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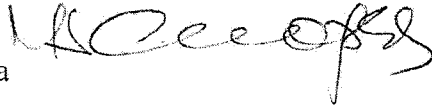
Mr. Mark Detterman  
Alameda County Environmental Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

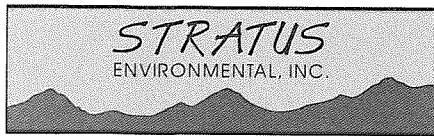
Re: Haber Oil Product  
1401 Grand Avenue, San Leandro, CA  
ACEHD Case # RO0000370, GeoTracker ID T0600101827

Dear Mr. Detterman:

I declare, under penalty of perjury, that the information and or recommendations contained in the attached document are true and correct to the best of my knowledge.

Sincerely,  
Mohan Chopra





3330 Cameron Park Drive, Ste 550  
Cameron Park, California 95682  
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September 21, 2012  
Project No. 2120-1401-01

Mr. Mark Detterman  
Alameda County Environmental Health Department  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(via Geotracker & Alameda County FTP site)

Re: Well Installation and Destruction and Additional Subsurface Site Assessment Report, Former Haber Oil Products Service Station Facility, 1401 Grand Avenue, San Leandro, California (ACEHD Case No. RO0000370)

Dear Mr. Detterman:

Stratus Environmental, Inc. (Stratus), on behalf of Mr. Mohan Chopra, is submitting this *Well Installation and Destruction and Additional Subsurface Site Assessment Report (Report)* for the former Haber Oil Products service station facility, located at 1401 Grand Avenue, San Leandro, California (see Figures 1 through 3). Alameda County Environmental Health Department (ACEHD) currently oversees an environmental case at the subject site relating to previously documented petroleum hydrocarbon and fuel oxygenate impact to soil and groundwater. At the request of ACEHD, Stratus prepared and submitted a document titled *Work Plan for Additional Site Assessment (Work Plan)* on behalf of the subject site (dated April 2, 2012). The *Work Plan* was prepared to address data gaps identified by Stratus in a January 25, 2012 *Site Conceptual Model* prepared for the subject property. After reviewing the content of the *Work Plan*, ACEHD issued a letter, dated May 24, 2012, that approved (with comments) a majority of the scope of work proposed by Stratus.

Stratus recently implemented the approved work scope, which included performing an underground utility survey near the site, advancement of two cone penetrometer test (CPT) borings and one hollow stem auger soil boring, installation of four groundwater monitoring wells and two vapor extraction wells, performance of soil and groundwater sampling, and destruction of two groundwater monitoring wells with excessively lengthy well screen intervals. This report documents the recent work completed at the site, and presents findings associated with implementation of these activities. Stratus also researched the installation of water supply wells within a ¼ mile radius of the site, and information pertaining to these nearby water supply wells is included in this report.

## SITE DESCRIPTION

The former Haber Oil Products facility is an active service station facility located at the intersection of Joaquin Avenue and Grand Avenue in San Leandro, California. The property is currently developed as a mini-mart and automotive service station. The station building is situated along the southern edge of the property, and three fuel dispensers are installed along the western side of the property. Gasoline is stored in one 8,000 gallon and one 12,000 gallon underground storage tank (UST), which are installed in the center of the property adjacent to the dispenser islands (Figure 2). Except for the planters, the entire site is covered by either the station building or concrete paving.

The site is bounded to the west and northwest by Grand Avenue, and to the east by Interstate 580. The property immediately to the south has been developed as an apartment complex. The property immediately to the west (across Grand Avenue) is not currently developed. Properties north of the site are developed for retail use, properties to the west and south are developed for residential use, and properties to the east (across the freeway) are developed for residential use. Except as noted above, virtually all property in the general site vicinity is developed for residential or commercial use.

## PREVIOUS ENVIRONMENTAL WORK

This section summarizes environmental activities performed at the site as part of the investigation into hydrocarbon impact to soil and groundwater due to leaking USTs. The historical summary presented below is based on documents available on the ACEHD website. Locations of soil borings and groundwater monitoring wells are shown on Figure 2. Table 1 presents a summary of historical drilling and well construction details.

**April 1991** – Aegis Environmental, Inc. (Aegis) drilled four soil borings (B-1 through B-4) to 41 feet below ground surface (bgs) on April 24, 1991. Total Petroleum Hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and xylenes (BTEX) were reported in soil samples collected between 25.5 and 36 feet bgs. The highest TPHg (66 milligrams/kilogram [mg/kg]) and benzene (0.94 mg/kg) concentrations were reported in the sample from boring B-2 collected at 25.5 feet bgs.

**April 1992** – Aegis drilled three angled soil borings (B-5 through B-7) on April 14 and 15, 1992. These borings were angled between 26 and 28 degrees from vertical to collect soil samples beneath the USTs. These borings reached a maximum vertical depth of 49 feet bgs. The highest concentrations of TPHg (510 to 4,000 mg/kg) and benzene (0.94 to 11 mg/kg) in each of these borings was reported in samples collected at approximately 40 to 45 feet bgs.

**September 1992** – Aegis installed groundwater monitoring wells MW-1 through MW-5 to depths between 53 and 56 feet bgs on September 15 to 18, 1992. TPHg was reported only in the soil samples from boring MW-2 at 29.5 feet bgs (11 mg/kg) and boring MW-4 at 29.5 feet bgs (1.9 mg/kg). Benzene was reported in at least one soil sample from each boring (0.0062 to 0.27 mg/kg), except MW-5, with the highest benzene concentration reported in the sample collected from MW-4 at 29.5 feet bgs. Select soil samples from below the water table were also analyzed for permeability and grain size distribution. The initial monitoring and sampling of these wells was performed on September 29, 1992. Free product (0.02 feet thick) was reported in well MW-3. TPHg concentrations in wells MW-1, MW-2, MW-4, and MW-5 ranged from 60 to 20,000 micrograms per liter ( $\mu\text{g/L}$ ), and benzene concentrations ranged from 10 to 4,600  $\mu\text{g/L}$ . The highest TPHg and benzene concentrations were reported in well MW-2.

**October 1992** – On October 7, 1992, short-duration soil vapor extraction (SVE) tests were performed, using wells MW-1 and MW-2 for extraction. Depth to water (DTW) was not measured in the well network during the SVE test; during the groundwater sampling event on September 29, 1992, DTW was measured between 41.55 and 44.60 feet bgs.

Soil vapors were extracted from well MW-1 for 2.25 hours under a vacuum of 31.5 to 33 inches water column, producing a calculated airflow of 63 to 91.6 cubic feet per minute (cfm). Influent Total Petroleum Hydrocarbon (TPH) concentrations (measured with a flame ionization detector [FID]) decreased from 11,500 parts per million (ppm) to 8,750 ppm. Calculated extraction rates started at 13.8 pounds per hour (lb/hr) and decreased to 10.6 lb/hr. Measureable vacuum influence was observed at wells MW-2 through MW-5. An influent air sample collected at the end of this test period contained 65,000 ppm TPH and 1,600 ppm benzene.

Soil vapors were extracted from well MW-2 for 2.5 hours under a vacuum of 6 to 7 inches water column, producing a calculated airflow of 48 to 51.2 cfm. Influent soil vapor concentrations (measured with a FID) decreased from 15,250 ppm to 9,250 ppm TPH. Calculated extraction rates started at 9.7 lb/hr and decreased to 6.2 lb/hr. Measureable vacuum influence was observed at wells MW-1, MW-3, and MW-4. An influent air sample collected at the end of this test period contained 60,000 ppm TPH and 2,500 ppm benzene.

Based on the data collected during the SVE test, an estimated radius of influence (ROI) of at least 38 to more than 50 feet was produced.

Rising head slug tests were also performed on October 7, 1992 using wells MW-1, MW-2, and MW-4.

**June 1995** – P&D Environmental, Inc. (P&D) installed offsite wells MW-6, MW-7, and MW-8 to 50 feet bgs. TPHg and BTEX were not reported in any of the soil samples collected from these well borings.

**May 1997** – Bernabe & Brinker, Inc. (B&B) removed one 6,000 gallon gasoline UST, two 7,500 gallon gasoline USTs, one 500 gallon waste oil UST, and associated dispensers and product piping on May 5 and 6, 1997. A 4-inch diameter hole was reported in the bottom of the waste oil UST, and a small hole was observed in the top of the 6,000 gallon gasoline UST. Six soil samples were collected from the UST pit (TP-1 through TP-6) and four soil samples (DP-1 through DP-4) were collected from beneath the dispensers. TPHg (4.5 to 3,400 mg/kg) and benzene (0.012 to 2.8 mg/kg) were reported in eight of these soil samples, and methyl tertiary butyl ether (MTBE; 0.12 to 41 mg/kg) was reported in seven of the samples. Total Petroleum Hydrocarbons as diesel (TPHd; 300 mg/kg), Total Recoverable Petroleum Hydrocarbons (TRPH; 2,600 mg/kg), tetrachloroethene (PCE, 0.029 mg/kg), 1,1,1-trichloroethane (0.026 mg/kg), naphthalene (0.60 mg/kg), and 2-methylnaphthalene (0.65 mg/kg) were reported in sample TP-6, collected beneath the waste oil UST.

To remove hydrocarbon-impacted soil, the UST pit was excavated to depths up to approximately 17.5 feet bgs, and the area beneath the dispensers was deepened to approximately 5.5 feet bgs on May 10, 1997. Ten confirmation soil samples were collected from the furthest vertical and lateral extent of the UST excavation, and two confirmation soil samples were collected from the base of the excavation beneath the dispensers. The two samples with the highest residual hydrocarbon concentrations were collected at 16.5 feet bgs (TP-10; 4,200 mg/kg TPHg) and 12 feet bgs (TP-14; 3,200 mg/kg TPHg).

Approximately 800 cubic yards (yd<sup>3</sup>) of soil and backfill material were excavated during UST removal activities. Excavated material was removed from the site for disposal. The excavations were backfilled with pea gravel as one 8,000 gallon UST and one 12,000 gallon UST and associated product piping and dispensers were installed.

**December 1998** – P&D advanced one direct push boring to 41 feet bgs on December 4, 1998. Soil samples from this boring were not submitted for chemical analysis, but one grab groundwater sample was collected from the boring. This groundwater sample did not contain reportable concentrations of TPHg or MTBE, but did contain benzene (0.54 µg/L).

## **Groundwater Monitoring and Sampling**

Groundwater monitoring and sampling was first performed at the site in September 1992. A total of 32 groundwater monitoring and sampling events were performed between 1992

and the second quarter 2012 (most recent groundwater sampling event). Results of well sampling have indicated that TPHg/gasoline range organics (GRO), BTEX, naphthalene, MTBE, tertiary butyl alcohol (TBA), and several VOCs (most notably n-propyl benzene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene) impact groundwater beneath the site. The highest concentrations of most petroleum hydrocarbons and VOCs have historically been detected near or immediately downgradient of the former UST areas, near former well MW-2 (see Figure 2). Historical groundwater monitoring data was used in the development of the scope of work presented in the *Work Plan*.

## SCOPE OF WORK

The objectives of the recently completed site assessment work were to:

- Further investigate the lateral and vertical extent of petroleum hydrocarbon impact to groundwater.
- Destroy and replace groundwater monitoring wells with excessively long well screens which could potentially function as conduits for vertical contaminant transport.
- Additionally assess geologic conditions beneath the site, in particular below 55 feet bgs, which is deeper than work performed during previous subsurface investigations.
- Identify the location of underground utility corridors near the site.
- Identify the locations of water supply wells installed near the site.
- Install vapor extraction wells for future remedial efforts or pilot testing.

To accomplish these objectives, Stratus implemented the following work activities:

- Utilized the services of an underground utility locator to identify the locations of underground utilities in the site vicinity.
- Advanced two (2) CPT borings (CPT-1 and CPT-2) to depths of 48 and 90 feet bgs, respectively.
- Collected soil and groundwater samples from borings situated adjacent to borings CPT-1 and CPT-2.
- Destroyed wells MW-1 and MW-2 by pressure grouting.
- Drilled and installed replacement groundwater monitoring wells MW-1R and MW-2R using hollow stem augers.

- Drilled and installed two offsite groundwater monitoring wells (MW-9 and MW-10) using hollow stem augers.
- Drilled and installed two vapor extraction wells (VE-1 and VE-2) using hollow stem augers.
- Advanced one onsite soil boring (B-11) using the direct push method.
- Developed and sampled wells MW-1R, MW-2R, MW-9, and MW-10.
- Updated the monitoring well survey for the subject site.
- Performed a records search and field reconnaissance for water supply wells in the site vicinity.

## **WATER SUPPLY WELL SURVEY**

Stratus reviewed well completion records provided by the Department of Water Resources (DWR) and Alameda County Public Works Agency (ACPWA) in order to identify water wells installed within a ¼ mile (1,320 foot) radius of the site. Based on the information available from these agencies, it appears as though three water wells were installed within a ¼ mile radius of the site; the approximate locations of these wells are depicted on Figure 4. One well (map ID #1) was installed at 1400 Morgan Avenue, approximately 600 to 700 feet west of the site. The other two wells (Map ID #2 and #3) were installed approximately 1,300 to 1,400 feet south-southwest and north-northwest of the site, respectively.

Given the locations of these three wells, and our understanding of the subsurface conditions, it appears unlikely that Map ID wells 2 and 3 could be threatened from contaminants originating from the site. The well located at 1400 Morgan Avenue appears to be hydraulically downgradient of the subject property. However, since the 1400 Morgan Avenue well is at least 600 feet from the site, we believe that it is unlikely that site contaminants threaten this well at the present time.

Stratus inspected the areas where all three wells were reportedly installed; however, none of the wells could be visually identified from a general field reconnaissance of the properties where the wells were reportedly drilled.

Due to the confidential nature of DWR well completion logs, Stratus has not provided specific information regarding the wells in this report (as it has been uploaded to both State of California and Alameda County websites that can be accessed by the general public). However, well completion data will be provided to ACEHD upon request.

## FIELD ACTIVITIES

Prior to initiating site assessment activities, a drilling permit was obtained from ACPWA and an encroachment permit was secured from the City of San Leandro. Underground Service Alert, the current service station operator, the City of San Leandro, ACPWA, and ACEHD were notified 48 hours prior to beginning work activities. All work was conducted under the direct supervision of a State of California Registered Professional Geologist. A generalized description of the field practices and procedures utilized during this investigation are described in Appendix A. Copies of the drilling permit and encroachment permit are provided in Appendix B.

### Underground Utility Locating

Before initiating drilling and CPT boring work, a Stratus representative was onsite with a representative of OHJ Subsurface, Inc. in order to identify the locations of underground utilities in the site vicinity. The utility locating was performed before the subsurface investigation in order to assist in minimizing potential conflicts of the drilling locations with underground improvements. Figure 5 illustrates the approximate locations of known underground utilities in the site vicinity.

In the May 24, 2012 letter, ACEHD mentions the possibility that underground utility corridors may act as preferential conduits for migration of contaminants. Evaluating the possibility that contaminants may be present near utility corridors was outside of the scope of work completed during this phase of investigation, as no soil vapor samples or under-utility trench soil samples were collected. In the May 24, 2012 letter, ACEHD directed Stratus to postpone soil vapor sampling work that was proposed in the *Work Plan*. If utility trench soil vapor sampling is deemed necessary in the future by ACEHD, Stratus would likely incorporate this work with soil vapor sampling work proposed for other areas of the site (around the perimeter of the station building foundation to assess indoor air exposure risk).

### CPT Investigation

A Stratus geologist was on-site to oversee Gregg Drilling and Testing, Inc. (GD&T, C-57 #485165) of Martinez, California, complete CPT testing and direct push soil and groundwater sampling on June 28 and 29, 2012. The CPT method consists of advancing a cone-tipped cylindrical probe (1.7 inches in diameter) into the ground while simultaneously measuring the resistance to penetration. The CPT method estimates soil lithology by comparing the force (cone bearing pressure) required to advance the probe ( $Q_t$ ) to the friction ratio ( $R_f$ ) [ $R_f$  equals sleeve friction ( $F_s$ ) divided by the probe tip load times the penetration pore pressure ( $U_d$ )]. Graphical diagrams illustrating CPT interpretations of soil types are presented in Appendix C. Computer generated CPT logs were plotted in the field



to provide a graphical log of subsurface soil lithology. CPT tests were performed in accordance with American Society of Testing and Materials (ASTM) Method D3441. Information regarding the CPT profiling technique and equipment from Gregg In-Situ, Inc. is included in Appendix C. The locations of the CPT borings are included on Figure 2. GD&T was unable to advance the CPT-1 profiling boring beyond 48 feet bgs due to tight soil conditions. Boring CPT-2 was advanced to 90 feet bgs, as proposed in the April 2012 *Work Plan*. Following advancement to total depth, each borehole was grouted to surface grade.

Soil and groundwater samples were collected from separate borings, directly adjacent to borings CPT-1 and CPT-2. The water samples were collected using a Hydropunch™ sampler, and soil samples were collected using a piston sampler equipped with two 6-inch length by 1.25-inch width stainless steel sleeves. The water samples were collected by pushing the Hydropunch™ sampler, with 2-inch diameter steel rods, to the base of the desired sampling interval. The CPT operator subsequently pulled up on the steel rods approximately 3 feet, exposing a poly-vinyl chloride (PVC) screen at the desired sampling interval. The groundwater sample was collected by lowering a metal bailer within the steel rods. Groundwater was collected in the bailer and placed in appropriately preserved glass sample containers (voas). Soil samples were collected by driving the piston sampler into native soil at the desired 12-inch length sampling interval. Illustrations of the Hydropunch™ sampler and piston sampler are also provided in Appendix C.

Following collection, the soil and groundwater samples were placed in an ice-chilled cooler. Each sample was appropriately labeled and identified on a chain-of-custody form. Soil and groundwater sampling intervals at the CPT-1 and CPT-2 locations are documented on sampling logs that are provided in Appendix C. The sampling logs also provide a description of the soil types observed in each sample; the Unified Soil Classification System was used to describe each soil sample. The CPT profiling logs and sampling logs have been uploaded to the State of California's Geotracker website; confirmation sheets documenting uploading of these boring/sampling logs are provided in Appendix H.

## **Soil Boring and Well Installation**

### Soil Borings

A Stratus geologist was onsite to oversee GD&T complete the drilling activities between July 9 and 12, 2012. The soil and well borings were advanced using a limited access hollow stem auger drilling rig or truck mounted drill rig, equipped with 8-inch or 10-inch diameter hollow stem augers, as appropriate. Six of the seven borings were converted to groundwater monitoring or vapor extraction wells, as described below. After advancement

to total depth, boring B-11 was backfilled to surface grade with neat cement. The approximate locations of wells VE-1, VE-2, MW-1R, MW-2R, MW-9, and MW-10, and boring B-11 are depicted on Figure 2. Details regarding the construction of the six wells are included on Table 1.

The initial 5 feet of the well borings were advanced with hand tools to reduce the possibility of damaging underground utilities. Soil samples were collected from boreholes MW-9 and MW-10 using a California-type split-spoon sampler equipped with three pre-cleaned brass tubes. Soil samples were collected from the onsite borings (MW-1R, MW-2R, B-11, VE-1, and VE-2) using 4-foot length by 1.5-inch diameter or 5-foot length by 2.5-inch diameter acetate liners installed within a direct push coring device. The ends of the brass sleeves and plastic liners (cut to approximately 6-inch length) were lined with Teflon™ sheets, capped, and sealed. Each sample was labeled, placed in a resealable plastic bag, and stored in an ice-chilled cooler. Strict chain-of-custody procedures were followed from the time the samples were collected until the time the samples were relinquished to the laboratory. Soils were classified onsite using the Unified Soil Classification System. Boring logs detailing soil and rock lithologies encountered during this investigation are included in Appendix D. The boring logs were also uploaded to Geotracker (GeoBore); confirmation sheets documenting uploading of these boring logs are provided in Appendix H.

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

#### Vapor Extraction Well Installation

Wells VE-1 and VE-2 were constructed through 8-inch diameter hollow stem augers using 2-inch diameter schedule 40 PVC well casing and 15 feet of 0.02-inch diameter well screen, extending from approximately 15 to 30 feet bgs. A filter pack of #3 sand was placed in the annular space around the well screen from the bottom of the borehole to approximately 2 feet above the top of the well screen. Approximately 2 feet of bentonite was placed on top of the filter pack and hydrated with clean water to provide a transition seal for the well. The remaining annular space in the borehole was backfilled with neat cement. A traffic rated vault box was placed over the well, and a watertight locking cap was placed on the top of the well casing. DWR well completion forms for wells VE-1 and VE-2 were completed and submitted.

### Monitoring Well Installation

Wells MW-1R, MW-9, and MW-10 were constructed through 8-inch diameter hollow stem augers using 2-inch diameter schedule 40 PVC well casing and well MW-2R was constructed through 10-inch diameter hollow stem augers using 4-inch diameter schedule 40 PVC well casing. Each well was constructed using 10-feet of factory slotted well screen; wells MW-1R and MW-2R were screened from approximately 34 to 44 feet bgs, well MW-9 was screened from approximately 37 to 47 feet bgs, and well MW-10 was screened from approximately 35 to 45 feet bgs. A filter pack of #3 sand was placed in the annular space around the well screen from the bottom of the borehole to approximately 2 feet above the top of the well screen. Approximately 2 feet of bentonite was placed on top of the filter pack and hydrated with clean water to provide a transition seal for the well. The remaining annular space in the borehole was backfilled with neat cement. A traffic rated vault box was placed over each well, and a watertight locking cap was placed on the top of the well casing. DWR well completion forms were prepared and submitted for wells MW-1R, MW-2R, MW-9, and MW-10.

### Monitoring Well Destruction

GD&T destroyed wells MW-1 and MW-2 on July 12, 2012. Both wells were pressure grouted with neat cement. The upper five feet of well MW-2 was also overdrilled with a hollow stem auger. Due to the close proximity of a UST, the upper five feet of well MW-1 was not overdrilled. The traffic rated vault covers of wells MW-1 and MW-2 were removed after destruction and the ground surface was patched to match the surrounding concrete driving surface. DWR well destruction notices were prepared and submitted for wells MW-1 and MW-2.

### Well Development and Sampling

Stratus personnel developed the newly installed monitoring wells on July 24, 2012, by surging and bailing. Groundwater pumping was also used in the development of 4-inch diameter well MW-2R. Development was completed until the extracted groundwater appeared free of suspended sediment, or bailed/pumped dry. Stratus returned to the site on August 9, 2012, to sample newly installed wells MW-9, MW-10, MW-1R, and MW-2R. Following purging, a sample of the groundwater was collected using a disposable bailer, transferred to laboratory supplied containers, labeled, placed in an ice-chilled cooler, and identified on a chain-of-custody form. Field data sheets documenting the well development and sampling events are presented in Appendix E.

## Surveying

Morrow Surveying, Inc. of West Sacramento, California, surveyed the elevations and locations of the newly constructed wells, and borings CPT-1, CPT-2, and B-11, under the direction of a State of California professional land surveyor (P.L.S. No. 5161). Well elevations were established to the nearest 0.01 vertical feet and tied to a previous survey performed at the site. Latitudes and longitudes of all wells were established using the Global Positioning System (GPS). California State Plane Coordinates, latitudes and longitudes of the wells, and well elevations are included on the surveyor's map presented in Appendix F. It should be noted that at the time of the well survey, Morrow Surveying personnel were unable to remove the well cap situated on top of well MW-10; thus the reported well elevation is for the top of the well cap, and not the top of the well casing (as was done for the other wells). This will be corrected during the fourth quarter 2012. Well survey data was forwarded to the California State Water Resources Control Board for inclusion in the Geotracker database (see Appendix H for documentation).

## Waste Management

Soil and wastewater generated during the investigation were containerized in steel drums and stored onsite pending disposal. A sample of the soil cuttings was collected and chemically analyzed in order to determine an appropriate disposal facility for this waste material. Integrated Wastestream Management of San Jose transported the drums offsite for proper disposal in August 2012. Waste disposal certificates will be forwarded to ACEHD upon receipt.

## **Analytical Methods**

Soil and groundwater samples were forwarded to Alpha Analytical, Inc., a California state-certified laboratory (ELAP #2019), for chemical analysis under strict chain-of-custody procedures. The samples were analyzed for GRO using USEPA Method SW8015B, and for fuel oxygenates using United States Environmental Protection Agency (USEPA) Method SW8260B. Soil samples collected from boring B-11, and soil and groundwater samples collected from boring CPT-1, were also analyzed for diesel and oil range organics (DRO and ORO, with silica gel treatment) using USEPA Method SW8015B, and for VOCs using USEPA Method SW8260B. The groundwater samples collected from wells MW-9, MW-10, MW-1R, MW-2R, and CPT-2 were also analyzed for VOCs using USEPA Method SW8260B. A summary of soil analytical results are presented in Table 2 and a summary of groundwater analytical results are provided in Table 3. Certified analytical reports and chain-of-custody documentation are provided in Appendix G. The certified analytical reports prepared by Alpha Analytical have been uploaded to the State of California's Geotracker database; upload confirmation documentation for these lab results are included in Appendix H.

## Findings

### Site Geology and Hydrogeology

Graymer<sup>1</sup> describes the sedimentary deposit upon which the site is situated as loose, moderately sorted to well sorted sandy or clayey silt, grading to sandy or silty clay, originating as levee deposits bordering stream channels. Other sediments in the site vicinity are described as medium dense to dense, gravely sand or sandy gravel that grades upwards to sandy or silty clay, originating as alluvial fan and fluvial deposits. Based on the Graymer map, it appears that the subject site is located immediately west of the Hayward Fault, near where the East Bay Plain meets the San Leandro Hills.

Based on a review of boring logs prepared during historical site work, and the findings of work during this phase of investigation, a predominantly fine-grained sedimentary deposit overlies a coarser-grained sedimentary deposit in the shallow subsurface. The fine-grained sediments are described predominantly as silty clay, silt, clayey silt, and sandy silt from below the paved ground surface to approximately 30 to 35 feet bgs. At offsite locations MW-6, MW-7, MW-10, and CPT-2, significant coarse grained soils are interbedded within finer grained strata between 10 and 30 feet bgs. Coarser grained soils (silty sand, clayey sand, sand, silty gravel, clayey gravel) are predominately encountered between approximately 30 and 50 feet bgs, although finer grained soils are interbedded within these coarser grained strata. Groundwater is first encountered within these coarser grained soils. Based on data collected from borings CPT-1 and CPT-2, sandy clay strata, approximately 7 to 12 feet in thickness, is present between the depths of approximately 48 and 65 feet bgs. The lateral extent of this sandy clay interval has not been thoroughly assessed; however, these strata appear to provide some hydraulic segregation between the uppermost water bearing strata and deeper saturated soils, based on our interpretation of available data. Samples collected between 70 and 90 feet bgs at borings CPT-1 and CPT-2 were logged by Stratus personnel as clayey sand, and these soils may represent the second water bearing interval at the site; further study regarding the thickness and lateral extent of the sandy clay strata located above the clayey sand soils would be needed to assess whether the clayey sand represents the second water bearing interval at the site. A geologic cross section for the site that includes data collected during this phase of investigation is provided as Figure 6; the surface trace for the cross section is depicted on Figure 2.

Depth to groundwater, as measured in the monitoring well network, has fluctuated from approximately 31.6 to 44.6 feet bgs. At the time of the second quarter 2012 groundwater

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<sup>1</sup> *Geologic map and map database of the Oakland metropolitan area, Alameda, Contra Costa, and San Francisco Counties, California*: R.W. Graymer, US Geological Survey Miscellaneous Field Studies MF-2342, version 1.0, dated 2000.

monitoring event, groundwater in the well network was measured between 37.16 and 40.34 feet below top of well casing. Groundwater flow has consistently been calculated to be towards the west-northwest. Groundwater elevations have generally increased at the site since initiation of monitoring in 1992.

### Soil Analytical Results

Onsite, no petroleum hydrocarbons, fuel oxygenates, or VOCs were detected in any of the soil samples collected between surface grade and 25 feet bgs, and the highest concentrations of contaminants were typically observed at approximately 30 feet bgs. At boring B-11, GRO and DRO were reported at levels of 8,000 mg/Kg and 140 mg/Kg, respectively, in a soil sample retained from 30 feet bgs (the lab noted that the reported DRO concentration may include contributions from lighter end hydrocarbons). The 30-foot depth soil sample from B-11 was also impacted with ethylbenzene (44 mg/Kg), xylenes (350 mg/Kg), isopropyl benzene (12 mg/Kg), n-propyl benzene (61 mg/Kg), sec-butylbenzene (20 mg/Kg), n-butyl benzene (36 mg/Kg), 1,3,5-trimethylbenzene (170 mg/Kg), 1,2,4-trimethylbenzene (440 mg/Kg), 4-isopropyltoluene (29 mg/Kg), and naphthalene (100 mg/Kg). Significantly lower concentrations of petroleum hydrocarbons and VOCs were observed in the 35-foot depth sample collected from boring B-11 versus the contaminant levels noted at 30-foot bgs. At boring CPT-1, GRO (8.4 mg/Kg), iso-propyl benzene (0.044 mg/Kg), n-propyl benzene (0.23 mg/Kg), sec-butyl benzene (0.065 mg/Kg), and n-butyl benzene (0.12 mg/Kg) were detected in the 30-foot depth sample. No petroleum hydrocarbons, VOCs, or fuel oxygenates were detected in CPT-1 soil samples collected between 40 and 90 feet bgs; given this observation, we believe that the vertical extent of petroleum hydrocarbon impact to soil onsite is adequately assessed.

At borings MW-2R and VE-1, GRO and benzene were detected in soil samples retained from 30 feet bgs at concentrations of 2.3 mg/Kg and 0.0059 mg/Kg, respectively (MW-2R) and 8.2 mg/Kg and 0.015 mg/Kg, respectively (VE-1). MTBE was detected in soil samples collected from boring MW-1R between 30 and 40 feet bgs, at concentrations ranging from 0.15 mg/Kg to 0.79 mg/Kg, from boring MW-2R at 40 feet bgs (0.032 mg/Kg), from boring VE-1 at 30 feet bgs (0.26 mg/Kg), and from boring B-11 at 35 feet bgs (0.012 mg/Kg).

Toluene (0.026 mg/Kg) and total xylenes (0.021 mg/Kg) were reported in a sample collected from offsite boring MW-9 at approximately 11 feet bgs. No petroleum hydrocarbons or fuel oxygenates were detected in soil samples collected from offsite borings CPT-2 or MW-10, or in samples collected from well boring MW-9 between 21 and 45 feet bgs.

### Groundwater Analytical Results

Petroleum hydrocarbons, fuel oxygenates, and VOCs were reported in samples collected from onsite wells MW-1R and MW-2R, which were installed in areas previously known to be impacted with the above-mentioned contaminants. GRO and MTBE were reported in the samples collected from both wells MW-1R and MW-2R, at concentrations of 4,000 µg/L and 63 µg/L, respectively, at well MW-1R, and 30,000 µg/L and 340 µg/L, respectively, in the MW-2R sample. BTEX (benzene at 1,500 µg/L) were also detected at well MW-2R. In the MW-1R sample, isopropyl benzene (6.6 µg/L), n-propylbenzene (19 µg/L), sec-butylbenzene (17 µg/L), 4-isopropyltoluene (4.4 µg/L), n-butyl benzene (17 µg/L), ethylbenzene (4.6 µg/L), xylenes (1.4 µg/L), and tertiary amyl methyl ether (TAME ;5.3 µg/L) were also detected. In the sample collected from well MW-2R, n-propylbenzene (190 µg/L), 1,3,5 trimethylbenzene (260 µg/L) 1,2,4 trimethylbenzene (1,300 µg/L), and naphthalene (220 µg/L) were detected.

Boring CPT-1 was advanced approximately 12 feet from well MW-2R and generally downgradient of the former UST area. In samples collected from this boring, only MTBE (1.1 µg/L) and tertiary butyl alcohol (TBA; 100 µg/L) were detected from groundwater recovered at about 56 feet bgs. In samples collected from about 66, 76, and 80 feet bgs, no petroleum hydrocarbons, fuel oxygenates, or VOCs were detected. Given the results of the CPT-1 samples, it is our opinion that the vertical extent of contaminant impact to groundwater extends to approximately 60 feet bgs and has been adequately assessed at the site.

Northwest (generally downgradient) of the site, concentrations of petroleum hydrocarbons, fuel oxygenates, and VOCs were below laboratory instrument detection levels in samples collected at boring CPT-2 from approximately 48, 58, 68, and 85 feet bgs. At well MW-9, benzene, PCE, and dichloromethane were detected at concentrations of 1.1 µg/L, 2.7 µg/L, and 2.4 µg/L, respectively. In a sample collected from well MW-10, PCE (1.0 µg/L) and chloroform (1.2 µg/L) were the only analytes detected during laboratory testing. Based on the findings of the CPT-2 samples, and initial sampling of wells MW-9 and MW-10, we believe that the lateral and vertical extent of impact to groundwater is sufficiently assessed northwest of the site.

### **SUMMARY**

The following summarizes the findings of this phase of investigation:

- Subsurface conditions deeper than approximately 55 feet bgs were first investigated during this phase of work. Sandy clay strata, approximately 7 to 12 feet in thickness between about 48 and 65 feet bgs, appear to provide some hydraulic

segregation between the uppermost water bearing strata and deeper saturated soils, based on the available data. Clayey sand soils were observed in samples collected between 70 and 90 feet bgs, and may represent the second water bearing zone at the site.

- At the onsite drilling locations, the highest concentrations of fuel contaminants in soil were observed between approximately 30 and 40 feet bgs, with a maximum GRO concentration of 8,000 mg/Kg detected in a sample collected from boring B-11 at 30 feet bgs.
- At boring CPT-1, relatively low levels of MTBE (1.1 µg/L) and TBA (100 µg/L) were detected in a sample collected from 56 feet bgs. Fuel contaminants were not reported in samples collected from CPT-1 at 66, 76, and 80 feet bgs; given this observation, it is our opinion that the vertical extent of impact to groundwater is adequately assessed, and does not appear to extend to the second water bearing zone.
- Very low levels of benzene (1.1 µg/L), PCE (up to 2.7 µg/L), dichloromethane (2.4 µg/L) and chloroform (1.2 µg/L) were reported in samples collected from offsite wells MW-9 or MW-10; with all other analytes reported below laboratory detection limits in these samples. Given this observation, and that no petroleum hydrocarbons, VOCs, or fuel oxygenates were detected in samples collected at offsite location CPT-2, the vertical and lateral extent of impact northwest (downgradient) of the site appears to be adequately characterized.
- A water supply well appears to have been installed approximately 600 to 700 feet west of the site, at 1400 Morgan Avenue. Given the apparent extent of impact identified during this phase of work, it appears unlikely that this water supply well will be threatened from contaminants originating from the site; however, the current condition and operational status of this well is not known.

## DISCUSSION AND RECOMMENDATIONS

Based on the available data, most of the contaminant mass originating from the site remains onsite, or extends a short distance west-northwest of the site beneath Grand Avenue, and has been adequately characterized. Given this condition, Stratus recommends that future project work focus on performing activities, including pilot testing and remediation, as necessary, in order to manage the site's environmental case towards closure.

Pending approval from ACEHD, Stratus will proceed with preparing a work plan to perform an SVE pilot test/remediation event. In addition to utilizing wells VE-1 and VE-2, extracting contaminants from wells screened deeper in the subsurface (approximately 30 to



45 feet bgs) would likely be appropriate for reducing petroleum hydrocarbon mass beneath the site. Groundwater level fluctuations may limit the effectiveness of SVE below about 30 feet bgs at times of seasonally high groundwater levels, and thus the SVE pilot test/remediation event should be performed at times of seasonally low groundwater levels to maximize the effectiveness of this work. Due to the presence of VOCs within the subsurface, in particular near the former waste oil UST, a thermal oxidizer would be needed to perform SVE work. Due to the higher temperatures necessary to properly consume/abate some VOCs, including PCE, to levels required by the Bay Area Air Quality Management District, use of a catalytic oxidizer is not recommended at this site.

In order to verify that there are no groundwater receptors likely to be impacted from contaminants originating from the site, Stratus recommends contacting the property owner at 1400 Morgan Avenue in order to inquire about the status of this water supply well.

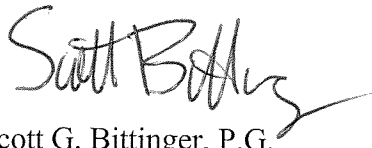
## **LIMITATIONS**

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.

September 21, 2012

Please contact Steve Carter at (530) 676-6008, or via electronic mail at [scarter@stratusinc.net](mailto:scarter@stratusinc.net), if you have any questions regarding this document or the project in general.

Sincerely,  
*STRATUS ENVIRONMENTAL, INC.*



Scott G. Bittinger, P.G.  
Project Geologist



Stephen J. Carter, P.G.  
Project Manager



Attachments:

Table 1	Summary of Drilling and Well Construction Details
Table 2	Soil Analytical Results
Table 3	Groundwater Analytical Results
Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Site Vicinity Aerial Map
Figure 4	Water Supply Well Location Map
Figure 5	Underground Utility Location Map
Figure 6	Geologic Cross Section A to A'
Appendix A	Field Practices and Procedures
Appendix B	Drilling Permit and Encroachment Permit
Appendix C	CPT Data and Sampling Logs
Appendix D	Soil Boring Logs and Well Details
Appendix E	Field Data Sheets from Well Development and Sampling
Appendix F	Surveyor's Map
Appendix G	Certified Analytical Reports and Chain-of-Custody Documentation
Appendix H	Geotracker Data Upload Confirmation Sheets

cc: Mr. Mohan Chopra

**Table 1 - Summary of Drilling and Well Construction Details**

Former Haber Oil Products, 1401 Grand Avenue, San Leandro, CA

Well/ Boring ID	Date	Boring Diameter (in)	Boring Depth (ft bgs)	Casing Diameter (in)	Casing Depth (ft bgs)	Screen Interval (ft bgs)	Slot size (in)	Drilling Method	Consultant	Status
<i>Groundwater Monitoring Wells</i>										
MW-1	9/15/92	10	53	4	53	15 - 53	0.02	HSA	Aegis	destroyed July 2012
MW-2	9/15/92	10	53	4	53	15 - 53	0.02	HSA	Aegis	destroyed July 2012
MW-3	9/16/92	10	56	4	56	36 - 56	0.02	HSA	Aegis	Active
MW-4	9/18/92	10	53.5	4	53.5	33 - 53.5	0.02	HSA	Aegis	Active
MW-5	9/17/92	10	56	4	56	36 - 56	0.02	HSA	Aegis	Active
MW-6	6/15/95	8	50	2	50	35 - 50	0.01	HSA	P&D	Active
MW-7	6/16/95	8	50	2	50	35 - 50	0.01	HSA	P&D	Active
MW-8	6/15/95	8	50	2	50	35 - 50	0.01	HSA	P&D	Active
MW-9	7/9/12	8	48	2	47	37 - 47	0.02	HSA	Stratus	Active
MW-10	7/12/12	8	45	2	45	35 - 45	0.02	HSA	Stratus	Active
MW-1R	7/11/12	8	45	2	44	34 - 44	0.02	HSA	Stratus	Active
MW-2R	7/11/12	10	44	4	44	34 - 44	0.02	HSA	Stratus	Active
<i>Vapor Extraction Wells</i>										
VE-1	7/9/12	8	30	2	30	15 - 30	0.02	HSA	Stratus	Active
VE-2	7/12/12	8	30	2	30	15 - 30	0.02	HSA	Stratus	Active
<i>Exploratory Soil Borings</i>										
B-1	4/24/91	8	41					HSA	Aegis	Grouted to Surface
B-2	4/24/91	8	41					HSA	Aegis	Grouted to Surface
B-3	4/24/91	8	41					HSA	Aegis	Grouted to Surface
B-4	4/24/91	8	41					HSA	Aegis	Grouted to Surface
B-5	4/14/92	6	48.8			(Angle boring: 55.5 feet long at 28° from vertical.)		HSA	Aegis	Grouted to Surface
B-6	4/15/92	6	48.4			(Angle boring: 55 feet long at 28° from vertical.)		HSA	Aegis	Grouted to Surface
B-7	4/15/92	6	49.4			(Angle boring: 55 feet long at 26° from vertical.)		HSA	Aegis	Grouted to Surface
B-10	12/4/98	1.5	41					DP	P&D	Grouted to Surface
B-11	7/9/12	2	38					DP	Stratus	Grouted to Surface
CPT-1	06/29/12	2	48*					CPT	Stratus	Grouted to Surface
CPT-2	06/28/12	2	90*					CPT	Stratus	Grouted to Surface

## Table 1 - Summary of Drilling and Well Construction Details

Former Haber Oil Products, 1401 Grand Avenue, San Leandro, CA

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Explanation:

in = inches

ft bgs = feet below ground surface

\* = Depth of lithologic profiling boring. Separate soil and groundwater sampling borings were advanced adjacent to CPT borings.

HSA = Hollow-stem augers

CPT = Cone Penetrometer Test

DP = Direct Push

Aegis = Aegis Environmental, Inc.

P&D = P&D Environmental, Inc.

Stratus = Stratus Environmental, Inc.

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**TABLE 2**  
**SOIL ANALYTICAL RESULTS**  
 Haber Oil Products Facility  
 1401 Grand Avenue, San Leandro, California

Sample ID	Depth (Feet bgs)	Date Collected	DRO (mg/Kg)	ORO (mg/Kg)	GRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	Fuel oxy's & additives (except MTBE) (mg/Kg)	Iso-propyl benzene (mg/Kg)	n-propyl benzene (mg/Kg)	sec-butyl benzene (mg/Kg)	n-butyl benzene (mg/Kg)	1,3,5 Tri-methyl-benzene (mg/Kg)	1,2,4 Tri-methyl-benzene (mg/Kg)	4-Isopropyl toluene (mg/Kg)	Naphthalene (mg/Kg)
<b>Well Boring Samples</b>																			
<b>Boring MW-1R</b>																			
MW-1R-10	10	07/09/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-1R-15	15	07/09/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-1R-20	20	07/09/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-1R-25	25	07/09/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-1R-30	30	07/09/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-1R-35	35	07/09/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<b>0.15</b>	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-1R-40	40	07/09/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<b>0.79</b>	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-1R-40	40	07/09/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<b>0.58</b>	ND	NA	NA	NA	NA	NA	NA	NA	NA
<b>Boring MW-2R</b>																			
MW-2R-10	10	07/12/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-2R-15	15	07/12/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-2R-20	20	07/12/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-2R-25	25	07/12/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-2R-30	30	07/12/12	NA	NA	<b>2.3</b>	<b>0.0059</b>	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-2R-35	35	07/12/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-2R-40	40	07/12/12	NA	NA	<1.0	0.022	<0.005	<b>0.023</b>	<b>0.023</b>	<b>0.032</b>	ND	NA	NA	NA	NA	NA	NA	NA	NA
<b>Boring VE-1</b>																			
VE-1-15	15	07/09/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
VE-1-20	20	07/09/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
VE-1-25	25	07/09/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
VE-1-30	30	07/09/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<b>0.26</b>	ND	NA	NA	NA	NA	NA	NA	NA	NA
<b>Boring VE-2</b>																			
VE-2-10	10	07/12/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
VE-2-15	15	07/12/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
VE-2-20	20	07/12/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
VE-2-25	25	07/12/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
VE-2-30	30	07/12/12	NA	NA	<b>8.2</b>	<b>0.015</b>	<0.005	<b>0.0071</b>	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
<b>Boring MW-9</b>																			
MW-9-11	11	07/11/12	NA	NA	<4.0**	<0.02**	<b>0.026</b>	<0.02**	<b>0.021</b>	<0.02**	ND**	NA	NA	NA	NA	NA	NA	NA	NA
MW-9-21	21	07/11/12	NA	NA	<2.0**	<0.01**	<0.01**	<0.01**	<0.01**	<0.01**	ND/ND**	NA	NA	NA	NA	NA	NA	NA	NA
MW-9-31	31	07/11/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-9-36	36	07/11/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-9-41	41	07/11/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-9-45	45	07/11/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA

**TABLE 2**  
**SOIL ANALYTICAL RESULTS**  
 Haber Oil Products Facility  
 1401 Grand Avenue, San Leandro, California

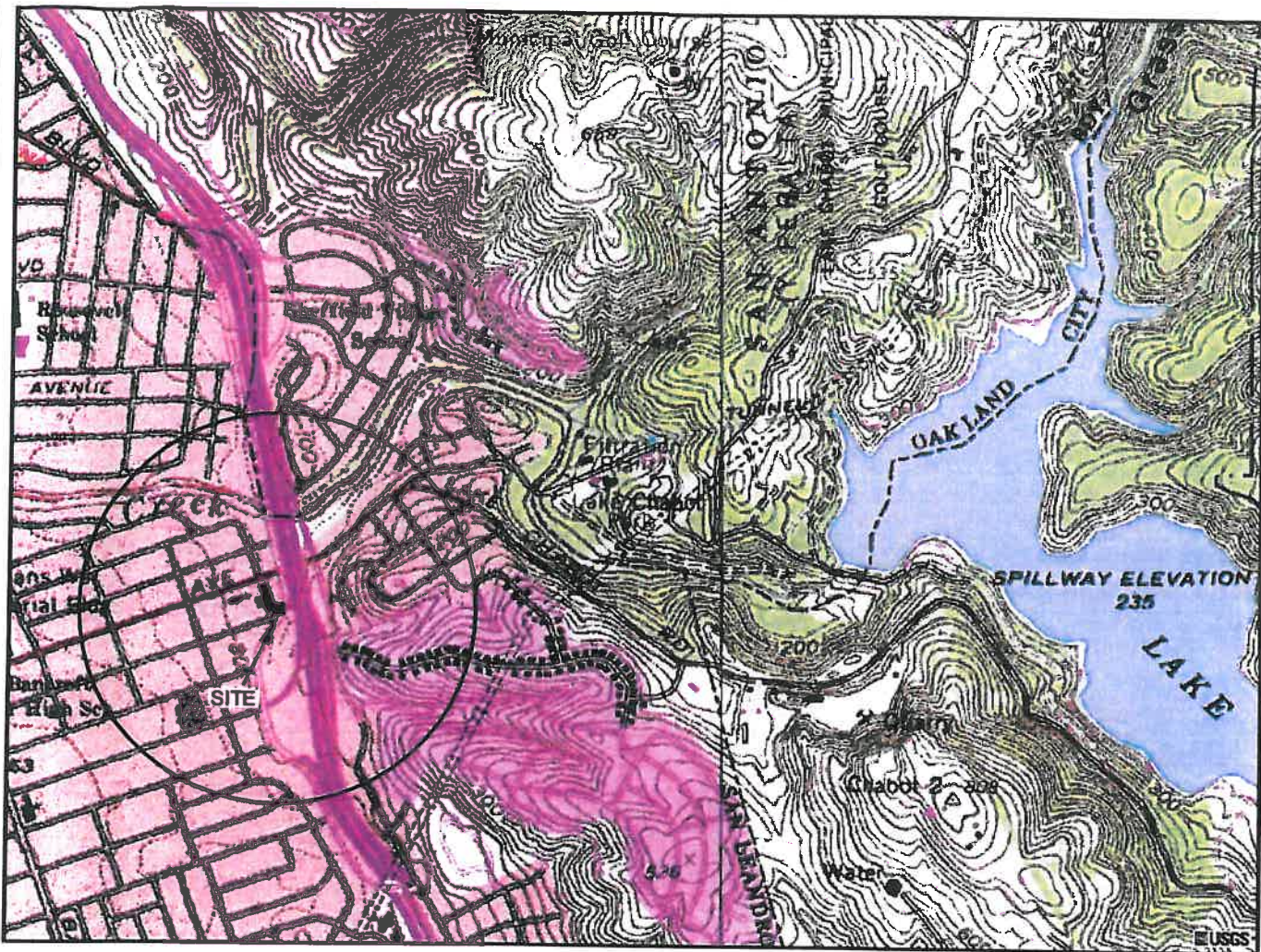
Sample ID	Depth (Feet bgs)	Date Collected	DRO (mg/Kg)	ORO (mg/Kg)	GRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	Fuel oxy's & additives (except MTBE) (mg/Kg)	Iso-propyl benzene (mg/Kg)	n-propyl benzene (mg/Kg)	sec-butyl benzene (mg/Kg)	n-butyl benzene (mg/Kg)	1,3,5 Tri-methyl-benzene (mg/Kg)	1,2,4 Tri-methyl-benzene (mg/Kg)	4-Isopropyl toluene (mg/Kg)	Naphthalene (mg/Kg)
<b>Boring MW-10</b>																			
MW-10-11	11	07/11/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-10-21	21	07/11/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-10-26	26	07/11/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-10-36	36	07/11/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
MW-10-40	40	07/11/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
<b>Exploratory Boring Samples</b>																			
<b>Boring B-11</b>																			
B-11-10	10	07/09/12	<5.0	<10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
B-11-15	15	07/09/12	<5.0	<10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
B-11-20	20	07/09/12	<5.0	<10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
B-11-25	25	07/09/12	<5.0	<10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
B-11-30	30	07/09/12	<b>140*</b>	<10	<b>8,000</b>	<2.0***	<2.0***	<b>44</b>	<b>350</b>	<2.0***	ND***	<b>12</b>	<b>61</b>	<b>20</b>	<b>36</b>	<b>170</b>	<b>440</b>	<b>29</b>	<b>100</b>
B-11-35	35	07/09/12	<5.0	<10	<b>1.3</b>	<0.005	<0.005	<b>0.015</b>	<b>0.103</b>	<b>0.012</b>	ND	<0.02	<0.02	<0.02	<0.02	<b>0.026</b>	<b>0.099</b>	<0.02	<0.04
<b>Boring CPT-1</b>																			
CPT-1-10-S	10	06/29/12	<5.0	<10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04
CPT-1-20-S	20	06/29/12	<5.0	<10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04
CPT-1-30-S	30	06/29/12	<5.0	<10	<b>8.4</b>	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<b>0.044</b>	<b>0.23</b>	<b>0.065</b>	<b>0.12</b>	<0.02	<0.02	<0.02	<b>0.28</b>
CPT-1-40-S	40	06/29/12	<5.0	<10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04
CPT-1-50-S	50	06/29/12	<5.0	<10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04
CPT-1-60-S	60	06/29/12	<5.0	<10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04
CPT-1-70-S	70	06/29/12	<5.0	<10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04
CPT-1-80-S	80	06/29/12	<5.0	<10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04
CPT-1-90-S	90	06/29/12	<5.0	<10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04
<b>Boring CPT-2</b>																			
CPT-2-40-S	40	06/28/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
CPT-2-50-S	50	06/28/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
CPT-2-60-S	60	06/28/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
CPT-2-70-S	70	06/28/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA
CPT-2-80-S	80	06/28/12	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	NA	NA	NA	NA	NA	NA	NA	NA

**Notes:**  
 Concentrations of volatile organic compounds (VOCs) not included on this table were reported below laboratory instrument detection levels.  
 DRO = Diesel range organics with silica gel treatment  
 ORO = Oil range organics with silica gel treatment  
 GRO = Gasoline range organics  
 MTBE = Methyl tertiary butyl ether  
 Feet bgs = feet below ground surface  
 mg/Kg = milligrams per kilogram  
 ND = non-detectable (The VOCs have various detection limits for the suite of compounds.)  
 NA = Not analyzed  
 \* = DRO concentration may include contributions from lighter-end hydrocarbons that elute in the DRO range.  
 \*\* = Reporting limits were increased due to sample foaming.  
 \*\*\* = Reporting limits were increased due to high concentrations of target analytes.

Analysis:  
 DRO, ORO, and GRO analyzed by EPA Method 8015B; all remaining analytes analyzed by EPA Method 8260B.

**TABLE 3**  
**GROUNDWATER ANALYTICAL RESULTS**  
Haber Oil Products Facility  
1401 Grand Avenue, San Leandro, California

Well Number / Sample ID	Depth (Feet bgs)	Date Collected	DRO (µg/L)	ORO (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)	PCE (µg/L)	Dichloro-methane (µg/L)	Chloro-form (µg/L)	Iso-propyl benzene (µg/L)	n-propyl benzene (µg/L)	sec-butyl benzene (µg/L)	4-Isopropyl toluene (µg/L)	n-butyl benzene (µg/L)	1,3,5 Tri-methyl-benzene (µg/L)	1,2,4 Tri-methyl-benzene (µg/L)	Naphthalene (µg/L)
<b>Monitoring Well Samples</b>																							
MW-9		08/09/12	NA	NA	<50	1.1	<0.50	<0.50	<0.50	<0.50	<1.0	<10	2.7	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-10		08/09/12	NA	NA	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	1.0	<2.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-1R		08/09/12	NA	NA	4,000	<1.0**	<1.0**	4.6	1.4	63	5.3	<20**	<2.0**	<8.0**	<2.0**	6.6	19	17	4.4	17	<2.0**	<2.0**	<8.0**
MW-2R		08/09/12	NA	NA	30,000	1,500	1,300	1,500	5,000	340	<40**	<400**	<40**	<160**	<40**	<40**	190	<40**	<40**	<40**	260	1,300	220
<b>CPT Boring Samples</b>																							
<b>Boring CPT-1</b>																							
CPT-1-56-W	54-57	06/29/12	<100*	<500	<50	<0.50	<0.50	<0.50	<0.50	1.1	<1.0	100	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
CPT-1-66-W	64-67	06/29/12	<50	<500	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
CPT-1-76-W	74-77	06/29/12	<100*	<500	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
CPT-1-80-W	77.5-80.5	06/29/12	<50	<500	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
<b>Boring CPT-2</b>																							
CPT-2-48-W	47-50	06/28/12	<50	<500	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
CPT-2-58-W	57-60	06/28/12	<100*	<500	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
CPT-2-68-W	67-70	06/28/12	<50	<500	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
CPT-2-85-W	83-86	06/28/12	<100*	<500	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
<b>Notes:</b>																							
Feet bgs = Feet below ground surface												Analysis:											
DRO = Diesel Range Organics with silica gel treatment												DRO, ORO, and GRO analyzed by EPA Method 8015B; all remaining analytes analyzed by EPA Method 8260B.											
ORO = Oil Range Organics with silica gel treatment																							
GRO = Gasoline Range Organics																							
MTBE = Methyl tertiary butyl ether																							
PCE = Tetrachloroethene																							
TAME = Tertiary amyl methyl ether																							
TBA = Tertiary butyl alcohol																							
µg/L = Micrograms per liter																							
NA = Not analyzed																							
* = Reporting limits were increased due to sample matrix interferences.																							
** = Reporting limits were increased due to high concentrations of target analytes.																							



GENERAL NOTES:  
 BASE MAP FROM U.S.G.S.  
 SAN LEANDRO, CA.  
 7.5 MINUTE TOPOGRAPHIC  
 PHOTOREVISED 1978



QUADRANGLE LOCATION



APPROXIMATE SCALE

*STRATUS*  
 ENVIRONMENTAL, INC.

FORMER HABER OIL PRODUCT  
 1401 GRAND AVENUE  
 SAN LEANDRO, CALIFORNIA

FIGURE







1

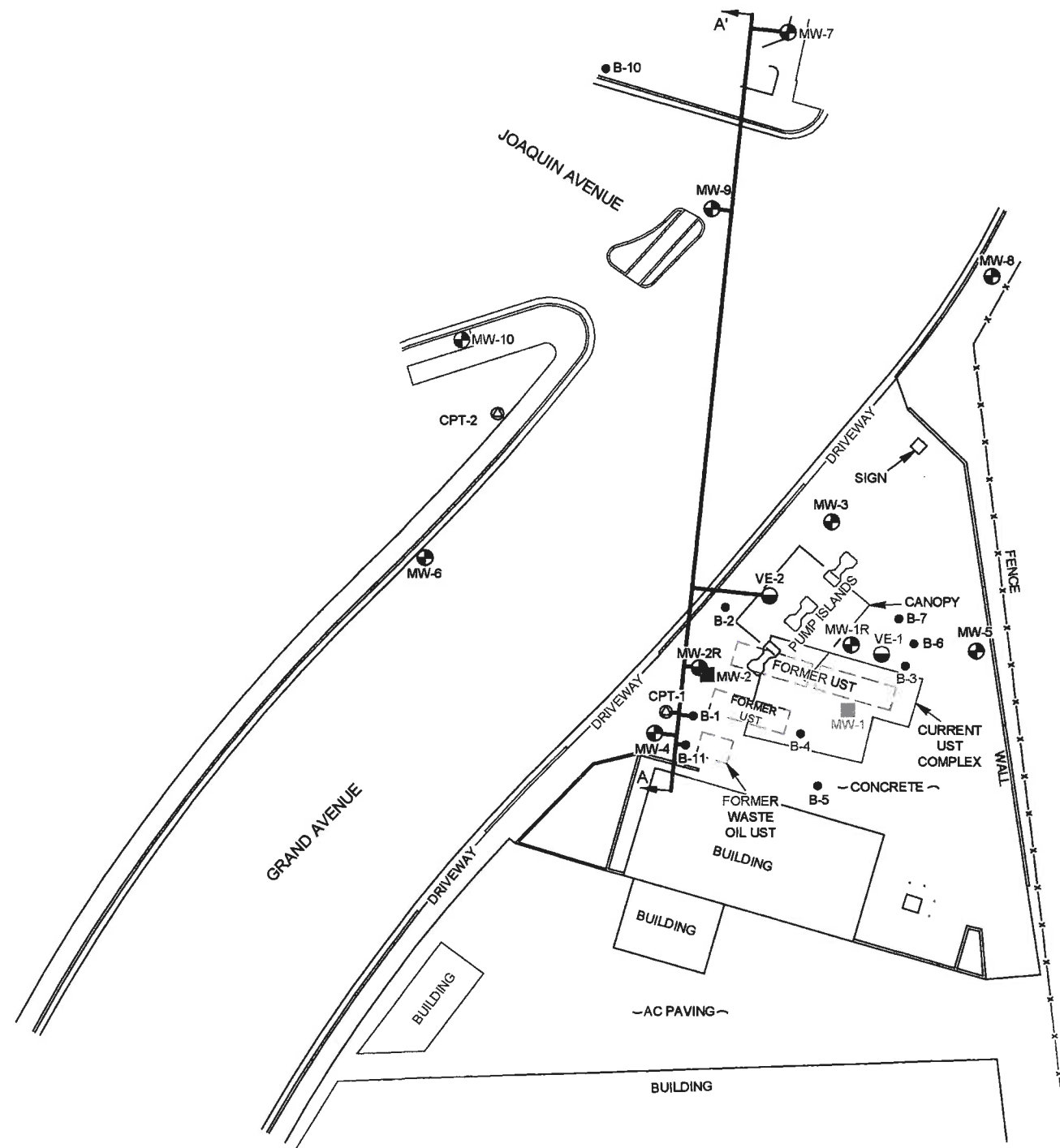
PROJECT NO.  
 2120-1401-01

SITE LOCATION MAP





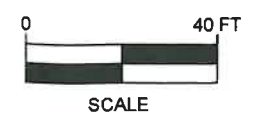
- LEGEND
-  MW-3 GROUNDWATER MONITORING WELL LOCATION
  -  VE-1 SOIL VAPOR EXTRACTION WELL LOCATION
  -  MW-1 ABANDONED MONITORING WELL LOCATION
  -  CPT-1 CPT BORING LOCATION
  -  B-1 SOIL BORING LOCATION
  -  CROSS SECTION TRACE



- NOTES:
1. SOIL BORING AND FORMER UST LOCATIONS ARE APPROXIMATE
  2. BASE MAP PROVIDED BY MORROW SURVEYING

Haber Oil, August 1, 2012, JUMP, REV, Haber Oil, Stephen

**STRATUS**  
ENVIRONMENTAL, INC.

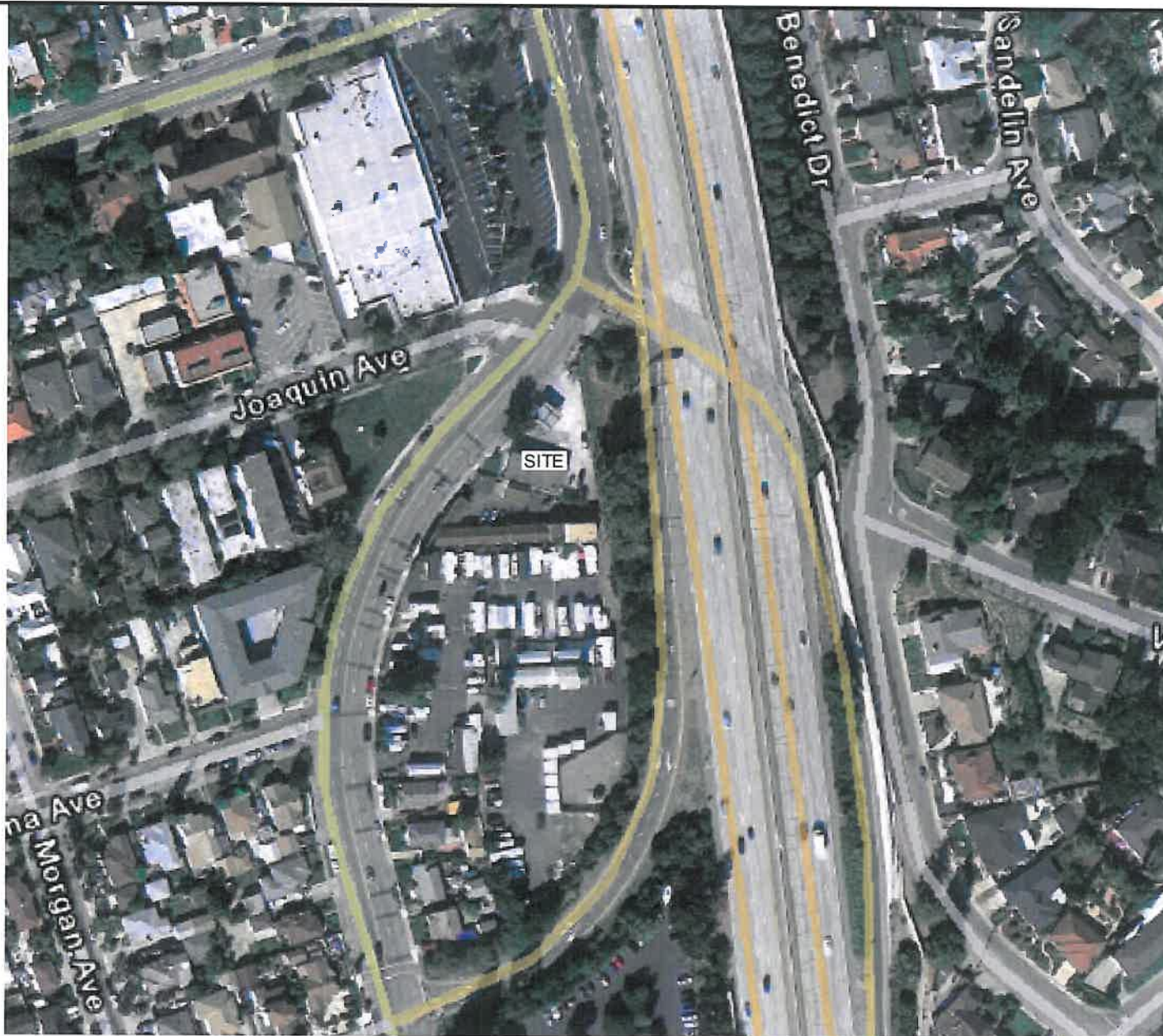


FORMER HABER OIL PRODUCT  
1401 GRAND AVENUE  
SAN LEANDRO, CALIFORNIA

SITE PLAN

FIGURE  
**2**

PROJECT NO.  
2120-1401-01



*STRATUS*  
ENVIRONMENTAL, INC.

0 260 FT  
APPROXIMATE SCALE

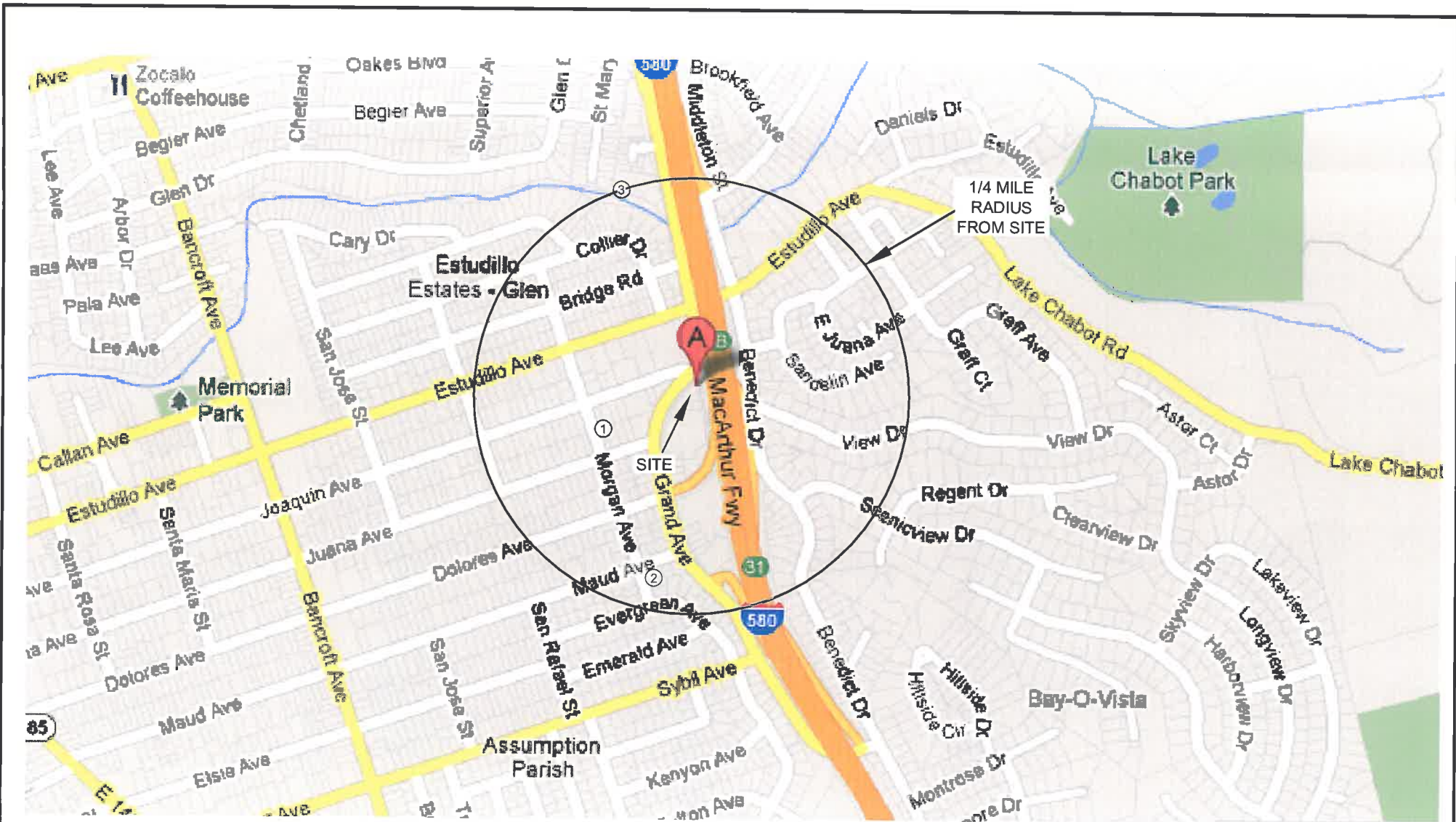
FORMER HABER OIL PRODUCT  
1401 GRAND AVENUE  
SAN LEANDRO, CALIFORNIA

SITE VICINITY AERIAL MAP

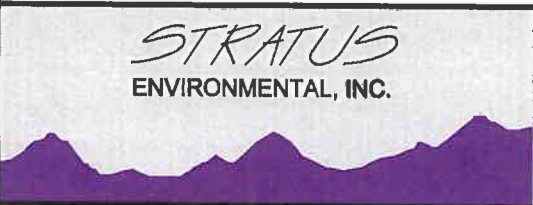
FIGURE

3

PROJECT NO.  
2120-1401-01



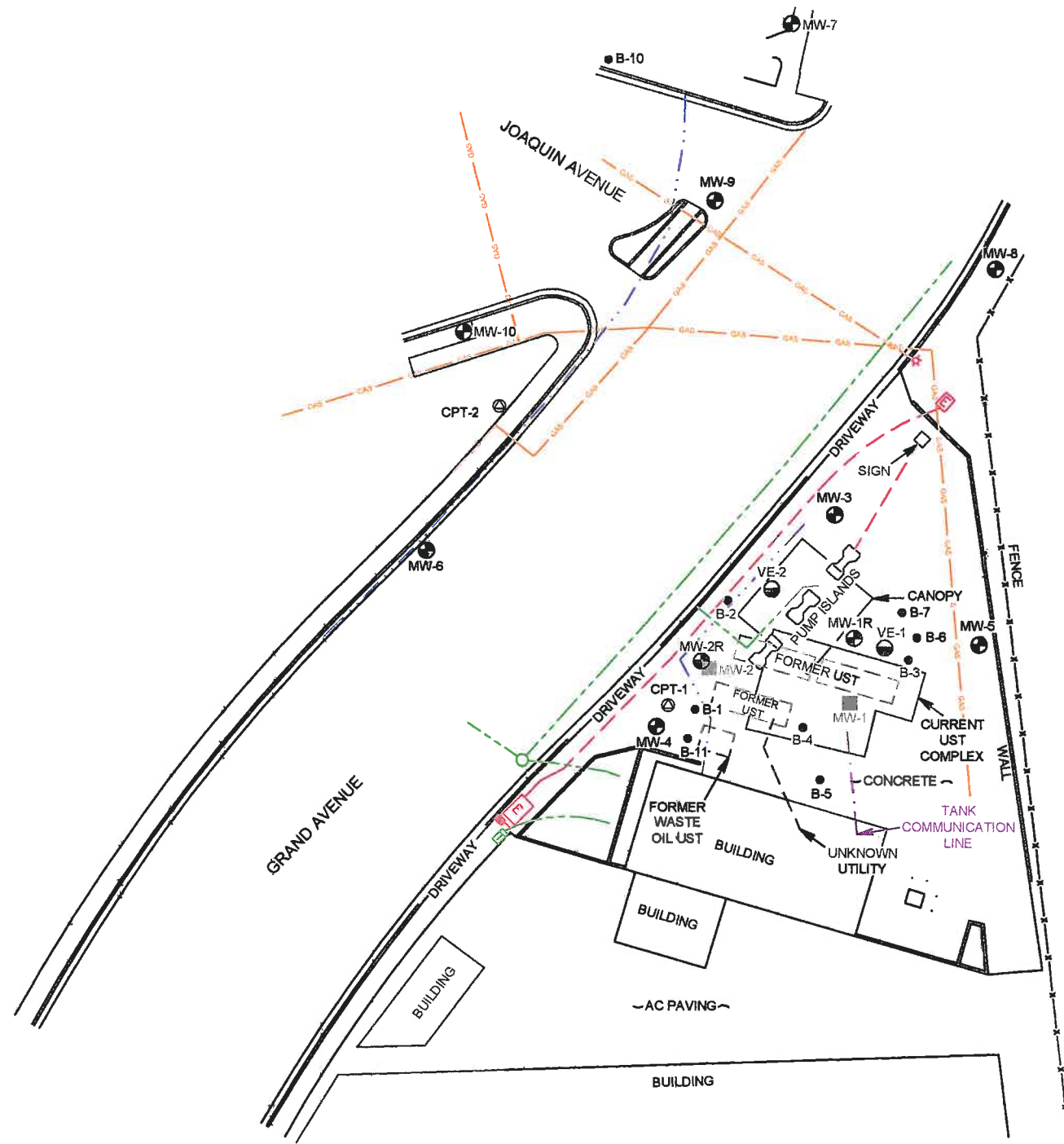
① APPROXIMATE WATER SUPPLY WELL LOCATION



FORMER HABER OIL PRODUCT  
 1401 GRAND AVENUE  
 SAN LEANDRO, CALIFORNIA

WATER SUPPLY WELL LOCATION MAP

FIGURE  
**4**  
 PROJECT NO.  
 2120-1401-01



LEGEND

- MW-3 GROUNDWATER MONITORING WELL LOCATION
- VE-1 SOIL VAPOR EXTRACTION WELL LOCATION
- MW-1 ABANDONED MONITORING WELL LOCATION
- CPT-1 CPT BORING LOCATION
- B-1 SOIL BORING LOCATION

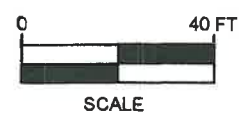
- ELECTRICAL LINE
- WATER LINE
- SANITARY SEWER LINE
- GAS LINE
- STORM DRAIN
- COMMUNICATION LINE

NOTES:

1. SOIL BORING AND FORMER UST LOCATIONS ARE APPROXIMATE
2. BASE MAP PROVIDED BY MORROW SURVEYING

REV August 1, 2012 Halber Oil Sitework JMP

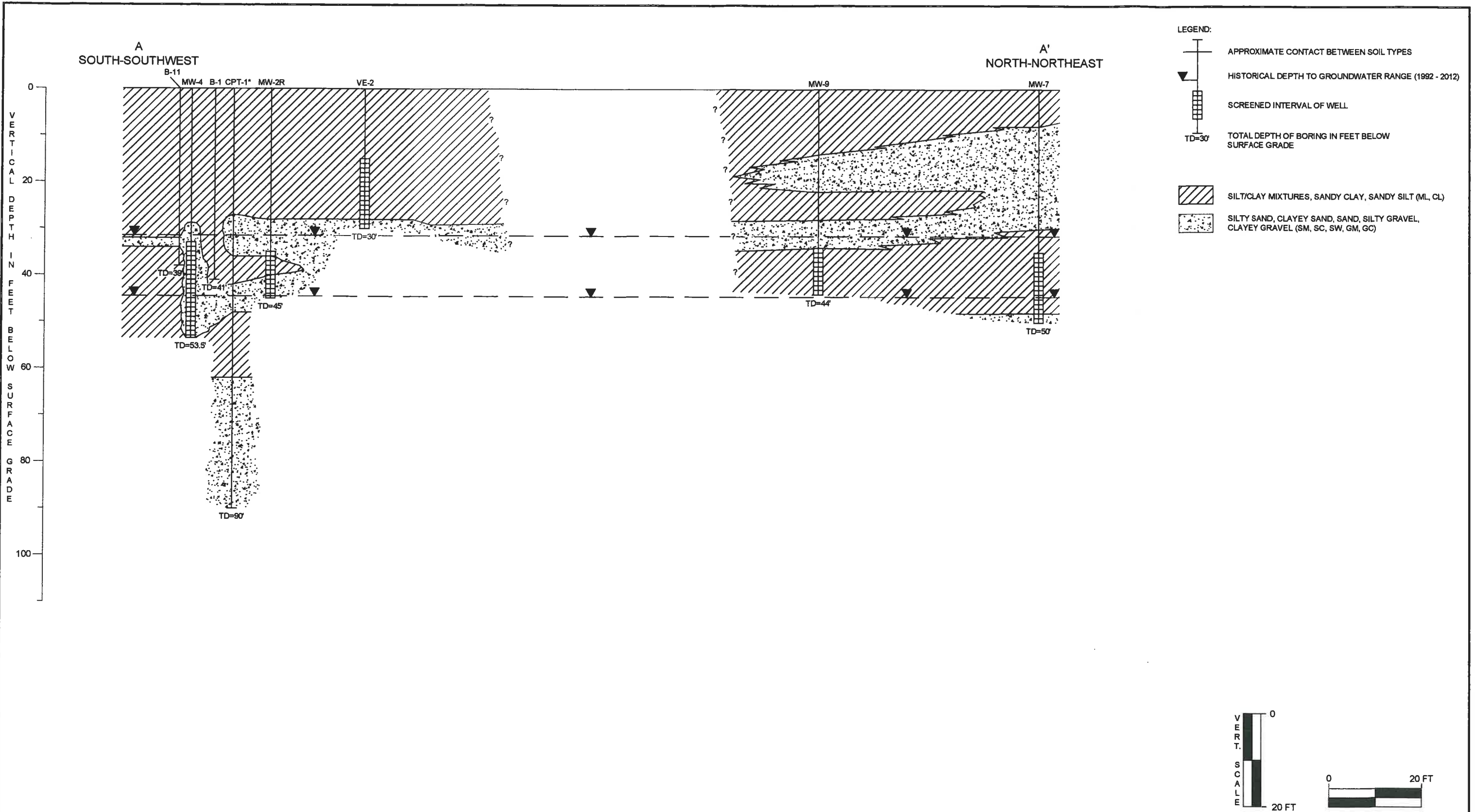
**STRATUS**  
ENVIRONMENTAL, INC.



FORMER HABER OIL PRODUCT  
1401 GRAND AVENUE  
SAN LEANDRO, CALIFORNIA  
UNDERGROUND UTILITY LOCATION MAP

FIGURE  
**5**  
PROJECT NO.  
2120-1401-01

Haber Oil Assessment - JMP  
REV August 22, 2012  
Haber Oil Cross Section



\* INTERPRETATION BASED ON CONE TESTING RESULTS ABOVE 48' bgs & OBSERVATIONS FROM SOIL SAMPLING BELOW 48' bgs.



FORMER HABER OIL PRODUCT  
1401 GRAND AVENUE  
SAN LEANDRO, CALIFORNIA  
GEOLOGIC CROSS SECTION A-A'

FIGURE  
**6**  
PROJECT NO.  
2120-1401-01

## **APPENDIX A**

### **FIELD PRACTICES AND PROCEDURES**

## **FIELD PRACTICES AND PROCEDURES**

---

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

### **PRE-FIELD WORK ACTIVITIES**

#### **Health and Safety Plan**

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

#### **Locating Underground Utilities**

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

### **FIELD METHODS AND PROCEDURES**

#### **Exploratory Soil Borings**

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

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

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

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

### **Soil Sample Collection**

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

### **Soil Classification**

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

### **Soil Sample Screening**

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



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

### **Stockpiled Drill Cuttings and Soil Sampling**

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

### **Direct Push Technology, Soil Sampling**

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

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

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

## **Direct Push Technology, Water Sampling**

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

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

## **Monitoring Well Installation**

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

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

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

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

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

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

**APPENDIX B**

**DRILLING PERMIT AND ENCROACHMENT PERMIT**

# Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street  
Hayward, CA 94544-1395  
Telephone: (510)670-6633 Fax:(510)782-1939

**Application Approved on: 06/15/2012 By jamesy**

**Permit Numbers: W2012-0401 to W2012-0409**  
**Permits Valid from 06/18/2012 to 07/31/2012**

<b>Application Id:</b>	1339105873943	<b>City of Project Site:</b> San Leandro
<b>Site Location:</b>	1401 Grand Avenue and adjacent properties, San Leandro, CA	
<b>Project Start Date:</b>	06/18/2012	<b>Completion Date:</b> 07/31/2012
<b>Assigned Inspector:</b>	Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org	

<b>Applicant:</b>	Stratus - Scott Bittinger	<b>Phone:</b> 530-676-2062
	3330 Cameron Park #550, Cameron Park, CA 95682	

<b>Property Owner:</b>	Manmohan Chopra	<b>Phone:</b> 510-962-1961
	29211 Marshbrook Dr, Hayward, CA 94545	

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

	<b>Total Due:</b>	\$3441.00
<b>Receipt Number: WR2012-0179</b>	<b>Total Amount Paid:</b>	<u>\$3441.00</u>
<b>Payer Name : Stratus</b>	<b>Paid By: CHECK</b>	<b>PAID IN FULL</b>

**Works Requesting Permits:**

Well Construction-Monitoring-Monitoring - 6 Wells  
Driller: Gregg - Lic #: 485165 - Method: press

**Work Total: \$2382.00**

**Specifications**

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2012-0401	06/15/2012	09/16/2012	MW-1R	8.00 in.	2.00 in.	27.00 ft	52.00 ft
W2012-0402	06/15/2012	09/16/2012	MW-2R	10.00 in.	4.00 in.	27.00 ft	52.00 ft
W2012-0403	06/15/2012	09/16/2012	MW10	8.00 in.	2.00 in.	27.00 ft	52.00 ft
W2012-0404	06/15/2012	09/16/2012	MW9	8.00 in.	2.00 in.	27.00 ft	52.00 ft
W2012-0405	06/15/2012	09/16/2012	VE1	8.00 in.	2.00 in.	10.00 ft	52.00 ft
W2012-0406	06/15/2012	09/16/2012	VE2	8.00 in.	2.00 in.	10.00 ft	52.00 ft

**Specific Work Permit Conditions**

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
  
2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
  
3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits

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

and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.
5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
8. Minimum surface seal thickness is two inches of cement grout placed by tremie.
9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.
10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

---

Borehole(s) for Investigation-Contamination Study - 7 Boreholes

Driller: Gregg - Lic #: 485165 - Method: press

**Work Total: \$265.00**

### Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2012-0407	06/15/2012	09/16/2012	7	8.00 in.	100.00 ft

### Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to,

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

properly damage, personal injury and wrongful death.

4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

Well Destruction-Monitoring - 2 Wells

Driller: Gregg Drilling - Lic #: 485165 - Method: press

**Work Total: \$794.00**

**Specifications**

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2012-0408	06/15/2012	09/16/2012	MW1	0.00 in.	4.00 in.	0.00 ft	53.00 ft	No Records	No Records	No Records
W2012-0409	06/15/2012	09/16/2012	MW2	0.00 in.	4.00 in.	0.00 ft	53.00 ft	No Records	No Records	No Records

**Specific Work Permit Conditions**

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.

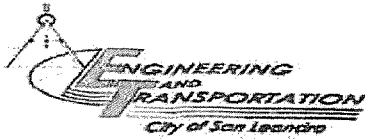
4. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend

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

and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to [vickyh@acpwa.org](mailto:vickyh@acpwa.org) at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
  6. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
  7. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
  8. Remove the Christy box or similar structure. Tremie Grout with Cement (More than 30 ft in depth). After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.
-





City of San Leandro  
 Engineering and Transportation Department  
 835 East 14th Street  
 San Leandro, California 94577  
 (510) 577-3428



**ENCROACHMENT PERMIT**

Permit Type **Environmental**

**JL**

Permit Number: **ENC2012-00356** Job Address: **1400 1499 Grand Av**

Issued: **6/25/2012**

Project Name: **STRATUS**

Description of Work:

Adjacent to 1401 Grand Ave., Install 2 ground water monitoring wells (1 in street and other in planter strip). Perform soil borings for soil & water collection, develop, sample survey monitoring wells.

**Customer #  
23893**

Planned Start Date : **June 27, 2012**

Planned Completion Date :

USA Tag No . **214670**

Emergency Contact **Scott Brittinger**

Contact Phone Number **916-601-9756**

Applicant:

Owner:

STRATUS ENVIRONMENTAL INC  
 3330 CAMERON PARK DR. SUITE 550  
 CAMERON PARK CA 95682

CITY OF SAN LEANDRO

Contractor:

Agent:

GREGG DRILLING & TESTING  
 950 HOWE RD.  
 MARTINEZ CA 94553

SCOTT BITTINGER  
 3330 CAMERON PARK DR. SUITE 550  
 CAMERON PARK CA 95682

**Associated Permits:**

- Building Permit No.
- Oro Loma Permit No. W2012-0403
- Cal State Permit No.
- Ala County Permit No.
- Grading Permit No.

PERMIT FEE: 65- To Acct #3306  
 PLAN CHECKER \_\_\_\_\_ Hrs \_\_\_\_\_  
 RESTORE/INSPECT DEPOSIT 2600  
 To CN# 23893  
 STREET CUT FEE \_\_\_\_\_ To Acct #3304  
 TOTAL: 2665-

Utility /Job Number

Method of Repair

Backfill Required **Class 2 AB or CDF**

**All work shall be per City Standard Provisions. Pedestrian safety and access shall be maintained at all times.**

Pavement Section Requir

Min Depth of Cover

- Section 1 **9 inches**
- Section 2
- Section 3

Per city Standard plan and approved Traffic control plan.

Consent Form **Pre Video** **Post Video**

**PLEASE CALL (510) 577-3308 FOR INSPECTIONS 24 HOURS PRIOR TO WORK**

By the application and acceptance of this permit, the undersigned intending to be legally bound does hereby agree that all work performed will be in accordance with all applicable provisions of this permit and all regulations, provisions, and specifications as adopted by the City. Further, the undersigned agrees that this permit is to serve as a guaranty for payment for all permit and/or inspection charges as billed by the City. Any misrepresentation of information requested from the applicant on this form shall make this permit null and void.

sign [Signature] print Deborah Burr date 6/25/12

# GENERAL PROVISIONS ENC2012-00356

- (a) All work must be performed in accordance with City of San Leandro Standard Plans, Specifications, and Title V Chapter 1 of the Municipal Code.
- (b) Twenty four hours notice required prior to start and/or requests for inspection. All work must be completed between the hours of 8:00AM to 4:00PM. No work is permitted on Saturday, Sunday, City holidays, or Furlough days. The City website has a schedule of holidays and furlough days: <http://www.sanleandro.org/holidayschedule.html>
- (c) City to be notified next working day (by permit application) of all emergency work performed.
- (d) Permittee shall be responsible for all liability imposed by law for personal injury or property damage proximately caused by failure on permittee's part to perform his obligations under said permit respect to maintenance. If any claim of such liability is made against the City of San Leandro or its officers or employees, permittee shall defend, indemnify and hold each of them harmless from such claim.
- (e) No utility contractor or subcontractor shall park their construction equipment, including personal vehicles, entirely or partially in the sidewalk area. Per Section 5610 of the Streets and Highways Code, the permittee shall be responsible for the repair of any damaged sidewalk where utility contractor's or subcontractor's vehicles or equipment are parked whether or not the damage was preexisting.
- (f) Cost of emergency work required to restore unsatisfactorily construction that becomes hazardous will be charged to permittee.
- (g) Permit void 90 days from issue date unless otherwise noted. Extension time may be granted when requested in writing.
- (h) Permit must be readily available at work site. Permit is not assignable.
- (i) Section 6500 of the Labor Code requires permit from the State Division of Industrial Safety (CAL OSHA) prior to an excavation five feet or deeper.
- (j) Prior to digging or drilling, permittee shall request Undergrounding Service Alert (USA) markings, phone #800-227-2600.
- (k) Trenches are to be inspected prior to backfilling. Backfill compaction tests may be required.
- (l) All tunneling prohibited. Pipe must be bored or jacked or open trenched - including under curb, gutter and/or sidewalk.
- (m) Forms for concrete work must be inspected prior to placing concrete.
- (n) All concrete, including concrete pavement (overlayed with A.C. or not), must be sawcut prior to breakout. Concrete sections to be replaced shall be no smaller than 30 inches in either length or width. All sawcuts must be along scorelines, 1.5" minimum depth (special conditions for concrete pavements). If a sawcut falls within 30 inches of a construction joint, expansion joint, or edge, the concrete shall be removed to the joint or edge. Forms for concrete work must be inspected prior to placing concrete.
- (o) Temporary paving is required in all street and sidewalk areas and is to be placed the same day work is performed. From **October 15** through **April 15**, only A.C. paving is to be used. Temporary paving is to be maintained by applicant.
- (p) Permanent paving or sidewalk is to be replaced within **30 days**. Permittee shall notify City before placing surfacing.
- (q) Permittee shall provide, erect, and/or maintain such lights, barriers, warning signs, patrols, watchmen and other safeguards as are necessary to protect the traveling public in accordance with the current State "Manual of Warning Signs, Lights, and Devices for Use in Performance of Work Upon Highways".
- (r) Before any work is begun that will interrupt the normal flow of public traffic, proposed lane closures or advanced warning light, sign, and barricade with flashing light details and layout plans shall be submitted to the City. If flagmen are required copies of certifications must be provided prior to issuance of a permit.
- (s) Open trench one lane at a time, with necessary traffic control, to keep traffic moving in both directions during working hours. If at the end of the work day backfilling operations have not been completed, steel bridging shall be required to make the entire traveled way available to the public traffic.
- (t) Pedestrian safety shall be maintained at all times.
- (u) Permittee shall contact City for final inspection and approval of completed work.

ART • Arterial

Col • Collector

Res - Residential

## INSPECTION RECORD

Inspected Date	Comments	Inspector	Hours Charged	Date Charged
		Subtotal		

## **APPENDIX C**

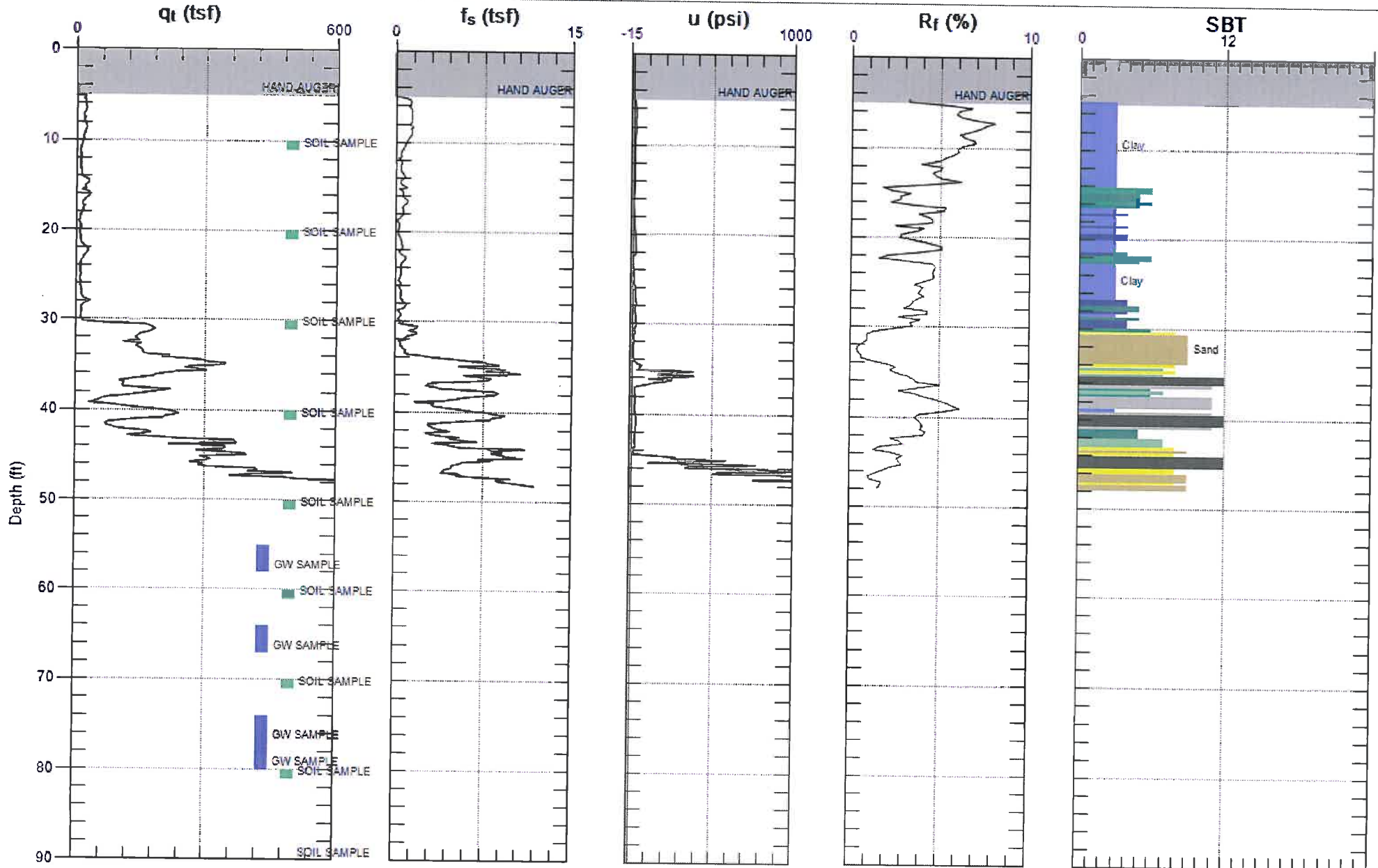
### **CPT DATA AND SAMPLING LOGS**



# STRATUS

Site: HABER OIL  
Sounding: CPT-1

Engineer: S.BITTINGER  
Date: 6/29/2012 08:10



Max. Depth: 48.228 (ft)  
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

## BOREHOLE LOG

**CPT-1**

STRATUS Project No.: 2120-1401-1	Site: Haber Oil 1401 Grand Avenue, San Leandro	Drilling Company: Gregg In Situ, Inc. Driller: German Field Geologist: Shane Edmunds
Date: June 29, 2012		

Drilling Rig:	CPT	Drilling Method:	Direct Push (CPT Truck)
Borehole Diameter:	2 inches	Soil Sample Equipment:	12-inch piston sampler
Total Sampling Depth:	90 feet bgs	Water Sampling Equipment:	Hydropunch™

### Well Completion Data

Slotted Interval:	Casing Material:
Filter Pack Material:	Casing Diameter:
Seal Material:	Slot Size:
Backfill Material: Neat Cement	

Sample ID	Depth (ft.)	Sample Interval	% Rec.	Sample Time	PID (ppm)	Soil Class.	Description:
CPT-1-10-S	10	10-11		0948		CL	Silty Clay, olive brown, est. 75% clay, 25% silt, Dry to moist
CPT-1-20-S	20	20-21		0956		CL	Sandy clay, olive brown, est. 70% clay, 20% Fine grained sand, 5% silt, moist
CPT-1-30-S	30	30-31		1007		SW-SM	Sand, fine to medium grained with 10% fines, Moist
CPT-1-40-S	40	40-41		1024		SC	Clayey sand, greenish gray, est. 65-75% fine Grained sand, 25-35% clayey fines, dry to moist
CPT-1-50-S	50	50-51		1106		CL	Sandy clay, light greenish gray, est. 70% clayey Fines, 30% fine grained sand, wet, soft
CPT-1-56-W	56	54-57		1609			Water
CPT-1-60-S	60	60-61		1131		CL	Sandy clay with silt and caliche, yellowish brown, Est. 60% clay, 20% sand, 10% silt, 10% caliche
CPT-1-66-W	66	64-67		1652			Water
CPT-1-70-S	70	70-71		1216		SC	Clayey sand, est. 70% fine grained sand, 30% Clayey fines, wet
CPT-1-76-W	76	74-77		1755			Water
CPT-1-80-S	80	80-81		1349		SC	Clayey sand, est. 70% fine grained sand, 10% Medium grained sand, 20% clayey fines, wet
CPT-1-80-W	80	77.5-80.5		1836			Water, direct push refusal at 80.5 feet bgs.
CPT-1-90-S	90	89-90		1433		SC	Clayey sand, gray, est. 65% sand, 35% clayey Fines, wet

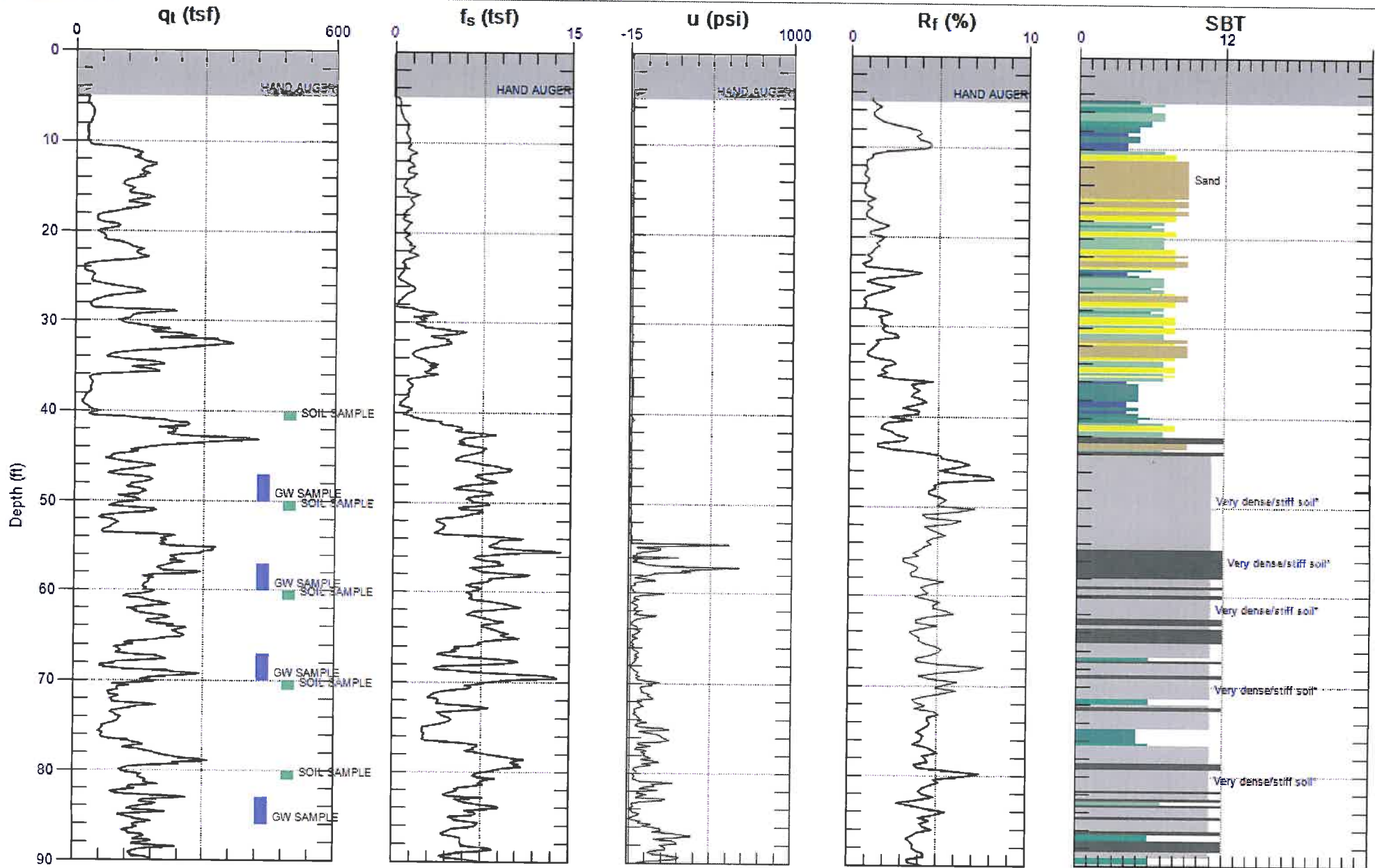




# STRATUS

Site: HABER OIL  
Sounding: CPT-2

Engineer: S.BITTINGER  
Date: 6/28/2012 07:25



Max. Depth: 90.387 (ft)  
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

# BOREHOLE LOG

**CPT-2**

<b>STRATUS Project No.:</b> 2120-1401-1	<b>Site:</b> Haber Oil	<b>Drilling Company:</b> Gregg In Situ, Inc.
	1401 Grand Avenue, San Leandro	<b>Driller:</b> German
<b>Date:</b> June 28, 2012		<b>Field Geologist:</b> Shane Edmunds

<b>Drilling Rig:</b>	CPT	<b>Drilling Method:</b>	Direct Push (CPT Truck)
<b>Borehole Diameter:</b>	2 inches	<b>Soil Sample Equipment:</b>	12-inch piston sampler
<b>Total Sampling Depth:</b>	86 feet bgs	<b>Water Sampling Equipment:</b>	Hydropunch <sup>TM</sup>

**Well Completion Data**

<b>Slotted Interval:</b>	<b>Casing Material:</b>
<b>Filter Pack Material:</b>	<b>Casing Diameter:</b>
<b>Seal Material:</b>	<b>Slot Size:</b>
<b>Backfill Material:</b>	Neat Cement

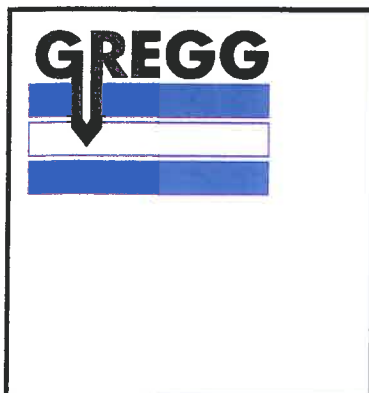
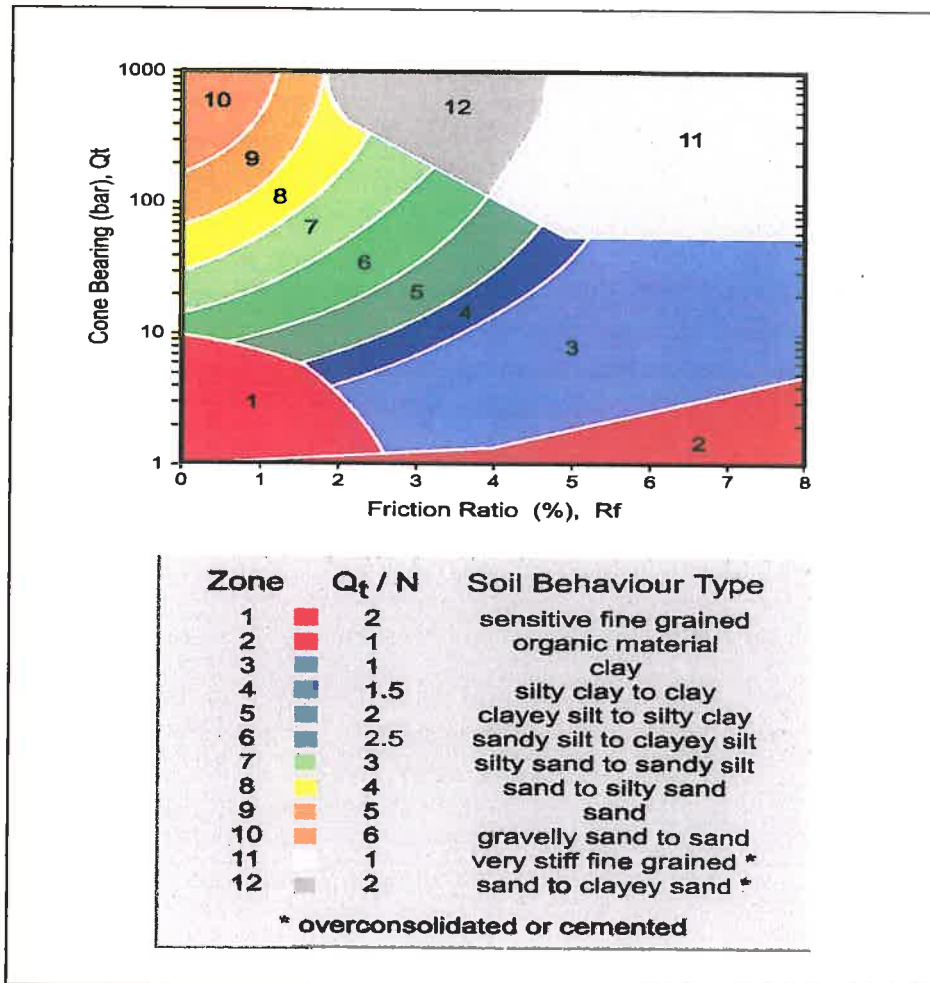
Sample ID	Depth (ft.)	Sample Interval	% Rec.	Sample Time	PID (ppm)	Soil Class.	Description:
CPT-2-40-S	40	40-41		1048		SC	Clayey sand, light olive brown, est. 60% fine gr. Sand, 35% clayey fines, 5% silt, wet
CPT-2-48-W	48	47-50		1430			Water
CPT-2-50-S	50	50-51		1113		SC	Clayey sand, est. 85-90% fine grained sand, trace Medium sand, 10-15% clayey fines, wet
CPT-2-58-W	58	57-60		1511			Water
CPT-2-60-S	60	60-61		1142		CL	Clay with sand & silt, est. 80% clay, 10% silt, 10% Fine grained sand
CPT-2-68-W	68	67-70		1559			Water
CPT-2-70-S	70	70-71		1216		SC	Clayey sand, est. 70% fine grained sand, 30% Clayey fines, wet
CPT-2-80-S	80	80-81		1240		SC	Clayey sand, light olive brown, est. 60% sand, 40% clay, damp to wet
CPT-2-85-W	85	83-86		1336			Water



# CPT Classification Chart

(after Robertson 1990)

## Non-Normalized Classification Chart



### Geotechnical and Environmental In Situ Testing Contractors

Los Angeles · San Francisco · Houston · Aiken  
 Vancouver · Edmonton · Salt Lake City · New Jersey

Tel: (925)313-5800 · Fax: (925)313-0302 · E-mail: [gregg@ecis.com](mailto:gregg@ecis.com)

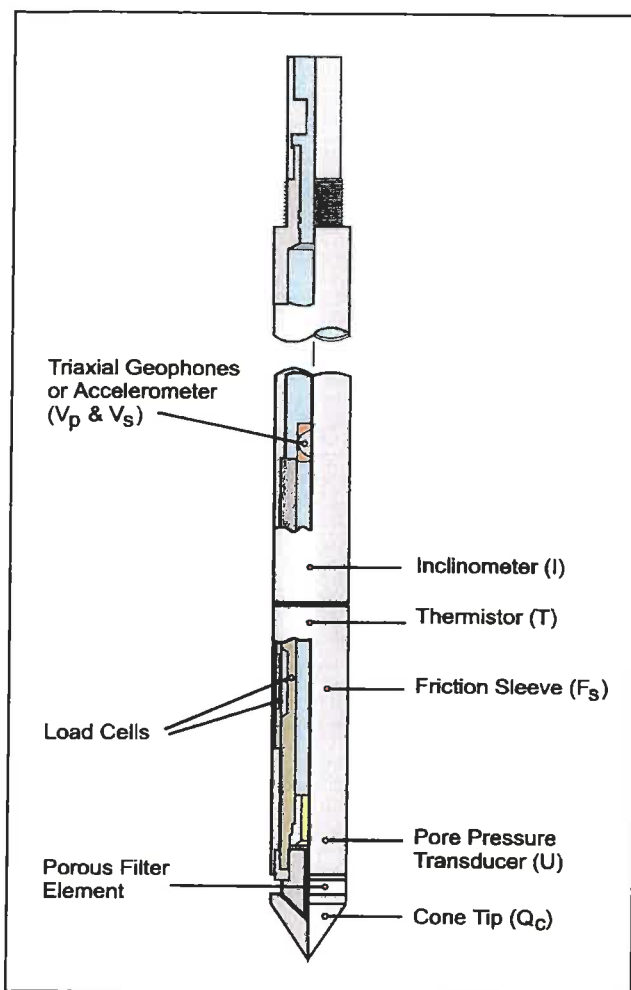




## GREGG IN SITU, INC.

Geotechnical and Environmental In Situ Testing Contractors

# THE PIEZO CONE PENETROMETER



The electrical piezocone (CPTU) is the premier soil logging tool. The CPTU provides a rapid, reliable and economic means of determining soil stratigraphy, relative density, strength and equilibrium groundwater pressures.

Gregg In Situ offers a choice of 2.5, 5, 10 and 15 ton tip ( $Q_c$ ) capacity cones. Our cones also have variable capacity friction sleeves ( $F_s$ ) and pore pressure ( $U$ ). The pore pressure can be measured at one of 2 locations, either on the face of the cone tip or behind the cone tip. Pore pressure dissipation data is recorded automatically.

All data is displayed in real time at the ground surface, facilitating the on site decision making process. Field data reduction, plotting and CPT interpretation can be carried out upon request.



**Geotechnical and Environmental In Situ Testing Contractors**

Los Angeles · San Francisco · Houston · Aiken  
Vancouver · Edmonton · Salt Lake City · New Jersey

Tel: (925)313-5800 · Fax: (925)313-0302 · E-mail: [gregg@ecis.com](mailto:gregg@ecis.com)

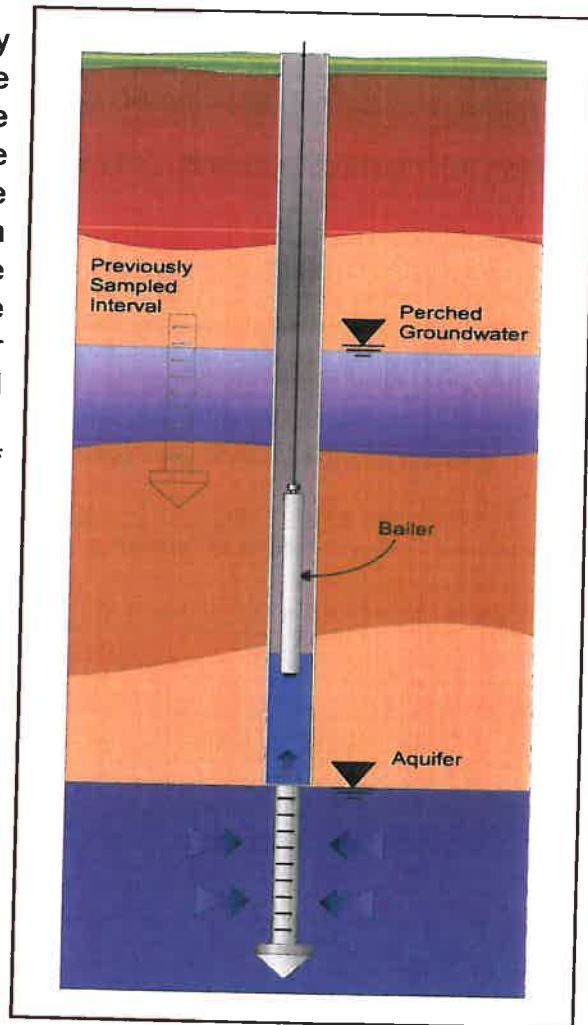


## Groundwater Sampling (GWS)

Gregg Drilling conducts groundwater sampling using a Hydropunch® type groundwater sampler, *Figure GWS*. The groundwater sampler has a retrievable stainless steel or disposable PVC screen with steel drop off tip. This allows for samples to be taken at multiple depth intervals within the same sounding location. In areas of slower water recharge, provisions may be made to set temporary PVC well screens during sampling to allow the drill rig to advance to the next sample location while the groundwater is allowed to infiltrate.

The groundwater sampler operates by advancing 1 3/4 inch hollow push rods with the filter tip in a closed configuration to the base of the desired sampling interval. Once at the desired sample depth, the push rods are retracted; exposing the encased filter screen and allowing groundwater to infiltrate hydrostatically from the formation into the inlet screen. A small diameter bailer (approximately 1/2 or 3/4 inch) is lowered through the push rods into the screen section for sample collection. The number of downhole trips with the bailer and time necessary to complete the sample collection at each depth interval is a function of sampling protocols, volume requirements, and the yield characteristics and storage capacity of the formation. Upon completion of sample collection, the push rods and sampler, with the exception of the PVC screen and steel drop off tip are retrieved to the ground surface, decontaminated and prepared for the next sampling event.

A summary of the groundwater samples collected, including the sampling date, depth and location identification, is presented in Table 1 and the corresponding CPT plot.



*Figure GWS*

For a detailed reference on direct push groundwater sampling, refer to Zemo et. al., 1992.

# PISTON TYPE SOIL SAMPLER

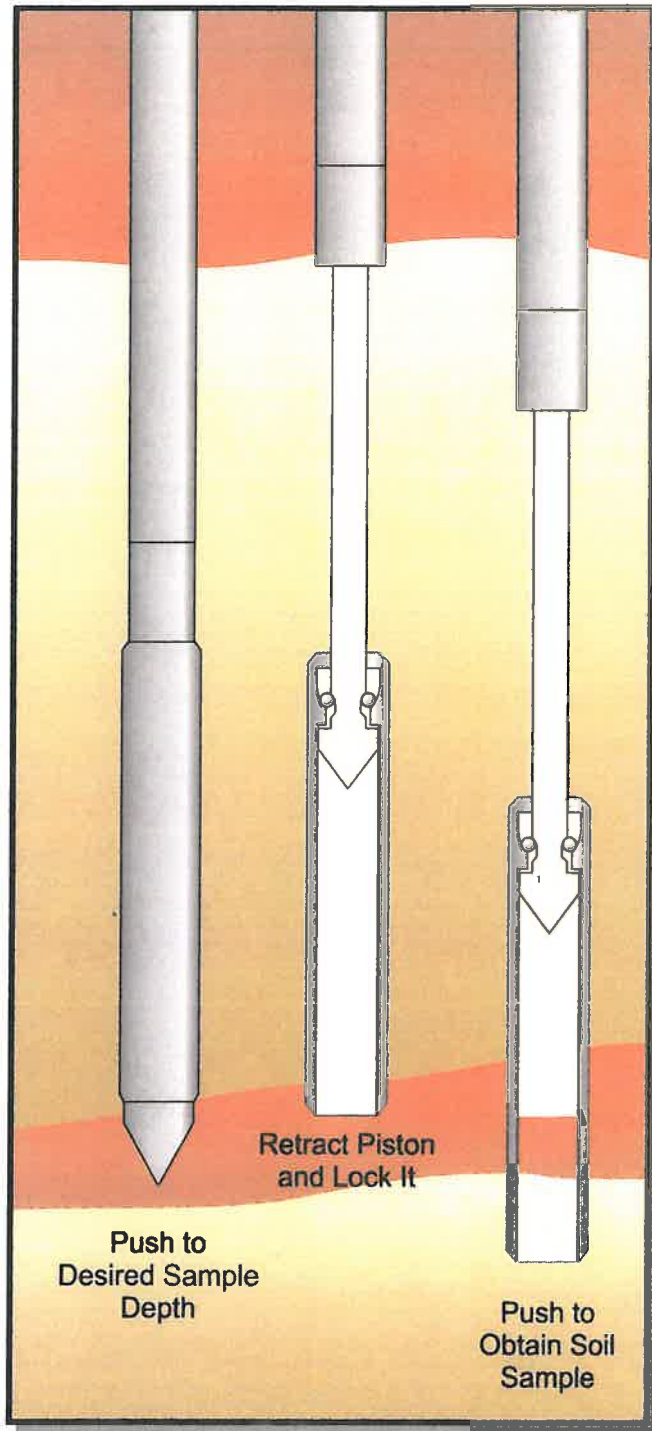


Figure 3

## **APPENDIX D**

### **SOIL BORING LOGS AND WELL DETAILS**

**SOIL BORING LOG**

**Boring No. B-11**

**Sheet: 1 of 2**

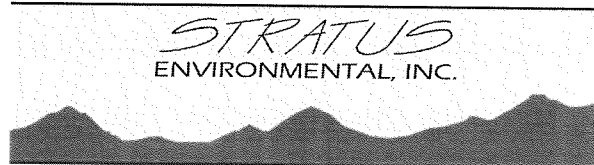
Client	Haber Oil	Date	July 9, 2012
Address	1401 Grand Ave. San Leandro, CA	Drilling Co.	Gregg Drilling rig type: MARL Rhino
Project No.	2120-1401-01	Driller	Vince
Logged By:	Allan Dudding	Method	Direct push Hole Diameter: 3 inches
		Sampler:	5-foot long x 2-inch diameter core barrel

Depth to GW:  first encountered:

Sample Type	Sample No.	Blow Count	Sample		Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.				
					1		Concrete pavement at surface; boring hand cleared to 5 feet bgs.	
					2	CL	Clay, some silt, CL, very dark brown (10YR 2/2), medium plasticity, moist, 80% clay, 20% silt.	
					3			
					4			
					5			
					6			
					7			
					8			
					9			
S	B-11-10		0906		10		Silty Clay, CL, very dark grayish brown (10YR 3/2), medium plasticity, moist, 70% clay, 30% silt.	0
					11			
					12			
					13			
					14	ML	Clayey Silt, ML, dark yellowish brown (10YR 4/4), low plasticity, moist, 70% silt, 30% clay.	
S	B-11-15		0911		15			0
					16			
					17			
					18			
					19		Sandy Silt with clay, ML, dark yellowish brown (10YR 4/4), low to non-plastic, moist, 50% silt, 40% fine sand, 10% clay.	
S	B-11-20		0916		20			0

Recovery Sample

Comments: Color descriptions from Munsell Color Chart.



**SOIL BORING LOG**

**Boring No. B-11**

**Sheet: 2 of 2**

Client	<u>Haber Oil</u>	Date	<u>July 9, 2012</u>
Address	<u>1401 Grand Ave.</u>	Drilling Co.	<u>Gregg Drilling</u> rig type: <u>MARL Rhino</u>
	<u>San Leandro, CA</u>	Driller	<u>Vince</u>
Project No.	<u>2120-1401-01</u>	Method	<u>Direct push</u> Hole Diameter: <u>3 inches</u>
Logged By:	<u>Allan Dudding</u>	Sampler:	<u>5-foot long x 2-inch diameter core barrel</u>

Depth to GW: ▽ first encountered:

Sample Type	Sample No.	Blow Count	Sample		Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.				
					21	ML	Sandy Silt with clay, ML, dark yellowish brown (10YR 4/4), low to non-plastic, moist, 50% silt, 40% fine sand, 10% clay.	
					22			
					23			
					24			
S	B-11-25		0922		25			0
					26			
					27			
					28		Clayey Silt, ML, dark yellowish brown (10YR 4/4), low plasticity, moist, 60% silt, 40% clay, trace fine sand.	
					29			
S	B-11-30		0926		30			169.1
					31	▽		
					32	SM	Silty Sand, SM, very dark greenish gray (GLE Y1 3/10Y), wet, 60% fine sand, 40% silt.	
					33			
					34	CL	Sandy Clay with gravel, CL, very dark greenish gray (GLE Y1 3/10Y), moist, 50% clay, 30% fine to medium sand, 20% fine gravel.	
S	B-11-35		0931		35			4.6
					36			
					37			
					38			
					39			
					40			

Recovery Sample

Comments: Color descriptions from Munsell Color Chart. Boring advanced to 38 feet bgs; 35-foot to 38-foot bgs sample not collected due to a rock in the sample tube.



**SOIL BORING/WELL CONSTRUCTION LOG**

**Boring No. MW-1R**

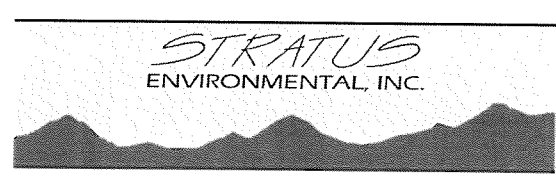
**Sheet: 1 of 3**

Client	Haber Oil Company	Date	July 9, 2012
Address	1401 Grand Avenue San Leandro, California	Drilling Co.	Gregg Drilling rig type: MARL Rhino
Project No.	2120-1401-01	Driller	Vince
Logged By:	Allan Dudding	Method	Hollow Stem Auger/Direct Push Hole Diameter: 8/3 inches
		Sampler:	5 foot long x 2.5 inch diameter acetate sample liners
Well Pack	sand: 32 ft. to 44 ft. bent.: 30 ft. to 32 ft. grout: 0 ft. to 30 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 34 to 44 ft. Casing Diameter: 2 in. Screen Slot Size: 0.020-in. Depth to GW: ▽ first encountered: 38 feet bgs ▼ Static:

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
						1	Concrete pavement at surface; boring hand cleared to 5 feet bgs.		
						2	CL Silty Clay, CL, very dark brown (10YR 2/2), medium plasticity, moist, 70% clay, 30% silt.		
						3			
						4			
						5			
						6			
						7			
						8			
						9			
S	MW-1R-10		1343			10	As above, dark brown (10YR 3/3).	0	
						11			
						12			
						13			
						14			
S	MW-1R-15		1345			15	SM Silty Sand, SM, dark yellowish brown (10YR 4/4), moist, 60% fine sand, 40% silt.	0	
						16			
						17	CL Silty Clay, CL, dark yellowish brown (10YR 4/4), moist, low plasticity, 60% clay, 40% silt.		
						18			
						19			
S	MW-1R-20		1352			20		0	

Recovery Sample

Comments: Color descriptions from Munsell Color Chart.



**SOIL BORING/WELL CONSTRUCTION LOG**

**Boring No. MW-1R**

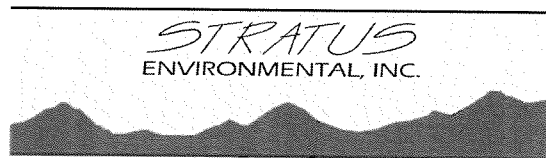
**Sheet: 2 of 3**

Client	Haber Oil Company	Date	July 9, 2012
Address	1401 Grand Avenue San Leandro, California	Drilling Co.	Gregg Drilling rig type: MARL Rhino
Project No.	2120-1401-01	Driller	Vince
Logged By:	Allan Dudding	Method	Hollow Stem Auger/Direct Push Hole Diameter: 8/3 inches
		Sampler:	5 foot long x 2.5 inch diameter acetate sample liners
Well Pack	sand: 32 ft. to 44 ft. bent.: 30 ft. to 32 ft. grout: 0 ft. to 30 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 34 to 44 ft. Casing Diameter: 2 in. Screen Slot Size: 0.020-in. Depth to GW: ▽ first encountered: 38 feet bgs ▼ Static:

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						21	CL	Silty Clay, CL, dark yellowish brown (10YR 4/4), moist, medium plasticity, 70% clay, 30% silt.	
						22			
						23			
						24			
S	MW-1R-25		1357			25			0
						26			
						27		Clay with silt, CL, olive brown (2.5Y 4/3), medium plasticity, moist, 80% clay, 20% silt.	
						28			
						29			
S	MW-1R-30		1402			30			27.2
						31	SC	Clayey Sand, SC, olive (5Y 4/3), moist to dry, 70% fine to medium sand, 30% clay. Has the appearance of decomposing crystalline rock.	
						32			
						33			
						34			
S	MW-1R-35		1407			35			10.1
						36			
						37			
						38	▽	As above, moist to wet, greenish gray (GLE Y1 5/5G).	
						39			
S	MW-1R-40		1411			40			0

Recovery Sample

Comments: Color descriptions from Munsell Color Chart.





**SOIL BORING/WELL CONSTRUCTION LOG**

**Boring No. MW-1R**

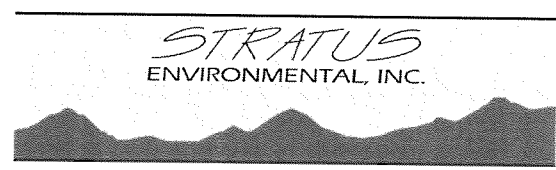
**Sheet: 3 of 3**

Client	Haber Oil Company	Date	July 9, 2012
Address	1401 Grand Avenue San Leandro, California	Drilling Co.	Gregg Drilling rig type: MARL Rhino
Project No.	2120-1401-01	Driller	Vince
Logged By:	Allan Dudding	Method	Hollow Stem Auger/Direct Push Hole Diameter: 8/3 inches
		Sampler:	5 foot long x 2.5 inch diameter acetate sample liners
Well Pack	sand: 32 ft. to 44 ft. bent.: 30 ft. to 32 ft. grout: 0 ft. to 30 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 34 to 44 ft. Casing Diameter: 2 in. Screen Slot Size: 0.020-in.
		Depth to GW:	▽ first encountered: 38 feet bgs ▼ Static:

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						41	SC	Clayey Sand, SC, greenish gray (GLE Y1 5/5G), wet, 70% fine to medium sand, 30% clay. Has the appearance of decomposing crystalline rock, with less weathering than above.	
						42			
						43			
						44			
S	MW-1R-45		1412			45			0
						46			
						47			
						48			
						49			
						50			
						51			
						52			
						53			
						54			
						55			
						56			
						57			
						58			
						59			
						60			

Recovery Sample

Comments: Color descriptions from Munsell Color Chart.



**SOIL BORING/WELL CONSTRUCTION LOG**

**Boring No. MW-2R**

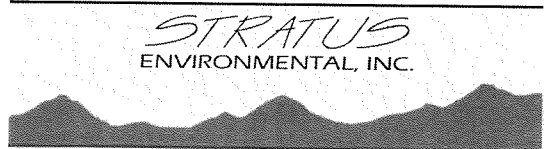
**Sheet: 1 of 3**

Client	Haber Oil Company	Date	July 12, 2012
Address	1401 Grand Avenue San Leandro, California	Drilling Co.	Gregg Drilling rig type: MARL Rhino
Project No.	2120-1401-01	Driller	Vince
Logged By:	Allan Dudding	Method	Hollow Stem Auger/Direct Push Hole Diameter: 10/2 inches
Well Pack	sand: 32 ft. to 44 ft. bent.: 30 ft. to 32 ft. grout: 0 ft. to 30 ft.	Sampler:	4 foot long x 1.5 inch diameter acetate sample liners
Well Construction	Casing Material: Schedule 40 PVC	Screen Interval:	34 to 44 ft.
	Casing Diameter: 4 in.	Screen Slot Size:	0.020-in.
Depth to GW:	▽ first encountered: 37 feet bgs	▼ Static:	

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						1		Concrete pavement at surface; boring hand cleared to 5 feet bgs.	
						2	CL	Silty Clay, CL, black (10YR 2/1), moist, medium plasticity, 70% clay, 30% silt.	
						3			
						4			
						5			
						6			
						7			
						8			
						9			
S	MW-2R-10		0857			10		Silty Clay, CL, brown (10YR 4/3), moist, low plasticity, 60% clay, 40% silt.	0
						11			
						12			
						13			
						14			
S	MW-2R-15		0843			15			0
						16			
						17			
						18	ML	Clayey Silt, ML, dark yellowish brown (10YR 4/4), moist, low plasticity, 70% silt, 30% clay.	
						19			
S	MW-2R-20		0846			20			0

Recovery Sample

Comments: Color descriptions from Munsell Color Chart.



**SOIL BORING/WELL CONSTRUCTION LOG**

**Boring No. MW-2R**

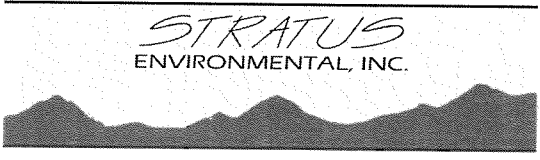
**Sheet: 2 of 3**

Client	Haber Oil Company	Date	July 12, 2012
Address	1401 Grand Avenue San Leandro, California	Drilling Co.	Gregg Drilling rig type: MARL Rhino
Project No.	2120-1401-01	Driller	Vince
Logged By:	Allan Dudding	Method	Hollow Stem Auger/Direct Push Hole Diameter: 10/2 inches
Well Pack	sand: 32 ft. to 44 ft. bent.: 30 ft. to 32 ft. grout: 0 ft. to 30 ft.	Sampler:	4 foot long x 1.5 inch diameter acetate sample liners
Well Construction	Casing Material: Schedule 40 PVC	Screen Interval:	34 to 44 ft.
	Casing Diameter: 2 in.	Screen Slot Size:	0.020-in.
Depth to GW:	▽ first encountered: 38 feet bgs	▼ Static:	

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
						21	ML	Clayey Silt, ML, dark yellowish brown (10YR 4/4), moist, low plasticity, 70% silt, 30% clay.	
						22			
						23			
						24			
S	MW-2R-25		0853			25		As above, dark greenish gray (GLE Y1 4/5GY).	2.9
						26			
						27			
						28			
						29	SM	Silty Sand, SM, dark greenish gray (GLE Y1 4/5GY), moist, 60% fine sand, 40% silt.	
S	MW-2R-30		0859			30			13.8
						31			
						32	SW	Well-graded Sand with gravel and fines, SW, dark greenish gray (GLE Y1 4/5GY), moist, 50% fine to coarse sand, 20% fine or coarse gravel, 30% fines.	
						33			
						34			
S	MW-2R-35		0905			35	SM	Silty Sand, SM, dark greenish gray (GLE Y1 4/5GY), moist, possibly wet, 60% fine sand, 40% silt.	4.6
						36	GM	Silty Gravel, GM, moist to wet, 50% fine gravel, 30% fine to coarse sand, 20% silt.	
						37	▽		
						38	ML	Sandy Silt, ML, dark greenish gray (GLE Y1 4/5GY), moist, 60% silt, 40% fine sand.	
						39			
S	MW-2R-40		0912			40	SC	Clayey Sand, SC, greenish gray (GLE Y1 5/10GY), moist, 60% fine to medium sand, 40% clay. Has the appearance of decomposing crystalline rock.	0

Recovery Sample

Comments: Color descriptions from Munsell Color Chart.



**SOIL BORING/WELL CONSTRUCTION LOG**

**Boring No. MW-2R**

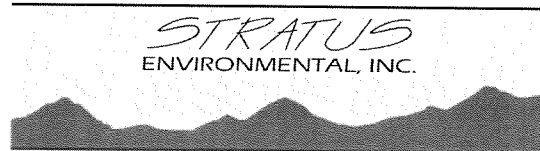
**Sheet: 3 of 3**

Client	Haber Oil Company	Date	July 12, 2012
Address	1401 Grand Avenue San Leandro, California	Drilling Co.	Gregg Drilling rig type: MARL Rhino
Project No.	2120-1401-01	Driller	Vince
Logged By:	Allan Dudding	Method	Hollow Stem Auger/Direct Push Hole Diameter: 10/2 inches
		Sampler:	4 foot long x 1.5 inch diameter acetate sample liners
Well Pack	sand: 32 ft. to 44 ft. bent.: 30 ft. to 32 ft. grout: 0 ft. to 30 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 34 to 44 ft. Casing Diameter: 2 in. Screen Slot Size: 0.020-in. Depth to GW: ▽ first encountered: 38 feet bgs ▽ Static:

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
S	MW-4R-44		0914			41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	SC Clayey Sand, SC, greenish gray (GLEY1 5/10GY), moist, 60% fine to medium sand, 40% clay. Has the appearance of decomposing crystalline rock.	0	

Recovery \_\_\_\_\_  
Sample \_\_\_\_\_

Comments: Color descriptions from Munsell Color Chart.



**SOIL BORING/WELL CONSTRUCTION LOG**

**Boring No. MW-9**

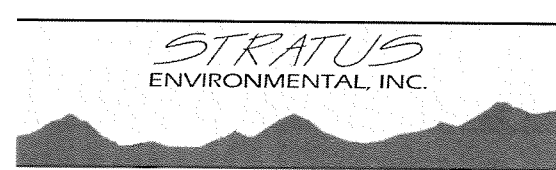
**Sheet: 1 of 3**

Client	Haber Oil Company	Date	July 11, 2012
Address	1401 Grand Avenue San Leandro, California	Drilling Co.	Gregg Drilling rig type: MARL Rhino
Project No.	2120-1401-01	Driller	Vince
Logged By:	Allan Dudding	Method	Hollow Stem Auger Hole Diameter: 8 inches
		Sampler:	18 inch long x 2 inch diameter split spoon
Well Pack	sand: 35 ft. to 47 ft. bent.: 33 ft. to 35 ft. grout: 0 ft. to 33 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 37 to 47 ft. Casing Diameter: 2 in. Screen Slot Size: 0.020-in. Depth to GW: ▽ first encountered: 44 feet bgs ▽ Static:

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
							Asphalt pavement at surface; boring hand cleared to 5 feet bgs.		
						1			
						2			
						3			
						4			
						5			
S	MW-9-6		0856	60%		6	CL Silty Clay, CL, very dark grayish brown (10YR 3/2), medium plasticity, moist, 70% clay, 30% silt.	0	
						7			
						8			
						9			
						10			
S	MW-9-11		0859	50%		11	Same as above.	0	
						12			
						13			
						14			
						15			
S	MW-9-16		0901			16	SM Silty Sand, SM, dark yellowish brown (10YR 4/4), moist, 80% fine sand, 20% silt.	0	
						17			
						18			
						19			
						20			

Recovery Sample

Comments: Color descriptions from Munsell Color Chart.



**SOIL BORING/WELL CONSTRUCTION LOG**

**Boring No. MW-9**

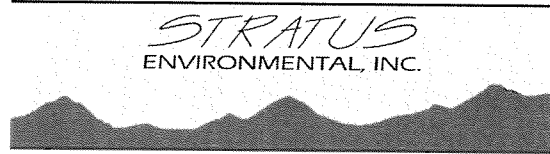
**Sheet: 2 of 3**

Client	Haber Oil Company	Date	July 11, 2012
Address	1401 Grand Avenue San Leandro, California	Drilling Co.	Gregg Drilling rig type: MARL Rhino
Project No.	2120-1401-01	Driller	Vince
Logged By:	Allan Dudding	Method	Hollow Stem Auger' Hole Diameter: 8 inches
Well Pack	sand: 35 ft. to 47 ft. bent.: 33 ft. to 35 ft. grout: 0 ft. to 33 ft.	Well Construction	Casing Material: Schedule 40 PVC Casing Diameter: 2 in. Depth to GW: ▽ first encountered: 44 feet bgs ▽ Static:
		Screen Interval:	37 to 47 ft.
		Screen Slot Size:	0.020-in.

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
S	MW-9-21		0906	50%		21	SM	Silty Sand, SM, dark brown (10YR 3/3), moist, 50% fine sand, 50% silt.	2.8
						22			
						23			
						24			
						25			
S	MW-9-26		0909	50%		26	CL	Silty Clay with sand, CL, dark brown (10YR 3/3), moist, low plasticity, 50% clay 30% silt, 20% fine sand.	NS
						27			
						28			
						29			
						30			
S	MW-9-31		0912	67%		31	GC	Clayey Gravel, GC, dark grayish brown (10YR 3/2), moist, 70% fine gravel, 30% clay.	0
						32			
						33			
						34			
						35			
S	MW-9-36		0922	100%		36	CL	Silty Clay, CL, dark yellowish brown (10YR 3/4), moist, medium plasticity, 70% clay, 30% silt, trace fine to medium sand.	0
						37			
						38			
						39			
						40			

Recovery Sample

Comments: Color descriptions from Munsell Color Chart.



**SOIL BORING/WELL CONSTRUCTION LOG**

**Boring No. MW-9**

**Sheet: 3 of 3**

Client	<u>Haber Oil Company</u>	Date	<u>July 11, 2012</u>
Address	<u>1401 Grand Avenue</u> <u>San Leandro, California</u>	Drilling Co.	<u>Gregg Drilling</u> rig type: <u>MARL Rhino</u>
Project No.	<u>2120-1401-01</u>	Driller	<u>Vince</u>
Logged By:	<u>Allan Dudding</u>	Method	<u>Hollow Stem Auger</u> Hole Diameter: <u>8 inches</u>
		Sampler:	<u>18 inch long x 2 inch diameter split spoon</u>
Well Pack	sand: <u>35 ft. to 47 ft.</u> bent.: <u>33 ft. to 35 ft.</u> grout: <u>0 ft. to 33 ft.</u>	Well Construction	Casing Material: <u>Schedule 40 PVC</u> Screen Interval: <u>37 to 47 ft.</u> Casing Diameter: <u>2 in.</u> Screen Slot Size: <u>0.020-in.</u> Depth to GW: <u>▽ first encountered: 44 feet bgs</u> <u>▼ Static:</u>

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
S	MW-9-41		0928	100%		41	CL	Silty Clay, CL, dark yellowish brown (10YR 3/4), moist, medium plasticity, 70% clay, 30% silt, trace fine to medium sand.	0
						42			
						43			
S	MW-9-45		0931	50%		44	GP	Gravel, not logged, fine, wet.	0
						45			
						46			
S	MW-9-48		0935	100%		47	SW	Well-graded Sand, SW, dark yellowish brown (10YR 4/4), wet, 90% fine to coarse sand, 10% silt, trace fine gravel.	0
						48			
						49			
						50			
						51			
						52			
						53			
						54			
						55			
						56			
						57			
						58			
						59			
						60			

Recovery Sample

Comments: Color descriptions from Munsell Color Chart.



SOIL BORING/WELL CONSTRUCTION LOG

Boring No. MW-10

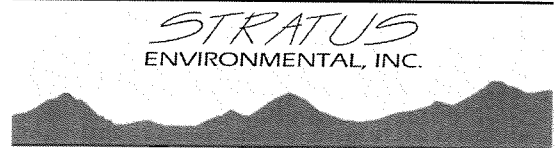
Sheet: 1 of 3

Client	Haber Oil Company	Date	July 11, 2012
Address	1401 Grand Avenue San Leandro, California	Drilling Co.	Gregg Drilling rig type: MARL Rhino
Project No.	2120-1401-01	Method	Hollow Stem Auger <sup>*</sup> Hole Diameter: 8 inches
Logged By:	Allan Dudding	Sampler:	18 inch long x 2 inch diameter split spoon
Well Pack	sand: 33 ft. to 45 ft. bent.: 31 ft. to 33 ft. grout: 0 ft. to 31 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 35 to 45 ft. Casing Diameter: 2 in. Screen Slot Size: 0.020-in.
		Depth to GW:	▽ first encountered: 44 feet bgs ▼ Static:

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
								Sod at surface; boring hand cleared to 5 feet bgs.	
						1			
						2			
						3			
						4			
						5			
S	MW-10-6		1233	100%		6	ML	Clayey Silt, ML, dark brown (10YR 3/3), moist, low to non-plastic, 70% silt, 30% clay, trace fine sand.	0
						7			
						8			
						9			
						10			
S	MW-10-11		1236	100%		11	SP	Poorly-graded Sand, SP, light yellowish brown (10YR 6/4), moist, 90% fine sand, 10% silt.	0
						12			
						13			
						14			
						15			
S	MW-10-16		1240	100%		16	GP	Poorly-graded Gravel, GP, dark brown (10YR 3/3), moist, 60% fine gravel, 30% fine to coarse sand, 10% fines.	0
						17			
						18			
						19			
						20	ML		

Recovery \_\_\_\_\_  
Sample \_\_\_\_\_

Comments: Color descriptions from Munsell Color Chart.





**SOIL BORING/WELL CONSTRUCTION LOG**

**Boring No. MW-10**

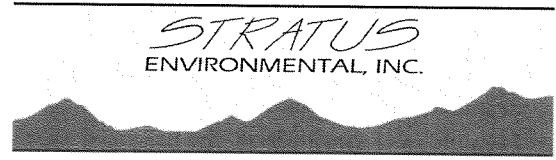
**Sheet: 2 of 3**

Client	Haber Oil Company	Date	July 11, 2012
Address	1401 Grand Avenue San Leandro, California	Drilling Co.	Gregg Drilling rig type: MARL Rhino
Project No.	2120-1401-01	Driller	Vince
Logged By:	Allan Dudding	Method	Hollow Stem Auger' Hole Diameter: 8 inches
Well Pack	sand: 33 ft. to 45 ft. bent.: 31 ft. to 33 ft. grout: 0 ft. to 31 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 35 to 45 ft. Casing Diameter: 2 in. Screen Slot Size: 0.020-in. Depth to GW: ▽ first encountered: 36 feet bgs ▼ Static:

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						21	ML	Sandy, Clayey Silt, ML, brown (10YR 4/3), moist, non-plastic, 50% silt, 30% fine sand, 20% clay.	0
						22			
						23			
						24			
						25			
S	MW-10-26		1251	67%		26	SC	Clayey Sand, some gravel, SC, dark yellowish brown (10YR 4/4), moist, 60% fine to coarse sand, 30% clay, 10% fine gravel.	0
						27			
						28			
						29			
						30			
				0%		31			
						32			
						33			
						34			
						35			
S	MW-10-36		1300	50%		36	GP	Poorly-graded Gravel, GP, dark brown (10YR 3/3), moist to wet, angular as if crushed, 100% gravel, trace fines.	0
						37			
						38			
						39			
S	MW-10-40		1303	50%		40			

Recovery Sample

Comments: Color descriptions from Munsell Color Chart.



**SOIL BORING/WELL CONSTRUCTION LOG**

**Boring No. MW-10**

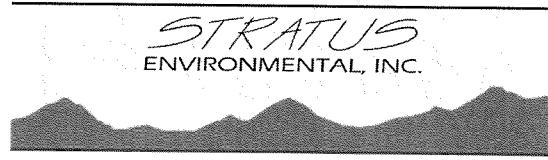
**Sheet: 3 of 3**

Client	Haber Oil Company	Date	July 11, 2012
Address	1401 Grand Avenue San Leandro, California	Drilling Co.	Gregg Drilling rig type: MARL Rhino
Project No.	2120-1401-01	Driller	Vince
Logged By:	Allan Dudding	Method	Hollow Stem Auger <sup>r</sup> Hole Diameter: 8 inches
Well Pack	sand: 33 ft. to 45 ft. bent.: 31 ft. to 33 ft. grout: 0 ft. to 31 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 35 to 45 ft. Casing Diameter: 2 in. Screen Slot Size: 0.020-in. Depth to GW: ▽ first encountered: 44 feet bgs ▼ Static:

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						41			
						42			
						43			
						44			
S	MW-10-45		1320	100%		45	GP	Poorly-graded Gravel, GP, dark brown (10YR 3/3), moist to wet, angular as if crushed, 100% gravel, trace fines.	0
						46			
						47			
						48			
						49			
						50			
						51			
						52			
						53			
						54			
						55			
						56			
						57			
						58			
						59			
						60			

Recovery Sample

Comments: Color descriptions from Munsell Color Chart.



**SOIL BORING/WELL CONSTRUCTION LOG**

**Boring No. VE-1**

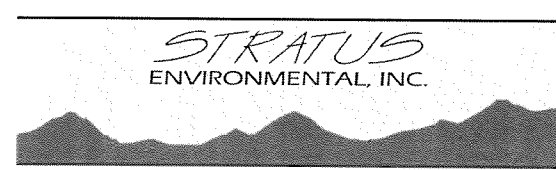
**Sheet: 1 of 2**

Client	Haber Oil Company	Date	July 9, 2012
Address	1401 Grand Avenue San Leandro, California	Drilling Co.	Gregg Drilling rig type: MARL Rhino
Project No.	2120-1401-01	Driller	Vince
Logged By:	Allan Dudding	Method	Hollow Stem Auger/Direct Push Hole Diameter: 8/3 inches
		Sampler:	5 foot long x 2.5 inch diameter acetate sample liners
Well Pack	sand: 13 ft. to 30 ft. bent.: 11 ft. to 13 ft. grout: 0 ft. to 11 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 15 to 30 ft. Casing Diameter: 2 in. Screen Slot Size: 0.020-in.
		Depth to GW:	▽ first encountered: feet bgs ▼ Static:

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						1		Concrete pavement at surface; boring hand cleared to 5 feet bgs.	
						2	CL	Clay with silt, CL, very dark brown (10YR 2/2), medium plasticity, moist, 80% clay, 20% silt.	
						3			
						4			
						5			
						6			
						7			
						8			
						9			
S	VE-1-10		1448			10		As above, dark yellowish brown (10YR 3/4)	0
						11			
						12			
						13			
						14			
S	VE-1-15		1451			15	ML	Clayey Silt, ML, dark yellowish brown (10YR 4/4), low plasticity, moist, 60% silt, 40% clay.	0
						16			
						17			
						18			
						19			
S	VE-1-20		1454			20			0

Recovery Sample

Comments: Color descriptions from Munsell Color Chart.



**SOIL BORING/WELL CONSTRUCTION LOG**

**Boring No. VE-1**

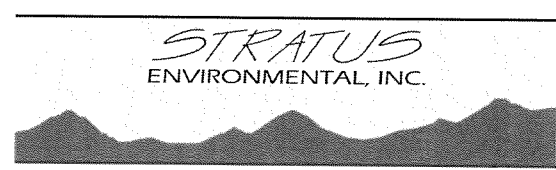
**Sheet: 2 of 2**

Client	Haber Oil Company	Date	July 9, 2012
Address	1401 Grand Avenue San Leandro, California	Drilling Co.	Gregg Drilling rig type: MARL Rhino
Project No.	2120-1401-01	Driller	Vince
Logged By:	Allan Dudding	Method	Hollow Stem Auger/Direct Push Hole Diameter: 8/3 inches
		Sampler:	5 foot long x 2.5 inch diameter acetate sample liners
Well Pack	sand: 13 ft. to 30 ft. bent.: 11 ft. to 13 ft. grout: 0 ft. to 11 ft.	Well Construction	Casing Material: Schedule 40 PVC Casing Diameter: 2 in. Depth to GW: ▽ first encountered: feet bgs
			Screen Interval: 15 to 30 ft. Screen Slot Size: 0.020-in. ▼ Static:

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
						21	ML	Clayey Silt, ML, dark yellowish brown (10YR 4/4), low plasticity, moist, 60% silt, 40% clay.	
						22			
						23			
						24			
S	VE-1-25		1458			25	CL	Silty Clay, CL, dark yellowish brown (10YR 4/4), low plasticity, moist, 60% clay, 40% silt.	0
						26			
						27			
						28			
						29			
S	VE-1-30		1502			30	SC	Clayey Sand, SC, light olive gray (5Y 6/2), moist, 60% fine to medium sand, 40% clay.	0
						31			
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			

Recovery Sample

Comments: Color descriptions from Munsell Color Chart.



**SOIL BORING/WELL CONSTRUCTION LOG**

**Boring No. VE-2**

**Sheet: 1 of 2**

Client	Haber Oil Company	Date	July 12, 2012
Address	1401 Grand Avenue San Leandro, California	Drilling Co.	Gregg Drilling rig type: MARL Rhino
Project No.	2120-1401-01	Driller	Vince
Logged By:	Allan Dudding	Method	Hollow Stem Auger/Direct Push Hole Diameter: 8/2 inches
		Sampler:	4 foot long x 1.5 inch diameter acetate sample liners
Well Pack	sand: 13 ft. to 30 ft. bent.: 11 ft. to 13 ft. grout: 0 ft. to 11 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 15 to 30 ft. Casing Diameter: 2 in. Screen Slot Size: 0.020-in. Depth to GW: ▽ first encountered: feet bgs ▼ Static:

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
						1		Concrete pavement at surface; boring hand cleared to 5 feet bgs.	
						2	CL	Silty Clay, CL, very dark grayish brown (10YR 3/2), moist, medium plasticity, 70% clay, 30% silt.	
						3			
						4			
						5			
						6			
						7			
						8			
						9			
S	VE-2-10		1156			10		As above, brown (10YR 4/3), low plasticity, 60% clay, 40% silt.	0
						11			
						12			
						13			
						14			
S	VE-2-15		1200			15	ML	Clayey Silt, ML, dark yellowish brown (10YR 4/4), moist, low plasticity, 60% silt, 40% silt.	0
						16			
						17			
						18			
						19			
S	VE-2-20		1204			20			0

Recovery Sample

Comments: Color descriptions from Munsell Color Chart.



**SOIL BORING/WELL CONSTRUCTION LOG**

**Boring No. VE-2**

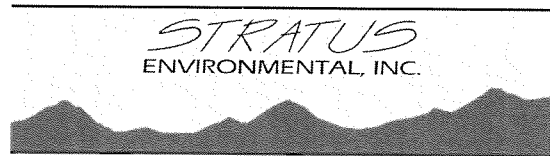
**Sheet: 2 of 2**

Client	Haber Oil Company	Date	July 12, 2012
Address	1401 Grand Avenue San Leandro, California	Drilling Co.	Gregg Drilling rig type: MARL Rhino
Project No.	2120-1401-01	Driller	Vince
Logged By:	Allan Dudding	Method	Hollow Stem Auger/Direct Push Hole Diameter: 8/2 inches
		Sampler:	4 foot long x 1.5 inch diameter acetate sample liners
Well Pack	sand: 13 ft. to 30 ft. bent.: 11 ft. to 13 ft. grout: 0 ft. to 11 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 15 to 30 ft. Casing Diameter: 2 in. Screen Slot Size: 0.020-in. Depth to GW: ▽ first encountered: feet bgs ▼ Static:

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
						21	ML	Clayey Silt, ML, dark yellowish brown (10YR 4/4), moist, low plasticity, 60% silt, 30% clay, 10% fine sand.	
						22			
						23			
						24			
S	VE-2-25		1211			25		As above, very dark gray (5Y 3/1).	0
						26			
						27			
						28	SM	Silty Sand, SM, very dark gray (5Y 3/1), moist, 60% fine sand, 40% silt.	
						29			
S	VE-2-30		1215			30			2.1
						31	SW	Well-graded Sand, SW, very dark gray (5Y 3/1), moist to dry, 70% fine to coarse sand, 20% fine gravel, 10% silt.	
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			

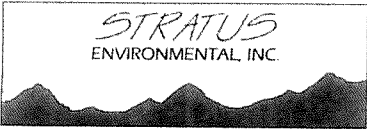
Recovery Sample

Comments: Color descriptions from Munsell Color Chart.



**APPENDIX E**

**FIELD DATA SHEETS FROM WELL DEVELOPMENT  
AND SAMPLING**



Site Address 1401 Grand Ave  
City San Leandro  
Sampled By: PHL  
Signature \_\_\_\_\_

**ORIGINAL**  
Site Number Haber Oil  
Project Number \_\_\_\_\_  
Project PM Steve  
DATE 7-24-12

*Development*

Water Level Data					Purge Volume Calculations					Purge Method				Sample Record			Field Data
Well ID	Time	Depth to Product (feet)	Depth to Water (feet)	Total Depth (feet)	Water Column (feet)	Diameter (inches)	Multiplier	Casing volumes (gallons)	Actual Water Purged (gallons)	No Purge	Bailer	Pump	Other	DTW at sample time (feet)	Sample I.D.	Sample Time	DO (mg/L)
MW 9	0345		40.50	46.0	5.5	2	.16	10	5 DRY		X				0		
MW 10	0410		38.90	44.40	5.5	2	.16	10	15		X				0		
MW 2R	0445		37.83	43.70	5.87	4	.165	38	20 DRY		X	X			0		
MW	0510		39.20	43.65	4.45	2	.16	7	5 DRY		X				0		
<i>Surge Wells with Bailer</i>																	
<i>All wells look good Box + gravel</i>																	
															0		
															0		
															0		
															0		
															0		
															0		
															0		
															0		
															0		
															0		
															0		
															0		
															0		
															0		
															0		
															0		
															0		

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

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

CALIBRATION DATE \_\_\_\_\_  
pH \_\_\_\_\_  
Conductivity \_\_\_\_\_  
DO \_\_\_\_\_





Site Address 1401 Grand Avenue  
 City San Leandro  
 Sampled by: Allan Dudding  
 Signature [Signature]

Site Number Haber Oil  
 Project Number 2120-1401-01  
 Project PM Steve Carter  
 DATE 4/19/12

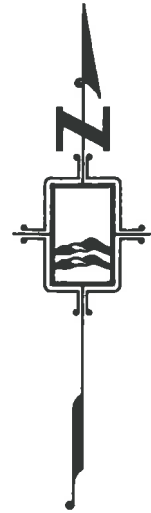
Water Level Data					Purge Volume Calculations					Purge Method				Sample Record			Field Data
Well ID	Water Time	Depth to Product (feet)	Depth to Water (feet)	Total Depth (feet)	Water column (feet)	Diameter (inches)	Multiplier	3 casing volumes (gallons)	Actual water purged (gallons)	No Purge	Bailer	Pump	other	DTW at sample time (feet)	Sample I.D	Sample Time	DO (mg/L)
MW-1R	1677	39.94		44	4.06	2	.5	2.0	3.5		X						
MW-2R	1642	39.10		44	4.90	4	1.0	3.0	10		X				MW-1R	1853	
MW-3	1648	41.33						9.80							MW-2R	1945	
MW-4	1649	38.12															
MW-5	1652	41.07															
MW-6	1655	39.76															
MW-7	1705	41.20															
MW-8	1710	41.34															
MW-9	1702	40.71		47	6.29	2	.5	3.14	4		X				MW-9	1744	
MW-10	1700	39.08		47	7.92	2	.5	3.96	4		X				MW-10	1824	
All DTP R actually DTW																	

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

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

CALIBRATION DATE \_\_\_\_\_  
 pH \_\_\_\_\_  
 Conductivity \_\_\_\_\_  
 DO \_\_\_\_\_

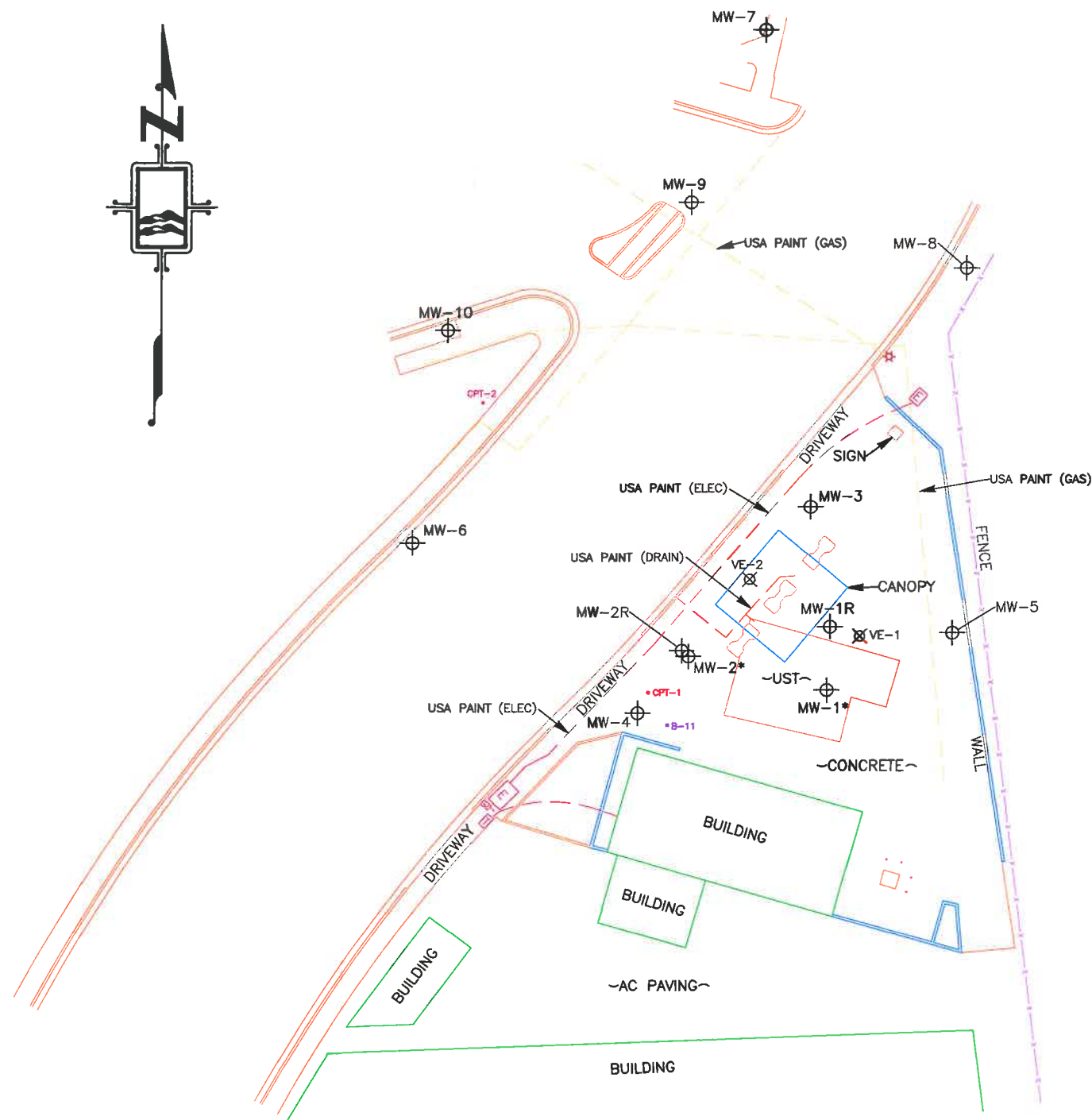
**APPENDIX F**  
**SURVEYOR'S MAP**



# Monitoring Well Exhibit

Prepared For:

## Stratus Environmental



DESC.	NORTHING	EASTING	LATITUDE	LONGITUDE	EL. PVC	EL. RIM
MW-1*	2091785.3	6087738.3	37.7282534	-122.1388214	90.70	91.20
MW-2*	2091794.3	6087702.5	37.7282762	-122.1389459	89.29	89.61
MW-3	2091833.6	6087734.2	37.7283858	-122.1388387	90.15	90.53
MW-4	2091779.3	6087689.1	37.7282344	-122.1389912	88.88	89.32
MW-5	2091800.5	6087771.1	37.7282966	-122.1387090	91.79	92.44
MW-6	2091824.0	6087630.3	37.7283545	-122.1391971	86.73	87.09
MW-7	2091959.3	6087722.4	37.7287303	-122.1388868	89.69	90.15
MW-8	2091896.6	6087774.8	37.7285609	-122.1387020	92.41	92.67

\*MW-1 AND MW-2 DESTROYED.

POINTS SURVEYED ON 7-17-12:

MW-1R	2091802.0	6087739.2	37.7282994	-122.1388193	90.07	90.63
MW-2R	2091795.7	6087700.7	37.7282802	-122.1389520	88.81	89.36
MW-9	2091913.9	6087703.1	37.7286047	-122.1389508	89.06	89.35
MW-10	2091880.0	6087639.4	37.7285087	-122.1391690	87.01**	87.78
VE-1	2091799.6	6087747.0	37.7282931	-122.1387923	90.67	91.01
VE-2	2091814.5	6087718.3	37.7283326	-122.1388923	89.49	89.89
B-11	2091776.2	6087697.0	37.7282264	-122.1389636		
CPT-1	2091784.7	6087692.0	37.7282496	-122.1389815		
CPT-2	2091861.1	6087648.6	37.7284572	-122.1391360		

\*\*TOP OF CAP (UNABLE TO TAKE CAP OFF).

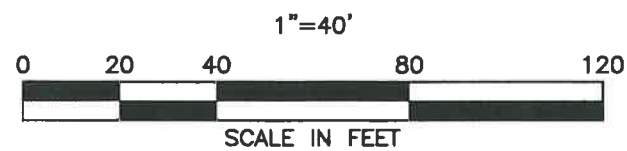
BASIS OF COORDINATES AND ELEVATIONS:

COORDINATES ARE CALIFORNIA STATE PLANE ZONE 3 COORDINATES FROM GPS OBSERVATIONS USING CSDS VIRTUAL SURVEY NETWORK.

COORDINATE DATUM IS NAD 83.

REFERENCE GEOID IS GEOID03.

VERTICAL DATUM IS NAVD 88 FROM GPS OBSERVATIONS.



Former Haber Oil Station  
1401 Grand Ave.  
San Leandro  
Alameda County  
California



1255 Starboard Drive  
West Sacramento  
California 95691  
(916) 372-8124  
mark@morrrowsurveying.com

Date: June, 2011  
Field: 6-15-11  
Scale: 1"=40'  
Sheet 1 of 1  
Revised: 7-26-12  
Field Book: MW-53,57  
Dwg. No. 7502-107 MAM

## **APPENDIX G**

### **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: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005  
Date Received : 07/03/12

Job: 2120-1401-1/Haber Oil

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B  
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 : <b>CPT-1-56-W</b>				
Lab ID : STR12070345-01A	TPH-E (DRO), Silica Gel	ND X	100 µg/L	07/04/12
Date Sampled 06/29/12 16:09	TPH-E (ORO), Silica Gel	ND	500 µg/L	07/04/12
	TPH-P (GRO)	ND	50 µg/L	07/10/12
Client ID : <b>CPT-1-66-W</b>				
Lab ID : STR12070345-02A	TPH-E (DRO), Silica Gel	ND	50 µg/L	07/04/12
Date Sampled 06/29/12 16:52	TPH-E (ORO), Silica Gel	ND	500 µg/L	07/04/12
	TPH-P (GRO)	ND	50 µg/L	07/10/12
Client ID : <b>CPT-1-76-W</b>				
Lab ID : STR12070345-03A	TPH-E (DRO), Silica Gel	ND X	100 µg/L	07/04/12
Date Sampled 06/29/12 17:55	TPH-E (ORO), Silica Gel	ND	500 µg/L	07/04/12
	TPH-P (GRO)	ND	50 µg/L	07/10/12
Client ID : <b>CPT-1-80-W</b>				
Lab ID : STR12070345-04A	TPH-E (DRO), Silica Gel	ND	50 µg/L	07/04/12
Date Sampled 06/29/12 18:36	TPH-E (ORO), Silica Gel	ND	500 µg/L	07/04/12
	TPH-P (GRO)	ND	50 µg/L	07/10/12
Client ID : <b>CPT-2-48-W</b>				
Lab ID : STR12070345-05A	TPH-E (DRO), Silica Gel	ND	50 µg/L	07/04/12
Date Sampled 06/28/12 14:30	TPH-E (ORO), Silica Gel	ND	500 µg/L	07/04/12
	TPH-P (GRO)	ND	50 µg/L	07/10/12
Client ID : <b>CPT-2-58-W</b>				
Lab ID : STR12070345-06A	TPH-E (DRO), Silica Gel	ND X	100 µg/L	07/04/12
Date Sampled 06/28/12 15:11	TPH-E (ORO), Silica Gel	ND	500 µg/L	07/04/12
	TPH-P (GRO)	ND	50 µg/L	07/10/12
Client ID : <b>CPT-2-68-W</b>				
Lab ID : STR12070345-07A	TPH-E (DRO), Silica Gel	ND	50 µg/L	07/04/12
Date Sampled 06/28/12 15:59	TPH-E (ORO), Silica Gel	ND	500 µg/L	07/04/12
	TPH-P (GRO)	ND	50 µg/L	07/10/12
Client ID : <b>CPT-2-85-W</b>				
Lab ID : STR12070345-08A	TPH-E (DRO), Silica Gel	ND X	100 µg/L	07/04/12
Date Sampled 06/28/12 13:36	TPH-E (ORO), Silica Gel	ND	500 µg/L	07/04/12
	TPH-P (GRO)	ND	50 µg/L	07/10/12
Client ID : <b>CPT-1-10-S</b>				
Lab ID : STR12070345-09A	TPH-E (DRO), Silica Gel	ND	5,000 µg/Kg	07/04/12
Date Sampled 06/29/12 09:48	TPH-E (ORO), Silica Gel	ND	10,000 µg/Kg	07/04/12
	TPH-P (GRO)	ND	1,000 µg/Kg	07/10/12



# Alpha Analytical, Inc.

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

Client ID :	<b>CPT-1-20-S</b>						
Lab ID :	STR12070345-10A	TPH-E (DRO), Silica Gel	ND	5,000 µg/Kg	07/04/12	07/05/12	
Date Sampled	06/29/12 09:56	TPH-E (ORO), Silica Gel	ND	10,000 µg/Kg	07/04/12	07/05/12	
		TPH-P (GRO)	ND	1,000 µg/Kg	07/10/12	07/11/12	
Client ID :	<b>CPT-1-30-S</b>						
Lab ID :	STR12070345-11A	TPH-E (DRO), Silica Gel	ND	5,000 µg/Kg	07/04/12	07/05/12	
Date Sampled	06/29/12 10:07	TPH-E (ORO), Silica Gel	ND	10,000 µg/Kg	07/04/12	07/05/12	
		TPH-P (GRO)	8,400	1,000 µg/Kg	07/10/12	07/11/12	
Client ID :	<b>CPT-1-40-S</b>						
Lab ID :	STR12070345-12A	TPH-E (DRO), Silica Gel	ND	5,000 µg/Kg	07/04/12	07/05/12	
Date Sampled	06/29/12 10:24	TPH-E (ORO), Silica Gel	ND	10,000 µg/Kg	07/04/12	07/05/12	
		TPH-P (GRO)	ND	1,000 µg/Kg	07/10/12	07/11/12	
Client ID :	<b>CPT-1-50-S</b>						
Lab ID :	STR12070345-13A	TPH-E (DRO), Silica Gel	ND	5,000 µg/Kg	07/04/12	07/05/12	
Date Sampled	06/29/12 11:06	TPH-E (ORO), Silica Gel	ND	10,000 µg/Kg	07/04/12	07/05/12	
		TPH-P (GRO)	ND	1,000 µg/Kg	07/10/12	07/11/12	
Client ID :	<b>CPT-1-60-S</b>						
Lab ID :	STR12070345-14A	TPH-E (DRO), Silica Gel	ND	5,000 µg/Kg	07/04/12	07/05/12	
Date Sampled	06/29/12 11:31	TPH-E (ORO), Silica Gel	ND	10,000 µg/Kg	07/04/12	07/05/12	
		TPH-P (GRO)	ND	1,000 µg/Kg	07/10/12	07/11/12	
Client ID :	<b>CPT-1-70-S</b>						
Lab ID :	STR12070345-15A	TPH-E (DRO), Silica Gel	ND	5,000 µg/Kg	07/04/12	07/05/12	
Date Sampled	06/29/12 12:16	TPH-E (ORO), Silica Gel	ND	10,000 µg/Kg	07/04/12	07/05/12	
		TPH-P (GRO)	ND	1,000 µg/Kg	07/10/12	07/11/12	
Client ID :	<b>CPT-1-80-S</b>						
Lab ID :	STR12070345-16A	TPH-E (DRO), Silica Gel	ND	5,000 µg/Kg	07/04/12	07/06/12	
Date Sampled	06/29/12 13:49	TPH-E (ORO), Silica Gel	ND	10,000 µg/Kg	07/04/12	07/06/12	
		TPH-P (GRO)	ND	1,000 µg/Kg	07/10/12	07/11/12	
Client ID :	<b>CPT-1-90-S</b>						
Lab ID :	STR12070345-17A	TPH-E (DRO), Silica Gel	ND	5,000 µg/Kg	07/04/12	07/06/12	
Date Sampled	06/29/12 14:33	TPH-E (ORO), Silica Gel	ND	10,000 µg/Kg	07/04/12	07/06/12	
		TPH-P (GRO)	ND	1,000 µg/Kg	07/10/12	07/11/12	
Client ID :	<b>CPT-2-40-S</b>						
Lab ID :	STR12070345-18A	TPH-P (GRO)	ND	1,000 µg/Kg	07/10/12	07/11/12	
Date Sampled	06/28/12 10:48	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/10/12	07/11/12	
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/10/12	07/11/12	
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/10/12	07/11/12	
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/10/12	07/11/12	
		1,2-Dichloroethane	ND	20 µg/Kg	07/10/12	07/11/12	
		Benzene	ND	5.0 µg/Kg	07/10/12	07/11/12	
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/10/12	07/11/12	
		Toluene	ND	5.0 µg/Kg	07/10/12	07/11/12	
		Ethylbenzene	ND	5.0 µg/Kg	07/10/12	07/11/12	
		m,p-Xylene	ND	5.0 µg/Kg	07/10/12	07/11/12	
		o-Xylene	ND	5.0 µg/Kg	07/10/12	07/11/12	
		1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg	07/10/12	07/11/12	



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Client ID : **CPT-2-50-S**

Lab ID : STR12070345-19A

Date Sampled 06/28/12 11:13

TPH-P (GRO)	ND	1,000 µg/Kg	07/10/12	07/11/12
Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/10/12	07/11/12
Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/10/12	07/11/12
Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/10/12	07/11/12
Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/10/12	07/11/12
1,2-Dichloroethane	ND	20 µg/Kg	07/10/12	07/11/12
Benzene	ND	5.0 µg/Kg	07/10/12	07/11/12
Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/10/12	07/11/12
Toluene	ND	5.0 µg/Kg	07/10/12	07/11/12
Ethylbenzene	ND	5.0 µg/Kg	07/10/12	07/11/12
m,p-Xylene	ND	5.0 µg/Kg	07/10/12	07/11/12
o-Xylene	ND	5.0 µg/Kg	07/10/12	07/11/12
1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg	07/10/12	07/11/12

Client ID : **CPT-2-60-S**

Lab ID : STR12070345-20A

Date Sampled 06/28/12 11:42

TPH-P (GRO)	ND	1,000 µg/Kg	07/10/12	07/11/12
Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/10/12	07/11/12
Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/10/12	07/11/12
Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/10/12	07/11/12
Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/10/12	07/11/12
1,2-Dichloroethane	ND	20 µg/Kg	07/10/12	07/11/12
Benzene	ND	5.0 µg/Kg	07/10/12	07/11/12
Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/10/12	07/11/12
Toluene	ND	5.0 µg/Kg	07/10/12	07/11/12
Ethylbenzene	ND	5.0 µg/Kg	07/10/12	07/11/12
m,p-Xylene	ND	5.0 µg/Kg	07/10/12	07/11/12
o-Xylene	ND	5.0 µg/Kg	07/10/12	07/11/12
1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg	07/10/12	07/11/12

Client ID : **CPT-2-70-S**

Lab ID : STR12070345-21A

Date Sampled 06/28/12 12:16

TPH-P (GRO)	ND	1,000 µg/Kg	07/10/12	07/11/12
Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/10/12	07/11/12
Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/10/12	07/11/12
Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/10/12	07/11/12
Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/10/12	07/11/12
1,2-Dichloroethane	ND	20 µg/Kg	07/10/12	07/11/12
Benzene	ND	5.0 µg/Kg	07/10/12	07/11/12
Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/10/12	07/11/12
Toluene	ND	5.0 µg/Kg	07/10/12	07/11/12
Ethylbenzene	ND	5.0 µg/Kg	07/10/12	07/11/12
m,p-Xylene	ND	5.0 µg/Kg	07/10/12	07/11/12
o-Xylene	ND	5.0 µg/Kg	07/10/12	07/11/12
1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg	07/10/12	07/11/12

Client ID : **CPT-2-80-S**

Lab ID : STR12070345-22A

Date Sampled 06/28/12 12:40

TPH-P (GRO)	ND	1,000 µg/Kg	07/10/12	07/11/12
Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/10/12	07/11/12
Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/10/12	07/11/12
Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/10/12	07/11/12
Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/10/12	07/11/12
1,2-Dichloroethane	ND	20 µg/Kg	07/10/12	07/11/12
Benzene	ND	5.0 µg/Kg	07/10/12	07/11/12
Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/10/12	07/11/12
Toluene	ND	5.0 µg/Kg	07/10/12	07/11/12
Ethylbenzene	ND	5.0 µg/Kg	07/10/12	07/11/12
m,p-Xylene	ND	5.0 µg/Kg	07/10/12	07/11/12
o-Xylene	ND	5.0 µg/Kg	07/10/12	07/11/12
1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg	07/10/12	07/11/12



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Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

Oil Range Organics (ORO) C22-C40+

Reported in micrograms per Kilogram and micrograms per Liter, per client request.

X = Reporting Limits were increased due to sample matrix interferences.

Sample results were calculated on a wet weight basis.

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  
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*7/12/12*

**Report Date**





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## ANALYTICAL REPORT

Stratus Environmental  
3330 Cameron Park Drive  
Cameron Park, CA 956828861  
Job: 2120-1401-1/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12070345-01A  
Client I.D. Number: CPT-1-56-W

Sampled: 06/29/12 16:09  
Received: 07/03/12  
Extracted: 07/10/12  
Analyzed: 07/10/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	36 1,2-Dibromoethane (EDB)	ND	2.0 µg/L
2 Chloromethane	ND	2.0 µg/L	37 Tetrachloroethene	ND	1.0 µg/L
3 Vinyl chloride	ND	1.0 µg/L	38 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L
4 Chloroethane	ND	1.0 µg/L	39 Chlorobenzene	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	40 Ethylbenzene	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	1.0 µg/L	41 m,p-Xylene	ND	0.50 µg/L
7 Acrolein	ND	100 µg/L	42 Bromoform	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	43 Styrene	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	100	10 µg/L	44 o-Xylene	ND	0.50 µg/L
10 Dichloromethane	ND	2.0 µg/L	45 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
11 trans-1,2-Dichloroethene	ND	1.0 µg/L	46 1,2,3-Trichloropropane	ND	2.0 µg/L
12 Methyl tert-butyl ether (MTBE)	1.1	0.50 µg/L	47 Isopropylbenzene	ND	1.0 µg/L
13 1,1-Dichloroethane	ND	1.0 µg/L	48 Bromobenzene	ND	1.0 µg/L
14 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	49 n-Propylbenzene	ND	1.0 µg/L
15 cis-1,2-Dichloroethene	ND	1.0 µg/L	50 4-Chlorotoluene	ND	1.0 µg/L
16 Bromochloromethane	ND	1.0 µg/L	51 2-Chlorotoluene	ND	1.0 µg/L
17 Chloroform	ND	1.0 µg/L	52 1,3,5-Trimethylbenzene	ND	1.0 µg/L
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	53 tert-Butylbenzene	ND	1.0 µg/L
19 2,2-Dichloropropane	ND	1.0 µg/L	54 1,2,4-Trimethylbenzene	ND	1.0 µg/L
20 1,2-Dichloroethane	ND	1.0 µg/L	55 sec-Butylbenzene	ND	1.0 µg/L
21 1,1,1-Trichloroethane	ND	1.0 µg/L	56 1,3-Dichlorobenzene	ND	1.0 µg/L
22 1,1-Dichloropropene	ND	1.0 µg/L	57 1,4-Dichlorobenzene	ND	1.0 µg/L
23 Carbon tetrachloride	ND	1.0 µg/L	58 4-Isopropyltoluene	ND	1.0 µg/L
24 Benzene	ND	0.50 µg/L	59 1,2-Dichlorobenzene	ND	1.0 µg/L
25 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	60 n-Butylbenzene	ND	1.0 µg/L
26 Dibromomethane	ND	1.0 µg/L	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	3.0 µg/L
27 1,2-Dichloropropane	ND	1.0 µg/L	62 1,2,4-Trichlorobenzene	ND	2.0 µg/L
28 Trichloroethene	ND	1.0 µg/L	63 Naphthalene	ND	2.0 µg/L
29 Bromodichloromethane	ND	1.0 µg/L	64 Hexachlorobutadiene	ND	2.0 µg/L
30 cis-1,3-Dichloropropene	ND	1.0 µg/L	65 1,2,3-Trichlorobenzene	ND	2.0 µg/L
31 trans-1,3-Dichloropropene	ND	1.0 µg/L			
32 1,1,2-Trichloroethane	ND	1.0 µg/L			
33 Toluene	ND	0.50 µg/L			
34 1,3-Dichloropropane	ND	1.0 µg/L			
35 Dibromochloromethane	ND	1.0 µg/L			

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

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*  
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# Alpha Analytical, Inc.

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

Stratus Environmental  
3330 Cameron Park Drive  
Cameron Park, CA 956828861  
Job: 2120-1401-1/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12070345-02A  
Client I.D. Number: CPT-1-66-W

Sampled: 06/29/12 16:52  
Received: 07/03/12  
Extracted: 07/10/12  
Analyzed: 07/10/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	36 1,2-Dibromoethane (EDB)	ND	2.0 µg/L
2 Chloromethane	ND	2.0 µg/L	37 Tetrachloroethene	ND	1.0 µg/L
3 Vinyl chloride	ND	1.0 µg/L	38 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L
4 Chloroethane	ND	1.0 µg/L	39 Chlorobenzene	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	40 Ethylbenzene	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	1.0 µg/L	41 m,p-Xylene	ND	0.50 µg/L
7 Acrolein	ND	100 µg/L	42 Bromoform	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	43 Styrene	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	44 o-Xylene	ND	0.50 µg/L
10 Dichloromethane	ND	2.0 µg/L	45 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
11 trans-1,2-Dichloroethene	ND	1.0 µg/L	46 1,2,3-Trichloropropane	ND	2.0 µg/L
12 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	47 Isopropylbenzene	ND	1.0 µg/L
13 1,1-Dichloroethane	ND	1.0 µg/L	48 Bromobenzene	ND	1.0 µg/L
14 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	49 n-Propylbenzene	ND	1.0 µg/L
15 cis-1,2-Dichloroethene	ND	1.0 µg/L	50 4-Chlorotoluene	ND	1.0 µg/L
16 Bromochloromethane	ND	1.0 µg/L	51 2-Chlorotoluene	ND	1.0 µg/L
17 Chloroform	ND	1.0 µg/L	52 1,3,5-Trimethylbenzene	ND	1.0 µg/L
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	53 tert-Butylbenzene	ND	1.0 µg/L
19 2,2-Dichloropropane	ND	1.0 µg/L	54 1,2,4-Trimethylbenzene	ND	1.0 µg/L
20 1,2-Dichloroethane	ND	1.0 µg/L	55 sec-Butylbenzene	ND	1.0 µg/L
21 1,1,1-Trichloroethane	ND	1.0 µg/L	56 1,3-Dichlorobenzene	ND	1.0 µg/L
22 1,1-Dichloropropene	ND	1.0 µg/L	57 1,4-Dichlorobenzene	ND	1.0 µg/L
23 Carbon tetrachloride	ND	1.0 µg/L	58 4-Isopropyltoluene	ND	1.0 µg/L
24 Benzene	ND	0.50 µg/L	59 1,2-Dichlorobenzene	ND	1.0 µg/L
25 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	60 n-Butylbenzene	ND	1.0 µg/L
26 Dibromomethane	ND	1.0 µg/L	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	3.0 µg/L
27 1,2-Dichloropropane	ND	1.0 µg/L	62 1,2,4-Trichlorobenzene	ND	2.0 µg/L
28 Trichloroethene	ND	1.0 µg/L	63 Naphthalene	ND	2.0 µg/L
29 Bromodichloromethane	ND	1.0 µg/L	64 Hexachlorobutadiene	ND	2.0 µg/L
30 cis-1,3-Dichloropropene	ND	1.0 µg/L	65 1,2,3-Trichlorobenzene	ND	2.0 µg/L
31 trans-1,3-Dichloropropene	ND	1.0 µg/L			
32 1,1,2-Trichloroethane	ND	1.0 µg/L			
33 Toluene	ND	0.50 µg/L			
34 1,3-Dichloropropane	ND	1.0 µg/L			
35 Dibromochloromethane	ND	1.0 µg/L			

Sample results were calculated on a wet weight basis.  
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  
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# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

Stratus Environmental  
3330 Cameron Park Drive  
Cameron Park, CA 956828861  
Job: 2120-1401-1/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12070345-03A  
Client I.D. Number: CPT-1-76-W

Sampled: 06/29/12 17:55  
Received: 07/03/12  
Extracted: 07/10/12  
Analyzed: 07/10/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	36 1,2-Dibromoethane (EDB)	ND	2.0 µg/L
2 Chloromethane	ND	2.0 µg/L	37 Tetrachloroethene	ND	1.0 µg/L
3 Vinyl chloride	ND	1.0 µg/L	38 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L
4 Chloroethane	ND	1.0 µg/L	39 Chlorobenzene	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	40 Ethylbenzene	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	1.0 µg/L	41 m,p-Xylene	ND	0.50 µg/L
7 Acrolein	ND	100 µg/L	42 Bromoform	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	43 Styrene	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	44 o-Xylene	ND	0.50 µg/L
10 Dichloromethane	ND	2.0 µg/L	45 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
11 trans-1,2-Dichloroethene	ND	1.0 µg/L	46 1,2,3-Trichloropropane	ND	2.0 µg/L
12 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	47 Isopropylbenzene	ND	1.0 µg/L
13 1,1-Dichloroethane	ND	1.0 µg/L	48 Bromobenzene	ND	1.0 µg/L
14 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	49 n-Propylbenzene	ND	1.0 µg/L
15 cis-1,2-Dichloroethene	ND	1.0 µg/L	50 4-Chlorotoluene	ND	1.0 µg/L
16 Bromochloromethane	ND	1.0 µg/L	51 2-Chlorotoluene	ND	1.0 µg/L
17 Chloroform	ND	1.0 µg/L	52 1,3,5-Trimethylbenzene	ND	1.0 µg/L
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	53 tert-Butylbenzene	ND	1.0 µg/L
19 2,2-Dichloropropane	ND	1.0 µg/L	54 1,2,4-Trimethylbenzene	ND	1.0 µg/L
20 1,2-Dichloroethane	ND	1.0 µg/L	55 sec-Butylbenzene	ND	1.0 µg/L
21 1,1,1-Trichloroethane	ND	1.0 µg/L	56 1,3-Dichlorobenzene	ND	1.0 µg/L
22 1,1-Dichloropropene	ND	1.0 µg/L	57 1,4-Dichlorobenzene	ND	1.0 µg/L
23 Carbon tetrachloride	ND	1.0 µg/L	58 4-Isopropyltoluene	ND	1.0 µg/L
24 Benzene	ND	0.50 µg/L	59 1,2-Dichlorobenzene	ND	1.0 µg/L
25 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	60 n-Butylbenzene	ND	1.0 µg/L
26 Dibromomethane	ND	1.0 µg/L	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	3.0 µg/L
27 1,2-Dichloropropane	ND	1.0 µg/L	62 1,2,4-Trichlorobenzene	ND	2.0 µg/L
28 Trichloroethene	ND	1.0 µg/L	63 Naphthalene	ND	2.0 µg/L
29 Bromodichloromethane	ND	1.0 µg/L	64 Hexachlorobutadiene	ND	2.0 µg/L
30 cis-1,3-Dichloropropene	ND	1.0 µg/L	65 1,2,3-Trichlorobenzene	ND	2.0 µg/L
31 trans-1,3-Dichloropropene	ND	1.0 µg/L			
32 1,1,2-Trichloroethane	ND	1.0 µg/L			
33 Toluene	ND	0.50 µg/L			
34 1,3-Dichloropropane	ND	1.0 µg/L			
35 Dibromochloromethane	ND	1.0 µg/L			

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

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# 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  
Job: 2120-1401-1/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12070345-04A  
Client I.D. Number: CPT-1-80-W

Sampled: 06/29/12 18:36  
Received: 07/03/12  
Extracted: 07/10/12  
Analyzed: 07/10/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	36 1,2-Dibromoethane (EDB)	ND	2.0 µg/L
2 Chloromethane	ND	2.0 µg/L	37 Tetrachloroethene	ND	1.0 µg/L
3 Vinyl chloride	ND	1.0 µg/L	38 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L
4 Chloroethane	ND	1.0 µg/L	39 Chlorobenzene	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	40 Ethylbenzene	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	1.0 µg/L	41 m,p-Xylene	ND	0.50 µg/L
7 Acrolein	ND	100 µg/L	42 Bromoform	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	43 Styrene	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	44 o-Xylene	ND	0.50 µg/L
10 Dichloromethane	ND	2.0 µg/L	45 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
11 trans-1,2-Dichloroethene	ND	1.0 µg/L	46 1,2,3-Trichloropropane	ND	2.0 µg/L
12 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	47 Isopropylbenzene	ND	1.0 µg/L
13 1,1-Dichloroethane	ND	1.0 µg/L	48 Bromobenzene	ND	1.0 µg/L
14 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	49 n-Propylbenzene	ND	1.0 µg/L
15 cis-1,2-Dichloroethene	ND	1.0 µg/L	50 4-Chlorotoluene	ND	1.0 µg/L
16 Bromochloromethane	ND	1.0 µg/L	51 2-Chlorotoluene	ND	1.0 µg/L
17 Chloroform	ND	1.0 µg/L	52 1,3,5-Trimethylbenzene	ND	1.0 µg/L
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	53 tert-Butylbenzene	ND	1.0 µg/L
19 2,2-Dichloropropane	ND	1.0 µg/L	54 1,2,4-Trimethylbenzene	ND	1.0 µg/L
20 1,2-Dichloroethane	ND	1.0 µg/L	55 sec-Butylbenzene	ND	1.0 µg/L
21 1,1,1-Trichloroethane	ND	1.0 µg/L	56 1,3-Dichlorobenzene	ND	1.0 µg/L
22 1,1-Dichloropropene	ND	1.0 µg/L	57 1,4-Dichlorobenzene	ND	1.0 µg/L
23 Carbon tetrachloride	ND	1.0 µg/L	58 4-isopropyltoluene	ND	1.0 µg/L
24 Benzene	ND	0.50 µg/L	59 1,2-Dichlorobenzene	ND	1.0 µg/L
25 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	60 n-Butylbenzene	ND	1.0 µg/L
26 Dibromomethane	ND	1.0 µg/L	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	3.0 µg/L
27 1,2-Dichloropropane	ND	1.0 µg/L	62 1,2,4-Trichlorobenzene	ND	2.0 µg/L
28 Trichloroethene	ND	1.0 µg/L	63 Naphthalene	ND	2.0 µg/L
29 Bromodichloromethane	ND	1.0 µg/L	64 Hexachlorobutadiene	ND	2.0 µg/L
30 cis-1,3-Dichloropropene	ND	1.0 µg/L	65 1,2,3-Trichlorobenzene	ND	2.0 µg/L
31 trans-1,3-Dichloropropene	ND	1.0 µg/L			
32 1,1,2-Trichloroethane	ND	1.0 µg/L			
33 Toluene	ND	0.50 µg/L			
34 1,3-Dichloropropane	ND	1.0 µg/L			
35 Dibromochloromethane	ND	1.0 µg/L			

Sample results were calculated on a wet weight basis.  
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) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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7/12/12

Report Date

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# 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  
Job: 2120-1401-1/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12070345-05A  
Client I.D. Number: CPT-2-48-W

Sampled: 06/28/12 14:30  
Received: 07/03/12  
Extracted: 07/10/12  
Analyzed: 07/10/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	36 1,2-Dibromoethane (EDB)	ND	2.0 µg/L
2 Chloromethane	ND	2.0 µg/L	37 Tetrachloroethene	ND	1.0 µg/L
3 Vinyl chloride	ND	1.0 µg/L	38 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L
4 Chloroethane	ND	1.0 µg/L	39 Chlorobenzene	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	40 Ethylbenzene	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	1.0 µg/L	41 m,p-Xylene	ND	0.50 µg/L
7 Acrolein	ND	100 µg/L	42 Bromoform	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	43 Styrene	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	44 o-Xylene	ND	0.50 µg/L
10 Dichloromethane	ND	2.0 µg/L	45 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
11 trans-1,2-Dichloroethene	ND	1.0 µg/L	46 1,2,3-Trichloropropane	ND	2.0 µg/L
12 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	47 Isopropylbenzene	ND	1.0 µg/L
13 1,1-Dichloroethane	ND	1.0 µg/L	48 Bromobenzene	ND	1.0 µg/L
14 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	49 n-Propylbenzene	ND	1.0 µg/L
15 cis-1,2-Dichloroethene	ND	1.0 µg/L	50 4-Chlorotoluene	ND	1.0 µg/L
16 Bromochloromethane	ND	1.0 µg/L	51 2-Chlorotoluene	ND	1.0 µg/L
17 Chloroform	ND	1.0 µg/L	52 1,3,5-Trimethylbenzene	ND	1.0 µg/L
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	53 tert-Butylbenzene	ND	1.0 µg/L
19 2,2-Dichloropropane	ND	1.0 µg/L	54 1,2,4-Trimethylbenzene	ND	1.0 µg/L
20 1,2-Dichloroethane	ND	1.0 µg/L	55 sec-Butylbenzene	ND	1.0 µg/L
21 1,1,1-Trichloroethane	ND	1.0 µg/L	56 1,3-Dichlorobenzene	ND	1.0 µg/L
22 1,1-Dichloropropene	ND	1.0 µg/L	57 1,4-Dichlorobenzene	ND	1.0 µg/L
23 Carbon tetrachloride	ND	1.0 µg/L	58 4-Isopropyltoluene	ND	1.0 µg/L
24 Benzene	ND	0.50 µg/L	59 1,2-Dichlorobenzene	ND	1.0 µg/L
25 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	60 n-Butylbenzene	ND	1.0 µg/L
26 Dibromomethane	ND	1.0 µg/L	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	3.0 µg/L
27 1,2-Dichloropropane	ND	1.0 µg/L	62 1,2,4-Trichlorobenzene	ND	2.0 µg/L
28 Trichloroethene	ND	1.0 µg/L	63 Naphthalene	ND	2.0 µg/L
29 Bromodichloromethane	ND	1.0 µg/L	64 Hexachlorobutadiene	ND	2.0 µg/L
30 cis-1,3-Dichloropropene	ND	1.0 µg/L	65 1,2,3-Trichlorobenzene	ND	2.0 µg/L
31 trans-1,3-Dichloropropene	ND	1.0 µg/L			
32 1,1,2-Trichloroethane	ND	1.0 µg/L			
33 Toluene	ND	0.50 µg/L			
34 1,3-Dichloropropane	ND	1.0 µg/L			
35 Dibromochloromethane	ND	1.0 µg/L			

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

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# 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  
Job: 2120-1401-1/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12070345-06A  
Client I.D. Number: CPT-2-58-W

Sampled: 06/28/12 15:11  
Received: 07/03/12  
Extracted: 07/10/12  
Analyzed: 07/10/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	36 1,2-Dibromoethane (EDB)	ND	2.0 µg/L
2 Chloromethane	ND	2.0 µg/L	37 Tetrachloroethene	ND	1.0 µg/L
3 Vinyl chloride	ND	1.0 µg/L	38 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L
4 Chloroethane	ND	1.0 µg/L	39 Chlorobenzene	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	40 Ethylbenzene	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	1.0 µg/L	41 m,p-Xylene	ND	0.50 µg/L
7 Acrolein	ND	100 µg/L	42 Bromoform	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	43 Styrene	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	44 o-Xylene	ND	0.50 µg/L
10 Dichloromethane	ND	2.0 µg/L	45 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
11 trans-1,2-Dichloroethene	ND	1.0 µg/L	46 1,2,3-Trichloropropane	ND	2.0 µg/L
12 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	47 Isopropylbenzene	ND	1.0 µg/L
13 1,1-Dichloroethane	ND	1.0 µg/L	48 Bromobenzene	ND	1.0 µg/L
14 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	49 n-Propylbenzene	ND	1.0 µg/L
15 cis-1,2-Dichloroethene	ND	1.0 µg/L	50 4-Chlorotoluene	ND	1.0 µg/L
16 Bromochloromethane	ND	1.0 µg/L	51 2-Chlorotoluene	ND	1.0 µg/L
17 Chloroform	ND	1.0 µg/L	52 1,3,5-Trimethylbenzene	ND	1.0 µg/L
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	53 tert-Butylbenzene	ND	1.0 µg/L
19 2,2-Dichloropropane	ND	1.0 µg/L	54 1,2,4-Trimethylbenzene	ND	1.0 µg/L
20 1,2-Dichloroethane	ND	1.0 µg/L	55 sec-Butylbenzene	ND	1.0 µg/L
21 1,1,1-Trichloroethane	ND	1.0 µg/L	56 1,3-Dichlorobenzene	ND	1.0 µg/L
22 1,1-Dichloropropene	ND	1.0 µg/L	57 1,4-Dichlorobenzene	ND	1.0 µg/L
23 Carbon tetrachloride	ND	1.0 µg/L	58 4-Isopropyltoluene	ND	1.0 µg/L
24 Benzene	ND	0.50 µg/L	59 1,2-Dichlorobenzene	ND	1.0 µg/L
25 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	60 n-Butylbenzene	ND	1.0 µg/L
26 Dibromomethane	ND	1.0 µg/L	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	3.0 µg/L
27 1,2-Dichloropropane	ND	1.0 µg/L	62 1,2,4-Trichlorobenzene	ND	2.0 µg/L
28 Trichloroethene	ND	1.0 µg/L	63 Naphthalene	ND	2.0 µg/L
29 Bromodichloromethane	ND	1.0 µg/L	64 Hexachlorobutadiene	ND	2.0 µg/L
30 cis-1,3-Dichloropropene	ND	1.0 µg/L	65 1,2,3-Trichlorobenzene	ND	2.0 µg/L
31 trans-1,3-Dichloropropene	ND	1.0 µg/L			
32 1,1,2-Trichloroethane	ND	1.0 µg/L			
33 Toluene	ND	0.50 µg/L			
34 1,3-Dichloropropane	ND	1.0 µg/L			
35 Dibromochloromethane	ND	1.0 µg/L			

Sample results were calculated on a wet weight basis.  
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  
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## ANALYTICAL REPORT

Stratus Environmental  
3330 Cameron Park Drive  
Cameron Park, CA 956828861  
Job: 2120-1401-1/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12070345-07A  
Client I.D. Number: CPT-2-68-W

Sampled: 06/28/12 15:59  
Received: 07/03/12  
Extracted: 07/10/12  
Analyzed: 07/10/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	36 1,2-Dibromoethane (EDB)	ND	2.0 µg/L
2 Chloromethane	ND	2.0 µg/L	37 Tetrachloroethene	ND	1.0 µg/L
3 Vinyl chloride	ND	1.0 µg/L	38 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L
4 Chloroethane	ND	1.0 µg/L	39 Chlorobenzene	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	40 Ethylbenzene	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	1.0 µg/L	41 m,p-Xylene	ND	0.50 µg/L
7 Acrolein	ND	100 µg/L	42 Bromoform	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	43 Styrene	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	44 o-Xylene	ND	0.50 µg/L
10 Dichloromethane	ND	2.0 µg/L	45 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
11 trans-1,2-Dichloroethene	ND	1.0 µg/L	46 1,2,3-Trichloropropane	ND	2.0 µg/L
12 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	47 Isopropylbenzene	ND	1.0 µg/L
13 1,1-Dichloroethane	ND	1.0 µg/L	48 Bromobenzene	ND	1.0 µg/L
14 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	49 n-Propylbenzene	ND	1.0 µg/L
15 cis-1,2-Dichloroethene	ND	1.0 µg/L	50 4-Chlorotoluene	ND	1.0 µg/L
16 Bromochloromethane	ND	1.0 µg/L	51 2-Chlorotoluene	ND	1.0 µg/L
17 Chloroform	ND	1.0 µg/L	52 1,3,5-Trimethylbenzene	ND	1.0 µg/L
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	53 tert-Butylbenzene	ND	1.0 µg/L
19 2,2-Dichloropropane	ND	1.0 µg/L	54 1,2,4-Trimethylbenzene	ND	1.0 µg/L
20 1,2-Dichloroethane	ND	1.0 µg/L	55 sec-Butylbenzene	ND	1.0 µg/L
21 1,1,1-Trichloroethane	ND	1.0 µg/L	56 1,3-Dichlorobenzene	ND	1.0 µg/L
22 1,1-Dichloropropene	ND	1.0 µg/L	57 1,4-Dichlorobenzene	ND	1.0 µg/L
23 Carbon tetrachloride	ND	1.0 µg/L	58 4-Isopropyltoluene	ND	1.0 µg/L
24 Benzene	ND	0.50 µg/L	59 1,2-Dichlorobenzene	ND	1.0 µg/L
25 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	60 n-Butylbenzene	ND	1.0 µg/L
26 Dibromomethane	ND	1.0 µg/L	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	3.0 µg/L
27 1,2-Dichloropropane	ND	1.0 µg/L	62 1,2,4-Trichlorobenzene	ND	2.0 µg/L
28 Trichloroethene	ND	1.0 µg/L	63 Naphthalene	ND	2.0 µg/L
29 Bromodichloromethane	ND	1.0 µg/L	64 Hexachlorobutadiene	ND	2.0 µg/L
30 cis-1,3-Dichloropropene	ND	1.0 µg/L	65 1,2,3-Trichlorobenzene	ND	2.0 µg/L
31 trans-1,3-Dichloropropene	ND	1.0 µg/L			
32 1,1,2-Trichloroethane	ND	1.0 µg/L			
33 Toluene	ND	0.50 µg/L			
34 1,3-Dichloropropane	ND	1.0 µg/L			
35 Dibromochloromethane	ND	1.0 µg/L			

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

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## ANALYTICAL REPORT

Stratus Environmental  
3330 Cameron Park Drive  
Cameron Park, CA 956828861  
Job: 2120-1401-1/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12070345-08A  
Client I.D. Number: CPT-2-85-W

Sampled: 06/28/12 13:36  
Received: 07/03/12  
Extracted: 07/10/12  
Analyzed: 07/10/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	36 1,2-Dibromoethane (EDB)	ND	2.0 µg/L
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4 Chloroethane	ND	1.0 µg/L	39 Chlorobenzene	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	40 Ethylbenzene	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	1.0 µg/L	41 m,p-Xylene	ND	0.50 µg/L
7 Acrolein	ND	100 µg/L	42 Bromoform	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	43 Styrene	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	44 o-Xylene	ND	0.50 µg/L
10 Dichloromethane	ND	2.0 µg/L	45 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
11 trans-1,2-Dichloroethene	ND	1.0 µg/L	46 1,2,3-Trichloropropane	ND	2.0 µg/L
12 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	47 Isopropylbenzene	ND	1.0 µg/L
13 1,1-Dichloroethane	ND	1.0 µg/L	48 Bromobenzene	ND	1.0 µg/L
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18 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	53 tert-Butylbenzene	ND	1.0 µg/L
19 2,2-Dichloropropane	ND	1.0 µg/L	54 1,2,4-Trimethylbenzene	ND	1.0 µg/L
20 1,2-Dichloroethane	ND	1.0 µg/L	55 sec-Butylbenzene	ND	1.0 µg/L
21 1,1,1-Trichloroethane	ND	1.0 µg/L	56 1,3-Dichlorobenzene	ND	1.0 µg/L
22 1,1-Dichloropropene	ND	1.0 µg/L	57 1,4-Dichlorobenzene	ND	1.0 µg/L
23 Carbon tetrachloride	ND	1.0 µg/L	58 4-Isopropyltoluene	ND	1.0 µg/L
24 Benzene	ND	0.50 µg/L	59 1,2-Dichlorobenzene	ND	1.0 µg/L
25 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	60 n-Butylbenzene	ND	1.0 µg/L
26 Dibromomethane	ND	1.0 µg/L	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	3.0 µg/L
27 1,2-Dichloropropane	ND	1.0 µg/L	62 1,2,4-Trichlorobenzene	ND	2.0 µg/L
28 Trichloroethene	ND	1.0 µg/L	63 Naphthalene	ND	2.0 µg/L
29 Bromodichloromethane	ND	1.0 µg/L	64 Hexachlorobutadiene	ND	2.0 µg/L
30 cis-1,3-Dichloropropene	ND	1.0 µg/L	65 1,2,3-Trichlorobenzene	ND	2.0 µg/L
31 trans-1,3-Dichloropropene	ND	1.0 µg/L			
32 1,1,2-Trichloroethane	ND	1.0 µg/L			
33 Toluene	ND	0.50 µg/L			
34 1,3-Dichloropropane	ND	1.0 µg/L			
35 Dibromochloromethane	ND	1.0 µg/L			

Sample results were calculated on a wet weight basis.  
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) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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7/12/12

Report Date

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# 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  
Job: 2120-1401-1/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12070345-09A  
Client I.D. Number: CPT-1-10-S

Sampled: 06/29/12 09:48  
Received: 07/03/12  
Extracted: 07/10/12 13:16  
Analyzed: 07/11/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/Kg	36 1,2-Dibromoethane (EDB)	ND	40 µg/Kg
2 Chloromethane	ND	40 µg/Kg	37 Tetrachloroethene	ND	20 µg/Kg
3 Vinyl chloride	ND	20 µg/Kg	38 1,1,1,2-Tetrachloroethane	ND	20 µg/Kg
4 Chloroethane	ND	20 µg/Kg	39 Chlorobenzene	ND	20 µg/Kg
5 Bromomethane	ND	40 µg/Kg	40 Ethylbenzene	ND	5.0 µg/Kg
6 Trichlorofluoromethane	ND	20 µg/Kg	41 m,p-Xylene	ND	5.0 µg/Kg
7 Acrolein	ND	2,000 µg/Kg	42 Bromoform	ND	20 µg/Kg
8 1,1-Dichloroethene	ND	20 µg/Kg	43 Styrene	ND	20 µg/Kg
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	44 o-Xylene	ND	5.0 µg/Kg
10 Dichloromethane	ND	40 µg/Kg	45 1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
11 trans-1,2-Dichloroethene	ND	20 µg/Kg	46 1,2,3-Trichloropropane	ND	40 µg/Kg
12 Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	47 Isopropylbenzene	ND	20 µg/Kg
13 1,1-Dichloroethane	ND	20 µg/Kg	48 Bromobenzene	ND	20 µg/Kg
14 Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	49 n-Propylbenzene	ND	20 µg/Kg
15 cis-1,2-Dichloroethene	ND	20 µg/Kg	50 4-Chlorotoluene	ND	20 µg/Kg
16 Bromochloromethane	ND	20 µg/Kg	51 2-Chlorotoluene	ND	20 µg/Kg
17 Chloroform	ND	20 µg/Kg	52 1,3,5-Trimethylbenzene	ND	20 µg/Kg
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	53 tert-Butylbenzene	ND	20 µg/Kg
19 2,2-Dichloropropane	ND	20 µg/Kg	54 1,2,4-Trimethylbenzene	ND	20 µg/Kg
20 1,2-Dichloroethane	ND	20 µg/Kg	55 sec-Butylbenzene	ND	20 µg/Kg
21 1,1,1-Trichloroethane	ND	20 µg/Kg	56 1,3-Dichlorobenzene	ND	20 µg/Kg
22 1,1-Dichloropropene	ND	20 µg/Kg	57 1,4-Dichlorobenzene	ND	20 µg/Kg
23 Carbon tetrachloride	ND	20 µg/Kg	58 4-Isopropyltoluene	ND	20 µg/Kg
24 Benzene	ND	5.0 µg/Kg	59 1,2-Dichlorobenzene	ND	20 µg/Kg
25 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	60 n-Butylbenzene	ND	20 µg/Kg
26 Dibromomethane	ND	20 µg/Kg	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg
27 1,2-Dichloropropane	ND	20 µg/Kg	62 1,2,4-Trichlorobenzene	ND	40 µg/Kg
28 Trichloroethene	ND	20 µg/Kg	63 Naphthalene	ND	40 µg/Kg
29 Bromodichloromethane	ND	20 µg/Kg	64 Hexachlorobutadiene	ND	40 µg/Kg
30 cis-1,3-Dichloropropene	ND	20 µg/Kg	65 1,2,3-Trichlorobenzene	ND	40 µg/Kg
31 trans-1,3-Dichloropropene	ND	20 µg/Kg			
32 1,1,2-Trichloroethane	ND	20 µg/Kg			
33 Toluene	ND	5.0 µg/Kg			
34 1,3-Dichloropropane	ND	20 µg/Kg			
35 Dibromochloromethane	ND	20 µg/Kg			

Sample results were calculated on a wet weight basis.  
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  
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# 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  
Job: 2120-1401-1/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12070345-10A  
Client I.D. Number: CPT-1-20-S

Sampled: 06/29/12 09:56  
Received: 07/03/12  
Extracted: 07/10/12 13:16  
Analyzed: 07/11/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/Kg	36 1,2-Dibromoethane (EDB)	ND	40 µg/Kg
2 Chloromethane	ND	40 µg/Kg	37 Tetrachloroethene	ND	20 µg/Kg
3 Vinyl chloride	ND	20 µg/Kg	38 1,1,1,2-Tetrachloroethane	ND	20 µg/Kg
4 Chloroethane	ND	20 µg/Kg	39 Chlorobenzene	ND	20 µg/Kg
5 Bromomethane	ND	40 µg/Kg	40 Ethylbenzene	ND	5.0 µg/Kg
6 Trichlorofluoromethane	ND	20 µg/Kg	41 m,p-Xylene	ND	5.0 µg/Kg
7 Acrolein	ND	2,000 µg/Kg	42 Bromoform	ND	20 µg/Kg
8 1,1-Dichloroethene	ND	20 µg/Kg	43 Styrene	ND	20 µg/Kg
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	44 o-Xylene	ND	5.0 µg/Kg
10 Dichloromethane	ND	40 µg/Kg	45 1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
11 trans-1,2-Dichloroethene	ND	20 µg/Kg	46 1,2,3-Trichloropropane	ND	40 µg/Kg
12 Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	47 Isopropylbenzene	ND	20 µg/Kg
13 1,1-Dichloroethane	ND	20 µg/Kg	48 Bromobenzene	ND	20 µg/Kg
14 Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	49 n-Propylbenzene	ND	20 µg/Kg
15 cis-1,2-Dichloroethene	ND	20 µg/Kg	50 4-Chlorotoluene	ND	20 µg/Kg
16 Bromochloromethane	ND	20 µg/Kg	51 2-Chlorotoluene	ND	20 µg/Kg
17 Chloroform	ND	20 µg/Kg	52 1,3,5-Trimethylbenzene	ND	20 µg/Kg
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	53 tert-Butylbenzene	ND	20 µg/Kg
19 2,2-Dichloropropane	ND	20 µg/Kg	54 1,2,4-Trimethylbenzene	ND	20 µg/Kg
20 1,2-Dichloroethane	ND	20 µg/Kg	55 sec-Butylbenzene	ND	20 µg/Kg
21 1,1,1-Trichloroethane	ND	20 µg/Kg	56 1,3-Dichlorobenzene	ND	20 µg/Kg
22 1,1-Dichloropropene	ND	20 µg/Kg	57 1,4-Dichlorobenzene	ND	20 µg/Kg
23 Carbon tetrachloride	ND	20 µg/Kg	58 4-Isopropyltoluene	ND	20 µg/Kg
24 Benzene	ND	5.0 µg/Kg	59 1,2-Dichlorobenzene	ND	20 µg/Kg
25 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	60 n-Butylbenzene	ND	20 µg/Kg
26 Dibromomethane	ND	20 µg/Kg	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg
27 1,2-Dichloropropane	ND	20 µg/Kg	62 1,2,4-Trichlorobenzene	ND	40 µg/Kg
28 Trichloroethene	ND	20 µg/Kg	63 Naphthalene	ND	40 µg/Kg
29 Bromodichloromethane	ND	20 µg/Kg	64 Hexachlorobutadiene	ND	40 µg/Kg
30 cis-1,3-Dichloropropene	ND	20 µg/Kg	65 1,2,3-Trichlorobenzene	ND	40 µg/Kg
31 trans-1,3-Dichloropropene	ND	20 µg/Kg			
32 1,1,2-Trichloroethane	ND	20 µg/Kg			
33 Toluene	ND	5.0 µg/Kg			
34 1,3-Dichloropropane	ND	20 µg/Kg			
35 Dibromochloromethane	ND	20 µg/Kg			

Sample results were calculated on a wet weight basis.  
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) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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# 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  
Job: 2120-1401-1/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12070345-11A  
Client I.D. Number: CPT-1-30-S

Sampled: 06/29/12 10:07  
Received: 07/03/12  
Extracted: 07/10/12 13:16  
Analyzed: 07/11/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/Kg	36 1,2-Dibromoethane (EDB)	ND	40 µg/Kg
2 Chloromethane	ND	40 µg/Kg	37 Tetrachloroethene	ND	20 µg/Kg
3 Vinyl chloride	ND	20 µg/Kg	38 1,1,1,2-Tetrachloroethane	ND	20 µg/Kg
4 Chloroethane	ND	20 µg/Kg	39 Chlorobenzene	ND	20 µg/Kg
5 Bromomethane	ND	40 µg/Kg	40 Ethylbenzene	ND	5.0 µg/Kg
6 Trichlorofluoromethane	ND	20 µg/Kg	41 m,p-Xylene	ND	5.0 µg/Kg
7 Acrolein	ND	2,000 µg/Kg	42 Bromoform	ND	20 µg/Kg
8 1,1-Dichloroethene	ND	20 µg/Kg	43 Styrene	ND	20 µg/Kg
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	44 o-Xylene	ND	5.0 µg/Kg
10 Dichloromethane	ND	40 µg/Kg	45 1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
11 trans-1,2-Dichloroethene	ND	20 µg/Kg	46 1,2,3-Trichloropropane	ND	40 µg/Kg
12 Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	47 Isopropylbenzene	44	20 µg/Kg
13 1,1-Dichloroethane	ND	20 µg/Kg	48 Bromobenzene	ND	20 µg/Kg
14 Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	49 n-Propylbenzene	230	20 µg/Kg
15 cis-1,2-Dichloroethene	ND	20 µg/Kg	50 4-Chlorotoluene	ND	20 µg/Kg
16 Bromochloromethane	ND	20 µg/Kg	51 2-Chlorotoluene	ND	20 µg/Kg
17 Chloroform	ND	20 µg/Kg	52 1,3,5-Trimethylbenzene	ND	20 µg/Kg
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	53 tert-Butylbenzene	ND	20 µg/Kg
19 2,2-Dichloropropane	ND	20 µg/Kg	54 1,2,4-Trimethylbenzene	ND	20 µg/Kg
20 1,2-Dichloroethane	ND	20 µg/Kg	55 sec-Butylbenzene	65	20 µg/Kg
21 1,1,1-Trichloroethane	ND	20 µg/Kg	56 1,3-Dichlorobenzene	ND	20 µg/Kg
22 1,1-Dichloropropene	ND	20 µg/Kg	57 1,4-Dichlorobenzene	ND	20 µg/Kg
23 Carbon tetrachloride	ND	20 µg/Kg	58 4-Isopropyltoluene	ND	20 µg/Kg
24 Benzene	ND	5.0 µg/Kg	59 1,2-Dichlorobenzene	ND	20 µg/Kg
25 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	60 n-Butylbenzene	120	20 µg/Kg
26 Dibromomethane	ND	20 µg/Kg	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg
27 1,2-Dichloropropane	ND	20 µg/Kg	62 1,2,4-Trichlorobenzene	ND	40 µg/Kg
28 Trichloroethene	ND	20 µg/Kg	63 Naphthalene	280	40 µg/Kg
29 Bromodichloromethane	ND	20 µg/Kg	64 Hexachlorobutadiene	ND	40 µg/Kg
30 cis-1,3-Dichloropropene	ND	20 µg/Kg	65 1,2,3-Trichlorobenzene	ND	40 µg/Kg
31 trans-1,3-Dichloropropene	ND	20 µg/Kg			
32 1,1,2-Trichloroethane	ND	20 µg/Kg			
33 Toluene	ND	5.0 µg/Kg			
34 1,3-Dichloropropane	ND	20 µg/Kg			
35 Dibromochloromethane	ND	20 µg/Kg			

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

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*  
Roger I. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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# 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  
Job: 2120-1401-1/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

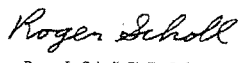

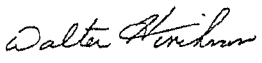
Alpha Analytical Number: STR12070345-12A  
Client I.D. Number: CPT-1-40-S

Sampled: 06/29/12 10:24  
Received: 07/03/12  
Extracted: 07/10/12 13:16  
Analyzed: 07/11/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/Kg	36 1,2-Dibromoethane (EDB)	ND	40 µg/Kg
2 Chloromethane	ND	40 µg/Kg	37 Tetrachloroethene	ND	20 µg/Kg
3 Vinyl chloride	ND	20 µg/Kg	38 1,1,1,2-Tetrachloroethane	ND	20 µg/Kg
4 Chloroethane	ND	20 µg/Kg	39 Chlorobenzene	ND	20 µg/Kg
5 Bromomethane	ND	40 µg/Kg	40 Ethylbenzene	ND	5.0 µg/Kg
6 Trichlorofluoromethane	ND	20 µg/Kg	41 m,p-Xylene	ND	5.0 µg/Kg
7 Acrolein	ND	2,000 µg/Kg	42 Bromoform	ND	20 µg/Kg
8 1,1-Dichloroethene	ND	20 µg/Kg	43 Styrene	ND	20 µg/Kg
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	44 o-Xylene	ND	5.0 µg/Kg
10 Dichloromethane	ND	40 µg/Kg	45 1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
11 trans-1,2-Dichloroethene	ND	20 µg/Kg	46 1,2,3-Trichloropropane	ND	40 µg/Kg
12 Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	47 Isopropylbenzene	ND	20 µg/Kg
13 1,1-Dichloroethane	ND	20 µg/Kg	48 Bromobenzene	ND	20 µg/Kg
14 Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	49 n-Propylbenzene	ND	20 µg/Kg
15 cis-1,2-Dichloroethene	ND	20 µg/Kg	50 4-Chlorotoluene	ND	20 µg/Kg
16 Bromochloromethane	ND	20 µg/Kg	51 2-Chlorotoluene	ND	20 µg/Kg
17 Chloroform	ND	20 µg/Kg	52 1,3,5-Trimethylbenzene	ND	20 µg/Kg
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	53 tert-Butylbenzene	ND	20 µg/Kg
19 2,2-Dichloropropane	ND	20 µg/Kg	54 1,2,4-Trimethylbenzene	ND	20 µg/Kg
20 1,2-Dichloroethane	ND	20 µg/Kg	55 sec-Butylbenzene	ND	20 µg/Kg
21 1,1,1-Trichloroethane	ND	20 µg/Kg	56 1,3-Dichlorobenzene	ND	20 µg/Kg
22 1,1-Dichloropropene	ND	20 µg/Kg	57 1,4-Dichlorobenzene	ND	20 µg/Kg
23 Carbon tetrachloride	ND	20 µg/Kg	58 4-Isopropyltoluene	ND	20 µg/Kg
24 Benzene	ND	5.0 µg/Kg	59 1,2-Dichlorobenzene	ND	20 µg/Kg
25 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	60 n-Butylbenzene	ND	20 µg/Kg
26 Dibromomethane	ND	20 µg/Kg	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg
27 1,2-Dichloropropane	ND	20 µg/Kg	62 1,2,4-Trichlorobenzene	ND	40 µg/Kg
28 Trichloroethene	ND	20 µg/Kg	63 Naphthalene	ND	40 µg/Kg
29 Bromodichloromethane	ND	20 µg/Kg	64 Hexachlorobutadiene	ND	40 µg/Kg
30 cis-1,3-Dichloropropene	ND	20 µg/Kg	65 1,2,3-Trichlorobenzene	ND	40 µg/Kg
31 trans-1,3-Dichloropropene	ND	20 µg/Kg			
32 1,1,2-Trichloroethane	ND	20 µg/Kg			
33 Toluene	ND	5.0 µg/Kg			
34 1,3-Dichloropropane	ND	20 µg/Kg			
35 Dibromochloromethane	ND	20 µg/Kg			

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



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

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# 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  
Job: 2120-1401-1/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12070345-13A  
Client I.D. Number: CPT-1-50-S

Sampled: 06/29/12 11:06  
Received: 07/03/12  
Extracted: 07/10/12 13:16  
Analyzed: 07/11/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/Kg	36 1,2-Dibromoethane (EDB)	ND	40 µg/Kg
2 Chloromethane	ND	40 µg/Kg	37 Tetrachloroethene	ND	20 µg/Kg
3 Vinyl chloride	ND	20 µg/Kg	38 1,1,1,2-Tetrachloroethane	ND	20 µg/Kg
4 Chloroethane	ND	20 µg/Kg	39 Chlorobenzene	ND	20 µg/Kg
5 Bromomethane	ND	40 µg/Kg	40 Ethylbenzene	ND	5.0 µg/Kg
6 Trichlorofluoromethane	ND	20 µg/Kg	41 m,p-Xylene	ND	5.0 µg/Kg
7 Acrolein	ND	2,000 µg/Kg	42 Bromoform	ND	20 µg/Kg
8 1,1-Dichloroethene	ND	20 µg/Kg	43 Styrene	ND	20 µg/Kg
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	44 o-Xylene	ND	5.0 µg/Kg
10 Dichloromethane	ND	40 µg/Kg	45 1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
11 trans-1,2-Dichloroethene	ND	20 µg/Kg	46 1,2,3-Trichloropropane	ND	40 µg/Kg
12 Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	47 Isopropylbenzene	ND	20 µg/Kg
13 1,1-Dichloroethane	ND	20 µg/Kg	48 Bromobenzene	ND	20 µg/Kg
14 Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	49 n-Propylbenzene	ND	20 µg/Kg
15 cis-1,2-Dichloroethene	ND	20 µg/Kg	50 4-Chlorotoluene	ND	20 µg/Kg
16 Bromochloromethane	ND	20 µg/Kg	51 2-Chlorotoluene	ND	20 µg/Kg
17 Chloroform	ND	20 µg/Kg	52 1,3,5-Trimethylbenzene	ND	20 µg/Kg
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	53 tert-Butylbenzene	ND	20 µg/Kg
19 2,2-Dichloropropane	ND	20 µg/Kg	54 1,2,4-Trimethylbenzene	ND	20 µg/Kg
20 1,2-Dichloroethane	ND	20 µg/Kg	55 sec-Butylbenzene	ND	20 µg/Kg
21 1,1,1-Trichloroethane	ND	20 µg/Kg	56 1,3-Dichlorobenzene	ND	20 µg/Kg
22 1,1-Dichloropropene	ND	20 µg/Kg	57 1,4-Dichlorobenzene	ND	20 µg/Kg
23 Carbon tetrachloride	ND	20 µg/Kg	58 4-Isopropyltoluene	ND	20 µg/Kg
24 Benzene	ND	5.0 µg/Kg	59 1,2-Dichlorobenzene	ND	20 µg/Kg
25 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	60 n-Butylbenzene	ND	20 µg/Kg
26 Dibromomethane	ND	20 µg/Kg	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg
27 1,2-Dichloropropane	ND	20 µg/Kg	62 1,2,4-Trichlorobenzene	ND	40 µg/Kg
28 Trichloroethene	ND	20 µg/Kg	63 Naphthalene	ND	40 µg/Kg
29 Bromodichloromethane	ND	20 µg/Kg	64 Hexachlorobutadiene	ND	40 µg/Kg
30 cis-1,3-Dichloropropene	ND	20 µg/Kg	65 1,2,3-Trichlorobenzene	ND	40 µg/Kg
31 trans-1,3-Dichloropropene	ND	20 µg/Kg			
32 1,1,2-Trichloroethane	ND	20 µg/Kg			
33 Toluene	ND	5.0 µg/Kg			
34 1,3-Dichloropropane	ND	20 µg/Kg			
35 Dibromochloromethane	ND	20 µg/Kg			

Sample results were calculated on a wet weight basis.  
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  
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7/12/12

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# 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  
Job: 2120-1401-1/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12070345-14A  
Client I.D. Number: CPT-1-60-S

Sampled: 06/29/12 11:31  
Received: 07/03/12  
Extracted: 07/10/12 13:16  
Analyzed: 07/11/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/Kg	36 1,2-Dibromoethane (EDB)	ND	40 µg/Kg
2 Chloromethane	ND	40 µg/Kg	37 Tetrachloroethene	ND	20 µg/Kg
3 Vinyl chloride	ND	20 µg/Kg	38 1,1,1,2-Tetrachloroethane	ND	20 µg/Kg
4 Chloroethane	ND	20 µg/Kg	39 Chlorobenzene	ND	20 µg/Kg
5 Bromomethane	ND	40 µg/Kg	40 Ethylbenzene	ND	5.0 µg/Kg
6 Trichlorofluoromethane	ND	20 µg/Kg	41 m,p-Xylene	ND	5.0 µg/Kg
7 Acrolein	ND	2,000 µg/Kg	42 Bromoform	ND	20 µg/Kg
8 1,1-Dichloroethene	ND	20 µg/Kg	43 Styrene	ND	20 µg/Kg
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	44 o-Xylene	ND	5.0 µg/Kg
10 Dichloromethane	ND	40 µg/Kg	45 1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
11 trans-1,2-Dichloroethene	ND	20 µg/Kg	46 1,2,3-Trichloropropane	ND	40 µg/Kg
12 Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	47 Isopropylbenzene	ND	20 µg/Kg
13 1,1-Dichloroethane	ND	20 µg/Kg	48 Bromobenzene	ND	20 µg/Kg
14 Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	49 n-Propylbenzene	ND	20 µg/Kg
15 cis-1,2-Dichloroethene	ND	20 µg/Kg	50 4-Chlorotoluene	ND	20 µg/Kg
16 Bromochloromethane	ND	20 µg/Kg	51 2-Chlorotoluene	ND	20 µg/Kg
17 Chloroform	ND	20 µg/Kg	52 1,3,5-Trimethylbenzene	ND	20 µg/Kg
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	53 tert-Butylbenzene	ND	20 µg/Kg
19 2,2-Dichloropropane	ND	20 µg/Kg	54 1,2,4-Trimethylbenzene	ND	20 µg/Kg
20 1,2-Dichloroethane	ND	20 µg/Kg	55 sec-Butylbenzene	ND	20 µg/Kg
21 1,1,1-Trichloroethane	ND	20 µg/Kg	56 1,3-Dichlorobenzene	ND	20 µg/Kg
22 1,1-Dichloropropene	ND	20 µg/Kg	57 1,4-Dichlorobenzene	ND	20 µg/Kg
23 Carbon tetrachloride	ND	20 µg/Kg	58 4-Isopropyltoluene	ND	20 µg/Kg
24 Benzene	ND	5.0 µg/Kg	59 1,2-Dichlorobenzene	ND	20 µg/Kg
25 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	60 n-Butylbenzene	ND	20 µg/Kg
26 Dibromomethane	ND	20 µg/Kg	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg
27 1,2-Dichloropropane	ND	20 µg/Kg	62 1,2,4-Trichlorobenzene	ND	40 µg/Kg
28 Trichloroethene	ND	20 µg/Kg	63 Naphthalene	ND	40 µg/Kg
29 Bromodichloromethane	ND	20 µg/Kg	64 Hexachlorobutadiene	ND	40 µg/Kg
30 cis-1,3-Dichloropropene	ND	20 µg/Kg	65 1,2,3-Trichlorobenzene	ND	40 µg/Kg
31 trans-1,3-Dichloropropene	ND	20 µg/Kg			
32 1,1,2-Trichloroethane	ND	20 µg/Kg			
33 Toluene	ND	5.0 µg/Kg			
34 1,3-Dichloropropane	ND	20 µg/Kg			
35 Dibromochloromethane	ND	20 µg/Kg			

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

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# 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  
Job: 2120-1401-1/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12070345-15A  
Client I.D. Number: CPT-1-70-S

Sampled: 06/29/12 12:16  
Received: 07/03/12  
Extracted: 07/10/12 13:16  
Analyzed: 07/11/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/Kg	36 1,2-Dibromoethane (EDB)	ND	40 µg/Kg
2 Chloromethane	ND	40 µg/Kg	37 Tetrachloroethene	ND	20 µg/Kg
3 Vinyl chloride	ND	20 µg/Kg	38 1,1,1,2-Tetrachloroethane	ND	20 µg/Kg
4 Chloroethane	ND	20 µg/Kg	39 Chlorobenzene	ND	20 µg/Kg
5 Bromomethane	ND	40 µg/Kg	40 Ethylbenzene	ND	5.0 µg/Kg
6 Trichlorofluoromethane	ND	20 µg/Kg	41 m,p-Xylene	ND	5.0 µg/Kg
7 Acrolein	ND	2,000 µg/Kg	42 Bromoform	ND	20 µg/Kg
8 1,1-Dichloroethene	ND	20 µg/Kg	43 Styrene	ND	20 µg/Kg
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	44 o-Xylene	ND	5.0 µg/Kg
10 Dichloromethane	ND	40 µg/Kg	45 1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
11 trans-1,2-Dichloroethene	ND	20 µg/Kg	46 1,2,3-Trichloropropane	ND	40 µg/Kg
12 Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	47 Isopropylbenzene	ND	20 µg/Kg
13 1,1-Dichloroethane	ND	20 µg/Kg	48 Bromobenzene	ND	20 µg/Kg
14 Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	49 n-Propylbenzene	ND	20 µg/Kg
15 cis-1,2-Dichloroethene	ND	20 µg/Kg	50 4-Chlorotoluene	ND	20 µg/Kg
16 Bromochloromethane	ND	20 µg/Kg	51 2-Chlorotoluene	ND	20 µg/Kg
17 Chloroform	ND	20 µg/Kg	52 1,3,5-Trimethylbenzene	ND	20 µg/Kg
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	53 tert-Butylbenzene	ND	20 µg/Kg
19 2,2-Dichloropropane	ND	20 µg/Kg	54 1,2,4-Trimethylbenzene	ND	20 µg/Kg
20 1,2-Dichloroethane	ND	20 µg/Kg	55 sec-Butylbenzene	ND	20 µg/Kg
21 1,1,1-Trichloroethane	ND	20 µg/Kg	56 1,3-Dichlorobenzene	ND	20 µg/Kg
22 1,1-Dichloropropene	ND	20 µg/Kg	57 1,4-Dichlorobenzene	ND	20 µg/Kg
23 Carbon tetrachloride	ND	20 µg/Kg	58 4-Isopropyltoluene	ND	20 µg/Kg
24 Benzene	ND	5.0 µg/Kg	59 1,2-Dichlorobenzene	ND	20 µg/Kg
25 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	60 n-Butylbenzene	ND	20 µg/Kg
26 Dibromomethane	ND	20 µg/Kg	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg
27 1,2-Dichloropropane	ND	20 µg/Kg	62 1,2,4-Trichlorobenzene	ND	40 µg/Kg
28 Trichloroethene	ND	20 µg/Kg	63 Naphthalene	ND	40 µg/Kg
29 Bromodichloromethane	ND	20 µg/Kg	64 Hexachlorobutadiene	ND	40 µg/Kg
30 cis-1,3-Dichloropropene	ND	20 µg/Kg	65 1,2,3-Trichlorobenzene	ND	40 µg/Kg
31 trans-1,3-Dichloropropene	ND	20 µg/Kg			
32 1,1,2-Trichloroethane	ND	20 µg/Kg			
33 Toluene	ND	5.0 µg/Kg			
34 1,3-Dichloropropane	ND	20 µg/Kg			
35 Dibromochloromethane	ND	20 µg/Kg			

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

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*  
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# 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  
Job: 2120-1401-1/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12070345-16A  
Client I.D. Number: CPT-1-80-S

Sampled: 06/29/12 13:49  
Received: 07/03/12  
Extracted: 07/10/12 13:16  
Analyzed: 07/11/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/Kg	36 1,2-Dibromoethane (EDB)	ND	40 µg/Kg
2 Chloromethane	ND	40 µg/Kg	37 Tetrachloroethene	ND	20 µg/Kg
3 Vinyl chloride	ND	20 µg/Kg	38 1,1,1,2-Tetrachloroethane	ND	20 µg/Kg
4 Chloroethane	ND	20 µg/Kg	39 Chlorobenzene	ND	20 µg/Kg
5 Bromomethane	ND	40 µg/Kg	40 Ethylbenzene	ND	5.0 µg/Kg
6 Trichlorofluoromethane	ND	20 µg/Kg	41 m,p-Xylene	ND	5.0 µg/Kg
7 Acrolein	ND	2,000 µg/Kg	42 Bromoform	ND	20 µg/Kg
8 1,1-Dichloroethene	ND	20 µg/Kg	43 Styrene	ND	20 µg/Kg
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	44 o-Xylene	ND	5.0 µg/Kg
10 Dichloromethane	ND	40 µg/Kg	45 1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
11 trans-1,2-Dichloroethene	ND	20 µg/Kg	46 1,2,3-Trichloropropane	ND	40 µg/Kg
12 Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	47 Isopropylbenzene	ND	20 µg/Kg
13 1,1-Dichloroethane	ND	20 µg/Kg	48 Bromobenzene	ND	20 µg/Kg
14 Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	49 n-Propylbenzene	ND	20 µg/Kg
15 cis-1,2-Dichloroethene	ND	20 µg/Kg	50 4-Chlorotoluene	ND	20 µg/Kg
16 Bromochloromethane	ND	20 µg/Kg	51 2-Chlorotoluene	ND	20 µg/Kg
17 Chloroform	ND	20 µg/Kg	52 1,3,5-Trimethylbenzene	ND	20 µg/Kg
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	53 tert-Butylbenzene	ND	20 µg/Kg
19 2,2-Dichloropropane	ND	20 µg/Kg	54 1,2,4-Trimethylbenzene	ND	20 µg/Kg
20 1,2-Dichloroethane	ND	20 µg/Kg	55 sec-Butylbenzene	ND	20 µg/Kg
21 1,1,1-Trichloroethane	ND	20 µg/Kg	56 1,3-Dichlorobenzene	ND	20 µg/Kg
22 1,1-Dichloropropene	ND	20 µg/Kg	57 1,4-Dichlorobenzene	ND	20 µg/Kg
23 Carbon tetrachloride	ND	20 µg/Kg	58 4-Isopropyltoluene	ND	20 µg/Kg
24 Benzene	ND	5.0 µg/Kg	59 1,2-Dichlorobenzene	ND	20 µg/Kg
25 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	60 n-Butylbenzene	ND	20 µg/Kg
26 Dibromomethane	ND	20 µg/Kg	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg
27 1,2-Dichloropropane	ND	20 µg/Kg	62 1,2,4-Trichlorobenzene	ND	40 µg/Kg
28 Trichloroethene	ND	20 µg/Kg	63 Naphthalene	ND	40 µg/Kg
29 Bromodichloromethane	ND	20 µg/Kg	64 Hexachlorobutadiene	ND	40 µg/Kg
30 cis-1,3-Dichloropropene	ND	20 µg/Kg	65 1,2,3-Trichlorobenzene	ND	40 µg/Kg
31 trans-1,3-Dichloropropene	ND	20 µg/Kg			
32 1,1,2-Trichloroethane	ND	20 µg/Kg			
33 Toluene	ND	5.0 µg/Kg			
34 1,3-Dichloropropane	ND	20 µg/Kg			
35 Dibromochloromethane	ND	20 µg/Kg			

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

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# 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  
Job: 2120-1401-1/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12070345-17A  
Client I.D. Number: CPT-1-90-S

Sampled: 06/29/12 14:33  
Received: 07/03/12  
Extracted: 07/10/12 13:16  
Analyzed: 07/11/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/Kg	36 1,2-Dibromoethane (EDB)	ND	40 µg/Kg
2 Chloromethane	ND	40 µg/Kg	37 Tetrachloroethene	ND	20 µg/Kg
3 Vinyl chloride	ND	20 µg/Kg	38 1,1,1,2-Tetrachloroethane	ND	20 µg/Kg
4 Chloroethane	ND	20 µg/Kg	39 Chlorobenzene	ND	20 µg/Kg
5 Bromomethane	ND	40 µg/Kg	40 Ethylbenzene	ND	5.0 µg/Kg
6 Trichlorofluoromethane	ND	20 µg/Kg	41 m,p-Xylene	ND	5.0 µg/Kg
7 Acrolein	ND	2,000 µg/Kg	42 Bromoform	ND	20 µg/Kg
8 1,1-Dichloroethene	ND	20 µg/Kg	43 Styrene	ND	20 µg/Kg
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	44 o-Xylene	ND	5.0 µg/Kg
10 Dichloromethane	ND	40 µg/Kg	45 1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
11 trans-1,2-Dichloroethene	ND	20 µg/Kg	46 1,2,3-Trichloropropane	ND	40 µg/Kg
12 Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	47 Isopropylbenzene	ND	20 µg/Kg
13 1,1-Dichloroethane	ND	20 µg/Kg	48 Bromobenzene	ND	20 µg/Kg
14 Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	49 n-Propylbenzene	ND	20 µg/Kg
15 cis-1,2-Dichloroethene	ND	20 µg/Kg	50 4-Chlorotoluene	ND	20 µg/Kg
16 Bromochloromethane	ND	20 µg/Kg	51 2-Chlorotoluene	ND	20 µg/Kg
17 Chloroform	ND	20 µg/Kg	52 1,3,5-Trimethylbenzene	ND	20 µg/Kg
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	53 tert-Butylbenzene	ND	20 µg/Kg
19 2,2-Dichloropropane	ND	20 µg/Kg	54 1,2,4-Trimethylbenzene	ND	20 µg/Kg
20 1,2-Dichloroethane	ND	20 µg/Kg	55 sec-Butylbenzene	ND	20 µg/Kg
21 1,1,1-Trichloroethane	ND	20 µg/Kg	56 1,3-Dichlorobenzene	ND	20 µg/Kg
22 1,1-Dichloropropene	ND	20 µg/Kg	57 1,4-Dichlorobenzene	ND	20 µg/Kg
23 Carbon tetrachloride	ND	20 µg/Kg	58 4-Isopropyltoluene	ND	20 µg/Kg
24 Benzene	ND	5.0 µg/Kg	59 1,2-Dichlorobenzene	ND	20 µg/Kg
25 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	60 n-Butylbenzene	ND	20 µg/Kg
26 Dibromomethane	ND	20 µg/Kg	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg
27 1,2-Dichloropropane	ND	20 µg/Kg	62 1,2,4-Trichlorobenzene	ND	40 µg/Kg
28 Trichloroethene	ND	20 µg/Kg	63 Naphthalene	ND	40 µg/Kg
29 Bromodichloromethane	ND	20 µg/Kg	64 Hexachlorobutadiene	ND	40 µg/Kg
30 cis-1,3-Dichloropropene	ND	20 µg/Kg	65 1,2,3-Trichlorobenzene	ND	40 µg/Kg
31 trans-1,3-Dichloropropene	ND	20 µg/Kg			
32 1,1,2-Trichloroethane	ND	20 µg/Kg			
33 Toluene	ND	5.0 µg/Kg			
34 1,3-Dichloropropane	ND	20 µg/Kg			
35 Dibromochloromethane	ND	20 µg/Kg			

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

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# 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: STR12070345

Job: 2120-1401-1/Haber Oil

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12070345-01A	CPT-1-56-W	Aqueous	2
12070345-02A	CPT-1-66-W	Aqueous	4
12070345-03A	CPT-1-76-W	Aqueous	4
12070345-04A	CPT-1-80-W	Aqueous	2
12070345-05A	CPT-2-48-W	Aqueous	5
12070345-06A	CPT-2-58-W	Aqueous	7
12070345-07A	CPT-2-68-W	Aqueous	2
12070345-08A	CPT-2-85-W	Aqueous	2

7/12/12

Report Date

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# Alpha Analytical, Inc.

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

Date:  
13-Jul-12

## QC Summary Report

Work Order:  
12070345

### Method Blank

File ID: 2A07041253.D

Type: MBLK Test Code: EPA Method SW8015B / E / SG

Batch ID: 29021SG

Analysis Date: 07/05/2012 15:41

Sample ID: MBLK-29021SG

Units: µg/Kg

Run ID: FID\_2\_120704D

Prep Date: 07/04/2012 12:02

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	ND	5000								
TPH-E (ORO), Silica Gel	ND	10000								
Surr: Nonane, Silica Gel	6290		6000		105	62	161			

### Laboratory Control Spike

File ID: 2A07041252.D

Type: LCS Test Code: EPA Method SW8015B / E / SG

Batch ID: 29021SG

Analysis Date: 07/05/2012 15:15

Sample ID: LCS-29021SG

Units: µg/Kg

Run ID: FID\_2\_120704D

Prep Date: 07/04/2012 12:02

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	173000	5000	200000		86	70	130			
Surr: Nonane, Silica Gel	7640		6000		127	62	161			

### Sample Matrix Spike

File ID: 2A07041267.D

Type: MS Test Code: EPA Method SW8015B / E / SG

Batch ID: 29021SG

Analysis Date: 07/05/2012 21:34

Sample ID: 12070345-11AMS

Units: µg/Kg

Run ID: FID\_2\_120704D

Prep Date: 07/04/2012 12:02

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	170000	5000	200000		0 85	50	149			
Surr: Nonane, Silica Gel	6940		6000		116	62	161			

### Sample Matrix Spike Duplicate

File ID: 2A07041268.D

Type: MSD Test Code: EPA Method SW8015B / E / SG

Batch ID: 29021SG

Analysis Date: 07/05/2012 21:59

Sample ID: 12070345-11AMSD

Units: µg/Kg

Run ID: FID\_2\_120704D

Prep Date: 07/04/2012 12:02

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	173000	5000	200000		0 87	50	149	170200	1.8(46)	
Surr: Nonane, Silica Gel	7920		6000		132	62	161			

### Comments:

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

Reported in micrograms per Kilogram, per client request.



# Alpha Analytical, Inc.

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

Date:  
13-Jul-12

## QC Summary Report

Work Order:  
12070345

### Method Blank

File ID: 2A07041205.D

Type: MBLK Test Code: EPA Method SW8015B / E / SG

Batch ID: 29020SG

Analysis Date: 07/04/2012 11:34

Sample ID: MBLK-29020

Units : µg/L

Run ID: FID\_2\_120704C

Prep Date: 07/04/2012 09:40

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-E (DRO), Silica Gel

ND

50

TPH-E (ORO), Silica Gel

ND

500

Surr: Nonane, Silica Gel

168

150

112

49

145

### Laboratory Control Spike

File ID: 2A07041206.D

Type: LCS Test Code: EPA Method SW8015B / E / SG

Batch ID: 29020SG

Analysis Date: 07/04/2012 11:59

Sample ID: LCS-29020

Units : µg/L

Run ID: FID\_2\_120704C

Prep Date: 07/04/2012 09:40

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-E (DRO), Silica Gel

2090

50

2500

84

70

130

Surr: Nonane, Silica Gel

173

150

115

49

145

### Sample Matrix Spike

File ID: 2A07041209.D

Type: MS Test Code: EPA Method SW8015B / E / SG

Batch ID: 29020SG

Analysis Date: 07/04/2012 13:14

Sample ID: 12070345-01AMS

Units : µg/L

Run ID: FID\_2\_120704C

Prep Date: 07/04/2012 09:40

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-E (DRO), Silica Gel

2520

50

2500

0

101

53

150

Surr: Nonane, Silica Gel

167

150

111

49

145

### Sample Matrix Spike Duplicate

File ID: 2A07041210.D

Type: MSD Test Code: EPA Method SW8015B / E / SG

Batch ID: 29020SG

Analysis Date: 07/04/2012 13:40

Sample ID: 12070345-01AMSD

Units : µg/L

Run ID: FID\_2\_120704C

Prep Date: 07/04/2012 09:40

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-E (DRO), Silica Gel

2870

50

2500

0

115

53

150

Surr: Nonane, Silica Gel

175

150

117

49

145

### 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:  
13-Jul-12

## QC Summary Report

Work Order:  
12070345

### Method Blank

File ID: 12071122.D

Type: MBLK Test Code: EPA Method SW8015B/C

Batch ID: MS15S9048B

Analysis Date: 07/11/2012 17:46

Sample ID: MBLK MS15S9048B

Units: µg/Kg

Run ID: MSD\_15\_120711A

Prep Date: 07/11/2012 17:46

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	1000								
Surr: 1,2-Dichloroethane-d4	185		200		93	70	130			
Surr: Toluene-d8	203		200		102	70	130			
Surr: 4-Bromofluorobenzene	184		200		92	70	130			

### Laboratory Control Spike

File ID: 12071214.D

Type: LCS Test Code: EPA Method SW8015B/C

Batch ID: MS15S9048B

Analysis Date: 07/12/2012 14:58

Sample ID: GLCS MS15S9048B

Units: µg/Kg

Run ID: MSD\_15\_120711A

Prep Date: 07/12/2012 14:58

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	19300	4000	32000		60	63	148			L50
Surr: 1,2-Dichloroethane-d4	798		800		99.7	70	130			
Surr: Toluene-d8	779		800		97	70	130			
Surr: 4-Bromofluorobenzene	774		800		97	70	130			

### Sample Matrix Spike

File ID: 12071127.D

Type: MS Test Code: EPA Method SW8015B/C

Batch ID: MS15S9048B

Analysis Date: 07/11/2012 19:34

Sample ID: 12070345-09AGS

Units: µg/Kg

Run ID: MSD\_15\_120711A

Prep Date: 07/11/2012 19:34

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	22300	2000	16000		0	139	35	166		
Surr: 1,2-Dichloroethane-d4	367		400		92	70	130			
Surr: Toluene-d8	395		400		99	70	130			
Surr: 4-Bromofluorobenzene	360		400		90	70	130			

### Sample Matrix Spike Duplicate

File ID: 12071128.D

Type: MSD Test Code: EPA Method SW8015B/C

Batch ID: MS15S9048B

Analysis Date: 07/11/2012 19:56

Sample ID: 12070345-09AGSD

Units: µg/Kg

Run ID: MSD\_15\_120711A

Prep Date: 07/11/2012 19:56

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	20900	2000	16000		0	131	35	166	22260	6.1(33)
Surr: 1,2-Dichloroethane-d4	372		400		93	70	130			
Surr: Toluene-d8	395		400		99	70	130			
Surr: 4-Bromofluorobenzene	355		400		89	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.

L50 = Analyte recovery was below acceptance limits for the LCS, but was acceptable in the MS/MSD.

Reported in micrograms per Kilogram, per client request.



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Date:  
13-Jul-12

## QC Summary Report

Work Order:  
12070345

### Method Blank

File ID: 12071006.D

Type: MBLK Test Code: EPA Method SW8015B/C

Batch ID: MS15W0710B

Analysis Date: 07/10/2012 12:35

Sample ID: MBLK MS15W0710B

Units: µg/L

Run ID: MSD\_15\_120710A

Prep Date: 07/10/2012 12:35

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	6.86		10		69	70	130			S54
Surr: Toluene-d8	10.7		10		107	70	130			
Surr: 4-Bromofluorobenzene	10.3		10		103	70	130			

### Laboratory Control Spike

File ID: 12071004.D

Type: LCS Test Code: EPA Method SW8015B/C

Batch ID: MS15W0710B

Analysis Date: 07/10/2012 11:52

Sample ID: GLCS MS15W0710B

Units: µg/L

Run ID: MSD\_15\_120710A

Prep Date: 07/10/2012 11:52

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	359	50	400		90	70	130			
Surr: 1,2-Dichloroethane-d4	6.94		10		69	70	130			S54
Surr: Toluene-d8	10.7		10		107	70	130			
Surr: 4-Bromofluorobenzene	10.1		10		101	70	130			

### Sample Matrix Spike

File ID: 12071016.D

Type: MS Test Code: EPA Method SW8015B/C

Batch ID: MS15W0710B

Analysis Date: 07/10/2012 16:32

Sample ID: 12071041-04AGS

Units: µg/L

Run ID: MSD\_15\_120710A

Prep Date: 07/10/2012 16:32

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1950	250	2000	0	97	51	144			
Surr: 1,2-Dichloroethane-d4	35.7		50		71	70	130			
Surr: Toluene-d8	53.1		50		106	70	130			
Surr: 4-Bromofluorobenzene	50.8		50		102	70	130			

### Sample Matrix Spike Duplicate

File ID: 12071017.D

Type: MSD Test Code: EPA Method SW8015B/C

Batch ID: MS15W0710B

Analysis Date: 07/10/2012 16:54

Sample ID: 12071041-04AGSD

Units: µg/L

Run ID: MSD\_15\_120710A

Prep Date: 07/10/2012 16:54

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2040	250	2000	0	102	51	144	1946	4.9(29)	
Surr: 1,2-Dichloroethane-d4	35.7		50		71	70	130			
Surr: Toluene-d8	53.4		50		107	70	130			
Surr: 4-Bromofluorobenzene	50.4		50		101	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.

S54 = Surrogate recovery was below laboratory acceptance limits.

Reported in micrograms per Liter, per client request.





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Date:  
13-Jul-12

## QC Summary Report

Work Order:  
12070345

Surr: 1,2-Dichloroethane-d4	185	200	93	70	130
Surr: Toluene-d8	203	200	102	70	130
Surr: 4-Bromofluorobenzene	184	200	92	70	130

### Laboratory Control Spike

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

File ID: **12071123.D**

Batch ID: **MS15S9048A**

Analysis Date: **07/11/2012 18:07**

Sample ID: **LCS MS15S9048A**

Units: **µg/Kg**

Run ID: **MSD\_15\_120711A**

Prep Date: **07/11/2012 18:07**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	42.8	20	400		11	10	132			
Methyl tert-butyl ether (MTBE)	469	10	400		117	61	147			
Benzene	548	10	400		137	70	138			
Trichloroethene	576	20	400		144	70	150			
Toluene	548	10	400		137	70	137			
Chlorobenzene	561	20	400		140	10	137			L1
Ethylbenzene	543	10	400		136	70	138			
m,p-Xylene	553	10	400		138	70	145			
o-Xylene	554	10	400		138	70	145			
Surr: 1,2-Dichloroethane-d4	369		400		92	70	130			
Surr: Toluene-d8	400		400		100	70	130			
Surr: 4-Bromofluorobenzene	376		400		94	70	130			

### Sample Matrix Spike

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

File ID: **12071124.D**

Batch ID: **MS15S9048A**

Analysis Date: **07/11/2012 18:29**

Sample ID: **12070345-09AMS**

Units: **µg/Kg**

Run ID: **MSD\_15\_120711A**

Prep Date: **07/11/2012 18:29**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	90.5	20	400		0 23	10	132			
Methyl tert-butyl ether (MTBE)	493	10	400		0 123	42	157			
Benzene	552	10	400		0 138	53	150			
Trichloroethene	578	20	400		0 144	48	165			
Toluene	556	10	400		0 139	51	149			
Chlorobenzene	573	20	400		0 143	51	147			
Ethylbenzene	552	10	400		0 138	54	150			
m,p-Xylene	563	10	400		0 141	50	161			
o-Xylene	566	10	400		0 142	35	177			
Surr: 1,2-Dichloroethane-d4	375		400		94	70	130			
Surr: Toluene-d8	402		400		101	70	130			
Surr: 4-Bromofluorobenzene	375		400		94	70	130			

### Sample Matrix Spike Duplicate

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

File ID: **12071125.D**

Batch ID: **MS15S9048A**

Analysis Date: **07/11/2012 18:51**

Sample ID: **12070345-09AMSD**

Units: **µg/Kg**

Run ID: **MSD\_15\_120711A**

Prep Date: **07/11/2012 18:51**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	82.5	20	400		0 21	10	132	90.45	9.3(40)	
Methyl tert-butyl ether (MTBE)	528	10	400		0 132	42	157	492.5	7.0(32)	
Benzene	609	10	400		0 152	53	150	551.8	9.9(26)	M1
Trichloroethene	649	20	400		0 162	48	165	577.5	11.6(26)	
Toluene	623	10	400		0 156	51	149	556.2	11.3(26)	M1
Chlorobenzene	637	20	400		0 159	51	147	573.3	10.6(40)	M55
Ethylbenzene	617	10	400		0 154	54	150	552.3	11.1(29)	M1
m,p-Xylene	628	10	400		0 157	50	161	562.8	10.9(38)	
o-Xylene	633	10	400		0 158	35	177	566.2	11.1(40)	
Surr: 1,2-Dichloroethane-d4	364		400		91	70	130			
Surr: Toluene-d8	402		400		101	70	130			
Surr: 4-Bromofluorobenzene	378		400		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.

L1 = The associated blank spike recovery was above laboratory acceptance limits.

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

M55 = Matrix spike recovery was above laboratory acceptance limits.







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Date:  
13-Jul-12

## QC Summary Report

Work Order:  
12070345

Surr: 1,2-Dichloroethane-d4	6.86	10	69	70	130						S54
Surr: Toluene-d8	10.7	10	107	70	130						
Surr: 4-Bromofluorobenzene	10.3	10	103	70	130						

### Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: 12071005.D

Batch ID: MS15W0710A

Analysis Date: 07/10/2012 12:14

Sample ID: LCS MS15W0710A

Units: µg/L

Run ID: MSD\_15\_120710A

Prep Date: 07/10/2012 12:14

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	10.6	1	10		106	80	120			
Methyl tert-butyl ether (MTBE)	8.21	0.5	10		82	65	140			
Benzene	9.88	0.5	10		99	70	130			
Trichloroethene	9.93	1	10		99	65	144			
Toluene	10.4	0.5	10		104	80	120			
Chlorobenzene	10.4	1	10		104	70	130			
Ethylbenzene	10.1	0.5	10		101	80	120			
m,p-Xylene	10.4	0.5	10		104	70	130			
o-Xylene	10	0.5	10		100	70	130			
Surr: 1,2-Dichloroethane-d4	7.61		10		76	70	130			
Surr: Toluene-d8	10.9		10		109	70	130			
Surr: 4-Bromofluorobenzene	10.2		10		102	70	130			

### Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: 12071014.D

Batch ID: MS15W0710A

Analysis Date: 07/10/2012 15:48

Sample ID: 12071041-04AMS

Units: µg/L

Run ID: MSD\_15\_120710A

Prep Date: 07/10/2012 15:48

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	61.6	2.5	50	0	123	64	130			
Methyl tert-butyl ether (MTBE)	103	1.3	50	51.42	102	47	150			
Benzene	58	1.3	50	0	116	59	138			
Trichloroethene	58.1	2.5	50	0	116	65	144			
Toluene	59.8	1.3	50	0	120	68	130			
Chlorobenzene	60.9	2.5	50	0	122	70	130			
Ethylbenzene	58.7	1.3	50	0	117	68	130			
m,p-Xylene	62	1.3	50	0	124	68	131			
o-Xylene	58.8	1.3	50	0	118	70	130			
Surr: 1,2-Dichloroethane-d4	35.3		50		71	70	130			
Surr: Toluene-d8	54.7		50		109	70	130			
Surr: 4-Bromofluorobenzene	51.7		50		103	70	130			

### Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: 12071015.D

Batch ID: MS15W0710A

Analysis Date: 07/10/2012 16:10

Sample ID: 12071041-04AMSD

Units: µg/L

Run ID: MSD\_15\_120710A

Prep Date: 07/10/2012 16:10

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	72.6	2.5	50	0	145	64	130	61.63	16.3(21)	M1
Methyl tert-butyl ether (MTBE)	112	1.3	50	51.42	121	47	150	102.6	8.8(40)	
Benzene	67.5	1.3	50	0	135	59	138	57.95	15.3(21)	
Trichloroethene	67.7	2.5	50	0	135	65	144	58.12	15.2(20)	
Toluene	70	1.3	50	0	140	68	130	59.79	15.7(20)	M1
Chlorobenzene	70.8	2.5	50	0	142	70	130	60.89	15.1(20)	M1
Ethylbenzene	68	1.3	50	0	136	68	130	58.67	14.7(20)	M1
m,p-Xylene	69.5	1.3	50	0	139	68	131	61.96	11.5(20)	M1
o-Xylene	68.3	1.3	50	0	137	70	130	58.75	15.0(20)	M1
Surr: 1,2-Dichloroethane-d4	35.1		50		70	70	130			
Surr: Toluene-d8	54.5		50		109	70	130			
Surr: 4-Bromofluorobenzene	51.7		50		103	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.

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

S54 = Surrogate recovery was below laboratory acceptance limits.

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 : STR12070345**  
**Report Due By : 5:00 PM On : 11-Jul-12**

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

Report Attention	Phone Number	Email Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

EDD Required : Yes

Sampled by : Shane Edmunds


PO :  
 Client's COC # : 58272, 58274, 58275 Job : 2120-1401-1/Haber Oil

Cooler Temp	Samples Received	Date Printed
0 °C	03-Jul-12	10-Jul-12

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks
				TPH/E_SG_S	TPH/E_SG_W	TPH/P_S	TPHP_W	VOC_S	VOC_W	
STR12070345-01A	CPT-1-56-W	AQ 06/29/12 16:09	6 0 5		Silica Gel (C)		GAS-C		8260_C +Acrolein:OX YS	
STR12070345-02A	CPT-1-66-W	AQ 06/29/12 16:52	6 0 5		Silica Gel (C)		GAS-C		8260_C +Acrolein:OX YS	
STR12070345-03A	CPT-1-76-W	AQ 06/29/12 17:55	6 0 5		Silica Gel (C)		GAS-C		8260_C +Acrolein:OX YS	
STR12070345-04A	CPT-1-80-W	AQ 06/29/12 18:36	6 0 5		Silica Gel (C)		GAS-C		8260_C +Acrolein:OX YS	
STR12070345-05A	CPT-2-48-W	AQ 06/28/12 14:30	6 0 5		Silica Gel (C)		GAS-C		8260_C +Acrolein:OX YS	
STR12070345-06A	CPT-2-58-W	AQ 06/28/12 15:11	6 0 5		Silica Gel (C)		GAS-C		8260_C +Acrolein:OX YS	
STR12070345-07A	CPT-2-68-W	AQ 06/28/12 15:59	6 0 5		Silica Gel (C)		GAS-C		8260_C +Acrolein:OX YS	
STR12070345-08A	CPT-2-85-W	AQ 06/28/12 13:36	6 0 5		Silica Gel (C)		GAS-C		8260_C +Acrolein:OX YS	

Comments: Security seals intact. Frozen ice. Report w/Silica Gel for DRO/ORO on all TPH/E samples. per phone call with Scott. Propenal=Acrolein reference workorder #12051843. Amended 7/10/12 to change samples 18A-22A test group matrix, due to login error. SN :

Logged in by:	Signature	Print Name	Company	Date/Time
		Sarah Den	Alpha Analytical, Inc.	7/10/12 0920

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

Billing Information :

# CHAIN-OF-CUSTODY RECORD

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

# CA

**WorkOrder : STR12070345**  
**Report Due By : 5:00 PM On : 11-Jul-12**

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

Report Attention	Phone Number	EEmail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

EDD Required : Yes

Sampled by : Shane Edmunds

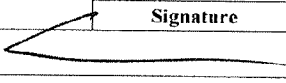
PO :  
 Client's COC # : 58272, 58274, 58275 Job : 2120-1401-1/Haber Oil

Cooler Temp	Samples Received	Date Printed
0 °C	03-Jul-12	10-Jul-12

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks
				TPH/E_SG_S	TPH/E_SG_W	TPH/P_S	TPH/P_W	VOC_S	VOC_W	
STR12070345-09A	CPT-1-10-S	SO 06/29/12 09:48	1 0 5	Silica Gel (C)		GAS-C		8260_C +Acrolein/OX YS		
STR12070345-10A	CPT-1-20-S	SO 06/29/12 09:56	1 0 5	Silica Gel (C)		GAS-C		8260_C +Acrolein/OX YS		
STR12070345-11A	CPT-1-30-S	SO 06/29/12 10:07	1 0 5	Silica Gel (C)		GAS-C		8260_C +Acrolein/OX YS		
STR12070345-12A	CPT-1-40-S	SO 06/29/12 10:24	1 0 5	Silica Gel (C)		GAS-C		8260_C +Acrolein/OX YS		
STR12070345-13A	CPT-1-50-S	SO 06/29/12 11:06	1 0 5	Silica Gel (C)		GAS-C		8260_C +Acrolein/OX YS		
STR12070345-14A	CPT-1-60-S	SO 06/29/12 11:31	1 0 5	Silica Gel (C)		GAS-C		8260_C +Acrolein/OX YS		
STR12070345-15A	CPT-1-70-S	SO 06/29/12 12:16	1 0 5	Silica Gel (C)		GAS-C		8260_C +Acrolein/OX YS		
STR12070345-16A	CPT-1-80-S	SO 06/29/12 13:49	1 0 5	Silica Gel (C)		GAS-C		8260_C +Acrolein/OX YS		

Comments: Security seals intact. Frozen ice. Report w/Silica Gel for DRO/ORO on all TPH/E samples. per phone call with Scott. Propenal=Acrolein reference workorder #12051843. Amended 7/10/12 to change samples 18A-22A test group matrix, due to login error. SN :

Signature	Print Name	Company	Date/Time
	Sarah Devi	Alpha Analytical, Inc.	7/10/12 09:20

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

Billing Information :

# CHAIN-OF-CUSTODY RECORD

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

# CA

**WorkOrder : STR12070345**  
**Report Due By : 5:00 PM On : 11-Jul-12**

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

Report Attention	Phone Number	EEmail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

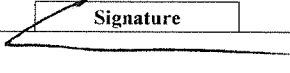
EDD Required : Yes

Sampled by : Shane Edmunds

PO : Cooler Temp 0 °C Samples Received 03-Jul-12 Date Printed 10-Jul-12  
 Client's COC # : 58272, 58274, 58275 Job : 2120-1401-1/Haber Oil  
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles			Requested Tests						Sample Remarks	
				Alpha	Sub	TAT	TPH/E_SG_S	TPH/E_SG_W	TPH/P_S	TPH/P_W	VOC_S	VOC_W		
STR12070345-17A	CPT-1-90-S	SO	06/29/12 14:33	1	0	5	Silica Gel (C)			GAS-C			8260_C +Acrolein(OX) YS	
STR12070345-18A	CPT-2-40-S	SO	06/28/12 10:48	1	0	5				GAS-C			BTEX OXY I .2 DCA/EDB_C	
STR12070345-19A	CPT-2-50-S	SO	06/28/12 11:13	1	0	5				GAS-C			BTEX OXY I .2 DCA/EDB_C	
STR12070345-20A	CPT-2-60-S	SO	06/28/12 11:42	1	0	5				GAS-C			BTEX OXY I .2 DCA/EDB_C	
STR12070345-21A	CPT-2-70-S	SO	06/28/12 12:16	1	0	5				GAS-C			BTEX OXY I .2 DCA/EDB_C	
STR12070345-22A	CPT-2-80-S	SO	06/28/12 12:40	1	0	5				GAS-C			BTEX OXY I .2 DCA/EDB_C	

**Comments:** Security seals intact. Frozen ice. Report w/Silica Gel for DRO/ORO on all TPH/E samples. per phone call with Scott. Propanal=Acrolein reference workorder #12051843. Amended 7/10/12 to change samples 18A-22A test group matrix. due to login error. SN :

Logged in by:	Signature	Print Name	Company	Date/Time
		Sarah Den	Alpha Analytical, Inc.	7/10/12 0920

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

Billing Information :

# CHAIN-OF-CUSTODY RECORD

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

# CA

**WorkOrder : STR12070345**  
**Report Due By : 5:00 PM On : 11-Jul-12**

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

Report Attention	Phone Number	EEmail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

EDD Required : Yes

Sampled by : Shane Edmunds

**PO :**  
 Client's COC # : 58272, 58274, 58275      Job : 2120-1401-1/Haber Oil

Cooler Temp	Samples Received	Date Printed
0 °C	03-Jul-12	03-Jul-12

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks
				TPH/E_SG_S	TPH/E_SG_W	TPH/P_S	TPHP_W	VOC_S	VOC_W	
STR12070345-09A	CPT-1-10-S	SO 06/29/12 09:48	1 0 5	Silica Gel (C)		GAS-C		8260_C +Acrolein OX YS		
STR12070345-10A	CPT-1-20-S	SO 06/29/12 09:56	1 0 5	Silica Gel (C)		GAS-C		8260_C +Acrolein OX YS		
STR12070345-11A	CPT-1-30-S	SO 06/29/12 10:07	1 0 5	Silica Gel (C)		GAS-C		8260_C +Acrolein OX YS		
STR12070345-12A	CPT-1-40-S	SO 06/29/12 10:24	1 0 5	Silica Gel (C)		GAS-C		8260_C +Acrolein OX YS		
STR12070345-13A	CPT-1-50-S	SO 06/29/12 11:06	1 0 5	Silica Gel (C)		GAS-C		8260_C +Acrolein OX YS		
STR12070345-14A	CPT-1-60-S	SO 06/29/12 11:31	1 0 5	Silica Gel (C)		GAS-C		8260_C +Acrolein OX YS		
STR12070345-15A	CPT-1-70-S	SO 06/29/12 12:16	1 0 5	Silica Gel (C)		GAS-C		8260_C +Acrolein OX YS		
STR12070345-16A	CPT-1-80-S	SO 06/29/12 13:49	1 0 5	Silica Gel (C)		GAS-C		8260_C +Acrolein OX YS		

**Comments:** Security seals intact. Frozen ice. Report w/Silica Gel for DRO/ORO on all TPH/E samples, per phone call with Scott. Propenal=Acrolein reference workorder #12051843. :

Logged in by:	Signature	Print Name	Company	Date/Time
		Sarah Bell	Alpha Analytical, Inc.	7/3/12 1155

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

# 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 : STR12070345**  
**Report Due By : 5:00 PM On : 11-Jul-12**

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

Report Attention	Phone Number	Email Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

EDD Required : Yes

Sampled by : Shane Edmunds

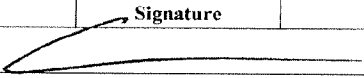
PO :  
 Client's COC # : 58272, 58274, 58275 Job : 2120-1401-1/Haber Oil

Cooler Temp	Samples Received	Date Printed
0 °C	03-Jul-12	03-Jul-12

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks
				TPH/E_SG_S	TPH/E_SG_W	TPH/P_S	TPH/P_W	VOC_S	VOC_W	
STR12070345-17A	CPT-1-90-S	SO 06/29/12 14:33	1 0 5	Silica Gel (C)		GAS-C		R260_C +Acrolein OX YS		
STR12070345-18A	CPT-2-40-S	SO 06/28/12 10:48	1 0 5			GAS-C		BTEX OXY: 1,2- DCA-EDB_C		
STR12070345-19A	CPT-2-50-S	SO 06/28/12 11:13	1 0 5			GAS-C		BTEX OXY: 1,2- DCA-EDB_C		
STR12070345-20A	CPT-2-60-S	SO 06/28/12 11:42	1 0 5			GAS-C		BTEX OXY: 1,2- DCA-EDB_C		
STR12070345-21A	CPT-2-70-S	SO 06/28/12 12:16	1 0 5			GAS-C		BTEX OXY: 1,2- DCA-EDB_C		
STR12070345-22A	CPT-2-80-S	SO 06/28/12 12:40	1 0 5			GAS-C		BTEX OXY: 1,2- DCA-EDB_C		

**Comments:** Security seals intact. Frozen ice. Report w/Silica Gel for DRO/ORO on all TPH/E samples, per phone call with Scott. Propenal=Acrolein reference workorder #12051843. :

Logged in by:	Signature	Print Name	Company	Date/Time
		Sarah Wei	Alpha Analytical, Inc.	7/3/12 1155

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

Billing Information :

# CHAIN-OF-CUSTODY RECORD

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

# CA

**WorkOrder : STR12070345**  
**Report Due By : 5:00 PM On : 11-Jul-12**

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

Report Attention	Phone Number	Email Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

EDD Required : Yes

Sampled by : Shane Edmunds

Cooler Temp	Samples Received	Date Printed
0 °C	03-Jul-12	03-Jul-12

PO :  
 Client's COC # : 58272, 58274, 58275      Job : 2120-1401-1/Haber Oil

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks
				TPH/E_SG_S	TPH/E_SG_W	TPHP_S	TPHP_W	VOC_S	VOC_W	
STR12070345-01A	CPT-1-56-W	AQ 06/29/12 16:09	6 0 5		Silica Gel (C)		GAS-C		8260_C +Acrolein OX YS	
STR12070345-02A	CPT-1-66-W	AQ 06/29/12 16:52	6 0 5		Silica Gel (C)		GAS-C		8260_C +Acrolein OX YS	
STR12070345-03A	CPT-1-76-W	AQ 06/29/12 17:55	6 0 5		Silica Gel (C)		GAS-C		8260_C +Acrolein OX YS	
STR12070345-04A	CPT-1-80-W	AQ 06/29/12 18:36	6 0 5		Silica Gel (C)		GAS-C		8260_C +Acrolein OX YS	
STR12070345-05A	CPT-2-48-W	AQ 06/28/12 14:30	6 0 5		Silica Gel (C)		GAS-C		8260_C +Acrolein OX YS	
STR12070345-06A	CPT-2-58-W	AQ 06/28/12 15:11	6 0 5		Silica Gel (C)		GAS-C		8260_C +Acrolein OX YS	
STR12070345-07A	CPT-2-68-W	AQ 06/28/12 15:59	6 0 5		Silica Gel (C)		GAS-C		8260_C +Acrolein OX YS	
STR12070345-08A	CPT-2-85-W	AQ 06/28/12 13:36	6 0 5		Silica Gel (C)		GAS-C		8260_C +Acrolein OX YS	

Comments: Security seals intact. Frozen ice. Report w/Silica Gel for DRO/ORO on all TPH/E samples, per phone call with Scott. Propenal=Acrolein reference workorder #12051843. :

Logged in by:	Signature	Print Name	Company	Date/Time
		Shane Edmunds	Alpha Analytical, Inc.	7/3/12 1155

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:**

Company Name Stratus Environmental  
 Attn: Accounts Payable  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone Number \_\_\_\_\_ Fax \_\_\_\_\_



**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? **58272**  
 AZ \_\_\_\_\_ CA  NV \_\_\_\_\_ WA \_\_\_\_\_ DOD Site \_\_\_\_\_  
 ID \_\_\_\_\_ OR \_\_\_\_\_ OTHER \_\_\_\_\_ Page # 1 of 3

Consultant / Client Name		Job #		Job Name		Analyses Required						Data Validation Level: III or IV			
Haber Oil		2120-1401-01		Report Attention / Project Manager		VOCs extended 1514 propand GRO DRO w/ silica decont MPO BTEX, Lead, Sulf S oxys						EDD / EDF? YES <input checked="" type="checkbox"/> NO _____			
Address: 1401 Grand Ave. San Leandro		Name: Steve Carter		Email: _____								Global ID # 16000101527			
Time Sampled	Date Sampled	Matrix See Key Below	P.O. #	Lab ID Number	Office (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	REMARKS					
1609	4/29	AQ		STR12070245	DLA	CPT-2-56-W	STD		6V	X	X	X	X	X	
1652					DLA	CPT-2-66-W									
1755					DLA	CPT-2-76-W									
1856					DLA	CPT-2-80-W									
1430	4/29				DLA	CPT-2-48-W									
1511					DLA	CPT-2-58-W									
1559					DLA	CPT-2-68-W									
1336					DLA	CPT-2-85-W									

**ADDITIONAL INSTRUCTIONS:**

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

Relinquished by: (Signature/Affiliation) <u>Steve Edwards</u>	Received by: (Signature/Affiliation) <u>E. Francisco</u>	Date: <u>07.02.12</u>	Time: <u>152</u>
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation) <u>Alpha</u>	Date: <u>7/3/12</u>	Time: <u>1035</u>
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

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

**Billing Information:**

Company Name Stratus Environmental  
 Attn: Accounts Payable  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone Number \_\_\_\_\_ Fax \_\_\_\_\_



**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? **58274**  
 AZ \_\_\_\_\_ CA  NV \_\_\_\_\_ WA \_\_\_\_\_ DOD Site \_\_\_\_\_  
 ID \_\_\_\_\_ OR \_\_\_\_\_ OTHER \_\_\_\_\_ Page # 2 of 3

Consultant / Client Name		Job #		Job Name		Analyses Required										Data Validation Level: III or IV	
Address		Name: <u>Steve Carter</u>		Report Attention / Project Manager		GRO	DRO, ORO	50xys	1/2 DCA, EDB	BTEX, MTBE	VOCs Extended List	T Propenal	EDD / EDF? YES <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/>				
City, State, Zip		Email:		Phone:									Mobile:		Global ID # <u>1060201827</u>		REMARKS
Time Sampled	Date Sampled	Matrix See Key Below	P.O. #	Lab ID Number	Office (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	GRO	DRO, ORO	50xys	1/2 DCA, EDB	BTEX, MTBE	VOCs Extended List	T Propenal	
0746	6/29	SO		D9A		CPT-1-10-S	STD		155	X	X	X	X	X	X		
0956				FOF 10A		CPT-1-20-S											
1007				11A		CPT-1-30-S											
1024				12A		CPT-1-40-S											
1106				LAE 13A		CPT-1-50-S											
1131				14A		CPT-1-60-S											
1216				15A		CPT-1-70-S											
1349				USE 16A		CPT-1-80-S											
1433				17A		CPT-1-90-S											
1048	6/29			18A		CPT-2-40-S											
1113				DNL 19A		CPT-2-50-S											
1142				20A		CPT-2-60-S											
1216				21A		CPT-2-70-S											

**ADDITIONAL INSTRUCTIONS:**


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

Relinquished by: (Signature/Affiliation)	<u>Steve Carter</u>	Received by: (Signature/Affiliation)	<u>E. Frigiano</u>	Date:	<u>07.02.12</u>	Time:	<u>152</u>
Relinquished by: (Signature/Affiliation)		Received by: (Signature/Affiliation)	<u>Alpha</u>	Date:	<u>7/3/12</u>	Time:	<u>1035</u>
Relinquished by: (Signature/Affiliation)		Received by: (Signature/Affiliation)		Date:		Time:	

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

**Billing Information:**

Company Name Stratus Environmental  
 Attn: Accounts Payable  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone Number \_\_\_\_\_ Fax \_\_\_\_\_



**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? **58275**  
 AZ \_\_\_\_\_ CA  NV \_\_\_\_\_ WA \_\_\_\_\_ DOD Site \_\_\_\_\_  
 ID \_\_\_\_\_ OR \_\_\_\_\_ OTHER \_\_\_\_\_ Page # 3 of 3

Time Sampled		Date Sampled	Matrix* See Key Below	P.O. #	Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Analyses Required					Data Validation Level: III or IV			
Consultant / Client Name <u>Haber Oil</u>				Job # <u>2120-1401-01</u>		Job Name _____		<div style="display: flex; justify-content: space-around; text-align: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">X GPO</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">X SOXYS</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">X BTEX/MTBE</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">X 1,2 DCA, FAS</div> </div>					Address <u>1401 Grand Ave</u>		Report Attention / Project Manager <u>Steve Carter</u>		EDD / EDF? YES <input checked="" type="checkbox"/> NO _____	
City, State, Zip <u>San Leandro</u>				Name: _____		Email: _____							Global ID # <u>FE60101827</u>		REMARKS			
P.O. # _____				Phone: _____		Mobile: _____												
<u>1240</u>	<u>6/28</u>	<u>SO</u>	<u>22A</u>	<u>CPT-2-80-S</u>	<u>STD</u>	<u>155</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								

**ADDITIONAL INSTRUCTIONS:**

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

Relinquished by: (Signature/Affiliation) <u>Shane Edwards</u>	Received by: (Signature/Affiliation) <u>E. Manciano</u>	Date: <u>07.02.12</u>	Time: <u>152</u>
Relinquished by: (Signature/Affiliation) _____	Received by: (Signature/Affiliation) <u>Alpha</u>	Date: <u>7/31/12</u>	Time: <u>1055</u>
Relinquished by: (Signature/Affiliation) _____	Received by: (Signature/Affiliation) _____	Date: _____	Time: _____

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



# Alpha Analytical, Inc.

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

## ANALYTICAL REPORT

Stratus Environmental  
3330 Cameron Park Drive  
Cameron Park, CA 956828861

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005  
Date Received : 08/11/12

Job: 2120-1400-01/ Haber Oil

### Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

Client ID :	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
<b>MW-9</b>					
Lab ID : STR12081311-01A	TPH-P (GRO)	ND	50 µg/L	08/17/12	08/17/12
Date Sampled 08/09/12 17:44					
<b>MW-10</b>					
Lab ID : STR12081311-02A	TPH-P (GRO)	ND	50 µg/L	08/17/12	08/17/12
Date Sampled 08/09/12 18:24					
<b>MW-1R</b>					
Lab ID : STR12081311-03A	TPH-P (GRO)	4,000	200 µg/L	08/17/12	08/17/12
Date Sampled 08/09/12 18:53					
<b>MW-2R</b>					
Lab ID : STR12081311-04A	TPH-P (GRO)	30,000	4,000 µg/L	08/17/12	08/17/12
Date Sampled 08/09/12 19:45					

#### Gasoline Range Organics (GRO) C4-C13

This replaces the report originally signed 8/20/12, due to a change in the job name, due to lab error.

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) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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

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

*PS*

8/21/12

Report Date



# Alpha Analytical, Inc.

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

## ANALYTICAL REPORT

Stratus Environmental  
3330 Cameron Park Drive  
Cameron Park, CA 956828861  
Job: 2120-1400-01/ Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12081311-01A  
Client I.D. Number: MW-9

Sampled: 08/09/12 17:44  
Received: 08/11/12  
Extracted: 08/17/12  
Analyzed: 08/17/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	36 1,2-Dibromoethane (EDB)	ND	2.0 µg/L
2 Chloromethane	ND	2.0 µg/L	37 Tetrachloroethene	2.7	1.0 µg/L
3 Vinyl chloride	ND	1.0 µg/L	38 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L
4 Chloroethane	ND	1.0 µg/L	39 Chlorobenzene	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	40 Ethylbenzene	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	1.0 µg/L	41 m,p-Xylene	ND	0.50 µg/L
7 Acrolein	ND	100 µg/L	42 Bromoform	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	43 Styrene	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	44 o-Xylene	ND	0.50 µg/L
10 Dichloromethane	2.4	2.0 µg/L	45 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
11 trans-1,2-Dichloroethene	ND	1.0 µg/L	46 1,2,3-Trichloropropane	ND	2.0 µg/L
12 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	47 Isopropylbenzene	ND	1.0 µg/L
13 1,1-Dichloroethane	ND	1.0 µg/L	48 Bromobenzene	ND	1.0 µg/L
14 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	49 n-Propylbenzene	ND	1.0 µg/L
15 cis-1,2-Dichloroethene	ND	1.0 µg/L	50 4-Chlorotoluene	ND	1.0 µg/L
16 Bromochloromethane	ND	1.0 µg/L	51 2-Chlorotoluene	ND	1.0 µg/L
17 Chloroform	ND	1.0 µg/L	52 1,3,5-Trimethylbenzene	ND	1.0 µg/L
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	53 tert-Butylbenzene	ND	1.0 µg/L
19 2,2-Dichloropropane	ND	1.0 µg/L	54 1,2,4-Trimethylbenzene	ND	1.0 µg/L
20 1,2-Dichloroethane	ND	1.0 µg/L	55 sec-Butylbenzene	ND	1.0 µg/L
21 1,1,1-Trichloroethane	ND	1.0 µg/L	56 1,3-Dichlorobenzene	ND	1.0 µg/L
22 1,1-Dichloropropene	ND	1.0 µg/L	57 1,4-Dichlorobenzene	ND	1.0 µg/L
23 Carbon tetrachloride	ND	1.0 µg/L	58 4-Isopropyltoluene	ND	1.0 µg/L
24 Benzene	1.1	0.50 µg/L	59 1,2-Dichlorobenzene	ND	1.0 µg/L
25 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	60 n-Butylbenzene	ND	1.0 µg/L
26 Dibromomethane	ND	1.0 µg/L	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	3.0 µg/L
27 1,2-Dichloropropane	ND	1.0 µg/L	62 1,2,4-Trichlorobenzene	ND	2.0 µg/L
28 Trichloroethene	ND	1.0 µg/L	63 Naphthalene	ND	2.0 µg/L
29 Bromodichloromethane	ND	1.0 µg/L	64 Hexachlorobutadiene	ND	2.0 µg/L
30 cis-1,3-Dichloropropene	ND	1.0 µg/L	65 1,2,3-Trichlorobenzene	ND	2.0 µg/L
31 trans-1,3-Dichloropropene	ND	1.0 µg/L			
32 1,1,2-Trichloroethane	ND	1.0 µg/L			
33 Toluene	ND	0.50 µg/L			
34 1,3-Dichloropropane	ND	1.0 µg/L			
35 Dibromochloromethane	ND	1.0 µg/L			

This replaces the report originally signed 8/20/12, due to a change in the job name, due to lab error.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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8/21/12

Report Date

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# 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  
Job: 2120-1400-01/ Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12081311-02A  
Client I.D. Number: MW-10

Sampled: 08/09/12 18:24  
Received: 08/11/12  
Extracted: 08/17/12  
Analyzed: 08/17/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	36 1,2-Dibromoethane (EDB)	ND	2.0 µg/L
2 Chloromethane	ND	2.0 µg/L	37 Tetrachloroethene	1.0	1.0 µg/L
3 Vinyl chloride	ND	1.0 µg/L	38 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L
4 Chloroethane	ND	1.0 µg/L	39 Chlorobenzene	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	40 Ethylbenzene	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	1.0 µg/L	41 m,p-Xylene	ND	0.50 µg/L
7 Acrolein	ND	100 µg/L	42 Bromoform	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	43 Styrene	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	44 o-Xylene	ND	0.50 µg/L
10 Dichloromethane	ND	2.0 µg/L	45 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
11 trans-1,2-Dichloroethene	ND	1.0 µg/L	46 1,2,3-Trichloropropane	ND	2.0 µg/L
12 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	47 Isopropylbenzene	ND	1.0 µg/L
13 1,1-Dichloroethane	ND	1.0 µg/L	48 Bromobenzene	ND	1.0 µg/L
14 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	49 n-Propylbenzene	ND	1.0 µg/L
15 cis-1,2-Dichloroethene	ND	1.0 µg/L	50 4-Chlorotoluene	ND	1.0 µg/L
16 Bromochloromethane	ND	1.0 µg/L	51 2-Chlorotoluene	ND	1.0 µg/L
17 Chloroform	1.2	1.0 µg/L	52 1,3,5-Trimethylbenzene	ND	1.0 µg/L
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	53 tert-Butylbenzene	ND	1.0 µg/L
19 2,2-Dichloropropane	ND	1.0 µg/L	54 1,2,4-Trimethylbenzene	ND	1.0 µg/L
20 1,2-Dichloroethane	ND	1.0 µg/L	55 sec-Butylbenzene	ND	1.0 µg/L
21 1,1,1-Trichloroethane	ND	1.0 µg/L	56 1,3-Dichlorobenzene	ND	1.0 µg/L
22 1,1-Dichloropropene	ND	1.0 µg/L	57 1,4-Dichlorobenzene	ND	1.0 µg/L
23 Carbon tetrachloride	ND	1.0 µg/L	58 4-Isopropyltoluene	ND	1.0 µg/L
24 Benzene	ND	0.50 µg/L	59 1,2-Dichlorobenzene	ND	1.0 µg/L
25 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	60 n-Butylbenzene	ND	1.0 µg/L
26 Dibromomethane	ND	1.0 µg/L	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	3.0 µg/L
27 1,2-Dichloropropane	ND	1.0 µg/L	62 1,2,4-Trichlorobenzene	ND	2.0 µg/L
28 Trichloroethene	ND	1.0 µg/L	63 Naphthalene	ND	2.0 µg/L
29 Bromodichloromethane	ND	1.0 µg/L	64 Hexachlorobutadiene	ND	2.0 µg/L
30 cis-1,3-Dichloropropene	ND	1.0 µg/L	65 1,2,3-Trichlorobenzene	ND	2.0 µg/L
31 trans-1,3-Dichloropropene	ND	1.0 µg/L			
32 1,1,2-Trichloroethane	ND	1.0 µg/L			
33 Toluene	ND	0.50 µg/L			
34 1,3-Dichloropropane	ND	1.0 µg/L			
35 Dibromochloromethane	ND	1.0 µg/L			

This replaces the report originally signed 8/20/12, due to a change in the job name, due to lab error.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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8/21/12

Report Date

Page 1 of 1



# 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  
Job: 2120-1400-01/ Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12081311-03A  
Client I.D. Number: MW-1R

Sampled: 08/09/12 18:53  
Received: 08/11/12  
Extracted: 08/17/12  
Analyzed: 08/17/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	2.0 µg/L	36 1,2-Dibromoethane (EDB)	ND	4.0 µg/L
2 Chloromethane	ND	8.0 µg/L	37 Tetrachloroethene	ND	2.0 µg/L
3 Vinyl chloride	ND	2.0 µg/L	38 1,1,1,2-Tetrachloroethane	ND	2.0 µg/L
4 Chloroethane	ND	2.0 µg/L	39 Chlorobenzene	ND	2.0 µg/L
5 Bromomethane	ND	8.0 µg/L	40 Ethylbenzene	4.6	1.0 µg/L
6 Trichlorofluoromethane	ND	2.0 µg/L	41 m,p-Xylene	1.4	1.0 µg/L
7 Acrolein	ND	200 µg/L	42 Bromoform	ND	2.0 µg/L
8 1,1-Dichloroethene	ND	2.0 µg/L	43 Styrene	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	20 µg/L	44 o-Xylene	ND	1.0 µg/L
10 Dichloromethane	ND	8.0 µg/L	45 1,1,2,2-Tetrachloroethane	ND	2.0 µg/L
11 trans-1,2-Dichloroethene	ND	2.0 µg/L	46 1,2,3-Trichloropropane	ND	8.0 µg/L
12 Methyl tert-butyl ether (MTBE)	63	1.0 µg/L	47 Isopropylbenzene	6.6	2.0 µg/L
13 1,1-Dichloroethane	ND	2.0 µg/L	48 Bromobenzene	ND	2.0 µg/L
14 Di-isopropyl Ether (DIPE)	ND	2.0 µg/L	49 n-Propylbenzene	19	2.0 µg/L
15 cis-1,2-Dichloroethene	ND	2.0 µg/L	50 4-Chlorotoluene	ND	2.0 µg/L
16 Bromochloromethane	ND	2.0 µg/L	51 2-Chlorotoluene	ND	2.0 µg/L
17 Chloroform	ND	2.0 µg/L	52 1,3,5-Trimethylbenzene	ND	2.0 µg/L
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	2.0 µg/L	53 tert-Butylbenzene	ND	2.0 µg/L
19 2,2-Dichloropropane	ND	2.0 µg/L	54 1,2,4-Trimethylbenzene	ND	2.0 µg/L
20 1,2-Dichloroethane	ND	2.0 µg/L	55 sec-Butylbenzene	17	2.0 µg/L
21 1,1,1-Trichloroethane	ND	2.0 µg/L	56 1,3-Dichlorobenzene	ND	2.0 µg/L
22 1,1-Dichloropropene	ND	2.0 µg/L	57 1,4-Dichlorobenzene	ND	2.0 µg/L
23 Carbon tetrachloride	ND	2.0 µg/L	58 4-Isopropyltoluene	4.4	2.0 µg/L
24 Benzene	ND	1.0 µg/L	59 1,2-Dichlorobenzene	ND	2.0 µg/L
25 Tertiary Amyl Methyl Ether (TAME)	5.3	2.0 µg/L	60 n-Butylbenzene	17	2.0 µg/L
26 Dibromomethane	ND	2.0 µg/L	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	12 µg/L
27 1,2-Dichloropropane	ND	2.0 µg/L	62 1,2,4-Trichlorobenzene	ND	8.0 µg/L
28 Trichloroethene	ND	2.0 µg/L	63 Naphthalene	ND	8.0 µg/L
29 Bromodichloromethane	ND	2.0 µg/L	64 Hexachlorobutadiene	ND	8.0 µg/L
30 cis-1,3-Dichloropropene	ND	2.0 µg/L	65 1,2,3-Trichlorobenzene	ND	8.0 µg/L
31 trans-1,3-Dichloropropene	ND	2.0 µg/L			
32 1,1,2-Trichloroethane	ND	2.0 µg/L			
33 Toluene	ND	1.0 µg/L			
34 1,3-Dichloropropane	ND	2.0 µg/L			
35 Dibromochloromethane	ND	2.0 µg/L			

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

This replaces the report originally signed 8/20/12, due to a change in the job name, due to lab error.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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8/21/12

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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

Stratus Environmental  
3330 Cameron Park Drive  
Cameron Park, CA 956828861  
Job: 2120-1400-01/ Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12081311-04A  
Client I.D. Number: MW-2R

Sampled: 08/09/12 19:45  
Received: 08/11/12  
Extracted: 08/17/12  
Analyzed: 08/17/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	40 µg/L	36 1,2-Dibromoethane (EDB)	ND	80 µg/L
2 Chloromethane	ND	160 µg/L	37 Tetrachloroethene	ND	40 µg/L
3 Vinyl chloride	ND	40 µg/L	38 1,1,1,2-Tetrachloroethane	ND	40 µg/L
4 Chloroethane	ND	40 µg/L	39 Chlorobenzene	ND	40 µg/L
5 Bromomethane	ND	160 µg/L	40 Ethylbenzene	1,500	20 µg/L
6 Trichlorofluoromethane	ND	40 µg/L	41 m,p-Xylene	3,900	20 µg/L
7 Acrolein	ND	4,000 µg/L	42 Bromoform	ND	40 µg/L
8 1,1-Dichloroethene	ND	40 µg/L	43 Styrene	ND	40 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	400 µg/L	44 o-Xylene	1,100	20 µg/L
10 Dichloromethane	ND	160 µg/L	45 1,1,2,2-Tetrachloroethane	ND	40 µg/L
11 trans-1,2-Dichloroethene	ND	40 µg/L	46 1,2,3-Trichloropropane	ND	160 µg/L
12 Methyl tert-butyl ether (MTBE)	340	20 µg/L	47 Isopropylbenzene	ND	40 µg/L
13 1,1-Dichloroethane	ND	40 µg/L	48 Bromobenzene	ND	40 µg/L
14 Di-isopropyl Ether (DIPE)	ND	40 µg/L	49 n-Propylbenzene	190	40 µg/L
15 cis-1,2-Dichloroethene	ND	40 µg/L	50 4-Chlorotoluene	ND	40 µg/L
16 Bromochloromethane	ND	40 µg/L	51 2-Chlorotoluene	ND	40 µg/L
17 Chloroform	ND	40 µg/L	52 1,3,5-Trimethylbenzene	260	40 µg/L
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	40 µg/L	53 tert-Butylbenzene	ND	40 µg/L
19 2,2-Dichloropropane	ND	40 µg/L	54 1,2,4-Trimethylbenzene	1,300	40 µg/L
20 1,2-Dichloroethane	ND	40 µg/L	55 sec-Butylbenzene	ND	40 µg/L
21 1,1,1-Trichloroethane	ND	40 µg/L	56 1,3-Dichlorobenzene	ND	40 µg/L
22 1,1-Dichloropropene	ND	40 µg/L	57 1,4-Dichlorobenzene	ND	40 µg/L
23 Carbon tetrachloride	ND	40 µg/L	58 4-Isopropyltoluene	ND	40 µg/L
24 Benzene	1,500	20 µg/L	59 1,2-Dichlorobenzene	ND	40 µg/L
25 Tertiary Amyl Methyl Ether (TAME)	ND	40 µg/L	60 n-Butylbenzene	ND	40 µg/L
26 Dibromomethane	ND	40 µg/L	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	240 µg/L
27 1,2-Dichloropropane	ND	40 µg/L	62 1,2,4-Trichlorobenzene	ND	160 µg/L
28 Trichloroethene	ND	40 µg/L	63 Naphthalene	220	160 µg/L
29 Bromodichloromethane	ND	40 µg/L	64 Hexachlorobutadiene	ND	160 µg/L
30 cis-1,3-Dichloropropene	ND	40 µg/L	65 1,2,3-Trichlorobenzene	ND	160 µg/L
31 trans-1,3-Dichloropropene	ND	40 µg/L			
32 1,1,2-Trichloroethane	ND	40 µg/L			
33 Toluene	1,300	20 µg/L			
34 1,3-Dichloropropane	ND	40 µg/L			
35 Dibromochloromethane	ND	40 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.  
This replaces the report originally signed 8/20/12, due to a change in the job name, due to lab error.

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) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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

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

*RG*  
8/21/12

Report Date

Page 1 of 1





# 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:** STR12081311

**Job:** 2120-1400-01/ Haber Oil

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12081311-01A	MW-9	Aqueous	2
12081311-02A	MW-10	Aqueous	2
12081311-03A	MW-1R	Aqueous	2
12081311-04A	MW-2R	Aqueous	2

This replaces the pH report issued 8/20/12, due to a change in the job name, due to lab error.

8/21/12

**Report Date**

*Page 1 of 1*



# Alpha Analytical, Inc.

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

Date:  
20-Aug-12

## QC Summary Report

Work Order:  
12081311

### Method Blank

File ID: 12081705.D

Type: MBLK Test Code: EPA Method SW8015B/C

Batch ID: MS15W0817B

Analysis Date: 08/17/2012 12:47

Sample ID: MBLK MS15W0817B

Units: µg/L

Run ID: MSD\_15\_120817A

Prep Date: 08/17/2012 12:47

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	10.3		10		103	70	130			
Surr: Toluene-d8	9.62		10		96	70	130			
Surr: 4-Bromofluorobenzene	9.76		10		98	70	130			

### Laboratory Control Spike

File ID: 12081703.D

Type: LCS Test Code: EPA Method SW8015B/C

Batch ID: MS15W0817B

Analysis Date: 08/17/2012 12:04

Sample ID: GLCS MS15W0817B

Units: µg/L

Run ID: MSD\_15\_120817A

Prep Date: 08/17/2012 12:04

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	410	50	400		103	70	130			
Surr: 1,2-Dichloroethane-d4	10.5		10		105	70	130			
Surr: Toluene-d8	9.3		10		93	70	130			
Surr: 4-Bromofluorobenzene	9.47		10		95	70	130			

### Sample Matrix Spike

File ID: 12081716.D

Type: MS Test Code: EPA Method SW8015B/C

Batch ID: MS15W0817B

Analysis Date: 08/17/2012 16:45

Sample ID: 12081311-01AGS

Units: µg/L

Run ID: MSD\_15\_120817A

Prep Date: 08/17/2012 16:45

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2340	250	2000		0	117	51	144		
Surr: 1,2-Dichloroethane-d4	51.6		50		103	70	130			
Surr: Toluene-d8	46.4		50		93	70	130			
Surr: 4-Bromofluorobenzene	47.5		50		95	70	130			

### Sample Matrix Spike Duplicate

File ID: 12081717.D

Type: MSD Test Code: EPA Method SW8015B/C

Batch ID: MS15W0817B

Analysis Date: 08/17/2012 17:07

Sample ID: 12081311-01AGSD

Units: µg/L

Run ID: MSD\_15\_120817A

Prep Date: 08/17/2012 17:07

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2290	250	2000		0	114	51	144	2344	2.3(29)
Surr: 1,2-Dichloroethane-d4	51.6		50		103	70	130			
Surr: Toluene-d8	46.8		50		94	70	130			
Surr: 4-Bromofluorobenzene	47.9		50		96	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.

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

Date:  
21-Aug-12

## QC Summary Report

Work Order:  
12081311

### Method Blank

File ID: 12081705.D

Type: MBLK Test Code: EPA Method SW8260B

Batch ID: MS15W0817A

Analysis Date: 08/17/2012 12:47

Sample ID: MBLK MS15W0817A

Units: µg/L

Run ID: MSD\_15\_120817A

Prep Date: 08/17/2012 12:47

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	ND		1							
Chloromethane	ND		2							
Vinyl chloride	ND		1							
Chloroethane	ND		1							
Bromomethane	ND		2							
Trichlorofluoromethane	ND		1							
Acrolein	ND	100								
1,1-Dichloroethene	ND		1							
Tertiary Butyl Alcohol (TBA)	ND		10							
Dichloromethane	ND		2							
trans-1,2-Dichloroethene	ND		1							
Methyl tert-butyl ether (MTBE)	ND	0.5								
1,1-Dichloroethane	ND		1							
Di-isopropyl Ether (DIPE)	ND		1							
cis-1,2-Dichloroethene	ND		1							
Bromochloromethane	ND		1							
Chloroform	ND		1							
Ethyl Tertiary Butyl Ether (ETBE)	ND		1							
2,2-Dichloropropane	ND		1							
1,2-Dichloroethane	ND		1							
1,1,1-Trichloroethane	ND		1							
1,1-Dichloropropene	ND		1							
Carbon tetrachloride	ND		1							
Benzene	ND	0.5								
Tertiary Amyl Methyl Ether (TAME)	ND		1							
Dibromomethane	ND		1							
1,2-Dichloropropane	ND		1							
Trichloroethene	ND		1							
Bromodichloromethane	ND		1							
cis-1,3-Dichloropropene	ND		1							
trans-1,3-Dichloropropene	ND		1							
1,1,2-Trichloroethane	ND		1							
Toluene	ND	0.5								
1,3-Dichloropropane	ND		1							
Dibromochloromethane	ND		1							
1,2-Dibromoethane (EDB)	ND		2							
Tetrachloroethene	ND		1							
1,1,1,2-Tetrachloroethane	ND		1							
Chlorobenzene	ND		1							
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
Bromoform	ND		1							
Styrene	ND		1							
o-Xylene	ND	0.5								
1,1,2,2-Tetrachloroethane	ND		1							
1,2,3-Trichloropropane	ND		2							
Isopropylbenzene	ND		1							
Bromobenzene	ND		1							
n-Propylbenzene	ND		1							
4-Chlorotoluene	ND		1							
2-Chlorotoluene	ND		1							
1,3,5-Trimethylbenzene	ND		1							
tert-Butylbenzene	ND		1							
1,2,4-Trimethylbenzene	ND		1							
sec-Butylbenzene	ND		1							
1,3-Dichlorobenzene	ND		1							
1,4-Dichlorobenzene	ND		1							
4-Isopropyltoluene	ND		1							
1,2-Dichlorobenzene	ND		1							
n-Butylbenzene	ND		1							
1,2-Dibromo-3-chloropropane (DBCP)	ND		3							
1,2,4-Trichlorobenzene	ND		2							
Naphthalene	ND		2							
Hexachlorobutadiene	ND		2							
1,2,3-Trichlorobenzene	ND		2							



# Alpha Analytical, Inc.

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

Date:  
21-Aug-12

## QC Summary Report

Work Order:  
12081311

Surr: 1,2-Dichloroethane-d4	10.3	10	103	70	130
Surr: Toluene-d8	9.62	10	96	70	130
Surr: 4-Bromofluorobenzene	9.76	10	98	70	130

### Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: 12081702.D

Batch ID: MS15W0817A

Analysis Date: 08/17/2012 11:42

Sample ID: LCS MS15W0817A

Units: µg/L

Run ID: MSD\_15\_120817A

Prep Date: 08/17/2012 11:42

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	9.19	1	10		92	80	120			
Methyl tert-butyl ether (MTBE)	9.11	0.5	10		91	65	140			
Benzene	9.09	0.5	10		91	70	130			
Trichloroethene	8.56	1	10		86	65	144			
Toluene	9.31	0.5	10		93	80	120			
Chlorobenzene	9.52	1	10		95	70	130			
Ethylbenzene	9.37	0.5	10		94	80	120			
m,p-Xylene	10.2	0.5	10		102	70	130			
o-Xylene	10.3	0.5	10		103	70	130			
Surr: 1,2-Dichloroethane-d4	11.8		10		118	70	130			
Surr: Toluene-d8	9.84		10		98	70	130			
Surr: 4-Bromofluorobenzene	9.57		10		96	70	130			

### Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: 12081714.D

Batch ID: MS15W0817A

Analysis Date: 08/17/2012 16:02

Sample ID: 12081311-01AMS

Units: µg/L

Run ID: MSD\_15\_120817A

Prep Date: 08/17/2012 16:02

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	50	2.5	50		0	100	64	130		
Methyl tert-butyl ether (MTBE)	54.9	1.3	50		0	110	47	150		
Benzene	51.2	1.3	50	1.05	100	59	138			
Trichloroethene	46.5	2.5	50		0	93	65	144		
Toluene	52.4	1.3	50		0	105	68	130		
Chlorobenzene	52.5	2.5	50		0	105	70	130		
Ethylbenzene	51.2	1.3	50		0	102	68	130		
m,p-Xylene	56.5	1.3	50		0	113	68	131		
o-Xylene	56.4	1.3	50		0	113	70	130		
Surr: 1,2-Dichloroethane-d4	58		50			116	70	130		
Surr: Toluene-d8	49.4		50			99	70	130		
Surr: 4-Bromofluorobenzene	46.9		50			94	70	130		

### Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: 12081715.D

Batch ID: MS15W0817A

Analysis Date: 08/17/2012 16:24

Sample ID: 12081311-01AMSD

Units: µg/L

Run ID: MSD\_15\_120817A

Prep Date: 08/17/2012 16:24

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	56.8	2.5	50		0	114	64	130	49.99	12.7(21)
Methyl tert-butyl ether (MTBE)	63.3	1.3	50		0	127	47	150	54.94	14.1(40)
Benzene	57.9	1.3	50	1.05	114	59	138	51.22	12.3(21)	
Trichloroethene	53	2.5	50		0	106	65	144	46.47	13.2(20)
Toluene	59.2	1.3	50		0	118	68	130	52.43	12.2(20)
Chlorobenzene	60.2	2.5	50		0	120	70	130	52.51	13.7(20)
Ethylbenzene	58.4	1.3	50		0	117	68	130	51.22	13.2(20)
m,p-Xylene	63.1	1.3	50		0	126	68	131	56.5	11.1(20)
o-Xylene	64	1.3	50		0	128	70	130	56.36	12.6(20)
Surr: 1,2-Dichloroethane-d4	48.5		50			97	70	130		
Surr: Toluene-d8	49.8		50			99.7	70	130		
Surr: 4-Bromofluorobenzene	47.2		50			94	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

Page: 1 of 1  
**CA AMENDED #2**

**WorkOrder : STR12081311**  
**Report Due By : 5:00 PM On : 20-Aug-12**

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

Report Attention	Phone Number	EEmail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

EDD Required : Yes

Sampled by : Allan Dudding

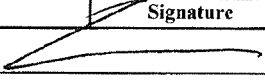
**PO :**  
 Client's COC # : 58288                      Job : 2120-1400-01/ Haber Oil

Cooler Temp	Samples Received	Date Printed
0 °C	11-Aug-12	21-Aug-12

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests								Sample Remarks	
				TPH/P_W	VOC_W								
STR12081311-01A	MW-9	AQ 08/09/12 17:44	7 0 5	GAS-C	8260/OXYS_C +Acrolein								
STR12081311-02A	MW-10	AQ 08/09/12 18:24	7 0 5	GAS-C	8260/OXYS_C +Acrolein								
STR12081311-03A	MW-1R	AQ 08/09/12 18:53	7 0 5	GAS-C	8260/OXYS_C +Acrolein								
STR12081311-04A	MW-2R	AQ 08/09/12 19:45	7 0 5	GAS-C	8260/OXYS_C +Acrolein								

**Comments:** Security seals intact. Frozen Ice. Saturday delivery. Samples kept cold and secure until login Monday. Amended 8/13/12 to remove TPH/E analysis from all samples per ammended chain from Steve. Amended 8/21/12 to correct job name, due to login error. SN :

<b>Logged in by:</b>		<b>Print Name</b> Sarah Neri	<b>Company</b> Alpha Analytical, Inc.	<b>Date/Time</b> 8/21/12 0900
----------------------	---	---------------------------------	--	----------------------------------

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

# AMENDED CA

WorkOrder : STR12081311  
Report Due By : 5:00 PM On : 20-Aug-12

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

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

Report Attention	Phone Number	Email Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

EDD Required : Yes

Sampled by : Allan Dudding

PO :  
Client's COC # : 58288 Job : 2120-1400-01/ Harbor Oil

Cooler Temp	Samples Received	Date Printed
0 °C	11-Aug-12	13-Aug-12

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests							Sample Remarks		
				Alpha	Sub	TAT	TPH/P_W	VOC_W								
STR12081311-01A	MW-9	AQ	08/09/12 17:44	7	0	5	GAS-C	8260/OXYS C+Acrolein								
STR12081311-02A	MW-10	AQ	08/09/12 18:24	7	0	5	GAS-C	8260/OXYS C+Acrolein								
STR12081311-03A	MW-1R	AQ	08/09/12 18:53	7	0	5	GAS-C	8260/OXYS C+Acrolein								
STR12081311-04A	MW-2R	AQ	08/09/12 19:45	7	0	5	GAS-C	8260/OXYS C+Acrolein								

Comments: Security seals intact. Frozen Ice. Saturday delivery. Samples kept cold and secure until login Monday. Amended 8/13/12 to remove TPH/E analysis from all samples per ammended chain from Steve.

Signature	Print Name	Company	Date/Time
<i>Sara Coffee</i>	Sara Coffee	Alpha Analytical, Inc.	8/13/12 15:17

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

**Billing Information :**

# CHAIN-OF-CUSTODY RECORD

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

# CA

**WorkOrder : STR12081311**  
**Report Due By : 5:00 PM On : 20-Aug-12**

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

Report Attention	Phone Number	EMail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

EDD Required : Yes

Sampled by : Allan Dudding

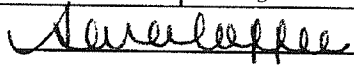
**PO :**  
 Client's COC # : 58288                      Job : 2120-1400-01/ Harbor Oil

<u>Cooler Temp</u>	<u>Samples Received</u>	<u>Date Printed</u>
0 °C	11-Aug-12	13-Aug-12

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests								Sample Remarks	
							Alpha	Sub	TAT	TPH/E_SG_W	TPH/E_W	TPH/P_W	VOC_W			
STR12081311-01A	MW-9	AQ	08/09/12 17:44	7	0	5		TPH/E_C	GAS-C	8260/OXYS_C +Acrolein						
STR12081311-02A	MW-10	AQ	08/09/12 18:24	7	0	5		TPH/E_C	GAS-C	8260/OXYS_C +Acrolein						
STR12081311-03A	MW-1R	AQ	08/09/12 18:53	7	0	5		TPH/E_C	GAS-C	8260/OXYS_C +Acrolein						
STR12081311-04A	MW-2R	AQ	08/09/12 19:45	7	0	5	Silica Gel (C)	TPH/E_C	GAS-C	8260/OXYS_C +Acrolein						

**Comments:**                      Security seals intact. Frozen Ice. Saturday delivery. Samples kept cold and secure until login Monday. :

	<u>Signature</u>	<u>Print Name</u>	<u>Company</u>	<u>Date/Time</u>
Logged in by:		Sara Coffee	Alpha Analytical, Inc.	8/13/12 10:58


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

# AMENDED

Samples Collected From Which State? **58288**  
 AZ      CA X NV      WA      DOD Site       
 ID      OR      OTHER      Page # 1 of 1

**Billing Information:**

Company Name Stratus Env.  
 Attn:       
 Address       
 City, State, Zip       
 Phone Number      Fax     



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

Consultant / Client Name		Job #		Job Name		Analyses Required				Data Validation Level: III or IV				
Haber 01 <td colspan="2">2120-14W-01 <td colspan="2">Haber 01 <td colspan="4"></td> <td colspan="2"></td> </td></td>		2120-14W-01 <td colspan="2">Haber 01 <td colspan="4"></td> <td colspan="2"></td> </td>		Haber 01 <td colspan="4"></td> <td colspan="2"></td>										
Address		Report Attention / Project Manager		Name:						EDD / EDF? YES <u>X</u> NO <u>    </u>				
1400 Grand Ave.		Steve Carter		Steve Carter						Global ID # <u>70600101827</u>				
City, State, Zip		Email:		Phone:						REMARKS				
Sun Landway, CA		SCarter@stratusinc.com												
Time Sampled	Date Sampled	Matrix* See Key Below	P.O. #	Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**						
1744	8/9	AQ		STR12081311-01A	MW-9	Std		7V	X					
1824				FOR-02A	MW-1D				X					
1853				-03A	MW-1R				X					
1945				-04A	MW-2R				X	X	X	X		

GPO - Method  
 DOD  
 Data with filter  
 VOA expanded list  
 with P10001  
 by 8/26/08

**ADDITIONAL INSTRUCTIONS:**

*Please delete analyses as noted above. Glarker 8/13/12 2:54 pm Stratus Environmental*

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: <u>Alan Building</u>			
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date	Time
<i>[Signature]</i>	<i>[Signature]</i>	8-10-12	7:00
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date	Time
<i>[Signature]</i>	<i>[Signature]</i>	8/13/12	10:52
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date	Time
<i>[Signature]</i>	<i>[Signature]</i>	8/13/12	15:10

\*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 cop. The liability of the laboratory is limited to the amount paid for the report



**Billing Information:**

Company Name Stratus Env.  
 Attn: \_\_\_\_\_  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone Number \_\_\_\_\_ Fax \_\_\_\_\_



**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? **58288**  
 AZ \_\_\_\_\_ CA  NV \_\_\_\_\_ WA \_\_\_\_\_ DOD Site \_\_\_\_\_  
 ID \_\_\_\_\_ OR \_\_\_\_\_ OTHER \_\_\_\_\_ Page # 1 of 1

Consultant / Client Name				Job #	Job Name	Analyses Required				Data Validation Level: III or IV					
Huber 01				2120-14W-01	Huber 01										
Address				Report Attention / Project Manager											
1400 Grand Ave.				Name: Steve Cantor											
City, State, Zip				Email: scantor@stratusinc.net											
San Leandro, CA				Phone: _____ Mobile: _____											
Time Sampled	Date Sampled	Matrix* See Key Below	P.O.#	Lab ID Number	Office (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	GRO, Motor Oil	DRO	DRO w/ silicagel	WGS extended list with Propene	100% Rq 8/28/08	REMARKS
1744	8/9	AQ		STR1081011-01A		MW-9	Std		7V	X					
1824				FOR-02A		MW-10				X					
1853				FOR-03A		MW-1R				X					
1945				FOR-04A		MW-2R				X	X	X	X		
LAB USE ONLY															

**ADDITIONAL INSTRUCTIONS:**

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

Relinquished by: (Signature/Affiliation) <u>[Signature]</u>	Received by: (Signature/Affiliation) <u>[Signature]</u>	Date: <u>8-10-12</u>	Time: <u>7:30</u>
Relinquished by: (Signature/Affiliation) <u>[Signature]</u>	Received by: (Signature/Affiliation) <u>[Signature]</u>	Date: <u>8/13/12</u>	Time: <u>10:52</u>
Relinquished by: (Signature/Affiliation) _____	Received by: (Signature/Affiliation) _____	Date: _____	Time: _____

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



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## ANALYTICAL REPORT

Stratus Environmental  
3330 Cameron Park Drive  
Cameron Park, CA 956828861

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005  
Date Received : 07/17/12

Job: 2120-1401-01/Haber Oil

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B  
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 :	<b>B-11-10</b>				
Lab ID :	STR12071742-01A	TPH-E (DRO)	ND	5,000 µg/Kg	07/17/12
Date Sampled	07/09/12 09:06	TPH-E (ORO)	ND	10,000 µg/Kg	07/17/12
		TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12
Client ID :	<b>B-11-15</b>				
Lab ID :	STR12071742-02A	TPH-E (DRO)	ND	5,000 µg/Kg	07/17/12
Date Sampled	07/09/12 09:11	TPH-E (ORO)	ND	10,000 µg/Kg	07/17/12
		TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12
Client ID :	<b>B-11-20</b>				
Lab ID :	STR12071742-03A	TPH-E (DRO)	ND	5,000 µg/Kg	07/17/12
Date Sampled	07/09/12 09:16	TPH-E (ORO)	ND	10,000 µg/Kg	07/17/12
		TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12
Client ID :	<b>B-11-25</b>				
Lab ID :	STR12071742-04A	TPH-E (DRO)	ND	5,000 µg/Kg	07/17/12
Date Sampled	07/09/12 09:22	TPH-E (ORO)	ND	10,000 µg/Kg	07/17/12
		TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12
Client ID :	<b>B-11-30</b>				
Lab ID :	STR12071742-05A	TPH-E (DRO)	140,000 K	5,000 µg/Kg	07/17/12
Date Sampled	07/09/12 09:26	TPH-E (ORO)	ND	10,000 µg/Kg	07/17/12
		TPH-P (GRO)	8,000,000	400,000 µg/Kg	07/17/12
Client ID :	<b>B-11-35</b>				
Lab ID :	STR12071742-06A	TPH-E (DRO)	ND	5,000 µg/Kg	07/17/12
Date Sampled	07/09/12 09:31	TPH-E (ORO)	ND	10,000 µg/Kg	07/17/12
		TPH-P (GRO)	1,300	1,000 µg/Kg	07/17/12
Client ID :	<b>MW-1R-10</b>				
Lab ID :	STR12071742-07A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12
Date Sampled	07/09/12 13:43	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12
		Benzene	ND	5.0 µg/Kg	07/17/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12
		Toluene	ND	5.0 µg/Kg	07/17/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12



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Client ID :	<b>MW-1R-15</b>				
Lab ID :	STR12071742-08A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/09/12 13:45	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
Client ID :	<b>MW-1R-20</b>				
Lab ID :	STR12071742-09A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/09/12 13:52	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
Client ID :	<b>MW-1R-25</b>				
Lab ID :	STR12071742-10A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/09/12 13:57	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
Client ID :	<b>MW-1R-30</b>				
Lab ID :	STR12071742-11A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/09/12 14:02	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	150	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12



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Client ID : **MW-1R-35**  
Lab ID : STR12071742-12A  
Date Sampled 07/09/12 14:07

TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12	07/20/12
Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12	07/20/12
Methyl tert-butyl ether (MTBE)	790	5.0 µg/Kg	07/17/12	07/20/12
Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12	07/20/12
Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12	07/20/12
1,2-Dichloroethane	ND	20 µg/Kg	07/17/12	07/20/12
Benzene	ND	5.0 µg/Kg	07/17/12	07/20/12
Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12	07/20/12
Toluene	ND	5.0 µg/Kg	07/17/12	07/20/12
1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12	07/20/12
Ethylbenzene	ND	5.0 µg/Kg	07/17/12	07/20/12
m,p-Xylene	ND	5.0 µg/Kg	07/17/12	07/20/12
o-Xylene	ND	5.0 µg/Kg	07/17/12	07/20/12

Client ID : **MW-1R-40**  
Lab ID : STR12071742-13A  
Date Sampled 07/09/12 14:11

TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12	07/20/12
Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12	07/20/12
Methyl tert-butyl ether (MTBE)	580	5.0 µg/Kg	07/17/12	07/20/12
Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12	07/20/12
Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12	07/20/12
1,2-Dichloroethane	ND	20 µg/Kg	07/17/12	07/20/12
Benzene	ND	5.0 µg/Kg	07/17/12	07/20/12
Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12	07/20/12
Toluene	ND	5.0 µg/Kg	07/17/12	07/20/12
1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12	07/20/12
Ethylbenzene	ND	5.0 µg/Kg	07/17/12	07/20/12
m,p-Xylene	ND	5.0 µg/Kg	07/17/12	07/20/12
o-Xylene	ND	5.0 µg/Kg	07/17/12	07/20/12

Client ID : **VE-1-15**  
Lab ID : STR12071742-14A  
Date Sampled 07/09/12 14:51

TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12	07/20/12
Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12	07/20/12
Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12	07/20/12
Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12	07/20/12
Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12	07/20/12
1,2-Dichloroethane	ND	20 µg/Kg	07/17/12	07/20/12
Benzene	ND	5.0 µg/Kg	07/17/12	07/20/12
Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12	07/20/12
Toluene	ND	5.0 µg/Kg	07/17/12	07/20/12
1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12	07/20/12
Ethylbenzene	ND	5.0 µg/Kg	07/17/12	07/20/12
m,p-Xylene	ND	5.0 µg/Kg	07/17/12	07/20/12
o-Xylene	ND	5.0 µg/Kg	07/17/12	07/20/12

Client ID : **VE-1-20**  
Lab ID : STR12071742-15A  
Date Sampled 07/09/12 14:54

TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12	07/20/12
Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12	07/20/12
Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12	07/20/12
Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12	07/20/12
Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12	07/20/12
1,2-Dichloroethane	ND	20 µg/Kg	07/17/12	07/20/12
Benzene	ND	5.0 µg/Kg	07/17/12	07/20/12
Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12	07/20/12
Toluene	ND	5.0 µg/Kg	07/17/12	07/20/12
1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12	07/20/12
Ethylbenzene	ND	5.0 µg/Kg	07/17/12	07/20/12
m,p-Xylene	ND	5.0 µg/Kg	07/17/12	07/20/12
o-Xylene	ND	5.0 µg/Kg	07/17/12	07/20/12



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Client ID :	VE-1-25					
Lab ID :	STR12071742-16A	TPH-P (GRO)	ND		1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/09/12 14:58	Tertiary Butyl Alcohol (TBA)	ND		500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND		5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND		20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND		20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND		20 µg/Kg	07/17/12 07/20/12
		Benzene	ND		5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND		20 µg/Kg	07/17/12 07/20/12
		Toluene	ND		5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND		40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND		5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND		5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND		5.0 µg/Kg	07/17/12 07/20/12
Client ID :	VE-1-30					
Lab ID :	STR12071742-17A	TPH-P (GRO)	ND		1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/09/12 15:02	Tertiary Butyl Alcohol (TBA)	ND		500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	260		5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND		20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND		20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND		20 µg/Kg	07/17/12 07/20/12
		Benzene	ND		5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND		20 µg/Kg	07/17/12 07/20/12
		Toluene	ND		5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND		40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND		5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND		5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND		5.0 µg/Kg	07/17/12 07/20/12
Client ID :	MW-9-11					
Lab ID :	STR12071742-18A	TPH-P (GRO)	ND	O	4,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/11/12 08:59	Tertiary Butyl Alcohol (TBA)	ND	O	2,000 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	O	20 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	O	40 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	O	40 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	O	40 µg/Kg	07/17/12 07/20/12
		Benzene	ND	O	20 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	O	40 µg/Kg	07/17/12 07/20/12
		Toluene	26		20 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	O	160 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	O	20 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	21		20 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	O	20 µg/Kg	07/17/12 07/20/12
Client ID :	MW-9-21					
Lab ID :	STR12071742-19A	TPH-P (GRO)	ND	O	2,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/11/12 09:06	Tertiary Butyl Alcohol (TBA)	ND	O	1,000 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	O	10 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND		20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND		20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND		20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	O	10 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND		20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	O	10 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	O	80 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	O	10 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	O	10 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	O	10 µg/Kg	07/17/12 07/20/12



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Client ID :	MW-9-31				
Lab ID :	STR12071742-20A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/11/12 09:12	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12

Client ID :	MW-9-36				
Lab ID :	STR12071742-21A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/11/12 09:22	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12

Client ID :	MW-9-41				
Lab ID :	STR12071742-22A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/11/12 09:28	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12

Client ID :	MW-9-45				
Lab ID :	STR12071742-23A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/11/12 09:31	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12



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Client ID :	<b>MW-10-11</b>				
Lab ID :	STR12071742-24A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/11/12 12:36	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylenec	ND	5.0 µg/Kg	07/17/12 07/20/12
Client ID :	<b>MW-10-21</b>				
Lab ID :	STR12071742-25A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/11/12 12:44	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
Client ID :	<b>MW-10-26</b>				
Lab ID :	STR12071742-26A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/11/12 12:51	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
Client ID :	<b>MW-10-36</b>				
Lab ID :	STR12071742-27A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/11/12 13:00	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12



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Client ID :	<b>MW-10-40</b>				
Lab ID :	STR12071742-28A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/11/12 13:03	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
Client ID :	<b>MW-2R-10</b>				
Lab ID :	STR12071742-29A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/12/12 08:37	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
Client ID :	<b>MW-2R-15</b>				
Lab ID :	STR12071742-30A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/12/12 08:43	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
Client ID :	<b>MW-2R-20</b>				
Lab ID :	STR12071742-31A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/12/12 08:46	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12





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Client ID :	<b>MW-2R-25</b>				
Lab ID :	STR12071742-32A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/12/12 08:53	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
Client ID :	<b>MW-2R-30</b>				
Lab ID :	STR12071742-33A	TPH-P (GRO)	2,300	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/12/12 08:59	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	5.9	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
Client ID :	<b>MW-2R-35</b>				
Lab ID :	STR12071742-34A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/12/12 09:05	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
Client ID :	<b>MW-2R-40</b>				
Lab ID :	STR12071742-35A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/12/12 09:12	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	32	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	22	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	23	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	23	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12



# Alpha Analytical, Inc.

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

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

Client ID :	VE-2-10				
Lab ID :	STR12071742-36A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/12/12 11:56	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
Client ID :	VE-2-15				
Lab ID :	STR12071742-37A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/12/12 12:00	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
Client ID :	VE-2-20				
Lab ID :	STR12071742-38A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/12/12 12:04	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
Client ID :	VE-2-25				
Lab ID :	STR12071742-39A	TPH-P (GRO)	ND	1,000 µg/Kg	07/17/12 07/20/12
Date Sampled	07/12/12 12:11	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12 07/20/12
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12 07/20/12
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12 07/20/12
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12 07/20/12
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12 07/20/12
		Benzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12 07/20/12
		Toluene	ND	5.0 µg/Kg	07/17/12 07/20/12
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12 07/20/12
		Ethylbenzene	ND	5.0 µg/Kg	07/17/12 07/20/12
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12
		o-Xylene	ND	5.0 µg/Kg	07/17/12 07/20/12



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Client ID :	VE-2-30						
Lab ID :	STR12071742-40A	TPH-P (GRO)	8,200	1,000 µg/Kg	07/17/12	07/20/12	
Date Sampled	07/12/12 12:15	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	07/17/12	07/20/12	
		Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	07/17/12	07/20/12	
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	07/17/12	07/20/12	
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	07/17/12	07/20/12	
		1,2-Dichloroethane	ND	20 µg/Kg	07/17/12	07/20/12	
		Benzene	15	5.0 µg/Kg	07/17/12	07/20/12	
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	07/17/12	07/20/12	
		Toluene	ND	5.0 µg/Kg	07/17/12	07/20/12	
		1,2-Dibromoethane (EDB)	ND	40 µg/Kg	07/17/12	07/20/12	
		Ethylbenzene	7.1	5.0 µg/Kg	07/17/12	07/20/12	
		m,p-Xylene	ND	5.0 µg/Kg	07/17/12	07/20/12	
		o-Xylene	ND	5.0 µg/Kg	07/17/12	07/20/12	

Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

K = DRO concentration may include contributions from lighter-end hydrocarbons that elute in the DRO range.

O = Reporting Limits were increased due to sample foaming.

Oil Range Organics (ORO) C22-C40+

Sample results were calculated on a wet weight basis.

ND = Not Detected

Reported in micrograms per Kilogram, 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) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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

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

*ps*  
7/24/12

**Report Date**



# Alpha Analytical, Inc.

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

## ANALYTICAL REPORT

Stratus Environmental  
3330 Cameron Park Drive  
Cameron Park, CA 956828861  
Job: 2120-1401-01/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12071742-01A  
Client I.D. Number: B-11-10

Sampled: 07/09/12 09:06  
Received: 07/17/12  
Extracted: 07/17/12 13:57  
Analyzed: 07/20/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/Kg	36 1,2-Dibromoethane (EDB)	ND	40 µg/Kg
2 Chloromethane	ND	40 µg/Kg	37 Tetrachloroethene	ND	20 µg/Kg
3 Vinyl chloride	ND	20 µg/Kg	38 1,1,1,2-Tetrachloroethane	ND	20 µg/Kg
4 Chloroethane	ND	20 µg/Kg	39 Chlorobenzene	ND	20 µg/Kg
5 Bromomethane	ND	40 µg/Kg	40 Ethylbenzene	ND	5.0 µg/Kg
6 Trichlorofluoromethane	ND	20 µg/Kg	41 m,p-Xylene	ND	5.0 µg/Kg
7 Acrolein	ND	2,000 µg/Kg	42 Bromoform	ND	20 µg/Kg
8 1,1-Dichloroethene	ND	20 µg/Kg	43 Styrene	ND	20 µg/Kg
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	44 o-Xylene	ND	5.0 µg/Kg
10 Dichloromethane	ND	40 µg/Kg	45 1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
11 trans-1,2-Dichloroethene	ND	20 µg/Kg	46 1,2,3-Trichloropropane	ND	40 µg/Kg
12 Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	47 Isopropylbenzene	ND	20 µg/Kg
13 1,1-Dichloroethane	ND	20 µg/Kg	48 Bromobenzene	ND	20 µg/Kg
14 Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	49 n-Propylbenzene	ND	20 µg/Kg
15 cis-1,2-Dichloroethene	ND	20 µg/Kg	50 4-Chlorotoluene	ND	20 µg/Kg
16 Bromochloromethane	ND	20 µg/Kg	51 2-Chlorotoluene	ND	20 µg/Kg
17 Chloroform	ND	20 µg/Kg	52 1,3,5-Trimethylbenzene	ND	20 µg/Kg
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	53 tert-Butylbenzene	ND	20 µg/Kg
19 2,2-Dichloropropane	ND	20 µg/Kg	54 1,2,4-Trimethylbenzene	ND	20 µg/Kg
20 1,2-Dichloroethane	ND	20 µg/Kg	55 sec-Butylbenzene	ND	20 µg/Kg
21 1,1,1-Trichloroethane	ND	20 µg/Kg	56 1,3-Dichlorobenzene	ND	20 µg/Kg
22 1,1-Dichloropropene	ND	20 µg/Kg	57 1,4-Dichlorobenzene	ND	20 µg/Kg
23 Carbon tetrachloride	ND	20 µg/Kg	58 4-Isopropyltoluene	ND	20 µg/Kg
24 Benzene	ND	5.0 µg/Kg	59 1,2-Dichlorobenzene	ND	20 µg/Kg
25 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	60 n-Butylbenzene	ND	20 µg/Kg
26 Dibromomethane	ND	20 µg/Kg	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg
27 1,2-Dichloropropane	ND	20 µg/Kg	62 1,2,4-Trichlorobenzene	ND	40 µg/Kg
28 Trichloroethene	ND	20 µg/Kg	63 Naphthalene	ND	40 µg/Kg
29 Bromodichloromethane	ND	20 µg/Kg	64 Hexachlorobutadiene	ND	40 µg/Kg
30 cis-1,3-Dichloropropene	ND	20 µg/Kg	65 1,2,3-Trichlorobenzene	ND	40 µg/Kg
31 trans-1,3-Dichloropropene	ND	20 µg/Kg			
32 1,1,2-Trichloroethane	ND	20 µg/Kg			
33 Toluene	ND	5.0 µg/Kg			
34 1,3-Dichloropropane	ND	20 µg/Kg			
35 Dibromochloromethane	ND	20 µg/Kg			

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

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

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*RF*

7/24/12

Report Date

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## ANALYTICAL REPORT

Stratus Environmental  
3330 Cameron Park Drive  
Cameron Park, CA 956828861  
Job: 2120-1401-01/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12071742-02A  
Client I.D. Number: B-11-15

Sampled: 07/09/12 09:11  
Received: 07/17/12  
Extracted: 07/17/12 13:57  
Analyzed: 07/20/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/Kg	36 1,2-Dibromoethane (EDB)	ND	40 µg/Kg
2 Chloromethane	ND	40 µg/Kg	37 Tetrachloroethene	ND	20 µg/Kg
3 Vinyl chloride	ND	20 µg/Kg	38 1,1,1,2-Tetrachloroethane	ND	20 µg/Kg
4 Chloroethane	ND	20 µg/Kg	39 Chlorobenzene	ND	20 µg/Kg
5 Bromomethane	ND	40 µg/Kg	40 Ethylbenzene	ND	5.0 µg/Kg
6 Trichlorofluoromethane	ND	20 µg/Kg	41 m,p-Xylene	ND	5.0 µg/Kg
7 Acrolein	ND	2,000 µg/Kg	42 Bromoform	ND	20 µg/Kg
8 1,1-Dichloroethene	ND	20 µg/Kg	43 Styrene	ND	20 µg/Kg
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	44 o-Xylene	ND	5.0 µg/Kg
10 Dichloromethane	ND	40 µg/Kg	45 1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
11 trans-1,2-Dichloroethene	ND	20 µg/Kg	46 1,2,3-Trichloropropane	ND	40 µg/Kg
12 Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	47 Isopropylbenzene	ND	20 µg/Kg
13 1,1-Dichloroethane	ND	20 µg/Kg	48 Bromobenzene	ND	20 µg/Kg
14 Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	49 n-Propylbenzene	ND	20 µg/Kg
15 cis-1,2-Dichloroethene	ND	20 µg/Kg	50 4-Chlorotoluene	ND	20 µg/Kg
16 Bromochloromethane	ND	20 µg/Kg	51 2-Chlorotoluene	ND	20 µg/Kg
17 Chloroform	ND	20 µg/Kg	52 1,3,5-Trimethylbenzene	ND	20 µg/Kg
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	53 tert-Butylbenzene	ND	20 µg/Kg
19 2,2-Dichloropropane	ND	20 µg/Kg	54 1,2,4-Trimethylbenzene	ND	20 µg/Kg
20 1,2-Dichloroethane	ND	20 µg/Kg	55 sec-Butylbenzene	ND	20 µg/Kg
21 1,1,1-Trichloroethane	ND	20 µg/Kg	56 1,3-Dichlorobenzene	ND	20 µg/Kg
22 1,1-Dichloropropene	ND	20 µg/Kg	57 1,4-Dichlorobenzene	ND	20 µg/Kg
23 Carbon tetrachloride	ND	20 µg/Kg	58 4-Isopropyltoluene	ND	20 µg/Kg
24 Benzene	ND	5.0 µg/Kg	59 1,2-Dichlorobenzene	ND	20 µg/Kg
25 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	60 n-Butylbenzene	ND	20 µg/Kg
26 Dibromomethane	ND	20 µg/Kg	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg
27 1,2-Dichloropropane	ND	20 µg/Kg	62 1,2,4-Trichlorobenzene	ND	40 µg/Kg
28 Trichloroethene	ND	20 µg/Kg	63 Naphthalene	ND	40 µg/Kg
29 Bromodichloromethane	ND	20 µg/Kg	64 Hexachlorobutadiene	ND	40 µg/Kg
30 cis-1,3-Dichloropropene	ND	20 µg/Kg	65 1,2,3-Trichlorobenzene	ND	40 µg/Kg
31 trans-1,3-Dichloropropene	ND	20 µg/Kg			
32 1,1,2-Trichloroethane	ND	20 µg/Kg			
33 Toluene	ND	5.0 µg/Kg			
34 1,3-Dichloropropane	ND	20 µg/Kg			
35 Dibromochloromethane	ND	20 µg/Kg			

Sample results were calculated on a wet weight basis.  
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  
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*PS*  
7/24/12

Report Date

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# 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  
Job: 2120-1401-01/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12071742-04A  
Client I.D. Number: B-11-25

Sampled: 07/09/12 09:22  
Received: 07/17/12  
Extracted: 07/17/12 13:57  
Analyzed: 07/20/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/Kg	36 1,2-Dibromoethane (EDB)	ND	40 µg/Kg
2 Chloromethane	ND	40 µg/Kg	37 Tetrachloroethene	ND	20 µg/Kg
3 Vinyl chloride	ND	20 µg/Kg	38 1,1,1,2-Tetrachloroethane	ND	20 µg/Kg
4 Chloroethane	ND	20 µg/Kg	39 Chlorobenzene	ND	20 µg/Kg
5 Bromomethane	ND	40 µg/Kg	40 Ethylbenzene	ND	5.0 µg/Kg
6 Trichlorofluoromethane	ND	20 µg/Kg	41 m,p-Xylene	ND	5.0 µg/Kg
7 Acrolein	ND	2,000 µg/Kg	42 Bromoform	ND	20 µg/Kg
8 1,1-Dichloroethene	ND	20 µg/Kg	43 Styrene	ND	20 µg/Kg
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	44 o-Xylene	ND	5.0 µg/Kg
10 Dichloromethane	ND	40 µg/Kg	45 1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
11 trans-1,2-Dichloroethene	ND	20 µg/Kg	46 1,2,3-Trichloropropane	ND	40 µg/Kg
12 Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	47 Isopropylbenzene	ND	20 µg/Kg
13 1,1-Dichloroethane	ND	20 µg/Kg	48 Bromobenzene	ND	20 µg/Kg
14 Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	49 n-Propylbenzene	ND	20 µg/Kg
15 cis-1,2-Dichloroethene	ND	20 µg/Kg	50 4-Chlorotoluene	ND	20 µg/Kg
16 Bromochloromethane	ND	20 µg/Kg	51 2-Chlorotoluene	ND	20 µg/Kg
17 Chloroform	ND	20 µg/Kg	52 1,3,5-Trimethylbenzene	ND	20 µg/Kg
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	53 tert-Butylbenzene	ND	20 µg/Kg
19 2,2-Dichloropropane	ND	20 µg/Kg	54 1,2,4-Trimethylbenzene	ND	20 µg/Kg
20 1,2-Dichloroethane	ND	20 µg/Kg	55 sec-Butylbenzene	ND	20 µg/Kg
21 1,1,1-Trichloroethane	ND	20 µg/Kg	56 1,3-Dichlorobenzene	ND	20 µg/Kg
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24 Benzene	ND	5.0 µg/Kg	59 1,2-Dichlorobenzene	ND	20 µg/Kg
25 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	60 n-Butylbenzene	ND	20 µg/Kg
26 Dibromomethane	ND	20 µg/Kg	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg
27 1,2-Dichloropropane	ND	20 µg/Kg	62 1,2,4-Trichlorobenzene	ND	40 µg/Kg
28 Trichloroethene	ND	20 µg/Kg	63 Naphthalene	ND	40 µg/Kg
29 Bromodichloromethane	ND	20 µg/Kg	64 Hexachlorobutadiene	ND	40 µg/Kg
30 cis-1,3-Dichloropropene	ND	20 µg/Kg	65 1,2,3-Trichlorobenzene	ND	40 µg/Kg
31 trans-1,3-Dichloropropene	ND	20 µg/Kg			
32 1,1,2-Trichloroethane	ND	20 µg/Kg			
33 Toluene	ND	5.0 µg/Kg			
34 1,3-Dichloropropane	ND	20 µg/Kg			
35 Dibromochloromethane	ND	20 µg/Kg			

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

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*PS*

7/24/12

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## ANALYTICAL REPORT

Stratus Environmental  
3330 Cameron Park Drive  
Cameron Park, CA 956828861  
Job: 2120-1401-01/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12071742-03A  
Client I.D. Number: B-11-20

Sampled: 07/09/12 09:16  
Received: 07/17/12  
Extracted: 07/17/12 13:57  
Analyzed: 07/20/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/Kg	36 1,2-Dibromoethane (EDB)	ND	40 µg/Kg
2 Chloromethane	ND	40 µg/Kg	37 Tetrachloroethene	ND	20 µg/Kg
3 Vinyl chloride	ND	20 µg/Kg	38 1,1,1,2-Tetrachloroethane	ND	20 µg/Kg
4 Chloroethane	ND	20 µg/Kg	39 Chlorobenzene	ND	20 µg/Kg
5 Bromomethane	ND	40 µg/Kg	40 Ethylbenzene	ND	5.0 µg/Kg
6 Trichlorofluoromethane	ND	20 µg/Kg	41 m,p-Xylene	ND	5.0 µg/Kg
7 Acrolein	ND	2,000 µg/Kg	42 Bromoform	ND	20 µg/Kg
8 1,1-Dichloroethene	ND	20 µg/Kg	43 Styrene	ND	20 µg/Kg
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	44 o-Xylene	ND	5.0 µg/Kg
10 Dichloromethane	ND	40 µg/Kg	45 1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
11 trans-1,2-Dichloroethene	ND	20 µg/Kg	46 1,2,3-Trichloropropane	ND	40 µg/Kg
12 Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	47 Isopropylbenzene	ND	20 µg/Kg
13 1,1-Dichloroethane	ND	20 µg/Kg	48 Bromobenzene	ND	20 µg/Kg
14 Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	49 n-Propylbenzene	ND	20 µg/Kg
15 cis-1,2-Dichloroethene	ND	20 µg/Kg	50 4-Chlorotoluene	ND	20 µg/Kg
16 Bromochloromethane	ND	20 µg/Kg	51 2-Chlorotoluene	ND	20 µg/Kg
17 Chloroform	ND	20 µg/Kg	52 1,3,5-Trimethylbenzene	ND	20 µg/Kg
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	53 tert-Butylbenzene	ND	20 µg/Kg
19 2,2-Dichloropropane	ND	20 µg/Kg	54 1,2,4-Trimethylbenzene	ND	20 µg/Kg
20 1,2-Dichloroethane	ND	20 µg/Kg	55 sec-Butylbenzene	ND	20 µg/Kg
21 1,1,1-Trichloroethane	ND	20 µg/Kg	56 1,3-Dichlorobenzene	ND	20 µg/Kg
22 1,1-Dichloropropene	ND	20 µg/Kg	57 1,4-Dichlorobenzene	ND	20 µg/Kg
23 Carbon tetrachloride	ND	20 µg/Kg	58 4-Isopropyltoluene	ND	20 µg/Kg
24 Benzene	ND	5.0 µg/Kg	59 1,2-Dichlorobenzene	ND	20 µg/Kg
25 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	60 n-Butylbenzene	ND	20 µg/Kg
26 Dibromomethane	ND	20 µg/Kg	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg
27 1,2-Dichloropropane	ND	20 µg/Kg	62 1,2,4-Trichlorobenzene	ND	40 µg/Kg
28 Trichloroethene	ND	20 µg/Kg	63 Naphthalene	ND	40 µg/Kg
29 Bromodichloromethane	ND	20 µg/Kg	64 Hexachlorobutadiene	ND	40 µg/Kg
30 cis-1,3-Dichloropropene	ND	20 µg/Kg	65 1,2,3-Trichlorobenzene	ND	40 µg/Kg
31 trans-1,3-Dichloropropene	ND	20 µg/Kg			
32 1,1,2-Trichloroethane	ND	20 µg/Kg			
33 Toluene	ND	5.0 µg/Kg			
34 1,3-Dichloropropane	ND	20 µg/Kg			
35 Dibromochloromethane	ND	20 µg/Kg			

Sample results were calculated on a wet weight basis.  
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) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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*RS*  
7/24/12

Report Date

Page 1 of 1



# 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  
Job: 2120-1401-01/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12071742-05A  
Client I.D. Number: B-11-30

Sampled: 07/09/12 09:26  
Received: 07/17/12  
Extracted: 07/17/12 13:57  
Analyzed: 07/20/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	4,000 µg/Kg	36 1,2-Dibromoethane (EDB)	ND	16,000 µg/Kg
2 Chloromethane	ND	16,000 µg/Kg	37 Tetrachloroethene	ND	4,000 µg/Kg
3 Vinyl chloride	ND	4,000 µg/Kg	38 1,1,1,2-Tetrachloroethane	ND	4,000 µg/Kg
4 Chloroethane	ND	4,000 µg/Kg	39 Chlorobenzene	ND	4,000 µg/Kg
5 Bromomethane	ND	16,000 µg/Kg	40 Ethylbenzene	44,000	2,000 µg/Kg
6 Trichlorofluoromethane	ND	4,000 µg/Kg	41 m,p-Xylene	250,000	2,000 µg/Kg
7 Acrolein	ND	800,000 µg/Kg	42 Bromoform	ND	4,000 µg/Kg
8 1,1-Dichloroethene	ND	4,000 µg/Kg	43 Styrene	ND	4,000 µg/Kg
9 Tertiary Butyl Alcohol (TBA)	ND	200,000 µg/Kg	44 o-Xylene	100,000	2,000 µg/Kg
10 Dichloromethane	ND	16,000 µg/Kg	45 1,1,2,2-Tetrachloroethane	ND	4,000 µg/Kg
11 trans-1,2-Dichloroethene	ND	4,000 µg/Kg	46 1,2,3-Trichloropropane	ND	16,000 µg/Kg
12 Methyl tert-butyl ether (MTBE)	ND	2,000 µg/Kg	47 Isopropylbenzene	12,000	4,000 µg/Kg
13 1,1-Dichloroethane	ND	4,000 µg/Kg	48 Bromobenzene	ND	4,000 µg/Kg
14 Di-isopropyl Ether (DIPE)	ND	4,000 µg/Kg	49 n-Propylbenzene	61,000	4,000 µg/Kg
15 cis-1,2-Dichloroethene	ND	4,000 µg/Kg	50 4-Chlorotoluene	ND	4,000 µg/Kg
16 Bromochloromethane	ND	4,000 µg/Kg	51 2-Chlorotoluene	ND	4,000 µg/Kg
17 Chloroform	ND	4,000 µg/Kg	52 1,3,5-Trimethylbenzene	170,000	4,000 µg/Kg
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	4,000 µg/Kg	53 tert-Butylbenzene	ND	4,000 µg/Kg
19 2,2-Dichloropropane	ND	4,000 µg/Kg	54 1,2,4-Trimethylbenzene	440,000	4,000 µg/Kg
20 1,2-Dichloroethane	ND	4,000 µg/Kg	55 sec-Butylbenzene	20,000	4,000 µg/Kg
21 1,1,1-Trichloroethane	ND	4,000 µg/Kg	56 1,3-Dichlorobenzene	ND	4,000 µg/Kg
22 1,1-Dichloropropene	ND	4,000 µg/Kg	57 1,4-Dichlorobenzene	ND	4,000 µg/Kg
23 Carbon tetrachloride	ND	4,000 µg/Kg	58 4-Isopropyltoluene	29,000	4,000 µg/Kg
24 Benzene	ND	2,000 µg/Kg	59 1,2-Dichlorobenzene	ND	4,000 µg/Kg
25 Tertiary Amyl Methyl Ether (TAME)	ND	4,000 µg/Kg	60 n-Butylbenzene	36,000	4,000 µg/Kg
26 Dibromomethane	ND	4,000 µg/Kg	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	24,000 µg/Kg
27 1,2-Dichloropropane	ND	4,000 µg/Kg	62 1,2,4-Trichlorobenzene	ND	16,000 µg/Kg
28 Trichloroethene	ND	4,000 µg/Kg	63 Naphthalene	100,000	16,000 µg/Kg
29 Bromodichloromethane	ND	4,000 µg/Kg	64 Hexachlorobutadiene	ND	16,000 µg/Kg
30 cis-1,3-Dichloropropene	ND	4,000 µg/Kg	65 1,2,3-Trichlorobenzene	ND	16,000 µg/Kg
31 trans-1,3-Dichloropropene	ND	4,000 µg/Kg			
32 1,1,2-Trichloroethane	ND	4,000 µg/Kg			
33 Toluene	ND	2,000 µg/Kg			
34 1,3-Dichloropropane	ND	4,000 µg/Kg			
35 Dibromochloromethane	ND	4,000 µg/Kg			

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

Sample results were calculated on a wet weight basis.

ND = Not Detected

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

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

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7/24/12

Report Date

Page 1 of 1





# 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  
Job: 2120-1401-01/Haber Oil

Attn: Steve Carter  
Phone: (530) 676-6008  
Fax: (530) 676-6005

Alpha Analytical Number: STR12071742-06A  
Client I.D. Number: B-11-35

Sampled: 07/09/12 09:31  
Received: 07/17/12  
Extracted: 07/17/12 13:57  
Analyzed: 07/20/12

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/Kg	36 1,2-Dibromoethane (EDB)	ND	40 µg/Kg
2 Chloromethane	ND	40 µg/Kg	37 Tetrachloroethene	ND	20 µg/Kg
3 Vinyl chloride	ND	20 µg/Kg	38 1,1,1,2-Tetrachloroethane	ND	20 µg/Kg
4 Chloroethane	ND	20 µg/Kg	39 Chlorobenzene	ND	20 µg/Kg
5 Bromomethane	ND	40 µg/Kg	40 Ethylbenzene	15	5.0 µg/Kg
6 Trichlorofluoromethane	ND	20 µg/Kg	41 m,p-Xylene	69	5.0 µg/Kg
7 Acrolein	ND	2,000 µg/Kg	42 Bromoform	ND	20 µg/Kg
8 1,1-Dichloroethene	ND	20 µg/Kg	43 Styrene	ND	20 µg/Kg
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	44 o-Xylene	34	5.0 µg/Kg
10 Dichloromethane	ND	40 µg/Kg	45 1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
11 trans-1,2-Dichloroethene	ND	20 µg/Kg	46 1,2,3-Trichloropropane	ND	40 µg/Kg
12 Methyl tert-butyl ether (MTBE)	12	5.0 µg/Kg	47 Isopropylbenzene	ND	20 µg/Kg
13 1,1-Dichloroethane	ND	20 µg/Kg	48 Bromobenzene	ND	20 µg/Kg
14 Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	49 n-Propylbenzene	ND	20 µg/Kg
15 cis-1,2-Dichloroethene	ND	20 µg/Kg	50 4-Chlorotoluene	ND	20 µg/Kg
16 Bromochloromethane	ND	20 µg/Kg	51 2-Chlorotoluene	ND	20 µg/Kg
17 Chloroform	ND	20 µg/Kg	52 1,3,5-Trimethylbenzene	26	20 µg/Kg
18 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	53 tert-Butylbenzene	ND	20 µg/Kg
19 2,2-Dichloropropane	ND	20 µg/Kg	54 1,2,4-Trimethylbenzene	99	20 µg/Kg
20 1,2-Dichloroethane	ND	20 µg/Kg	55 sec-Butylbenzene	ND	20 µg/Kg
21 1,1,1-Trichloroethane	ND	20 µg/Kg	56 1,3-Dichlorobenzene	ND	20 µg/Kg
22 1,1-Dichloropropene	ND	20 µg/Kg	57 1,4-Dichlorobenzene	ND	20 µg/Kg
23 Carbon tetrachloride	ND	20 µg/Kg	58 4-Isopropyltoluene	ND	20 µg/Kg
24 Benzene	ND	5.0 µg/Kg	59 1,2-Dichlorobenzene	ND	20 µg/Kg
25 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	60 n-Butylbenzene	ND	20 µg/Kg
26 Dibromomethane	ND	20 µg/Kg	61 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/Kg
27 1,2-Dichloropropane	ND	20 µg/Kg	62 1,2,4-Trichlorobenzene	ND	40 µg/Kg
28 Trichloroethene	ND	20 µg/Kg	63 Naphthalene	ND	40 µg/Kg
29 Bromodichloromethane	ND	20 µg/Kg	64 Hexachlorobutadiene	ND	40 µg/Kg
30 cis-1,3-Dichloropropene	ND	20 µg/Kg	65 1,2,3-Trichlorobenzene	ND	40 µg/Kg
31 trans-1,3-Dichloropropene	ND	20 µg/Kg			
32 1,1,2-Trichloroethane	ND	20 µg/Kg			
33 Toluene	ND	5.0 µg/Kg			
34 1,3-Dichloropropane	ND	20 µg/Kg			
35 Dibromochloromethane	ND	20 µg/Kg			

Sample results were calculated on a wet weight basis.  
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) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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*RF*  
7/24/12

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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

Date:  
24-Jul-12

## QC Summary Report

Work Order:  
12071742

### Method Blank

File ID: 2A07161263.D

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

Batch ID: 29082

Analysis Date: 07/18/2012 10:53

Sample ID: MBLK-29082

Units: µg/Kg

Run ID: FID\_2\_120717A

Prep Date: 07/17/2012 11:17

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	5000								
TPH-E (ORO)	ND	10000								
Surr: Nonane	6700		6000		112	62	161			

### Laboratory Control Spike

File ID: 2A07161264.D

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

Batch ID: 29082

Analysis Date: 07/18/2012 11:18

Sample ID: LCS-29082

Units: µg/Kg

Run ID: FID\_2\_120717A

Prep Date: 07/17/2012 11:17

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	90700	5000	100000		91	70	130			
Surr: Nonane	7500		6000		125	62	161			

### Sample Matrix Spike

File ID: 2A07161272.D

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

Batch ID: 29082

Analysis Date: 07/18/2012 14:39

Sample ID: 12071644-01AMS

Units: µg/Kg

Run ID: FID\_2\_120717A

Prep Date: 07/17/2012 11:17

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	119000	5000	100000	54650	64	50	149			
Surr: Nonane	0		6000		0	62	161			S50

### Sample Matrix Spike Duplicate

File ID: 2A07161273.D

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

Batch ID: 29082

Analysis Date: 07/18/2012 15:05

Sample ID: 12071644-01AMSD

Units: µg/Kg

Run ID: FID\_2\_120717A

Prep Date: 07/17/2012 11:17

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	145000	5000	100000	54650	91	50	149	118700	20.0(46)	
Surr: Nonane	0		6000		0	62	161			S50

### 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.

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample recovery was acceptable.

Reported in micrograms per Kilogram, per client request.



# Alpha Analytical, Inc.

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

Date:  
24-Jul-12

## QC Summary Report

Work Order:  
12071742

### Method Blank

File ID: 12071935.D

Type: MBLK Test Code: EPA Method SW8015B/C

Batch ID: MS08S9086B

Analysis Date: 07/19/2012 23:42

Sample ID: MBLK MS08S9086B

Units: µg/Kg

Run ID: MSD\_08\_120719B

Prep Date: 07/19/2012 23:42

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	1000								
Surr: 1,2-Dichloroethane-d4	151		200		76	70	130			
Surr: Toluene-d8	229		200		114	70	130			
Surr: 4-Bromofluorobenzene	180		200		90	70	130			

### Laboratory Control Spike

File ID: 12071939.D

Type: LCS Test Code: EPA Method SW8015B/C

Batch ID: MS08S9086B

Analysis Date: 07/20/2012 01:14

Sample ID: LCS MS08S9086B

Units: µg/Kg

Run ID: MSD\_08\_120719B

Prep Date: 07/20/2012 01:14

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	13600	2000	16000		85	63	148			
Surr: 1,2-Dichloroethane-d4	304		400		76	70	130			
Surr: Toluene-d8	405		400		101	70	130			
Surr: 4-Bromofluorobenzene	395		400		99	70	130			

### Sample Matrix Spike

File ID: 12071940.D

Type: MS Test Code: EPA Method SW8015B/C

Batch ID: MS08S9086B

Analysis Date: 07/20/2012 01:37

Sample ID: 12071742-21AGS

Units: µg/Kg

Run ID: MSD\_08\_120719B

Prep Date: 07/20/2012 01:37

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	15600	2000	16000		0	98	35	166		
Surr: 1,2-Dichloroethane-d4	304		400		76	70	130			
Surr: Toluene-d8	400		400		100	70	130			
Surr: 4-Bromofluorobenzene	408		400		102	70	130			

### Sample Matrix Spike Duplicate

File ID: 12071941.D

Type: MSD Test Code: EPA Method SW8015B/C

Batch ID: MS08S9086B

Analysis Date: 07/20/2012 02:00

Sample ID: 12071742-21AGSD

Units: µg/Kg

Run ID: MSD\_08\_120719B

Prep Date: 07/20/2012 02:00

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	14000	2000	16000		0	87	35	166	15640	11.2(33)
Surr: 1,2-Dichloroethane-d4	313		400		78	70	130			
Surr: Toluene-d8	401		400		100	70	130			
Surr: 4-Bromofluorobenzene	399		400		99.9	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 Kilogram, per client request.



# Alpha Analytical, Inc.

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

Date:  
24-Jul-12

## QC Summary Report

Work Order:  
12071742

### Method Blank

File ID: 12072006.D

Type: MBLK Test Code: EPA Method SW8015B/C

Batch ID: MS15S9085B

Analysis Date: 07/20/2012 11:27

Sample ID: MBLK MS15S9085B

Units: µg/Kg

Run ID: MSD\_15\_120720A

Prep Date: 07/20/2012 11:27

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	1000								
Surr: 1,2-Dichloroethane-d4	193		200		97	70	130			
Surr: Toluene-d8	196		200		98	70	130			
Surr: 4-Bromofluorobenzene	219		200		110	70	130			

### Laboratory Control Spike

File ID: 12072325.D

Type: LCS Test Code: EPA Method SW8015B/C

Batch ID: MS15S9085B

Analysis Date: 07/23/2012 21:23

Sample ID: LCS MS15S9085B

Units: µg/Kg

Run ID: MSD\_15\_120720A

Prep Date: 07/23/2012 21:23

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	19000	2000	16000		119	63	148			
Surr: 1,2-Dichloroethane-d4	412		400		103	70	130			
Surr: Toluene-d8	372		400		93	70	130			
Surr: 4-Bromofluorobenzene	414		400		104	70	130			

### Sample Matrix Spike

File ID: 12072014.D

Type: MS Test Code: EPA Method SW8015B/C

Batch ID: MS15S9085B

Analysis Date: 07/20/2012 14:21

Sample ID: 12071742-16AGS

Units: µg/Kg

Run ID: MSD\_15\_120720A

Prep Date: 07/20/2012 14:21

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	18800	2000	16000		0	117	35	166		
Surr: 1,2-Dichloroethane-d4	388		400		97	70	130			
Surr: Toluene-d8	383		400		96	70	130			
Surr: 4-Bromofluorobenzene	396		400		99	70	130			

### Sample Matrix Spike Duplicate

File ID: 12072033.D

Type: MSD Test Code: EPA Method SW8015B/C

Batch ID: MS15S9085B

Analysis Date: 07/20/2012 21:13

Sample ID: 12071742-16AGSD

Units: µg/Kg

Run ID: MSD\_15\_120720A

Prep Date: 07/20/2012 21:13

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	16300	2000	16000		0	102	35	166	18800	14.2(33)
Surr: 1,2-Dichloroethane-d4	401		400		100	70	130			
Surr: Toluene-d8	378		400		94	70	130			
Surr: 4-Bromofluorobenzene	405		400		101	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 Kilogram, per client request.





# Alpha Analytical, Inc.

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

Date:  
24-Jul-12

## QC Summary Report

Work Order:  
12071742

Surr: 1,2-Dichloroethane-d4	151	200	76	70	130
Surr: Toluene-d8	229	200	114	70	130
Surr: 4-Bromofluorobenzene	180	200	90	70	130

### Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: 12071936.D

Batch ID: MS08S9086A

Analysis Date: 07/20/2012 00:05

Sample ID: LCS MS08S9086A

Units: µg/Kg

Run ID: MSD\_08\_120719B

Prep Date: 07/20/2012 00:05

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	96.4	20	400		24	10	132			
Methyl tert-butyl ether (MTBE)	443	10	400		111	61	147			
Benzene	400	10	400		99.9	70	138			
Trichloroethene	448	20	400		112	70	150			
Toluene	397	10	400		99	70	137			
Chlorobenzene	417	20	400		104	10	137			
Ethylbenzene	438	10	400		109	70	138			
m,p-Xylene	468	10	400		117	70	145			
o-Xylene	481	10	400		120	70	145			
Surr: 1,2-Dichloroethane-d4	353		400		88	70	130			
Surr: Toluene-d8	376		400		94	70	130			
Surr: 4-Bromofluorobenzene	430		400		107	70	130			

### Sample Matrix Spike

Type: MS

Test Code: EPA Method SW8260B

File ID: 12071937.D

Batch ID: MS08S9086A

Analysis Date: 07/20/2012 00:28

Sample ID: 12071742-21AMS

Units: µg/Kg

Run ID: MSD\_08\_120719B

Prep Date: 07/20/2012 00:28

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	270	20	400		0	68	10	132		
Methyl tert-butyl ether (MTBE)	395	10	400		0	99	42	157		
Benzene	363	10	400		0	91	53	150		
Trichloroethene	405	20	400		0	101	48	165		
Toluene	358	10	400		0	90	51	149		
Chlorobenzene	379	20	400		0	95	51	147		
Ethylbenzene	400	10	400		0	100	54	150		
m,p-Xylene	425	10	400		0	106	50	161		
o-Xylene	431	10	400		0	108	35	177		
Surr: 1,2-Dichloroethane-d4	336		400		84	70	130			
Surr: Toluene-d8	373		400		93	70	130			
Surr: 4-Bromofluorobenzene	430		400		107	70	130			

### Sample Matrix Spike Duplicate

Type: MSD

Test Code: EPA Method SW8260B

File ID: 12071938.D

Batch ID: MS08S9086A

Analysis Date: 07/20/2012 00:51

Sample ID: 12071742-21AMSD

Units: µg/Kg

Run ID: MSD\_08\_120719B

Prep Date: 07/20/2012 00:51

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	218	20	400		0	55	10	132	270.4	21.2(40)
Methyl tert-butyl ether (MTBE)	449	10	400		0	112	42	157	394.7	12.8(32)
Benzene	415	10	400		0	104	53	150	363.3	13.3(26)
Trichloroethene	455	20	400		0	114	48	165	405.4	11.6(26)
Toluene	417	10	400		0	104	51	149	358.5	15.1(26)
Chlorobenzene	437	20	400		0	109	51	147	379	14.2(40)
Ethylbenzene	459	10	400		0	115	54	150	400.3	13.8(29)
m,p-Xylene	489	10	400		0	122	50	161	425	14.0(38)
o-Xylene	507	10	400		0	127	35	177	430.7	16.2(40)
Surr: 1,2-Dichloroethane-d4	344		400		86	70	130			
Surr: Toluene-d8	374		400		94	70	130			
Surr: 4-Bromofluorobenzene	439		400		110	70	130			

### Comments:

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# Alpha Analytical, Inc.

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

Date:  
24-Jul-12

## QC Summary Report

Work Order:  
12071742

Surr: 1,2-Dichloroethane-d4	193	200	97	70	130
Surr: Toluene-d8	196	200	98	70	130
Surr: 4-Bromofluorobenzene	219	200	110	70	130

### Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: 12072324.D

Batch ID: MS15S9085A

Analysis Date: 07/23/2012 21:01

Sample ID: LCS MS15S9085A

Units: µg/Kg

Run ID: MSD\_15\_120720A

Prep Date: 07/23/2012 21:01

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	43.4	20	400		11	10	132			
Methyl tert-butyl ether (MTBE)	363	10	400		91	61	147			
Benzene	384	10	400		96	70	138			
Trichloroethene	367	20	400		92	70	150			
Toluene	352	10	400		88	70	137			
Chlorobenzene	365	20	400		91	10	137			
Ethylbenzene	366	10	400		91	70	138			
m,p-Xylene	353	10	400		88	70	145			
o-Xylene	357	10	400		89	70	145			
Surr: 1,2-Dichloroethane-d4	419		400		105	70	130			
Surr: Toluene-d8	371		400		93	70	130			
Surr: 4-Bromofluorobenzene	422		400		106	70	130			

### Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: 12072011.D

Batch ID: MS15S9085A

Analysis Date: 07/20/2012 13:15

Sample ID: 12071742-16AMS

Units: µg/Kg

Run ID: MSD\_15\_120720A

Prep Date: 07/20/2012 13:15

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	57.6	20	400		0	14	10	132		
Methyl tert-butyl ether (MTBE)	345	10	400		0	86	42	157		
Benzene	384	10	400		0	96	53	150		
Trichloroethene	371	20	400		0	93	48	165		
Toluene	357	10	400		0	89	51	149		
Chlorobenzene	365	20	400		0	91	51	147		
Ethylbenzene	375	10	400		0	94	54	150		
m,p-Xylene	353	10	400		0	88	50	161		
o-Xylene	356	10	400		0	89	35	177		
Surr: 1,2-Dichloroethane-d4	415		400		104	70	130			
Surr: Toluene-d8	375		400		94	70	130			
Surr: 4-Bromofluorobenzene	433		400		108	70	130			

### Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: 12072012.D

Batch ID: MS15S9085A

Analysis Date: 07/20/2012 13:37

Sample ID: 12071742-16AMSD

Units: µg/Kg

Run ID: MSD\_15\_120720A

Prep Date: 07/20/2012 13:37

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	45.1	20	400		0	11	10	132	57.57	24.3(40)
Methyl tert-butyl ether (MTBE)	328	10	400		0	82	42	157	345.2	5.2(32)
Benzene	368	10	400		0	92	53	150	383.7	4.3(26)
Trichloroethene	356	20	400		0	89	48	165	371	4.2(26)
Toluene	347	10	400		0	87	51	149	356.8	2.7(26)
Chlorobenzene	354	20	400		0	88	51	147	365.5	3.3(40)
Ethylbenzene	362	10	400		0	91	54	150	374.7	3.4(29)
m,p-Xylene	341	10	400		0	85	50	161	353.3	3.5(38)
o-Xylene	345	10	400		0	86	35	177	356.4	3.2(40)
Surr: 1,2-Dichloroethane-d4	435		400		109	70	130			
Surr: Toluene-d8	382		400		95	70	130			
Surr: 4-Bromofluorobenzene	433		400		108	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 : STR12071742**  
**Report Due By : 5:00 PM On : 24-Jul-12**

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

Report Attention	Phone Number	EEmail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

EDD Required : Yes

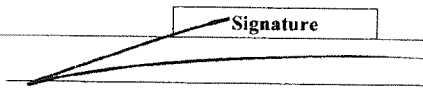
Sampled by : Allan Dudding

PO :  
 Client's COC # : 58281 58282 58283 58284 Job : 2120-1401-01/Haber Oil  
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Cooler Temp	Samples Received	Date Printed
2 °C	17-Jul-12	17-Jul-12

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Date	Alpha	Sub	TAT	Requested Tests			Sample Remarks
							TPH/E_S	TPH/P_S	VOC_S	
STR12071742-01A	B-11-10	SO	07/09/12 09:06	1	0	5	TPH/E_C	GAS-C	8260/OXYS/ACROLEIN_C	
STR12071742-02A	B-11-15	SO	07/09/12 09:11	1	0	5	TPH/E_C	GAS-C	8260/OXYS/ACROLEIN_C	
STR12071742-03A	B-11-20	SO	07/09/12 09:16	1	0	5	TPH/E_C	GAS-C	8260/OXYS/ACROLEIN_C	
STR12071742-04A	B-11-25	SO	07/09/12 09:22	1	0	5	TPH/E_C	GAS-C	8260/OXYS/ACROLEIN_C	
STR12071742-05A	B-11-30	SO	07/09/12 09:26	1	0	5	TPH/E_C	GAS-C	8260/OXYS/ACROLEIN_C	
STR12071742-06A	B-11-35	SO	07/09/12 09:31	1	0	5	TPH/E_C	GAS-C	8260/OXYS/ACROLEIN_C	
STR12071742-07A	MW-1R-10	SO	07/09/12 13:43	1	0	5		GAS-C	BTEX/OXY/1.2 DCA/EDB_C	
STR12071742-08A	MW-1R-15	SO	07/09/12 13:45	1	0	5		GAS-C	BTEX/OXY/1.2 DCA/EDB_C	

Comments: Security seals intact. Frozen ice .:

Signature	Print Name	Company	Date/Time
	Sarah New	Alpha Analytical, Inc.	7/17/12 11:15

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

Billing Information :

# CHAIN-OF-CUSTODY RECORD

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

# CA

**WorkOrder : STR12071742**  
**Report Due By : 5:00 PM On : 24-Jul-12**

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

Report Attention	Phone Number	EEmail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

EDD Required : Yes

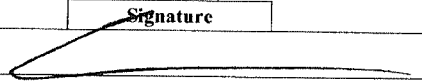
Sampled by : Allan Dudding

**PO :**  
 Client's COC # : 58281 58282 58283 58284 Job : 2120-1401-01/Haber Oil  
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Cooler Temp	Samples Received	Date Printed
2 °C	17-Jul-12	17-Jul-12

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks	
				TPH/E_S	TPH/P_S	VOC_S					
STR12071742-09A	MW-1R-20	SO 07/09/12 13:52	1 0 5		GAS-C	BTEX/OXY/1,2 DCA/EDB_C					
STR12071742-10A	MW-1R-25	SO 07/09/12 13:57	1 0 5		GAS-C	BTEX/OXY/1,2 DCA/EDB_C					
STR12071742-11A	MW-1R-30	SO 07/09/12 14:02	1 0 5		GAS-C	BTEX/OXY/1,2 DCA/EDB_C					
STR12071742-12A	MW-1R-35	SO 07/09/12 14:07	1 0 5		GAS-C	BTEX/OXY/1,2 DCA/EDB_C					
STR12071742-13A	MW-1R-40	SO 07/09/12 14:11	1 0 5		GAS-C	BTEX/OXY/1,2 DCA/EDB_C					
STR12071742-14A	VE-1-15	SO 07/09/12 14:51	1 0 5		GAS-C	BTEX/OXY/1,2 DCA/EDB_C					
STR12071742-15A	VE-1-20	SO 07/09/12 14:54	1 0 5		GAS-C	BTEX/OXY/1,2 DCA/EDB_C					
STR12071742-16A	VE-1-25	SO 07/09/12 14:58	1 0 5		GAS-C	BTEX/OXY/1,2 DCA/EDB_C					

Comments: Security seals intact. Frozen ice. :

Logged in by:	Signature	Print Name	Company	Date/Time
		Sarah Devi	Alpha Analytical, Inc.	7/17/12 1115

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

Billing Information :

# CHAIN-OF-CUSTODY RECORD

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

# CA

**WorkOrder : STR12071742**  
**Report Due By : 5:00 PM On : 24-Jul-12**

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

Report Attention	Phone Number	E-Mail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

EDD Required : Yes

Sampled by : Allan Dudding


PO :  
 Client's COC # : 58281 58282 58283 58284 Job : 2120-1401-01/Haber Oil

Cooler Temp	Samples Received	Date Printed
2 °C	17-Jul-12	17-Jul-12

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks			
				Alpha	Sub	TAT	TPWE_S	TPH/P_S	VOC_S							
STR12071742-17A	VE-1-30	SO	07/09/12 15:02	1	0	5		GAS-C	BTEX/OXY/ 1.2 DCA/EDB_C							
STR12071742-18A	MW-9-11	SO	07/11/12 08:59	1	0	5		GAS-C	BTEX/OXY/ 1.2 DCA/EDB_C							
STR12071742-19A	MW-9-21	SO	07/11/12 09:06	1	0	5		GAS-C	BTEX/OXY/ 1.2 DCA/EDB_C							
STR12071742-20A	MW-9-31	SO	07/11/12 09:12	1	0	5		GAS-C	BTEX/OXY/ 1.2 DCA/EDB_C							
STR12071742-21A	MW-9-36	SO	07/11/12 09:22	1	0	5		GAS-C	BTEX/OXY/ 1.2 DCA/EDB_C							
STR12071742-22A	MW-9-41	SO	07/11/12 09:28	1	0	5		GAS-C	BTEX/OXY/ 1.2 DCA/EDB_C							
STR12071742-23A	MW-9-45	SO	07/11/12 09:31	1	0	5		GAS-C	BTEX/OXY/ 1.2 DCA/EDB_C							
STR12071742-24A	MW-10-11	SO	07/11/12 12:36	1	0	5		GAS-C	BTEX/OXY/ 1.2 DCA/EDB_C							

Comments: Security seals intact. Frozen ice. :

Logged in by:	Signature	Print Name	Company	Date/Time
		Sarah Neri	Alpha Analytical, Inc.	7/17/12 1115

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

Billing Information :

# CHAIN-OF-CUSTODY RECORD

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

# CA

**WorkOrder : STR12071742**  
**Report Due By : 5:00 PM On : 24-Jul-12**

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

Report Attention	Phone Number	EEmail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

EDD Required : Yes

Sampled by : Allan Dudding

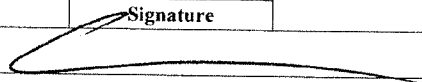
PO :  
 Client's COC # : 58281 58282 58283 58284 Job : 2120-1401-01/Haber Oil

Cooler Temp	Samples Received	Date Printed
2 °C	17-Jul-12	17-Jul-12

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks	
				TPH/E_S	TPH/P_S	VOC_S					
STR12071742-25A	MW-10-21	SO 07/11/12 12:44	1 0 5		GAS-C	BTEX/OXY/1.2 DCA/EDB_C					
STR12071742-26A	MW-10-26	SO 07/11/12 12:51	1 0 5		GAS-C	BTEX/OXY/1.2 DCA/EDB_C					
STR12071742-27A	MW-10-36	SO 07/11/12 13:00	1 0 5		GAS-C	BTEX/OXY/1.2 DCA/EDB_C					
STR12071742-28A	MW-10-40	SO 07/11/12 13:03	1 0 5		GAS-C	BTEX/OXY/1.2 DCA/EDB_C					
STR12071742-29A	MW-2R-10	SO 07/12/12 08:37	1 0 5		GAS-C	BTEX/OXY/1.2 DCA/EDB_C					
STR12071742-30A	MW-2R-15	SO 07/12/12 08:43	1 0 5		GAS-C	BTEX/OXY/1.2 DCA/EDB_C					
STR12071742-31A	MW-2R-20	SO 07/12/12 08:46	1 0 5		GAS-C	BTEX/OXY/1.2 DCA/EDB_C					
STR12071742-32A	MW-2R-25	SO 07/12/12 08:53	1 0 5		GAS-C	BTEX/OXY/1.2 DCA/EDB_C					

Comments: Security seals intact. Frozen ice :

Logged in by:	Signature	Print Name	Company	Date/Time
		Sarah Den	Alpha Analytical, Inc.	7/17/12 11:5

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

Billing Information :

# CHAIN-OF-CUSTODY RECORD

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

# CA

## WorkOrder : STR12071742

## Report Due By : 5:00 PM On : 24-Jul-12

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

Report Attention	Phone Number	EEmail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

EDD Required : Yes

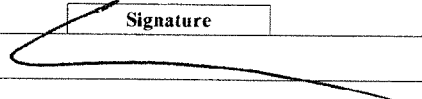
Sampled by : Allan Dudding

PO :  
 Client's COC # : 58281 58282 58283 58284 Job : 2120-1401-01/Haber Oil  
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Cooler Temp	Samples Received	Date Printed
2 °C	17-Jul-12	17-Jul-12

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks	
				TPH/E_S	TPH/P_S	VOC_S					
STR12071742-33A	MW-2R-30	SO 07/12/12 08:59	1 0 5		GAS-C	BTEX/OXY/1.2 DCA/EDB_C					
STR12071742-34A	MW-2R-35	SO 07/12/12 09:05	1 0 5		GAS-C	BTEX/OXY/1.2 DCA/EDB_C					
STR12071742-35A	MW-2R-40	SO 07/12/12 09:12	1 0 5		GAS-C	BTEX/OXY/1.2 DCA/EDB_C					
STR12071742-36A	VE-2-10	SO 07/12/12 11:56	1 0 5		GAS-C	BTEX/OXY/1.2 DCA/EDB_C					
STR12071742-37A	VE-2-15	SO 07/12/12 12:00	1 0 5		GAS-C	BTEX/OXY/1.2 DCA/EDB_C					
STR12071742-38A	VE-2-20	SO 07/12/12 12:04	1 0 5		GAS-C	BTEX/OXY/1.2 DCA/EDB_C					
STR12071742-39A	VE-2-25	SO 07/12/12 12:11	1 0 5		GAS-C	BTEX/OXY/1.2 DCA/EDB_C					
STR12071742-40A	VE-2-30	SO 07/12/12 12:15	1 0 5		GAS-C	BTEX/OXY/1.2 DCA/EDB_C					

Comments: Security seals intact. Frozen ice. :

Signature	Print Name	Company	Date/Time
	Sarah Neri	Alpha Analytical, Inc.	7/17/12 11:15

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:**

Company Name Stratus Env.  
 Attn: \_\_\_\_\_  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone Number \_\_\_\_\_ Fax \_\_\_\_\_



Samples Collected From Which State? **58281**  
 AZ \_\_\_\_\_ CA  NV \_\_\_\_\_ WA \_\_\_\_\_ DOD Site \_\_\_\_\_  
 ID \_\_\_\_\_ OR \_\_\_\_\_ OTHER \_\_\_\_\_ Page # 1 of 2

Consultant / Client Name		Job #		Job Name		Analyses Required						Data Validation Level: III or IV			
Haber U.I.		2120-1401-01		Haber U.I.								EDD / EDF? YES <input checked="" type="checkbox"/> NO _____			
Address		Report Attention / Project Manager		Name:								Global ID # <u>T0602101827</u>			
1401 Grand Ave		Steve Carter		Email: <u>scarter@stratusenv.com</u>								REMARKS			
City, State, Zip		Phone:		Mobile:											
San Leandro, CA		530-676-6008													
Time Sampled	Date Sampled	Matrix See Key Below	P.O. #	Lab ID Number	Office (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	DRO, DRO	GRO	BTEX, 5 oxys, 1,2-DCA, EDB	Full 8260 Screen		
0906	7/9	SO		STR1207H742	DIA	B-11-10	Std.		1P	X	X		X		
0911					DIA	B-11-15									
0916					DIA	B-11-20									
0922					DIA	B-11-25									
0926					DIA	B-11-30									
0931					DIA	B-11-35									
1343					DIA	MW-1R-10						X			
1345					DIA	MW-1R-15									
1352					DIA	MW-1R-20									
1357					DIA	MW-1R-25									
1402					DIA	MW-1R-30									
1407					DIA	MW-1R-35									
1411					DIA	MW-1R-40									

**ADDITIONAL INSTRUCTIONS:** VOCs Extended List + Propenal by 8260 B

\* Include BTEX, 5 oxys, EDB, 1,2-DCA, PCE, TCE, and naphthalene. Identify other peaks where possible.

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

Relinquished by: (Signature/Affiliation) <u>[Signature]</u>	Received by: (Signature/Affiliation) <u>[Signature]</u>	Date: <u>7/16/12</u>	Time: <u>1225</u>
Relinquished by: (Signature/Affiliation) <u>[Signature]</u>	Received by: (Signature/Affiliation) <u>[Signature]</u>	Date: <u>7/17/12</u>	Time: <u>1025</u>
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

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

**Billing Information:**

Company Name Stratus Env.  
 Attn: \_\_\_\_\_  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone Number \_\_\_\_\_ Fax \_\_\_\_\_

**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? **58282**  
 AZ \_\_\_\_\_ CA  NV \_\_\_\_\_ WA \_\_\_\_\_ **DOD Site**  
 ID \_\_\_\_\_ OR \_\_\_\_\_ OTHER \_\_\_\_\_ Page # 2 of \_\_\_\_\_

Consultant / Client Name		Job #	Job Name		Analyses Required							Data Validation Level: III or IV					
<u>Haber Oil</u>		<u>2120-1401-01</u>	<u>Haber Oil</u>									EDD / EDF? YES <input checked="" type="checkbox"/> NO _____					
Address		Name: <u>Steve Carter</u>									Global ID # <u>To 602101827</u>						
<u>1401 Grand Ave.</u>		<u>Steve Carter</u>									REMARKS						
City, State, Zip <u>Sacramento CA</u>		Email: <u>scarter@stratusinc.net</u>															
Phone: <u>530-670-6008</u>		Mobile: _____															
Time Sampled	Date Sampled	Matrix See Key Below	P.O. #	Lab ID Number	Office (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	GRO	BTEX, SVOCs, L2, DCA, EDD						
1451	7/9	SO		-14A		VE-1-15	Std.		1P	X	X						
1454				15A		VE-1-20											
1458				16A		VE-1-25											
1502				17A		VE-1-30											
0859	7/11			18A		MW-9-11			318								
0906				19A		MW-9-21											
0912				20A		MW-9-31											
0922				21A		MW-9-36											
0928				22A		MW-9-41											
0931				23A		MW-9-45											
1236				24A		MW-10-11											
1244				25A		MW-10-21											
1251				26A		MW-10-26											

**ADDITIONAL INSTRUCTIONS:**

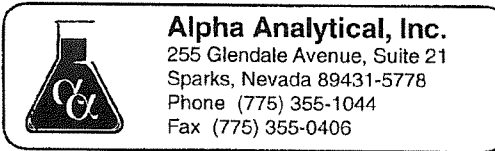
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: Alan Sudding

Relinquished by: (Signature/Affiliation) <u>[Signature]</u>	Received by: (Signature/Affiliation) <u>[Signature]</u>	Date: <u>7/16/12</u>	Time: <u>12:25</u>
Relinquished by: (Signature/Affiliation) <u>[Signature]</u>	Received by: (Signature/Affiliation) <u>[Signature]</u>	Date: <u>7/17/12</u>	Time: <u>10:25</u>
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

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

**Billing Information:**

Company Name Stratus Env.  
 Attn: \_\_\_\_\_  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone Number \_\_\_\_\_ Fax \_\_\_\_\_



Samples Collected From Which State? **58283**  
 AZ \_\_\_\_\_ CA  NV \_\_\_\_\_ WA \_\_\_\_\_ DOD Site \_\_\_\_\_  
 ID \_\_\_\_\_ OR \_\_\_\_\_ OTHER \_\_\_\_\_ Page # 3 of \_\_\_\_\_

Time Sampled		Date Sampled	Matrix* See Key Below	P.O. #	Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Analyses Required				Data Validation Level: III or IV			
Consultant / Client Name <u>Haber Oil</u>					Job # <u>2120-1401-01</u>		Job Name <u>Haber Oil</u>			610 5 Tex, 1785 5 0x11 12 DCA, EDB				Data Validation Level: III or IV			
Address <u>1401 Grand Ave.</u>					Report Attention / Project Manager Name: <u>Steve Carter</u>		Email: <u>scarter@stratus.nc.net</u>							EDD / EDF? YES <input checked="" type="checkbox"/> NO _____			
City, State, Zip <u>San Leandro, CA</u>					Phone: <u>530-676-6008</u>		Mobile: _____							Global ID # <u>TC600101827</u>			
														REMARKS			
1300	7/11	SO			27A	MW-10-36	Std.		1B	X	X						
1303	1				28A	MW-10-40			1								
0807	7/12				29A	MW-2R-10			1P								
0843					30A	MW-2R-15											
0846					31A	MW-2R-20											
0853					32A	MW-2R-25											
0859					33A	MW-2R-30											
0905					34A	MW-2R-35											
0912					35A	MW-2R-40											
1156					36A	VE-2-10											
1200					37A	VE-2-15											
1204					38A	VE-2-20											
1211					39A	VE-2-25											

**ADDITIONAL INSTRUCTIONS:**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: <u>Ally Dudding</u>			
Relinquished by: (Signature/Affiliation) <u>[Signature]</u>	Received by: (Signature/Affiliation) <u>[Signature]</u>	Date: <u>7/16/12</u>	Time: <u>12:25</u>
Relinquished by: (Signature/Affiliation) <u>[Signature]</u>	Received by: (Signature/Affiliation) <u>[Signature]</u>	Date: <u>7/17/12</u>	Time: <u>10:25</u>
Relinquished by: (Signature/Affiliation) _____	Received by: (Signature/Affiliation) _____	Date: _____	Time: _____

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



**Billing Information:**

Company Name Stratus Env.  
 Attn: \_\_\_\_\_  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone Number \_\_\_\_\_ Fax \_\_\_\_\_



**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? **58284**

AZ \_\_\_\_\_ CA  NV \_\_\_\_\_ WA \_\_\_\_\_ DOD Site \_\_\_\_\_  
 ID \_\_\_\_\_ OR \_\_\_\_\_ OTHER \_\_\_\_\_ Page # 4 of 4

Time Sampled		Date Sampled	Matrix* See Key Below	P.O. #	Lab ID Number	Office (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Analyses Required				Data Validation Level: III or IV	
Consultant / Client Name <u>Haber Oil</u>					Job # <u>2120-1401-01</u>		Job Name <u>Haber Oil</u>				EDD/EDF? YES <input checked="" type="checkbox"/> NO _____ Global ID # <u>70600101827</u> REMARKS					
Address <u>1401 Grand Ave.</u>					Name: <u>Steve Carter</u>				Report Attention / Project Manager							
City, State, Zip <u>San Leandro, CA</u>					Email: <u>scarter@stratusinc.com</u>				Phone: <u>530-676-6008</u> Mobile: _____							
<u>1215</u>	<u>7/12</u>	<u>SO</u>			<u>40A</u>		<u>VE-2-30</u>	<u>Std.</u>		<u>1R</u>	<u>X</u>	<u>X</u>				
FOR LAB USE ONLY																

**ADDITIONAL INSTRUCTIONS:**

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

Relinquished by: (Signature/Affiliation) <u>[Signature]</u>	Received by: (Signature/Affiliation) <u>[Signature]</u>	Date: <u>7/16/12</u>	Time: <u>12:25</u>
Relinquished by: (Signature/Affiliation) <u>[Signature]</u> <u>7-16-12</u> <u>1500</u>	Received by: (Signature/Affiliation) <u>[Signature]</u> <u>Alpha</u>	Date: <u>7/17/12</u>	Time: <u>1025</u>
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

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

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

## **APPENDIX H**

### **GEOTRACKER DATA UPLOAD CONFIRMATION SHEETS**

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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!

<b><u>Submittal Type:</u></b>	EDF - Site Investigation
<b><u>Submittal Title:</u></b>	CPT-boring soil and groundwater results
<b><u>Facility Global ID:</u></b>	T0600101827
<b><u>Facility Name:</u></b>	HABER OIL PRODUCT
<b><u>File Name:</u></b>	12070345_EDF.zip
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	12.186.106.98
<b><u>Submittal Date/Time:</u></b>	7/16/2012 4:26:34 PM
<b><u>Confirmation Number:</u></b>	1672545671

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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!

<b><u>Submittal Type:</u></b>	EDF - Site Assessment Report
<b><u>Submittal Title:</u></b>	soil analytical results, July 2012 well installation work
<b><u>Facility Global ID:</u></b>	T0600101827
<b><u>Facility Name:</u></b>	HABER OIL PRODUCT
<b><u>File Name:</u></b>	12071742_EDF.zip
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	12.186.106.98
<b><u>Submittal Date/Time:</u></b>	7/25/2012 3:02:05 PM
<b><u>Confirmation Number:</u></b>	8844165861

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STATE WATER RESOURCES CONTROL BOARD  
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UPLOADING A EDF FILE

**SUCCESS**

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

<b><u>Submittal Type:</u></b>	EDF
<b><u>Report Title:</u></b>	Site Investigation Report
<b><u>Report Type:</u></b>	Site Assessment Report
<b><u>Facility Global ID:</u></b>	T0600101827
<b><u>Facility Name:</u></b>	HABER OIL PRODUCT
<b><u>File Name:</u></b>	12081311_EDF.zip
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	12.186.106.98
<b><u>Submittal Date/Time:</u></b>	8/22/2012 6:54:35 AM
<b><u>Confirmation Number:</u></b>	2322950243

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STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

UPLOADING A GEO\_BORE FILE

**SUCCESS**

Your GEO\_BORE file has been successfully submitted!

<b><u>Submittal Type:</u></b>	GEO_BORE
<b><u>Facility Global ID:</u></b>	T0600101827
<b><u>Field Point:</u></b>	B-11
<b><u>Facility Name:</u></b>	HABER OIL PRODUCT
<b><u>File Name:</u></b>	SKMBT_C35312080812220.pdf
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	12.186.106.98
<b><u>Submittal Date/Time:</u></b>	8/8/2012 12:33:39 PM
<b><u>Confirmation Number:</u></b>	8063842058

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STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

UPLOADING A GEO\_BORE FILE

**SUCCESS**

Your GEO\_BORE file has been successfully submitted!

<b><u>Submittal Type:</u></b>	GEO_BORE
<b><u>Facility Global ID:</u></b>	T0600101827
<b><u>Field Point:</u></b>	MW-1R
<b><u>Facility Name:</u></b>	HABER OIL PRODUCT
<b><u>File Name:</u></b>	SKMBT_C35312080812230.pdf
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	12.186.106.98
<b><u>Submittal Date/Time:</u></b>	8/8/2012 12:34:26 PM
<b><u>Confirmation Number:</u></b>	6510114550

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STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

UPLOADING A GEO\_BORE FILE

**SUCCESS**

Your GEO\_BORE file has been successfully submitted!

<b><u>Submittal Type:</u></b>	GEO_BORE
<b><u>Facility Global ID:</u></b>	T0600101827
<b><u>Field Point:</u></b>	MW-2R
<b><u>Facility Name:</u></b>	HABER OIL PRODUCT
<b><u>File Name:</u></b>	SKMBT_C35312080812231.pdf
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	12.186.106.98
<b><u>Submittal Date/Time:</u></b>	8/8/2012 12:35:12 PM
<b><u>Confirmation Number:</u></b>	2472364306

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STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

UPLOADING A GEO\_BORE FILE

**SUCCESS**

Your GEO\_BORE file has been successfully submitted!

<b><u>Submittal Type:</u></b>	GEO_BORE
<b><u>Facility Global ID:</u></b>	T0600101827
<b><u>Field Point:</u></b>	MW-9
<b><u>Facility Name:</u></b>	HABER OIL PRODUCT
<b><u>File Name:</u></b>	SKMBT_C35312080812232.pdf
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	12.186.106.98
<b><u>Submittal Date/Time:</u></b>	8/8/2012 12:35:56 PM
<b><u>Confirmation Number:</u></b>	6628443419

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STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

UPLOADING A GEO\_BORE FILE

**SUCCESS**

Your GEO\_BORE file has been successfully submitted!

<b><u>Submittal Type:</u></b>	GEO_BORE
<b><u>Facility Global ID:</u></b>	T0600101827
<b><u>Field Point:</u></b>	MW-10
<b><u>Facility Name:</u></b>	HABER OIL PRODUCT
<b><u>File Name:</u></b>	SKMBT_C35312080812240.pdf
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	12.186.106.98
<b><u>Submittal Date/Time:</u></b>	8/8/2012 12:36:46 PM
<b><u>Confirmation Number:</u></b>	1143985807

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STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

UPLOADING A GEO\_BORE FILE

**SUCCESS**

Your GEO\_BORE file has been successfully submitted!

<b><u>Submittal Type:</u></b>	GEO_BORE
<b><u>Facility Global ID:</u></b>	T0600101827
<b><u>Field Point:</u></b>	VE-1
<b><u>Facility Name:</u></b>	HABER OIL PRODUCT
<b><u>File Name:</u></b>	SKMBT_C35312080812250.pdf
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	12.186.106.98
<b><u>Submittal Date/Time:</u></b>	8/8/2012 12:37:23 PM
<b><u>Confirmation Number:</u></b>	8159030973

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STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

UPLOADING A GEO\_BORE FILE

**SUCCESS**

Your GEO\_BORE file has been successfully submitted!

<b><u>Submittal Type:</u></b>	GEO_BORE
<b><u>Facility Global ID:</u></b>	T0600101827
<b><u>Field Point:</u></b>	VE-2
<b><u>Facility Name:</u></b>	HABER OIL PRODUCT
<b><u>File Name:</u></b>	SKMBT_C35312080812251.pdf
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	12.186.106.98
<b><u>Submittal Date/Time:</u></b>	8/8/2012 12:37:57 PM
<b><u>Confirmation Number:</u></b>	9831878602

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STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

UPLOADING A GEO\_BORE FILE

**SUCCESS**

Your GEO\_BORE file has been successfully submitted!

<b><u>Submittal Type:</u></b>	GEO_BORE
<b><u>Facility Global ID:</u></b>	T0600101827
<b><u>Field Point:</u></b>	CPT-1
<b><u>Facility Name:</u></b>	HABER OIL PRODUCT
<b><u>File Name:</u></b>	SKMBT_C35312092507140.pdf
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	12.186.106.98
<b><u>Submittal Date/Time:</u></b>	9/25/2012 7:23:01 AM
<b><u>Confirmation Number:</u></b>	4577605485

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STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

UPLOADING A GEO\_BORE FILE

**SUCCESS**

Your GEO\_BORE file has been successfully submitted!

<b><u>Submittal Type:</u></b>	GEO_BORE
<b><u>Facility Global ID:</u></b>	T0600101827
<b><u>Field Point:</u></b>	CPT-2
<b><u>Facility Name:</u></b>	HABER OIL PRODUCT
<b><u>File Name:</u></b>	SKMBT_C35312092507141.pdf
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	12.186.106.98
<b><u>Submittal Date/Time:</u></b>	9/25/2012 7:23:31 AM
<b><u>Confirmation Number:</u></b>	8357059538

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UPLOADING A GEO\_XY FILE

**SUCCESS**

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<b><u>Submittal Type:</u></b>	GEO_XY
<b><u>Report Title:</u></b>	Well Installation Report and Site Assessment
<b><u>Facility Global ID:</u></b>	T0600101827
<b><u>Facility Name:</u></b>	HABER OIL PRODUCT
<b><u>File Name:</u></b>	Geo_XY.zip
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	12.186.106.98
<b><u>Submittal Date/Time:</u></b>	9/19/2012 2:29:25 PM
<b><u>Confirmation Number:</u></b>	6481460511

[VIEW GEO\\_XY SUBMITTAL DATA ON MAP](#)

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UPLOADING A GEO\_MAP FILE

**SUCCESS**

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<b><u>Submittal Type:</u></b>	<b>GEO_MAP</b>
<b><u>Facility Global ID:</u></b>	<b>T0600101827</b>
<b><u>Facility Name:</u></b>	<b>HABER OIL PRODUCT</b>
<b><u>File Name:</u></b>	<b>7502-107 Model (JULY-2012).pdf</b>
<b><u>Organization Name:</u></b>	<b>Stratus Environmental, Inc.</b>
<b><u>Username:</u></b>	<b>STRATUS NOCAL</b>
<b><u>IP Address:</u></b>	<b>12.186.106.98</b>
<b><u>Submittal Date/Time:</u></b>	<b>9/19/2012 2:30:21 PM</b>
<b><u>Confirmation Number:</u></b>	<b>6341754972</b>

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<b><u>Submittal Type:</u></b>	GEO_Z
<b><u>Report Title:</u></b>	Well Installation Report and Site Assessment
<b><u>Facility Global ID:</u></b>	T0600101827
<b><u>Facility Name:</u></b>	HABER OIL PRODUCT
<b><u>File Name:</u></b>	Geo_Z.zip
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	12.186.106.98
<b><u>Submittal Date/Time:</u></b>	9/19/2012 2:52:03 PM
<b><u>Confirmation Number:</u></b>	5125974535

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