	<1.0*	<1.0*	**840**	**730**	<2.0*	<2.0*	<2.0*
Extraction from Wells EX-1 and MW-4											
04/28/11	Foothill W INF	**330**	<0.50	**7.2**	<0.50	<0.50	**260**	**1,100**	<1.0	<1.0	<1.0

Notes:
All groundwater sample values reported in micrograms per liter (µg/L)
GRO = Gasoline range organics
BTEX = Benzene, toluene, ethyl benzene, and total xylenes
MTBE = Methyl tertiary butyl ether
TBA = Tertiary butyl alcohol
TAME = Tertiary amyl methyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
* = Reporting limits increased due to high concentrations of target analytes

Analytical Methods
GRO analyzed by EPA Method SW8015B
BTEX and fuel oxygenates analyzed by EPA Method SW8260B

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

TABLE 4
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

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)

BOLD font indicates analyte exceeds corresponding ESL

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

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

Table 5
Test 1: DPE Test Summary (Well EX-1)
Foothill Mini Mart
6600 Foothill Boulevard
Oakland, California

Date & Time	Hour Meter Reading	Time Elapsed	Applied Vac	Sys Inf Air Flow	Dilution Air Flow	Inf Air Flow	Totalizer Reading	GW Ext Rate	PID		Stinger Depth and Wellhead Vacuum		Induced Vacuum (Vac, "WC) and Depth to Water (DTW, feet bgs)								
									Sys Inf	Eff	EX-1		MW-1	MW-2		MW-4	MW-5	MW-5B	MW-6	MW-6B	
	hours	hours	"Hg	cfm	cfm	cfm	gallons	gpm	ppmv	ppmv	Stinger Depth (ft bgs)	Vac ("WC)	DTW	Vac	DTW	DTW	DTW	DTW	DTW	Vac	DTW
4/26/11 6:00	--	--	Baseline Measurements								--	--	6.43	0.30	8.93	5.56	7.42	13.42	5.34	0.70	35.85
4/26/11 12:00	7,734.0	--	Start DPE test using well EX-1. Hour meter reading of DPE System = 7,734. Stinger set at approximately 29 feet bgs.																		
4/26/11 12:30	7,734.0	0.0	22	87.27	35.12	52.14	11,180	--	100	1.8	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4/26/11 13:30	NM	--	NM	NM	NM	NM	NM	NM	NM	NM	29	55	7.34	0.00	10.32	5.55	7.75	11.35	5.36	+1.20	35.49
4/26/11 14:00	7,735.0	1.0	17	87.27	23.74	63.53	11,290	1.83	38	1.1	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4/26/11 14:30	7,736.0	2.0	17	87.27	20.38	66.89	11,290	0.00	15	1.0	29	60	7.34	0.00	10.55	5.55	7.74	11.69	5.37	0.00	35.44
4/26/11 15:00	7,736.4	2.4	12	87.27	28.95	58.32	11,340	2.08	17	1.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4/26/11 16:00	7,737.5	3.5	11	87.27	27.51	59.76	11,380	0.61	15	1.0	29	49	7.40	0.00	11.25	5.55	NM	NM	5.37	+0.20	35.41
4/27/11 4:00	7,740.0	6.0	System Down, Restart								NM	NM	NM	NM	NM	5.57	7.77	14.57	5.37	+0.70	35.23
4/27/11 5:00	7,740.5	6.5	11	87.27	31.70	55.57	11,550	0.94	4	1.4	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4/27/11 6:00	7,741.2	7.2	10	87.27	26.20	61.06	11,600	1.19	4	1.0	29	20	7.75	+0.20	10.92	5.56	7.77	14.55	5.39	+0.60	35.20
4/27/11 7:00	7,742.4	8.4	10	87.27	24.74	62.53	11,650	0.69	5	1.0	29	20	7.79	0.00	11.08	5.56	7.77	14.44	5.40	+0.10	35.18
4/27/11 8:00	7,743.4	9.4	10	87.27	21.69	65.58	11,690	0.67	8	1.0	29	22	7.82	0.20	11.47	5.67	7.78	14.95	5.40	0.00	35.19
4/27/11 9:00	7,744.4	10.4	10	87.27	26.90	60.37	11,740	0.83	8	1.0	29	22	7.83	0.10	11.49	5.67	7.78	14.97	5.41	0.00	35.19
4/27/11 10:00	7,745.3	11.3	10	87.27	30.52	56.75	11,740	0.00	4	1.0	29	26	7.88	2.30	11.73	5.61	7.78	15.98	5.41	0.00	35.20
4/27/11 11:00	7,746.1	12.1	10	87.27	30.35	56.92	11,760	0.42	6	1.0	29	26	7.92	0.00	11.95	5.60	NM	NM	5.41	0.00	35.20
4/27/11 12:00	7,747.1	13.1	10	87.27	25.24	62.02	11,820	1.00	4	1.0	29	24	7.96	0.00	12.13	5.62	7.77	15.95	5.40	0.00	35.20
4/27/11 13:00	7,748.1	14.1	10	87.27	30.63	56.64	11,820	0.00	4	1.0	29	26	7.99	0.00	12.25	5.65	7.77	16.17	5.40	0.00	35.19
4/27/11 14:00	7,749.1	15.1	10	87.27	28.82	58.45	11,840	0.33	4	1.0	29	20	8.02	0.00	12.35	5.68	NM	NM	5.40	0.00	35.18
4/27/11 16:00	7,751.1	17.1	8	87.27	30.94	56.33	11,920	0.67	4	1.0	29	6	8.07	0.00	12.35	5.60	7.77	16.71	5.40	0.00	35.18
4/27/11 17:00	7,752.1	18.1	8	87.27	29.45	57.81	11,920	0.00	4	1.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4/28/11 4:00	7,762.0	28.0	7	87.27	30.22	57.05	12,170	0.42	2	0.8	29	5	8.38	0.00	12.29	5.76	7.80	17.48	5.42	+0.30	35.22
4/28/11 5:00	7,763.0	29.0	7	87.27	29.89	57.38	12,190	0.33	2	0.8	NM	NM	NM	NM	NM	5.75	7.79	17.48	5.43	+0.20	35.20

Table 5
Test 1: DPE Test Summary (Well EX-1)
Foothill Mini Mart
6600 Foothill Boulevard
Oakland, California

Date & Time	Hour Meter Reading	Time Elapsed	Applied Vac	Sys Inf Air Flow	Dilution Air Flow	Inf Air Flow	Totalizer Reading	GW Ext Rate	PID		Stinger Depth and Wellhead Vacuum		Induced Vacuum (Vac, "WC) and Depth to Water (DTW, feet bgs)								
									Sys Inf	Eff	EX-1		MW-1	MW-2		MW-4	MW-5	MW-5B	MW-6	MW-6B	
	hours	hours	"Hg	cfm	cfm	cfm	gallons	gpm	ppmv	ppmv	Stinger Depth (ft bgs)	Vac ("WC)	DTW	Vac	DTW	DTW	DTW	DTW	DTW	Vac	DTW
4/28/11 6:00	7,764.0	30.0	7	87.27	30.11	57.16	12,260	1.17	2	0.8	29	6	8.43	0.00	12.29	5.55	7.80	17.60	5.43	+0.20	35.20
4/28/11 7:00	7,765.0	31.0	7	87.27	26.29	60.98	12,260	0.00	1	0.7	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4/28/11 8:00	7,766.0	32.0	7	87.27	31.50	55.76	12,260	0.00	1	0.7	29	6	8.48	0.10	12.31	5.74	NM	NM	5.43	0.00	35.21
4/28/11 9:00	7,767.0	33.0	7	87.27	33.20	54.06	12,320	1.00	1	0.7	29	6	8.50	0.00	12.31	5.78	7.81	17.68	5.45	0.00	35.21
4/28/11 10:00	7,768.0	34.0	7	87.27	31.96	55.31	12,350	0.50	1	0.7	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Average	--		10.2	87.27	28.59	58.68	--	0.64	11	1.0	29	23	7.94	0.17	11.71	5.63	7.78	15.44	5.40	+0.18	35.24
Maximum Induced Vacuum, "WC													0.00	2.30		0.00	0.00	0.00	0.00	+1.20	
Maximum Depth to Water, feet bgs													8.50	12.35		5.78	7.81	17.68	5.45	35.85	
Distance to extraction well (EX-1), feet											--		77	12		41	77	74	76	74	
Screened interval (EX-1 = 10 - 30), feet bgs											10 - 30		10 - 25	10 - 25		7.5 - 20	7.5 - 20	35 - 45	7.5 - 20	35 - 50	

Notes:

Vac = Vacuum

"Hg = Inches Mercury

Sys Inf = System influent

PID = Photo-ionization detector

"WC = Inches water column

GW Ext = Groundwater extraction

gpm = gallons per minute

DTW = Depth to water

feet bgs = feet below ground surface

Eff = Effluent

ppmv = parts per million by volume

NM = Not Measured

Sample Calculations:

Sys Inf Air Flow = ($0.0218\ ft^2$) x (3000 ft/min) = 65.45 cfm

Dilution Air Flow = ($0.0218\ ft^2$) x (2050 ft/min) = 44.72 cfm

Inf Air Flow = (65.45 cfm) - (44.72 cfm) = 20.73 cfm

Groundwater Extraction Rate = (360 - 10 gallons) / [(7686.8 - 7686.1 hours) x 60 min/hr]

= 8.33 gpm

Note: Induced Vacuums of 0 were not shown

Table 6
Test 2: DPE Test Summary (Wells EX-1 and MW-4)
Foothill Mini Mart
6600 Foothill Boulevard
Oakland, California

Date & Time	Hour Meter Reading	Time Elapsed	Applied Vac	Sys Inf Air Flow	Dilution Air Flow	Inf Air Flow	Totalizer Reading	GW Ext Rate	PID		Wellhead Vacuum and Stinger Depth				Depth to Water (feet bgs)					
									Sys Inf	Eff	EX-1		MW-4		MW-1	MW-2	MW-5	MW-5B	MW-6	MW-6B
	hours	hours	"Hg	cfm	cfm	cfm	gallons	gpm	ppmv	ppmv	Vac ("WC)	Depth (ft bgs)	Vac ("WC)	Depth (ft bgs)	DTW	DTW	DTW	DTW	DTW	DTW
4/28/11 10:00	--	--	Baseline Measurements								--	--	NM	NM	NM	12.40	NM	NM	5.45	35.24
4/28/11 11:00	7,768.3	--	10.0	87.27	20.97	66.30	12,350	--	30	1.1	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4/28/11 12:00	7,769.2	0.9	9.0	98.17	22.78	75.40	12,420	1.30	55	1.0	30.00	26.00	101.00	17.00	8.56	12.46	NM	NM	5.45	35.24
4/28/11 13:00	7,770.0	1.7	Generator Stopped, Won't Restart				12,470	1.04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4/28/11 13:30	--		--	--	--	--	--	--	--	--	--	--	NM	NM	8.58	12.55	7.81	17.88	5.44	35.21
Average	--		9.5	92.72	21.87	70.85	--	1.17	43	1.1	30.00	26.00	101.00	17.00	8.57	12.51	7.81	17.88	5.45	35.23
Maximum Induced Vacuum, "WC															0.00	0.00	0.00	0.00	0.00	0.00
Maximum Depth to Water, feet															8.58	12.55	7.81	17.88	5.45	35.24

Notes:
Vac = Vacuum
"Hg = Inches Mercury
Sys Inf = System influent
PID = Photo-ionization detector
"WC = Inches water column
GW Ext = Groundwater extraction
gpm = gallons per minute
DTW = Depth to water
feet bgs = feet below ground surface
Eff = Effluent
ppmv = parts per million by volume
NM = Not Measured

Sample Calculations:

Sys Inf Air Flow = ($0.0218\ ft^2$) x (3000 ft/min) = 65.45 cfm

Dilution Air Flow = ($0.0218\ ft^2$) x (2050 ft/min) = 44.72 cfm

Inf Air Flow = (65.45 cfm) - (44.72 cfm) = 20.73 cfm

Groundwater Extraction Rate = (360 - 10 gallons) / [(7686.8 - 7686.1 hours) x 60 min/hr]
= 8.33 gpm

Note: Induced Vacuums of 0 were not shown

Table 7
Petroleum Hydrcarbon Mass Extraction Rates Summary - Soil Vapor
Foothill Mini Mart
6600 Foothill Boulevard
Oakland, California

Date & Time	Test Well ID	Duration Between Sampling Events (hours)[1]	Uptime Test Duration (hours)	Average Flowrate (cfm)	Influent Concentration (mg/m^3)			Average Extraction Rate from Wells (lbs/day)		Cumulative Mass (GRO) Removed		Cumulative Mass (MTBE) Removed	
										Period[2]	Total	Period[2]	Total
					GRO	Benzene	MTBE	GRO	MTBE	lbs	lbs	lbs	lbs
4/26/11 14:10	EX-1	--	1.00	87.27	<15	<0.15	**3.3**	<0.12	**0.03**	<0.005	<0.005	0.001	0.001
4/27/11 14:10	EX-1	14.1	15.10	87.27	<15	<0.15	**1.6**	<0.12	**0.01**	<0.069	<0.074	0.007	0.008
4/28/11 10:00	EX-1	18.9	34.00	87.27	<15	<0.15	**1.3**	<0.12	**0.01**	<0.093	<0.167	0.008	0.016
4/28/11 13:20	EX-1 and MW-4	--	1.70	92.72	**120**	<0.15	<0.15	**1.00**	<0.001	0.071	<0.238	<0.0001	<0.017

Sample Calculations

[1] Estimated as difference of hour meter readings between the two sampling events

[2] Period Mass Removed = average mass extraction rate * difference between hour meter readings for consecutive sampling events

$$= 1.11 \frac{\text{lbs}}{\text{day}} \times (7687.4 - 7686.1) \text{ hours} \times \frac{\text{day}}{24 \text{ hours}} = 0.06 \text{ lbs}$$

Average Mass Extraction Rate

$$= \frac{72.72 \text{ cu ft}}{\text{min}} \times \frac{170 \text{ mg}}{\text{cu meter}} \times \frac{\text{lb}}{453593 \text{ mg}} \times \frac{1{,}440 \text{ min}}{\text{day}} \times \frac{\text{cu meter}}{35.314 \text{ cu ft}}$$

$$= 1.11 \text{ bs/day}$$

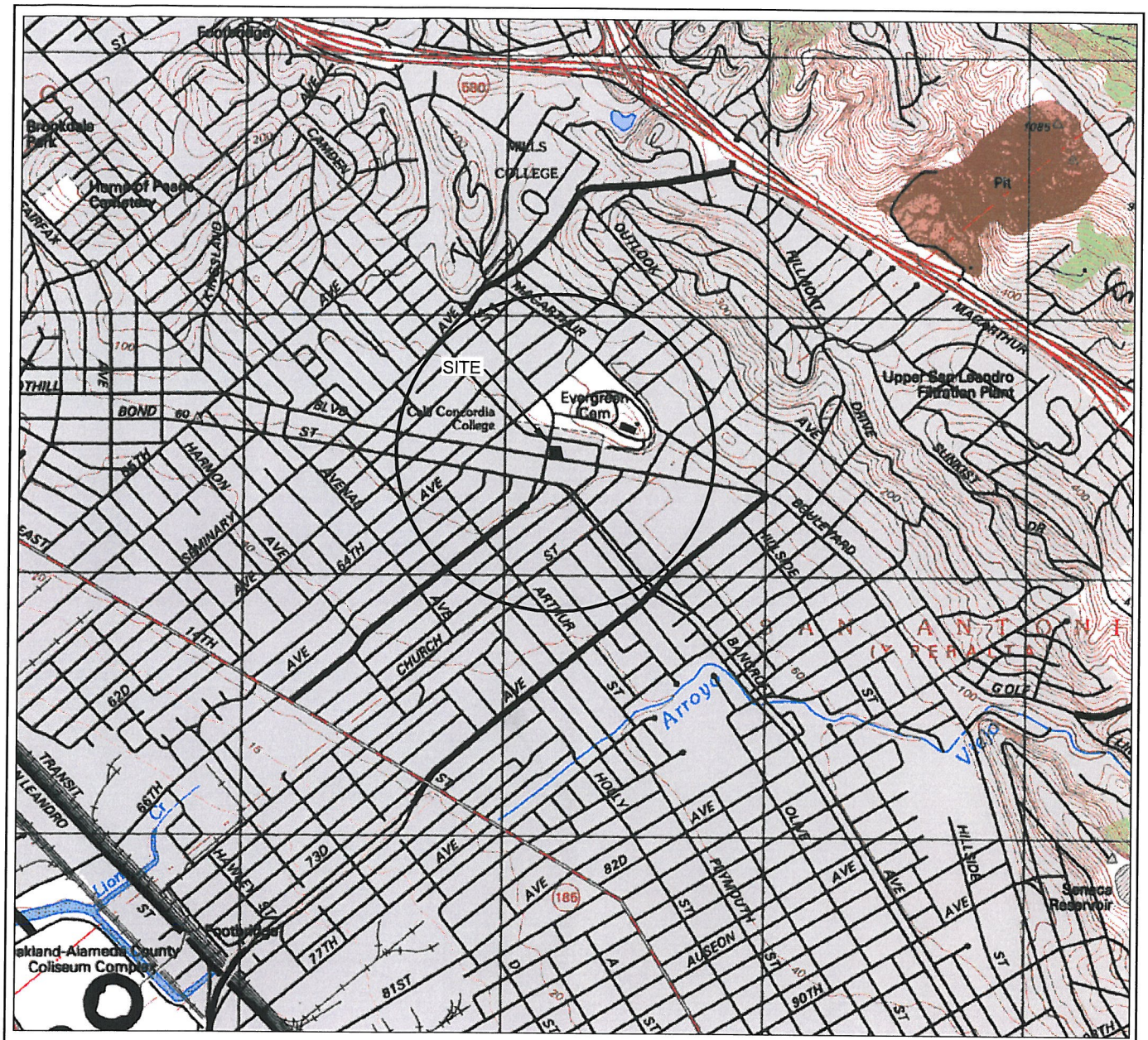
Table 8
Petroleum Hydrocarbon Mass Extraction Rates Summary - Groundwater
Foothill Mini Mart
6600 Foothill Boulevard
Oakland, California

Date & Time	Test Well ID	Uptime Test Duration (hours)	Volume of Groundwater Extracted between Sampling Events, gallons	Time Duration Between Sampling Events, hours	Influent Concentration (µg/L)			Extraction Rate from Wells (lbs/day)[a]		Cumulative Mass (GRO) Removed	
										Period[b]	Total
					GRO	Benzene	MTBE	GRO	MTBE	lbs	lbs
4/26/11 13:00	EX-1	1.00	110	--	**310**	<1.0	**460**	**0.00001**	**0.00002**	0.0003	0.0003
4/27/11 13:30	EX-1	14.10	530	13.10	**220**	<0.50	**530**	**0.00053**	**0.00128**	0.0012	0.0015
4/28/11 9:55	EX-1	34.00	530	19.90	**320**	<1.0	**840**	**0.00117**	**0.00308**	0.0012	0.0027
4/28/11 13:00	EX-1 and MW-4	1.70	120	1.70	**330**	<0.50	**260**	**0.00002**	**0.00002**	0.0003	0.0030

Sample Calculations

[a]Extraction Rate (lbs/day) } = Average concentration (µg/L) x volume extracted (gal) x (2.2046×10^{-9})(lb/µg) / 0.26418 (gal/L) * time duration (hours)*(1 day/24 hours)

[b]Mass removed from groundwater (lbs) } = Average concentration (µg/L) x volume extracted (gal) x (2.2046×10^{-9})(lb/µg) / 0.26418 (gal/L)



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

N

QUADRANGLE LOCATION

0 2000 FT

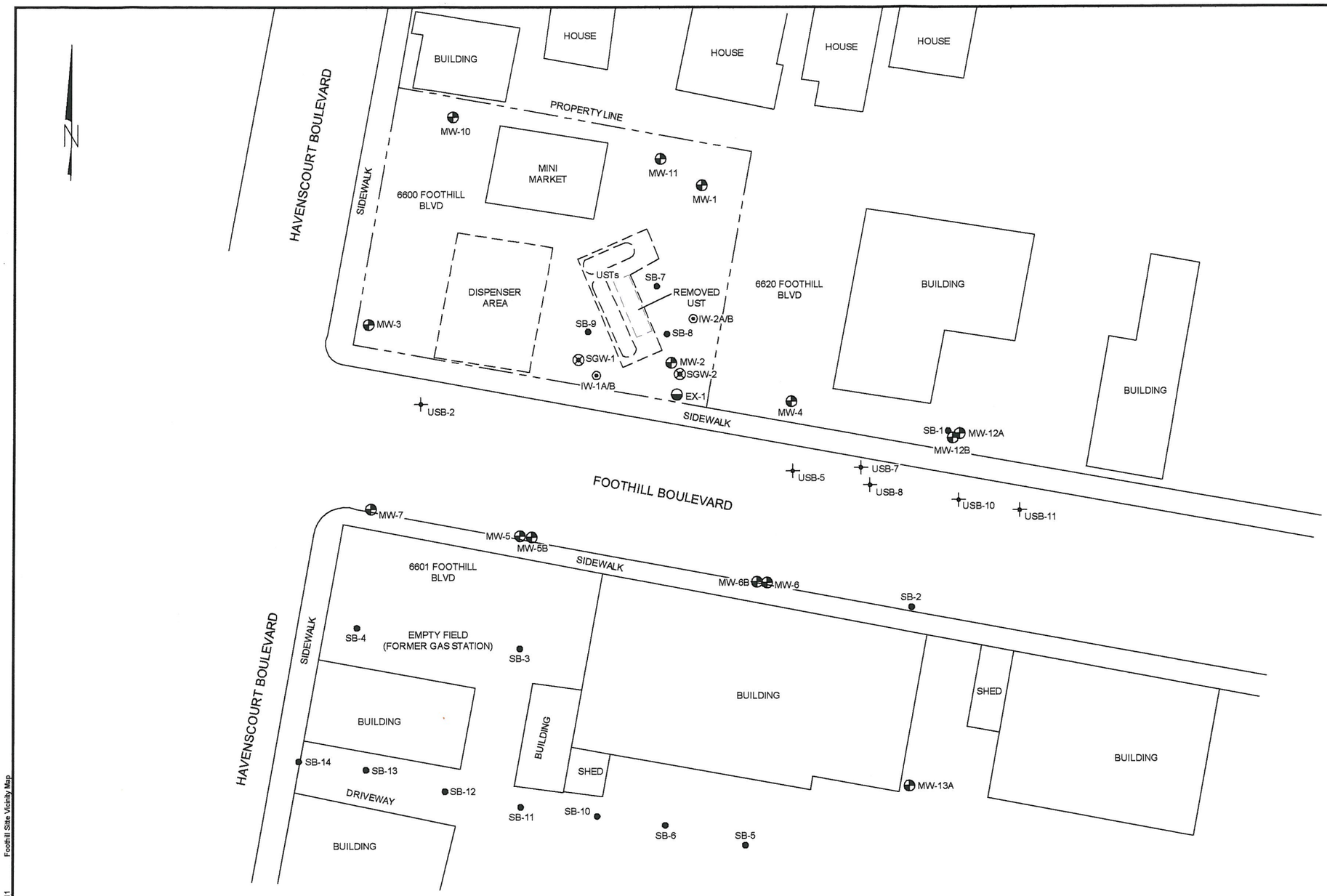
SCALE 1:24,000

STRATUS ENVIRONMENTAL, INC.

FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

SITE LOCATION MAP

FIGURE
1
PROJECT NO.
2087-6600-01



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

STRATUS ENVIRONMENTAL, INC.

0 40 FT
SCALE

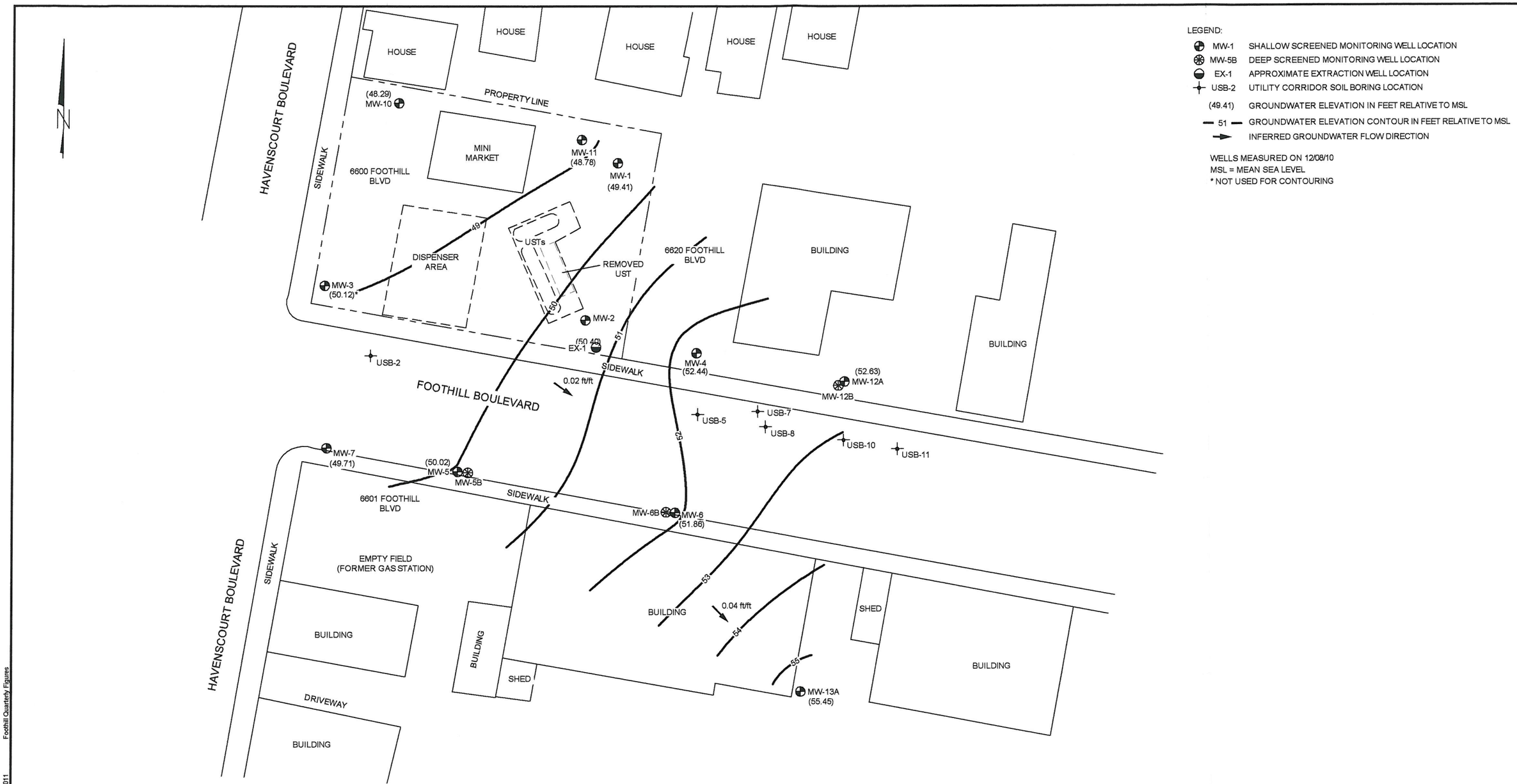
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

SITE PLAN

FIGURE
2

PROJECT NO.
2087-6600-01

JMP REV July 14, 2011 Foothill Site Vicinity Map
Foothill Mini Mart\



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
- (49.41) GROUNDWATER ELEVATION IN FEET RELATIVE TO MSL
- 51 GROUNDWATER ELEVATION CONTOUR IN FEET RELATIVE TO MSL
- INFERRED GROUNDWATER FLOW DIRECTION

WELLS MEASURED ON 12/08/10
MSL = MEAN SEA LEVEL
* NOT USED FOR CONTOURING

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

STRATUS
ENVIRONMENTAL, INC.

0 40 FT
SCALE

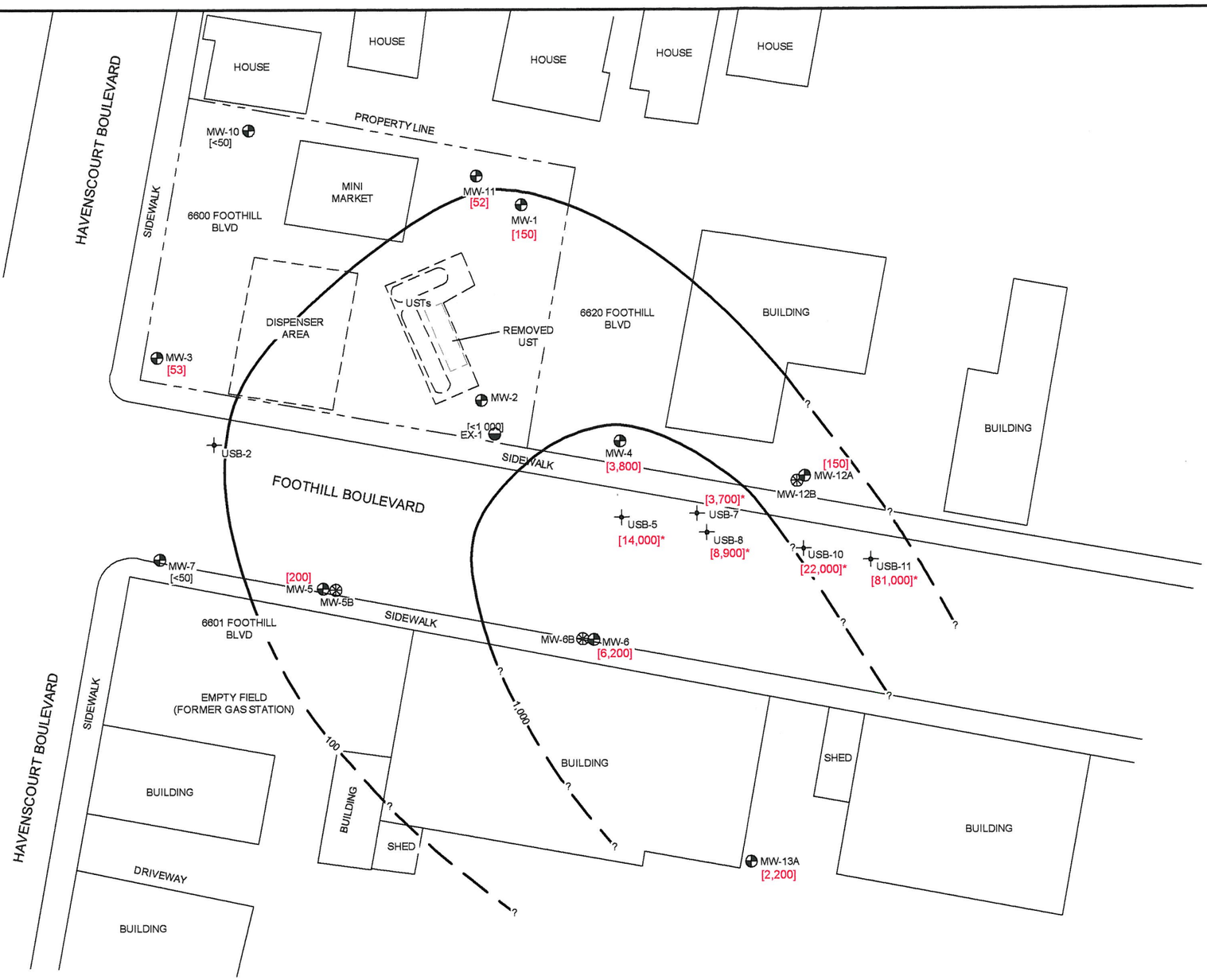
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP
SHALLOW SCREENED WELLS
4th QUARTER 2010

FIGURE
3

PROJECT NO.
2087-6600-01

JMP REV July 14, 2011 Foothill Quaterly 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
USB-2	UTILITY CORRIDOR SOIL BORING LOCATION
[<50]	GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN µg/L

WELLS SAMPLED ON 12/08/10
GRO ANALYZED BY EPA METHOD 8015B
GRAB SAMPLES FROM UTILITY CORRIDOR BORINGS COLLECTED IN FALL 2009
* GRAB SAMPLE RESULTS NOT USED FOR CONTOURING

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
4th QUARTER 2010

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 12/08/10
BENZENE ANALYZED BY EPA METHOD 8260B

N

HAVENSCOURT BOULEVARD

SIDEWALK

HOUSE

HOUSE

HOUSE

HOUSE

HOUSE

PROPERTY LINE

MW-10 [<0.50]

6600 FOOTHILL BLVD

MINI MARKET

MW-11 [<0.50]

MW-1 [<0.50]

DISPENSER AREA

USTs

REMOVED UST

6620 FOOTHILL BLVD

BUILDING

BUILDING

MW-3 [<0.50]

MW-2

[<5.0] EX-1

USB-2

SIDEWALK

MW-4 [<1.0]

[<0.50] MW-12A

MW-12B

FOOTHILL BOULEVARD

USB-5

USB-7

USB-8

USB-10

USB-11

MW-7 [<0.50]

[<0.50] MW-5

MW-5B

SIDEWALK

6601 FOOTHILL BLVD

MW-6B MW-6 [90]

10

1.0

1.0

EMPTY FIELD (FORMER GAS STATION)

BUILDING

BUILDING

SHED

SHED

BUILDING

HAVENSCOURT BOULEVARD

SIDEWALK

BUILDING

DRIVEWAY

BUILDING

MW-13A [0.63]

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

STRATUS ENVIRONMENTAL, INC.

0 40 FT

SCALE

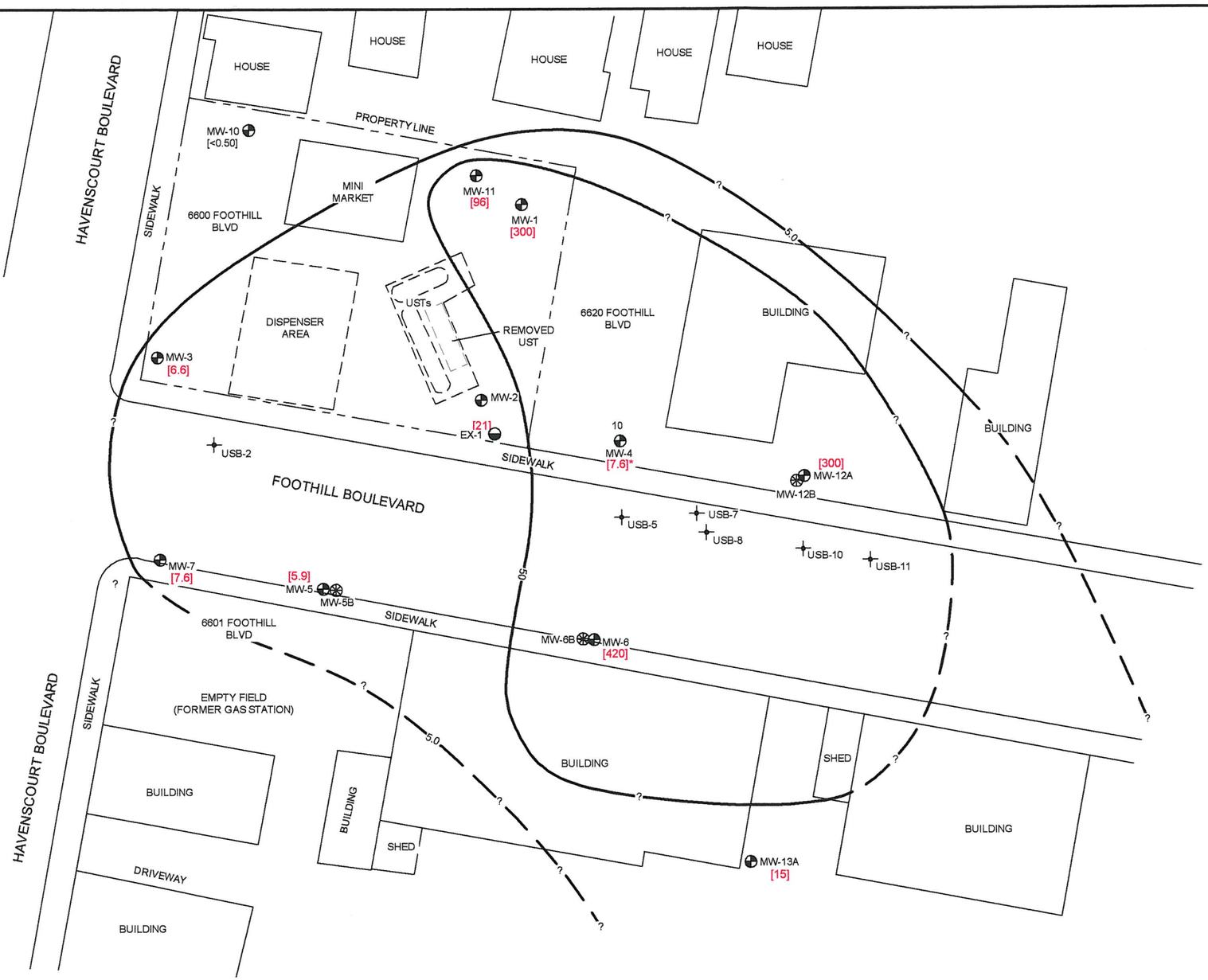
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

BENZENE ISO-CONCENTRATION CONTOUR MAP
SHALLOW SCREENED WELLS
4th QUARTER 2010

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 12/08/10
MTBE ANALYZED BY EPA METHOD 8260B
* NOT USED FOR CONTOURING

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

STRATUS ENVIRONMENTAL, INC.

0 40 FT
SCALE

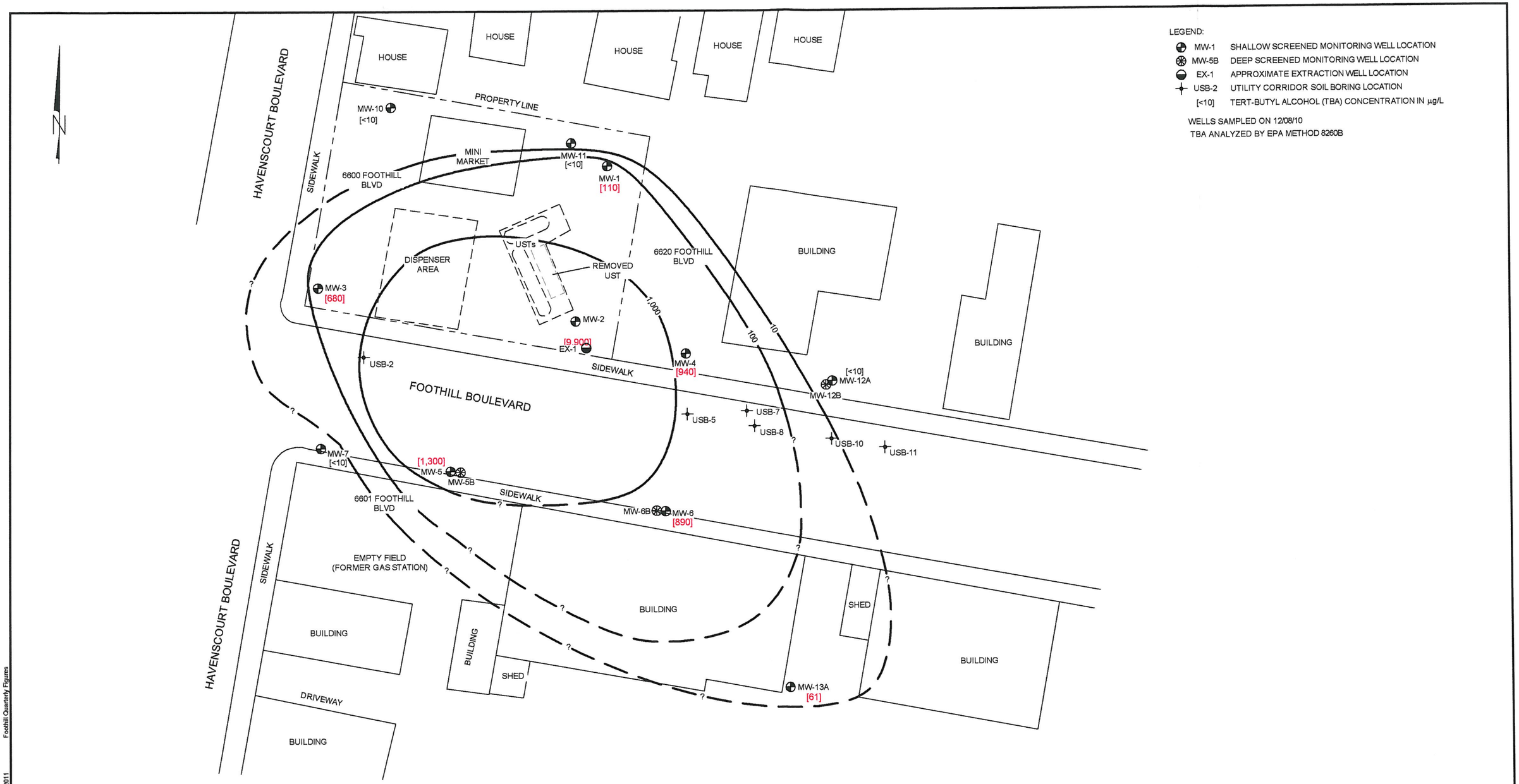
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

MTBE ISO-CONCENTRATION CONTOUR MAP
SHALLOW SCREENED WELLS
4th QUARTER 2010

FIGURE
6

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

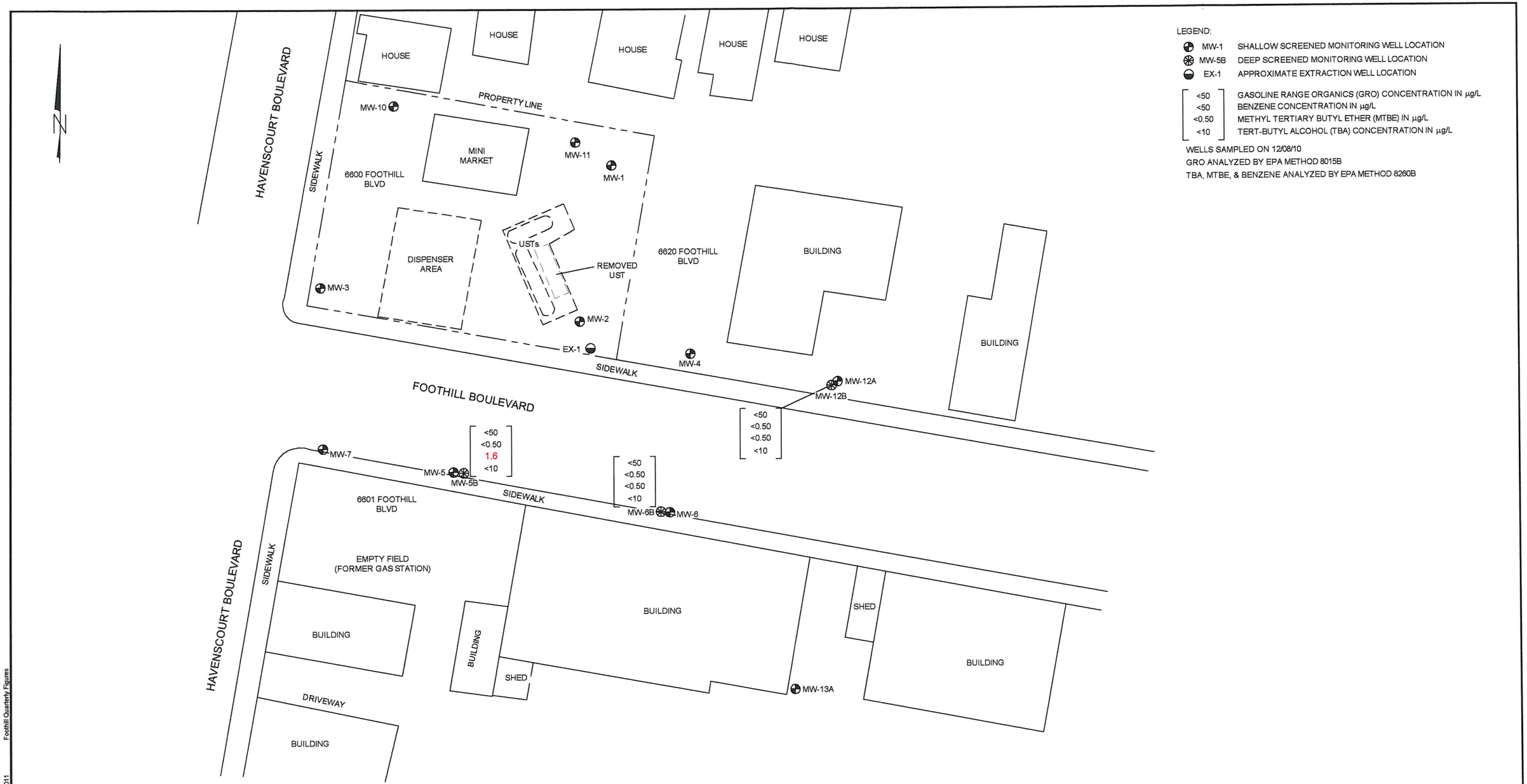
FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

TBA ISO-CONCENTRATION CONTOUR MAP
SHALLOW SCREENED WELLS
4th QUARTER 2010

FIGURE
7

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

GROUNDWATER ANALYTICAL SUMMARY
DEEP SCREENED WELLS
4th QUARTER 2010

FIGURE
8

PROJECT NO.
2087-6600-01

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

APPENDIX A

FIELD DATA SHEETS

Site Name & Address	Foothill Minimart 6600 Foothill Blvd., Oakland, CA	**Date**	4-26-11
Test Well ID	EX-1	**Test Operators**	CIVILL
		Equipment Model and Serial Nos.	250T CAT LR C1172
		PID Model	mini RAE

ORIGINAL

4-26-11 Date & Time 1200	Hour Meter Reading hrs	Applied Vacuum "Hg	Sys Inf Air Flow Rate[1] fpm/cfm	Dilution Air Flow Rate[2] fpm/cfm	Dilution Air Temp deg F	Flow totalizer (DPE unit) gallons	Sys Inf Air Temp deg F	Control Temp deg F	Effluent Air Temp deg F	System Influent ppmv	Effluent PID ppmv	Totalizer 11180 Comments/Notes
1230	7734	22	4000	1610	64	11180	125	1450	957	100	1.8	
1400	7735	17	4000	1088	68	11290	125	1460	873	38	1.1	INF 1410 EFF 1405
1430	7736	17	4000	934	68	11290	125	1467	879	15	1.0	
1500	7736.4	12	4000	1327	70	11340	125	1460	868	17	1.0	
1600	7737.5	11	4000	1261	70	11380	125	1462	870	15	1.0	
4-27-11 0400	7740	System Down Restart										
0500	7740.5	11	4000	1453	48	11550	100	1524	940	4	1.4	
0600	7741.2	10	4000	1201	46	11600	100	1605	1004	4	1.0	50PPM INF
0700	7742.4	10	4000	1134	49	11650	100	1639	1030	5	1.0	
0800	7743.4	10	4000	494	56	11690	100	1662	1068	8	1.0	
0900	7744.4	10	4000	1233	63	11740	100	1663	1117	8	1.0	
1000	7745.3	10	4000	1399	68	11740	105	1657	1120	4	1.0	

[1] Diameter of the system influent air flow pipe is 2 inches

[2] Diameter of the dilution air flow pipe is 2 inches

0740 SGW-2 CAN # 23888 Having Problems with Trans pump + unit
1600 SGW-1 CAN # 37360 Still having Problem with Trans pump will Not over come VAC To Pump H2O

ORIGINAL

Site Name & Address	Foothill Minimart 6600 Foothill Blvd., Oakland, CA	**Date**	4-27-11
Test Well ID	EX-1	**Test Operators**	CHILL
Equipment Model and Serial Nos.	C1172 250T CAT LR	**PID Model**	MINI RAE

Date & Time 42711	Hour Meter Reading hrs	Applied Vacuum "Hg	Sys Inf Air Flow Rate[1] fpm/cfm	Dilution Air Flow Rate[2] fpm/cfm	Dilution Air Temp deg F	Flow totalizer (DPE unit) gallons	Sys Inf Air Temp deg F	Control Temp deg F	Effluent Air Temp deg F	System Influent ppmv	Effluent PID ppmv	Comments/Notes
1100	7746.1	10	4000	1391	62	11760	105	1655	1093	6	1.0	
1200	7747.1	10	4000	1157	69	11820	105	1582	1040	4	1.0	
1300	7748.1	10	4000	1404	65	11820	105	1581	838	4	1.0	
1400	7749.1	10	4000	1321	66	11840	105	1586	948	4	1.0	INF Sample Air 1410 INF " water 1330
1600	7751.1	8	4000	1418	67	11920	107	1587	869	4	1.0	
1700	7752.1	8	4000	1350	68	11920	105	1586	869	4	1.0	
42811 0400	7762.0	7	4000	1385	52	12170	100	1583	928	2	0.8	
0500	7763.0	7	4000	1320	52	12190	100	1584	1008	2	0.8	
0600	7764.0	7	4000	1380	56	12260	100	1587	1040	2	0.8	
0700	7765.0	7	4000	1205	56	12260	100	1585	1100	1\7	0.7	
0800	7766.0	7	4000	1444	57	12260	100	1577	1070	1\7	0.7	
0900	7767.0	7	4000	1522	60	12320	100	1570	910	1\7	0.7	INF @ 0955
1000	7768.0	7	4000	1465	61	12350	100	1584	1011	1\7	0.7	Sys Inf Air 1000

[1] Diameter of the system influent air flow pipe is 2 inches

[2] Diameter of the dilution air flow pipe is 2 inches

Sys Inf \ Inf 1

1449 SCW-1 CAN # 31790
1456 SCW-2 CAN # 97105

Site Name & Address: Foothill Minimart
6600 Foothill Blvd., Oakland, CA

Test Well ID: EX1 - MW-4

Date: 4-28-11

Test Operators: CHILL

Equipment Model and Serial Nos.: CH12 250TCAT LR

PID Model: Mini RAE

Date & Time 4 28 11	Hour Meter Reading hrs	Applied Vacuum "Hg	Sys Inf Air Flow Rate[1] cfm/cfm	Dilution Air Flow Rate[2] cfm/cfm	Dilution Air Temp deg F	Flow totalizer (DPE unit) gallons	Sys Inf Air Temp deg F	Control Temp deg F	Effluent Air Temp deg F	System Influent ppmv	Effluent PID ppmv	Comments/Notes
1100	7768.3	10	4000	961	63	12350	105	1562	945	30	1.1	
1200	7769.2	9	4500	1044	64	12420	107	1537	1046	55	1.0	Inf Water 1340 Sys Inf Air 1320 1320
1300	7770.0	Generator stops.				12470						Gen. Stop - won't Restart

[1] Diameter of the system influent air flow pipe is 2 inches

[2] Diameter of the dilution air flow pipe is 2 inches

SGW-1 1425 35546 20/7
SGW-2 1445 37359 28/10

Site Name & Address: Foothill Minimart, 6600 Foothill Blvd., Oakland, CA

Date: 4-26-11

Operators: CMILL

Test Well ID: EX-1

ORIGINAL

DTW DTB

Date & Time	4.85 EX-1 29.70		MW-1		MW-2		MW-4		MW-5		MW-5B		MW-6		MW-6B			
	Stinger Depth	Wellhead Vacuum	Induced Vacuum	Depth to water	Induced Vacuum	Depth to water	Induced Vacuum	Depth to water	Induced Vacuum	Depth to water	Induced Vacuum	Depth to water	Induced Vacuum	Depth to water	Induced Vacuum	Depth to water		
	feet bgs	H2O	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs		
4/26/11 0600	—	—	Ø	6.43	-.3	8.93	Ø	5.56	Ø	7.42	Ø	13.42	Ø	5.34	-.7	35.85		
1330	29'	55" H2O	Ø	7.34	Ø	10.32	Ø	5.55"	Ø	7.75"	Ø	11.35	Ø	5.36	+1.2	35.49		
1430	29'	60" H2O	Ø	7.34	Ø	10.55"	Ø	5.55"	Ø	7.74	Ø	11.69	Ø	5.37	Ø	35.44		
1600	29'	49" H2O	Ø	7.40	Ø	11.25	Ø	5.55	—	—	—	—	Ø	5.37	+.2	35.41		
4/27/11 0400	—	—	—	—	—	—	Ø	5.57	Ø	7.77	Ø	14.57	Ø	5.37	+.7	35.23		
0600	29'	20" H2O	Ø	7.75"	+.2	10.92	Ø	5.56	Ø	7.77	Ø	14.55"	Ø	5.39	+.6	35.22		
0700	29'	20" H2O	Ø	7.79	Ø	11.08	Ø	5.56	Ø	7.77	Ø	14.44	Ø	5.40	+.1	35.18		
0800	29	22"	Ø	7.82	-.2	11.47	Ø	5.67	Ø	7.78	Ø	14.95"	Ø	5.40	Ø	35.14		
0900	29	22	Ø	7.83	-.1	11.49	Ø	5.67	Ø	7.78	Ø	14.97	Ø	5.41	Ø	35.19		
1000	29'	26	Ø	7.85	-2.3	11.73	Ø	5.61	Ø	7.78	Ø	15.98	Ø	5.41	Ø	35.20		
1100	29'	26	Ø	7.92	Ø	11.95"	Ø	5.60	—	—	—	—	Ø	5.41	Ø	35.20		
1200	29'	24	Ø	7.96	Ø	12.13	Ø	5.62	Ø	7.77	Ø	15.95	Ø	5.40	Ø	35.20		
1300	29'	26	Ø	7.99	Ø	12.25"	Ø	5.61"	Ø	7.77	Ø	16.17	Ø	5.40	Ø	35.19		
1400	29'	20	Ø	8.02	Ø	12.35"	Ø	5.68	—	—	—	—	Ø	5.40	Ø	35.18		
* 1600	29'	6	Ø	8.07	Ø	12.35"	Ø	5.60	Ø	7.77	Ø	16.71	Ø	5.40	Ø	35.16		

Stinger 1' off Bottom - Bleed Air At well Head for H2O Lift Tight Ground NOT Any Flow Air
50" H2O when No Bleed Air But H2O Flow Stops
* Had To Reduce VAC To well To Pump H2O

ORIGINAL

Site Name & Address: Foothill Minimart, 6600 Foothill Blvd., Oakland, CA

Test Well ID: EX-1 - MW-4

Date: 4-28-11

Operators: CHILL

Date & Time	EX-1		MW-1		MW-2		MW-4		MW-5		MW-5B		MW-6		MW-6B			
	Stinger Depth	Wellhead Vacuum	Induced Vacuum	Depth to water	Induced Vacuum	Depth to water	Induced Vacuum	Depth to water	Induced Vacuum	Depth to water	Induced Vacuum	Depth to water	Induced Vacuum	Depth to water	Induced Vacuum	Depth to water		
4-28-11	feet bgs	H2O	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs		
0400	29	5	0	8.38	0	12.29	0	5.76	0	7.80	0	17.48	0	5.42	+.3	35.22		
0500	—	—	—	—	—	—	0	5.75	0	7.79	0	17.46	0	5.43	+.2	35.20		
0600	29'	6	0	8.43	0	12.29	0	5.55	0	7.80	0	17.60	0	5.43	+.2	35.20		
0800	29'	6	0	8.48	-.1	12.31	0	5.74	—	—	—	—	0	5.43	0	35.21		
0900	29	6	0	8.50	0	12.31	0	5.78	0	7.81	0	17.68	0	5.45	0	35.21		
*		H2O		5		12.4		—					0	5.45	0	35.24		
1200	26'	30	0	8.56	0	12.46	101	—	—	—	—	—	0	5.45	0	35.24		
1330	—	—	0	8.58	0	12.55	—	—	0	7.81	0	17.88	0	5.44	0	35.26		

* Add MW-4 To System Stinger AT 17'

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 : 04/27/11

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 :	**Foothill A SYS INF**					
Lab ID :	STR11042742-01A	TPH-P (GRO)	ND	15 mg/m³	04/27/11 12:40	04/28/11
Date Sampled	04/26/11 14:10	Tertiary Butyl Alcohol (TBA)	ND	7.5 mg/m³	04/27/11 12:40	04/28/11
		Methyl tert-butyl ether (MTBE)	3.3	0.15 mg/m³	04/27/11 12:40	04/28/11
		Benzene	ND	0.15 mg/m³	04/27/11 12:40	04/28/11
		Toluene	ND	0.15 mg/m³	04/27/11 12:40	04/28/11
		Ethylbenzene	ND	0.15 mg/m³	04/27/11 12:40	04/28/11
		m,p-Xylene	ND	0.15 mg/m³	04/27/11 12:40	04/28/11
		o-Xylene	ND	0.15 mg/m³	04/27/11 12:40	04/28/11
Client ID :	**Foothill A EFF**					
Lab ID :	STR11042742-02A	TPH-P (GRO)	ND	15 mg/m³	04/27/11 12:40	04/28/11
Date Sampled	04/26/11 14:05	Tertiary Butyl Alcohol (TBA)	ND	7.5 mg/m³	04/27/11 12:40	04/28/11
		Methyl tert-butyl ether (MTBE)	ND	0.15 mg/m³	04/27/11 12:40	04/28/11
		Benzene	ND	0.15 mg/m³	04/27/11 12:40	04/28/11
		Toluene	ND	0.15 mg/m³	04/27/11 12:40	04/28/11
		Ethylbenzene	ND	0.15 mg/m³	04/27/11 12:40	04/28/11
		m,p-Xylene	ND	0.15 mg/m³	04/27/11 12:40	04/28/11
		o-Xylene	ND	0.15 mg/m³	04/27/11 12:40	04/28/11

Gasoline Range Organics (GRO) C4-C13
Note: Concentrations of air in Tedlar Bags are at 21 degrees Celsius and 25.63 inches of mercury.
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.

5/4/11
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: *03-May-11*

QC Summary Report

Work Order: 11042742

Method Blank

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

File ID: **11042819.D** Batch ID: **MS08A0428B** Analysis Date: **04/28/2011 17:37**

Sample ID: **MBLK MS08A0428B** Units : **mg/m³** Run ID: **MSD_08_110428B** Prep Date: **04/28/2011 17:37**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	1.68		2		84	70	130			
Surr: Toluene-d8	2.38		2		119	70	130			
Surr: 4-Bromofluorobenzene	1.69		2		85	70	130			

Laboratory Control Spike

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

File ID: **11042806.D** Batch ID: **MS08A0428B** Analysis Date: **04/28/2011 11:38**

Sample ID: **GLCS MS08A0428B** Units : **mg/m³** Run ID: **MSD_08_110428B** Prep Date: **04/28/2011 11:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	448	10	400		112	70	130			
Surr: 1,2-Dichloroethane-d4	9.61		10		96	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	8.98		10		90	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.

Alpha Analytical, Inc.

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

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

Date: *03-May-11*

QC Summary Report

Work Order: 11042742

Method Blank

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

File ID: **11042819.D** Batch ID: **MS08A0428A** Analysis Date: **04/28/2011 17:37**

Sample ID: **MBLK MS08A0428A** Units : **mg/m³** Run ID: **MSD_08_110428B** Prep Date: **04/28/2011 17:37**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	5								
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	1.68		2		84	70	130			
Surr: Toluene-d8	2.38		2		119	70	130			
Surr: 4-Bromofluorobenzene	1.69		2		85	70	130			

Laboratory Control Spike

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

File ID: **11042803.D** Batch ID: **MS08A0428A** Analysis Date: **04/28/2011 10:24**

Sample ID: **LCS MS08A0428A** Units : **mg/m³** Run ID: **MSD_08_110428B** Prep Date: **04/28/2011 10:24**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	8.57	0.1	10		86	65	140			
Benzene	9.26	0.1	10		93	70	130			
Toluene	9.06	0.1	10		91	80	120			
Ethylbenzene	10.4	0.1	10		104	80	120			
m,p-Xylene	9.97	0.1	10		99.7	70	130			
o-Xylene	9.45	0.1	10		95	70	130			
Surr: 1,2-Dichloroethane-d4	10.6		10		106	70	130			
Surr: Toluene-d8	9.48		10		95	70	130			
Surr: 4-Bromofluorobenzene	9.68		10		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.

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 : STR11042742

Report Due By : 5:00 PM On : 04-May-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 # : 28491 Job : Foothill Mini Mart

Cooler Temp	Samples Received	Date Printed
n/a °C	27-Apr-11	**27-Apr-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 TPH/P_A	VOC_A				Sample Remarks
STR11042742-01A	Foothill A SYS INF	AR	04/26/11 14:10	1	0	5	GAS-N/C	BTEX/MTBE /TBA				Tedlar
STR11042742-02A	Foothill A EFF	AR	04/26/11 14:05	1	0	5	GAS-N/C	BTEX/MTBE /TBA				Tedlar

Comments: No security seals. Ice n/a. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Dave Dickinson	Dave Dickinson	Alpha Analytical, Inc.	4/27/11 1107

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:
Name Stratus
Address 3330 Cameron Pk DR
City, State, Zip Cameron Pk
Phone Number 5306766084 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 Y NV ___ WA ___
ID ___ OR ___ OTHER ___

28491
Page # 1 of 1

Client Name	Foothill Mini-mart	P.O. #	Job #
Address		EMail Address	
City, State, Zip	Oakland	Phone #	Fax #

Time Sampled	Date Sampled	Matrix* See Key Below	Sampled by CHILL Lab ID Number (Office Use Only)	Report Attention Scott Sample Description	TAT	Field Filtered	Total and type of containers ** See below	GRO 8015	BTEX 8260	MTBE	TBA				REMARKS
1410	4/26/11	AR	STR1042742-01	Foothill A SYS INF	STD		1-T	X	X	X	X				
1405	"	"	-02	Foothill A EFF	STD		1-T	X	X	X	X				

Required QC Level? I II III IV

EDD / EDF? YES ___ NO

Global ID # ___

ADDITIONAL INSTRUCTIONS: Ship Fed EX

	Signature	Print Name	Company	Date	Time
Relinquished by		CHILL	Stratus	4/26/11	1600
Received by	Jane Dickinson	Jane Dickinson	Alpha	4/27/11	1107
Relinquished by					
Received by					
Relinquished by					
Received by					

*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 : 04/28/11

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 :	**Foothill A SYS INF**					
Lab ID :	STR11042842-01A	TPH-P (GRO)	ND	15 mg/m³	04/28/11 13:50	05/03/11
Date Sampled	04/27/11 14:10	Tertiary Butyl Alcohol (TBA)	ND	7.5 mg/m³	04/28/11 13:50	05/03/11
		Methyl tert-butyl ether (MTBE)	1.6	0.15 mg/m³	04/28/11 13:50	05/03/11
		Benzene	ND	0.15 mg/m³	04/28/11 13:50	05/03/11
		Toluene	ND	0.15 mg/m³	04/28/11 13:50	05/03/11
		Ethylbenzene	ND	0.15 mg/m³	04/28/11 13:50	05/03/11
		m,p-Xylene	ND	0.15 mg/m³	04/28/11 13:50	05/03/11
		o-Xylene	ND	0.15 mg/m³	04/28/11 13:50	05/03/11

Gasoline Range Organics (GRO) C4-C13
Note: Concentrations of air in a Tedlar Bag are at 21 degrees Celsius and 25.22 inches of mercury.
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.

5/6/11
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

Date: *04-May-11*

QC Summary Report

Work Order: 11042842

Method Blank

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

File ID: **11050312.D** Batch ID: **MS15A0503B** Analysis Date: **05/03/2011 13:23**

Sample ID: **MBLK MS15A0503B** Units : **mg/m³** Run ID: **MSD_15_110503A** Prep Date: **05/03/2011 13:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	2.12		2		106	70	130			
Surr: Toluene-d8	2.01		2		101	70	130			
Surr: 4-Bromofluorobenzene	1.94		2		97	70	130			

Laboratory Control Spike

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

File ID: **11050309.D** Batch ID: **MS15A0503B** Analysis Date: **05/03/2011 12:10**

Sample ID: **GLCS MS15A0503B** Units : **mg/m³** Run ID: **MSD_15_110503A** Prep Date: **05/03/2011 12:10**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	428	10	400		107	70	130			
Surr: 1,2-Dichloroethane-d4	10.5		10		105	70	130			
Surr: Toluene-d8	9.79		10		98	70	130			
Surr: 4-Bromofluorobenzene	9.92		10		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.

Alpha Analytical, Inc.

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

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

Date: *04-May-11*

QC Summary Report

Work Order: 11042842

Method Blank

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

File ID: **11050312.D** Batch ID: **MS15A0503A** Analysis Date: **05/03/2011 13:23**

Sample ID: **MBLK MS15A0503A** Units : **mg/m³** Run ID: **MSD_15_110503A** Prep Date: **05/03/2011 13:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	5								
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	2.12		2		106	70	130			
Surr: Toluene-d8	2.01		2		101	70	130			
Surr: 4-Bromofluorobenzene	1.94		2		97	70	130			

Laboratory Control Spike

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

File ID: **11050308.D** Batch ID: **MS15A0503A** Analysis Date: **05/03/2011 11:48**

Sample ID: **LCS MS15A0503A** Units : **mg/m³** Run ID: **MSD_15_110503A** Prep Date: **05/03/2011 11:48**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.35	0.1	10		94	65	140			
Benzene	9.82	0.1	10		98	70	130			
Toluene	10	0.1	10		100	80	120			
Ethylbenzene	10.4	0.1	10		104	80	120			
m,p-Xylene	10.2	0.1	10		102	70	130			
o-Xylene	10.1	0.1	10		101	70	130			
Surr: 1,2-Dichloroethane-d4	10.1		10		101	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	9.45		10		95	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.

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 : STR11042842

Report Due By : 5:00 PM On : 06-May-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 # : 28493 Job : Foothill Mini Mart

Cooler Temp	Samples Received	Date Printed
n/a °C	28-Apr-11	**28-Apr-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 TPH/P_A	VOC_A					Sample Remarks
STR11042842-01A	Foothill A SYS INF	AR	04/27/11 14:10	1	0	6	GAS-N/C	BTEX/MTBE /TBA					Tedlar

Comments: No security seals. Ice n/a. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Tara Jackson	Tara Dickinson	Alpha Analytical, Inc.	4/28/11 947

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:
Name Stratus
Address 3330 Cameron Pk DR
City, State, Zip Cameron Pk
Phone Number 530676 6664 Fax 530676 6665

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 ___ ID ___ OR ___ OTHER ___

28493

Page # 1 of 1

Client Name	Foothill Municipal	P.O. #	Job #
Address		EMail Address	
City, State, Zip	Oakland	Phone #	Fax #

Time Sampled	Date Sampled	Matrix* See Key Below	Sampled by CHILL / Lab ID Number (Office Use Only)	Report Attention Scott / Sample Description	TAT	Field Filtered	Total and type of containers ** See below	GRO 8015	BTEX - MTBE	TBA 8260					Required QC Level? I II III IV / EDD / EDF? YES ___ NO ___ / Global ID # ___ / REMARKS
1410	4/27/11	AR	STR1104284Z-01	Foothill A Sys Inf	STD		1-T	X	X	X					

ADDITIONAL INSTRUCTIONS: Ship Red Ex

	Signature	Print Name	Company	Date	Time
Relinquished by		CHILL	Stratus	4/27/11	1600
Received by	Tara Dickinson	Tara Dickinson	Alpha	4/28/11	9460
Relinquished by					
Received by					
Relinquished by					
Received by					

*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 : 04/29/11

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 :	**Foothill A SYS INF**					
Lab ID :	STR11042941-01A	TPH-P (GRO)	ND	15 mg/m³	04/29/11 11:55	05/03/11
Date Sampled	04/28/11 10:00	Tertiary Butyl Alcohol (TBA)	ND	7.5 mg/m³	04/29/11 11:55	05/03/11
		Methyl tert-butyl ether (MTBE)	1.3	0.15 mg/m³	04/29/11 11:55	05/03/11
		Benzene	ND	0.15 mg/m³	04/29/11 11:55	05/03/11
		Toluene	ND	0.15 mg/m³	04/29/11 11:55	05/03/11
		Ethylbenzene	ND	0.15 mg/m³	04/29/11 11:55	05/03/11
		m,p-Xylene	ND	0.15 mg/m³	04/29/11 11:55	05/03/11
		o-Xylene	ND	0.15 mg/m³	04/29/11 11:55	05/03/11
Client ID :	**Foothill A SYS INF**					
Lab ID :	STR11042941-02A	TPH-P (GRO)	120	15 mg/m³	04/29/11 11:55	05/03/11
Date Sampled	04/28/11 13:20	Tertiary Butyl Alcohol (TBA)	ND	7.5 mg/m³	04/29/11 11:55	05/03/11
		Methyl tert-butyl ether (MTBE)	ND	0.15 mg/m³	04/29/11 11:55	05/03/11
		Benzene	ND	0.15 mg/m³	04/29/11 11:55	05/03/11
		Toluene	ND	0.15 mg/m³	04/29/11 11:55	05/03/11
		Ethylbenzene	ND	0.15 mg/m³	04/29/11 11:55	05/03/11
		m,p-Xylene	ND	0.15 mg/m³	04/29/11 11:55	05/03/11
		o-Xylene	ND	0.15 mg/m³	04/29/11 11:55	05/03/11

Gasoline Range Organics (GRO) C4-C13

Note: Concentrations of air in Tedlar Bags are at 21 degrees Celsius and 25.34 inches of mercury.

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.

5/6/11
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

Date: *04-May-11*

QC Summary Report

Work Order: 11042941

Method Blank

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

File ID: **11050312.D** Batch ID: **MS15A0503B** Analysis Date: **05/03/2011 13:23**

Sample ID: **MBLK MS15A0503B** Units : **mg/m³** Run ID: **MSD_15_110503A** Prep Date: **05/03/2011 13:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	2.12		2		106	70	130			
Surr: Toluene-d8	2.01		2		101	70	130			
Surr: 4-Bromofluorobenzene	1.94		2		97	70	130			

Laboratory Control Spike

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

File ID: **11050309.D** Batch ID: **MS15A0503B** Analysis Date: **05/03/2011 12:10**

Sample ID: **GLCS MS15A0503B** Units : **mg/m³** Run ID: **MSD_15_110503A** Prep Date: **05/03/2011 12:10**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	428	10	400		107	70	130			
Surr: 1,2-Dichloroethane-d4	10.5		10		105	70	130			
Surr: Toluene-d8	9.79		10		98	70	130			
Surr: 4-Bromofluorobenzene	9.92		10		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.

Alpha Analytical, Inc.

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

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

Date: *04-May-11*

QC Summary Report

Work Order: 11042941

Method Blank

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

File ID: **11050312.D** Batch ID: **MS15A0503A** Analysis Date: **05/03/2011 13:23**

Sample ID: **MBLK MS15A0503A** Units : **mg/m³** Run ID: **MSD_15_110503A** Prep Date: **05/03/2011 13:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	5								
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	2.12		2		106	70	130			
Surr: Toluene-d8	2.01		2		101	70	130			
Surr: 4-Bromofluorobenzene	1.94		2		97	70	130			

Laboratory Control Spike

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

File ID: **11050308.D** Batch ID: **MS15A0503A** Analysis Date: **05/03/2011 11:48**

Sample ID: **LCS MS15A0503A** Units : **mg/m³** Run ID: **MSD_15_110503A** Prep Date: **05/03/2011 11:48**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.35	0.1	10		94	65	140			
Benzene	9.82	0.1	10		98	70	130			
Toluene	10	0.1	10		100	80	120			
Ethylbenzene	10.4	0.1	10		104	80	120			
m,p-Xylene	10.2	0.1	10		102	70	130			
o-Xylene	10.1	0.1	10		101	70	130			
Surr: 1,2-Dichloroethane-d4	10.1		10		101	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	9.45		10		95	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.

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 : STR11042941

Report Due By : 5:00 PM On : 09-May-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 # : 28494 Job : Foothill Mini Mart

Cooler Temp	Samples Received	Date Printed
n/a °C	29-Apr-11	**29-Apr-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 TPH/P_A	VOC_A						Sample Remarks
STR11042941-01A	Foothill A SYS INF	AR	04/28/11 10:00	1	0	6	GAS-N/C	BTEX/MTBE /TBA						Tedlar
STR11042941-02A	Foothill A SYS INF	AR	04/28/11 13:20	1	0	6	GAS-N/C	BTEX/MTBE /TBA						Tedlar

Comments: No security seals. Ice n/a. ;

	Signature	Print Name	Company	Date/Time
Logged in by:	Tara Johnson	Tara Dickinson	**Alpha Analytical, Inc.**	4/29/11 9:34

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:
Name Stratus
Address 3330 Cameron Pk
City, State, Zip Cameron Pk DR
Phone Number 530676 6124 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 ___ ID ___ OR ___ OTHER ___

28494

Page # 1 of 1

Client Name	Foothill Midmkt	P.O. #	Job #
Address		EMail Address	
City, State, Zip	Oakland	Phone #	Fax #

Report Attention Scott

Sampled by CHILL

Time Sampled	Date Sampled	Matrix* See Key Below	Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	Total and type of containers ** See below	GRO & BTEX	BTEX & MTBE	MTBE	TBA				
1000	4/28/11	AR	STR1042941-01	Foothill A Sys Inf	STD		1-T	X	X	X	X				
1320	4/28	AR	-02	Foothill A Sys Inf	STD		1-T	X	X	X	X				

Analyses Required

Required QC Level? I II III IV

EDD / EDF? YES ___ NO ___

Global ID # ___

REMARKS

ADDITIONAL INSTRUCTIONS: Fed Ex

	Signature	Print Name	Company	Date	Time
Relinquished by		CHILL	Stratus	4/28/11	1600
Received by	Tae Johnson	Tae Dickson	Alpha	4/29/11	933
Relinquished by					
Received by					
Relinquished by					
Received by					

*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 : 05/02/11

Job: Foothill Minimart

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 : **Foothill W INF**						
Lab ID : STR11050222-01A	TPH-P (GRO)	310		200 µg/L	05/03/11	05/03/11
Date Sampled 04/26/11 13:00	Tertiary Butyl Alcohol (TBA)	3,900		20 µg/L	05/03/11	05/03/11
	Methyl tert-butyl ether (MTBE)	460		1.0 µg/L	05/03/11	05/03/11
	Di-isopropyl Ether (DIPE)	ND	V	2.0 µg/L	05/03/11	05/03/11
	Ethyl Tertiary Butyl Ether (ETBE)	ND	V	2.0 µg/L	05/03/11	05/03/11
	Benzene	ND	V	1.0 µg/L	05/03/11	05/03/11
	Tertiary Amyl Methyl Ether (TAME)	ND	V	2.0 µg/L	05/03/11	05/03/11
	Toluene	ND	V	1.0 µg/L	05/03/11	05/03/11
	Ethylbenzene	ND	V	1.0 µg/L	05/03/11	05/03/11
	m,p-Xylene	1.1		1.0 µg/L	05/03/11	05/03/11
	o-Xylene	1.1		1.0 µg/L	05/03/11	05/03/11
Client ID : **Foothill W INF**						
Lab ID : STR11050222-02A	TPH-P (GRO)	220		100 µg/L	05/03/11	05/03/11
Date Sampled 04/27/11 13:30	Tertiary Butyl Alcohol (TBA)	880		10 µg/L	05/03/11	05/03/11
	Methyl tert-butyl ether (MTBE)	530		0.50 µg/L	05/03/11	05/03/11
	Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	05/03/11	05/03/11
	Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	05/03/11	05/03/11
	Benzene	ND		0.50 µg/L	05/03/11	05/03/11
	Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	05/03/11	05/03/11
	Toluene	7.0		0.50 µg/L	05/03/11	05/03/11
	Ethylbenzene	ND		0.50 µg/L	05/03/11	05/03/11
	m,p-Xylene	0.52		0.50 µg/L	05/03/11	05/03/11
	o-Xylene	ND		0.50 µg/L	05/03/11	05/03/11
Client ID : **Foothill W INF**						
Lab ID : STR11050222-03A	TPH-P (GRO)	320		200 µg/L	05/03/11	05/03/11
Date Sampled 04/28/11 09:55	Tertiary Butyl Alcohol (TBA)	730		20 µg/L	05/03/11	05/03/11
	Methyl tert-butyl ether (MTBE)	840		1.0 µg/L	05/03/11	05/03/11
	Di-isopropyl Ether (DIPE)	ND	V	2.0 µg/L	05/03/11	05/03/11
	Ethyl Tertiary Butyl Ether (ETBE)	ND	V	2.0 µg/L	05/03/11	05/03/11
	Benzene	ND	V	1.0 µg/L	05/03/11	05/03/11
	Tertiary Amyl Methyl Ether (TAME)	ND	V	2.0 µg/L	05/03/11	05/03/11
	Toluene	2.3		1.0 µg/L	05/03/11	05/03/11
	Ethylbenzene	ND	V	1.0 µg/L	05/03/11	05/03/11
	m,p-Xylene	ND	V	1.0 µg/L	05/03/11	05/03/11
	o-Xylene	ND	V	1.0 µg/L	05/03/11	05/03/11

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Client ID : **Foothill W INF**

Lab ID : STR11050222-04A

Date Sampled 04/28/11 13:00

TPH-P (GRO)	330	100 µg/L	05/03/11	05/03/11
Tertiary Butyl Alcohol (TBA)	1,100	10 µg/L	05/03/11	05/03/11
Methyl tert-butyl ether (MTBE)	260	0.50 µg/L	05/03/11	05/03/11
Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	05/03/11	05/03/11
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	05/03/11	05/03/11
Benzene	ND	0.50 µg/L	05/03/11	05/03/11
Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	05/03/11	05/03/11
Toluene	7.2	0.50 µg/L	05/03/11	05/03/11
Ethylbenzene	ND	0.50 µg/L	05/03/11	05/03/11
m,p-Xylene	ND	0.50 µg/L	05/03/11	05/03/11
o-Xylene	ND	0.50 µg/L	05/03/11	05/03/11

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

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.

5/9/11

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

VOC Sample Preservation Report

Work Order: STR11050222 **Job:** Foothill Minimart

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11050222-01A	Foothill W INF	Aqueous	2
11050222-02A	Foothill W INF	Aqueous	2
11050222-03A	Foothill W INF	Aqueous	2
11050222-04A	Foothill W INF	Aqueous	2

5/9/11
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: 04-May-11

QC Summary Report

Work Order: 11050222

Method Blank

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

File ID: **C:\HPCHEM\MS07\DATA\110503\11050306.D** Batch ID: **MS07W0503B** Analysis Date: **05/03/2011 10:45**

Sample ID: **MBLK MS07W0503B** Units : **µg/L** Run ID: **MSD_07_110503A** Prep Date: **05/03/2011 10:45**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	10.7		10		107	70	130			
Surr: Toluene-d8	9.95		10		100	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\110503\11050304.D** Batch ID: **MS07W0503B** Analysis Date: **05/03/2011 09:57**

Sample ID: **GLCS MS07W0503B** Units : **µg/L** Run ID: **MSD_07_110503A** Prep Date: **05/03/2011 09:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	368	50	400		92	70	130			
Surr: 1,2-Dichloroethane-d4	10.6		10		106	70	130			
Surr: Toluene-d8	9.89		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.99		10		99.9	70	130			

Sample Matrix Spike

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

File ID: **C:\HPCHEM\MS07\DATA\110503\11050309.D** Batch ID: **MS07W0503B** Analysis Date: **05/03/2011 11:56**

Sample ID: **11050222-02AGS** Units : **µg/L** Run ID: **MSD_07_110503A** Prep Date: **05/03/2011 11:56**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1880	250	2000	222.8	83	51	144			
Surr: 1,2-Dichloroethane-d4	53.9		50		108	70	130			
Surr: Toluene-d8	48.8		50		98	70	130			
Surr: 4-Bromofluorobenzene	49.1		50		98	70	130			

Sample Matrix Spike Duplicate

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

File ID: **C:\HPCHEM\MS07\DATA\110503\11050310.D** Batch ID: **MS07W0503B** Analysis Date: **05/03/2011 12:20**

Sample ID: **11050222-02AGSD** Units : **µg/L** Run ID: **MSD_07_110503A** Prep Date: **05/03/2011 12:20**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2000	250	2000	222.8	89	51	144	1879	6.1(29)	
Surr: 1,2-Dichloroethane-d4	53.2		50		106	70	130			
Surr: Toluene-d8	48.1		50		96	70	130			
Surr: 4-Bromofluorobenzene	49.2		50		98	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: 04-May-11

QC Summary Report

Work Order: 11050222

Method Blank

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

File ID: **C:\HPCHEM\MS07\DATA\110503\11050306.D** Batch ID: **MS07W0503A** Analysis Date: **05/03/2011 10:45**

Sample ID: **MBLK MS07W0503A** Units : **µg/L** Run ID: **MSD_07_110503A** Prep Date: **05/03/2011 10:45**

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								
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	10.7		10		107	70	130			
Surr: Toluene-d8	9.95		10		100	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\110503\11050303.D** Batch ID: **MS07W0503A** Analysis Date: **05/03/2011 09:33**

Sample ID: **LCS MS07W0503A** Units : **µg/L** Run ID: **MSD_07_110503A** Prep Date: **05/03/2011 09:33**

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	10.6	0.5	10		106	70	130			
Toluene	10.3	0.5	10		103	80	120			
Ethylbenzene	10.7	0.5	10		107	80	120			
m,p-Xylene	11.3	0.5	10		113	70	130			
o-Xylene	11.7	0.5	10		117	70	130			
Surr: 1,2-Dichloroethane-d4	10.5		10		105	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	10.2		10		102	70	130			

Sample Matrix Spike

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

File ID: **C:\HPCHEM\MS07\DATA\110503\11050307.D** Batch ID: **MS07W0503A** Analysis Date: **05/03/2011 11:08**

Sample ID: **11050222-02AMS** Units : **µg/L** Run ID: **MSD_07_110503A** Prep Date: **05/03/2011 11:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	588	1.3	50	530.4	115	47	150			
Benzene	55.1	1.3	50	0	110	59	138			
Toluene	59.5	1.3	50	6.98	105	68	130			
Ethylbenzene	54.6	1.3	50	0	109	68	130			
m,p-Xylene	58.2	1.3	50	0.52	115	68	131			
o-Xylene	61.5	1.3	50	0	123	70	130			
Surr: 1,2-Dichloroethane-d4	53		50		106	70	130			
Surr: Toluene-d8	49.2		50		98	70	130			
Surr: 4-Bromofluorobenzene	49.3		50		99	70	130			

Sample Matrix Spike Duplicate

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

File ID: **C:\HPCHEM\MS07\DATA\110503\11050308.D** Batch ID: **MS07W0503A** Analysis Date: **05/03/2011 11:32**

Sample ID: **11050222-02AMSD** Units : **µg/L** Run ID: **MSD_07_110503A** Prep Date: **05/03/2011 11:32**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	633	1.3	50	530.4	205	47	150	587.7	7.4(40)	M3
Benzene	48.5	1.3	50	0	97	59	138	55.07	12.7(21)	
Toluene	53.4	1.3	50	6.98	93	68	130	59.52	10.8(20)	
Ethylbenzene	47.5	1.3	50	0	95	68	130	54.56	13.9(20)	
m,p-Xylene	51	1.3	50	0.52	101	68	131	58.24	13.2(20)	
o-Xylene	53.7	1.3	50	0	107	70	130	61.46	13.4(20)	
Surr: 1,2-Dichloroethane-d4	54.4		50		109	70	130			
Surr: Toluene-d8	50.3		50		101	70	130			
Surr: 4-Bromofluorobenzene	49.3		50		99	70	130			

Alpha Analytical, Inc.

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Date: *04-May-11*

QC Summary Report

Work Order: 11050222

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.

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 : STR11050222

Report Due By : 5:00 PM On : 09-May-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 # : 28492 Job : Foothill Minimart

Cooler Temp	Samples Received	Date Printed
0 °C	02-May-11	**02-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 TPH/P_W	VOC_W	Sample Remarks
STR11050222-01A	Foothill W INF	AQ	04/26/11 13:00	5	0	5	GAS-C	BTEX/OXY_C	
STR11050222-02A	Foothill W INF	AQ	04/27/11 13:30	5	0	5	GAS-C	BTEX/OXY_C	
STR11050222-03A	Foothill W INF	AQ	04/28/11 09:55	5	0	5	GAS-C	BTEX/OXY_C	
STR11050222-04A	Foothill W INF	AQ	04/28/11 13:00	5	0	5	GAS-C	BTEX/OXY_C	Sampling time on voas is 13:10, logged in per client chain.

Comments: Security seals intact. Frozen ice. ;

	Signature	Print Name	Company	Date/Time
Logged in by:	K Murray	K Murray	Alpha Analytical, Inc.	5/2/11 0935

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:
Name Stantec
Address 3330 Cameron Park Dr
City, State, Zip Cameron Park
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 ___ ID ___ OR ___ OTHER ___

28492

Page # 1 of 1

Client Name Foothill Mini-Mart	P.O. #	Job #
Address	EMail Address	
City, State, Zip Oakhurst	Phone #	Fax #

Report Attention Scott

Sampled by CHILL

Time Sampled	Date Sampled	Matrix* See Key Below	Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	Total and type of containers ** See below	GRO 8015	BTEX 8260	5 OXYS					REMARKS
1300	4/26	AQ	STR110S0222-01	Foothill W INF	STD		5-V	X	X	X					
1330	4/27/11	AQ	02	Foothill W INF	STD		5-V	X	X	X					
0955	4/28/11	AQ	03	Foothill W INF	STD		5-V	X	X	X					
1300	4/28/11	AQ	04	Foothill W INF	STD		5-V	X	X	X					

Required QC Level? I II III IV

EDD / EDF? YES ___ NO ___

Global ID # ___

ADDITIONAL INSTRUCTIONS:

	Signature	Print Name	Company	Date	Time
Relinquished by		CHILL	Stantec	4-29-11	9:00
Received by		Lisa dt Silva	ALPHA	4-29-11	900
Relinquished by					
Received by	K Murray	K Murray	AAI	5/2/11	0950
Relinquished by					
Received by					

*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

5/13/2011
Mr. Scott Bittinger
Stratus Environmental, Inc.
3330 Cameron Park Drive
Suite 550
Cameron Park CA 95682-8861

Project Name: Foothill Minimart
Project #:
Workorder #: 1104521

Dear Mr. Scott Bittinger

The following report includes the data for the above referenced project for sample(s) received on 4/26/2011 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 #: 1104521

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. #**	2087-6600-1
FAX:	530-676-6005	**PROJECT #**	Foothill Minimart
DATE RECEIVED:	04/26/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	05/10/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SGW-1	Modified TO-15	5.5 "Hg	15 psi
02A	SGW-2	Modified TO-15	11.0 "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 A. Truman DATE: 05/10/11

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# 1104521

One 1 Liter Summa Canister and one 6 Liter Summa Canister samples were received on April 26, 2011. The laboratory performed analysis via modified 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.

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#: 1104521-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.2	1.3	4.4	4.6
Benzene	1.2	2.6	3.9	8.4
Toluene	1.2	12	4.6	46
m,p-Xylene	1.2	3.4	5.4	15
o-Xylene	1.2	2.5	5.4	11
1,1-Difluoroethane	4.9	280	13	770
TPH ref. to Gasoline (MW=100)	62	310	250	1300

Client Sample ID: SGW-2

Lab ID#: 1104521-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.1	1.7	3.4	5.5
Toluene	1.1	10	4.0	38
m,p-Xylene	1.1	4.7	4.6	20
o-Xylene	1.1	2.5	4.6	11
1,1-Difluoroethane	4.2	24	11	64
TPH ref. to Gasoline (MW=100)	53	430	220	1800

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SGW-1

Lab ID#: 1104521-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3050613	Date of Collection:	4/26/11 8:00:00 AM
Dil. Factor:	2.47	Date of Analysis:	5/6/11 02:56 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.2	1.3	4.4	4.6
Benzene	1.2	2.6	3.9	8.4
Toluene	1.2	12	4.6	46
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	3.4	5.4	15
o-Xylene	1.2	2.5	5.4	11
Naphthalene	4.9	Not Detected	26	Not Detected
1,1-Difluoroethane	4.9	280	13	770
tert-Butyl alcohol	4.9	Not Detected	15	Not Detected
TPH ref. to Gasoline (MW=100)	62	310	250	1300

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SGW-2

Lab ID#: 1104521-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3050614	Date of Collection:	4/26/11 7:40:00 AM
Dil. Factor:	2.12	Date of Analysis:	5/6/11 03:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.1	Not Detected	3.8	Not Detected
Benzene	1.1	1.7	3.4	5.5
Toluene	1.1	10	4.0	38
Ethyl Benzene	1.1	Not Detected	4.6	Not Detected
m,p-Xylene	1.1	4.7	4.6	20
o-Xylene	1.1	2.5	4.6	11
Naphthalene	4.2	Not Detected	22	Not Detected
1,1-Difluoroethane	4.2	24	11	64
tert-Butyl alcohol	4.2	Not Detected	13	Not Detected
TPH ref. to Gasoline (MW=100)	53	430	220	1800

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104521-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3050609	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/6/11 12:39 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	103	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104521-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3050602	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/6/11 07:12 AM	

Compound	%Recovery
Methyl tert-butyl ether	89
Benzene	95
Toluene	99
Ethyl Benzene	93
m,p-Xylene	93
o-Xylene	95
Naphthalene	85
1,1-Difluoroethane	91
tert-Butyl alcohol	85
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104521-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3050603	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/6/11 08:07 AM	

Compound	%Recovery
Methyl tert-butyl ether	95
Benzene	96
Toluene	99
Ethyl Benzene	94
m,p-Xylene	97
o-Xylene	98
Naphthalene	78
1,1-Difluoroethane	Not Spiked
tert-Butyl alcohol	59 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	106	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104521-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3050604	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/6/11 08:48 AM	

Compound	%Recovery
Methyl tert-butyl ether	96
Benzene	95
Toluene	97
Ethyl Benzene	96
m,p-Xylene	97
o-Xylene	96
Naphthalene	80
1,1-Difluoroethane	Not Spiked
tert-Butyl alcohol	60
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	103	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 Bittinger
Collected by: (Print and Sign) CHILL
Company Stantec Email
Address 3350 Cameron Park Dr City Cameron Park 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	37360	4 26 11	0800	~~GRO BTEX MTBE TBA~~ $260	29	5		
02A	SGW-2	23888	4-26-11	0740	~~GRO BTEX MTBE TBA~~	30	15		
					GRO, BTEX, MTBE, TBA, 1,1-DFA, TO-15				

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	4 26 11	[signature]	4/26/11
[signature]	4/26/11	B. Shettaker ARC	4/26/11 1100

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Hand Del.		W/A	Good	Yes No (None)	110452

Form 1293 rev.11

Air Toxics LTD.
Laboratory Services Since 1989

5/13/2011
Mr. Scott Bittinger
Stratus Environmental, Inc.
3330 Cameron Park Drive
Suite 550
Cameron Park CA 95682-8861

Project Name: Foothill Mini Mart
Project #:
Workorder #: 1104570

Dear Mr. Scott Bittinger

The following report includes the data for the above referenced project for sample(s) received on 4/28/2011 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 #: 1104570

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. #**	2087-6600-1
FAX:	530-676-6005	**PROJECT #**	Foothill Mini Mart
DATE RECEIVED:	04/28/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	05/13/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SGW-1	Modified TO-15	10.0 "Hg	15 psi
02A	SGW-2	Modified TO-15	9.5 "Hg	15 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 J. Fruman DATE: 05/13/11

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# 1104570

Two 1 Liter Summa Canister samples were received on April 28, 2011. The laboratory performed analysis via modified 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

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 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.

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#: 1104570-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.5	1.5	4.8	4.9
Toluene	1.5	5.4	5.7	20
TPH ref. to Gasoline (MW=100)	76	100	310	410

Client Sample ID: SGW-2

Lab ID#: 1104570-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.5	2.9	4.7	9.2
Toluene	1.5	17	5.6	63
o-Xylene	1.5	2.1	6.4	9.2
TPH ref. to Gasoline (MW=100)	74	100	300	410

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SGW-1

Lab ID#: 1104570-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3050615	Date of Collection:	4/27/11 2:49:00 PM
Dil. Factor:	3.03	Date of Analysis:	5/6/11 04:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.5	Not Detected	5.5	Not Detected
Benzene	1.5	1.5	4.8	4.9
Toluene	1.5	5.4	5.7	20
Ethyl Benzene	1.5	Not Detected	6.6	Not Detected
m,p-Xylene	1.5	Not Detected	6.6	Not Detected
o-Xylene	1.5	Not Detected	6.6	Not Detected
Naphthalene	6.1	Not Detected	32	Not Detected
1,1-Difluoroethane	6.1	Not Detected	16	Not Detected
tert-Butyl alcohol	6.1	Not Detected	18	Not Detected
TPH ref. to Gasoline (MW=100)	76	100	310	410

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SGW-2

Lab ID#: 1104570-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3050616	Date of Collection:	4/27/11 2:28:00 PM
Dil. Factor:	2.96	Date of Analysis:	5/6/11 04:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.5	Not Detected	5.3	Not Detected
Benzene	1.5	2.9	4.7	9.2
Toluene	1.5	17	5.6	63
Ethyl Benzene	1.5	Not Detected	6.4	Not Detected
m,p-Xylene	1.5	Not Detected	6.4	Not Detected
o-Xylene	1.5	2.1	6.4	9.2
Naphthalene	5.9	Not Detected	31	Not Detected
1,1-Difluoroethane	5.9	Not Detected	16	Not Detected
tert-Butyl alcohol	5.9	Not Detected	18	Not Detected
TPH ref. to Gasoline (MW=100)	74	100	300	410

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104570-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3050609	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/6/11 12:39 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	103	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104570-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3050602	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/6/11 07:12 AM	

Compound	%Recovery
Methyl tert-butyl ether	89
Benzene	95
Toluene	99
Ethyl Benzene	93
m,p-Xylene	93
o-Xylene	95
Naphthalene	85
1,1-Difluoroethane	91
tert-Butyl alcohol	85
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104570-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3050603	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/6/11 08:07 AM	

Compound	%Recovery
Methyl tert-butyl ether	95
Benzene	96
Toluene	99
Ethyl Benzene	94
m,p-Xylene	97
o-Xylene	98
Naphthalene	78
1,1-Difluoroethane	Not Spiked
tert-Butyl alcohol	59 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	106	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104570-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3050604	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/6/11 08:48 AM	

Compound	%Recovery
Methyl tert-butyl ether	96
Benzene	95
Toluene	97
Ethyl Benzene	96
m,p-Xylene	97
o-Xylene	96
Naphthalene	80
1,1-Difluoroethane	Not Spiked
tert-Butyl alcohol	60
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	103	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 Billinger
Collected by: (Print and Sign) CHILL Chill
Company Stantec Email
Address 3330 Cameron Pk City Cameron Pk State CA Zip 95682
Phone 530 676 6004 Fax 530 676 6005

Project Info:
P.O. #
Project #
Project Name Foothill Min. Mkt

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	3179	4/27/11	1449	GRO-BTEX-MTBE-TBA	30	10		
02A	SGW-2	9710	4/27/11	1428	1,1-DFA TO-15	30	10		

Relinquished by: (signature) Date/Time 4/27/11 1600
Received by: (signature) Date/Time B. Whitaker AIR 4/28/11 0830
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 #
Fedex	8667 9282 9875	N/A	Good	Yes No (None)	11045:0

Form 1293 rev.11

Air Toxics LTD.
Laboratory Services Since 1989

5/13/2011
Mr. Scott Bittinger
Stratus Environmental, Inc.
3330 Cameron Park Drive
Suite 550
Cameron Park CA 95682-8861

Project Name: Foothill Mini Mart
Project #:
Workorder #: 1104589

Dear Mr. Scott Bittinger

The following report includes the data for the above referenced project for sample(s) received on 4/29/2011 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 #: 1104589

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. #**	2087-6600-1
FAX:	530-676-6005	**PROJECT #**	Foothill Mini Mart
DATE RECEIVED:	04/29/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	05/13/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SGW-1	Modified TO-15	12.0 "Hg	15 psi
02A	SGW-2	Modified TO-15	9.0 "Hg	15 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 A. Fuman DATE: 05/13/11

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# 1104589

Two 1 Liter Summa Canister samples were received on April 29, 2011. The laboratory performed analysis via modified 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

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 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.

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

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGW-1

Lab ID#: 1104589-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	1.7	3.3	6.3	12
TPH ref. to Gasoline (MW=100)	84	100	340	410

Client Sample ID: SGW-2

Lab ID#: 1104589-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	1.4	8.3	5.4	31
o-Xylene	1.4	1.5	6.3	6.5

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Client Sample ID: SGW-1

Lab ID#: 1104589-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3050727	Date of Collection:	4/28/11 2:25:00 PM
Dil. Factor:	3.37	Date of Analysis:	5/7/11 07:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.7	Not Detected	6.1	Not Detected
Benzene	1.7	Not Detected	5.4	Not Detected
Toluene	1.7	3.3	6.3	12
Ethyl Benzene	1.7	Not Detected	7.3	Not Detected
m,p-Xylene	1.7	Not Detected	7.3	Not Detected
o-Xylene	1.7	Not Detected	7.3	Not Detected
Naphthalene	6.7	Not Detected	35	Not Detected
1,1-Difluoroethane	6.7	Not Detected	18	Not Detected
tert-Butyl alcohol	6.7	Not Detected	20	Not Detected
TPH ref. to Gasoline (MW=100)	84	100	340	410

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: SGW-2

Lab ID#: 1104589-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3050728	Date of Collection:	4/28/11 2:45:00 PM
Dil. Factor:	2.89	Date of Analysis:	5/7/11 07:33 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
Benzene	1.4	Not Detected	4.6	Not Detected
Toluene	1.4	8.3	5.4	31
Ethyl Benzene	1.4	Not Detected	6.3	Not Detected
m,p-Xylene	1.4	Not Detected	6.3	Not Detected
o-Xylene	1.4	1.5	6.3	6.5
Naphthalene	5.8	Not Detected	30	Not Detected
1,1-Difluoroethane	5.8	Not Detected	16	Not Detected
tert-Butyl alcohol	5.8	Not Detected	18	Not Detected
TPH ref. to Gasoline (MW=100)	72	Not Detected	300	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	108	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1104589-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3050708	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/7/11 10:39 AM	

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	101	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: CCV

Lab ID#: 1104589-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3050702	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/7/11 08:10 AM	

Compound	%Recovery
Methyl tert-butyl ether	89
Benzene	94
Toluene	99
Ethyl Benzene	99
m,p-Xylene	98
o-Xylene	97
Naphthalene	90
1,1-Difluoroethane	90
tert-Butyl alcohol	87
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCS

Lab ID#: 1104589-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3050703	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/7/11 08:42 AM	

Compound	%Recovery
Methyl tert-butyl ether	94
Benzene	100
Toluene	99
Ethyl Benzene	102
m,p-Xylene	102
o-Xylene	100
Naphthalene	82
1,1-Difluoroethane	Not Spiked
tert-Butyl alcohol	Not Spiked
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	108	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCSD

Lab ID#: 1104589-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3050704	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/7/11 08:59 AM	

Compound	%Recovery
Methyl tert-butyl ether	94
Benzene	96
Toluene	100
Ethyl Benzene	99
m,p-Xylene	100
o-Xylene	100
Naphthalene	81
1,1-Difluoroethane	Not Spiked
tert-Butyl alcohol	Not Spiked
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	106	70-130

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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

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Page 1 of 1

Project Manager Scott B. Hinyard
Collected by: (Print and Sign) CHILL
Company STantus Email
Address 3330 Cameron Park City Cameron Park State CA Zip 95682
Phone 530676 6004 Fax 530 676 6005

Project Info:
P.O. #
Project #
Project Name Foothill Min. 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	35546	4/28/11	1425	GRO-BTEX-MTBE	29	7		
02A	SGW-2	37359	4/28/11	1445	TBA-1,1 DFA TO-15	25	10		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	4/29/11 0730	B. Schuttenberg AFL	4/29/11 0730
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.		N/A	Good	Yes No (None)	1101585

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 - Pilot Study/ Treatability Report**
Submittal Title:	**inf eff 4-26-11**
Facility Global ID:	**T0600102286**
Facility Name:	**FOOTHILL MINI MART**
File Name:	**11042742_EDF.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**5/16/2011 6:56:55 AM**
Confirmation Number:	**4882064104**

VIEW QC REPORT

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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:	**Influent 4-28-11**
Facility Global ID:	**T0600102286**
Facility Name:	**FOOTHILL MINI MART**
File Name:	**11042941_EDF.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**5/16/2011 6:59:26 AM**
Confirmation Number:	**5427225768**

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UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
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Submittal Type:	**EDF - Pilot Study/ Treatability Report**
Submittal Title:	**Influent 4-26-11**
Facility Global ID:	**T0600102286**
Facility Name:	**FOOTHILL MINI MART**
File Name:	**11050222_EDF.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**5/16/2011 7:03:26 AM**
Confirmation Number:	**4334015846**

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SUCCESS

Processing is complete. No errors were found!
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Submittal Type:	**EDF - Pilot Study/ Treatability Report**
Submittal Title:	**Influent 4-27-11**
Facility Global ID:	**T0600102286**
Facility Name:	**FOOTHILL MINI MART**
File Name:	**11042842_EDF.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**5/16/2011 6:58:14 AM**
Confirmation Number:	**7610959649**

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SUCCESS

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Submittal Type:	**EDF - Remedial Investigation Report**
Submittal Title:	**Soil Gas Samples 1104521**
Facility Global ID:	**T0600102286**
Facility Name:	**FOOTHILL MINI MART**
File Name:	**1104521.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**6/1/2011 2:46:34 PM**
Confirmation Number:	**8999222755**

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Submittal Type:	**EDF - Remedial Investigation Report**
Submittal Title:	**Soil Gas Samples 1104570**
Facility Global ID:	**T0600102286**
Facility Name:	**FOOTHILL MINI MART**
File Name:	**1104570.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**6/1/2011 2:47:21 PM**
Confirmation Number:	**7111543059**

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UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
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Submittal Type:	**EDF - Remedial Investigation Report**
Submittal Title:	**Soil Gas Samples 1104589**
Facility Global ID:	**T0600102286**
Facility Name:	**FOOTHILL MINI MART**
File Name:	**1104589.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**6/1/2011 2:48:13 PM**
Confirmation Number:	**1673918962**

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