

Moller Investment Group, Inc.

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4:26 pm, Dec 16, 2010

Alameda County
Environmental Health

Mr. Jerry Wickham, P.G.
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Former USA Service Station No. 57
10700 MacArthur Boulevard, Oakland CA
(Fuel Leak Case No. RO0000232)

Dear Mr. Wickham:

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

If you have any questions, please contact me at (805) 299-8214.

Sincerely,

Mr. Charles Miller
Moller Investment Group
6951 Collins Drive, Suite E-11
Moorpark, CA 93021



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

November 12, 2010
Project No. 2007-0057-01

Mr. Jerry Wickham, P.G.
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502
(via GeoTracker)

Subject: Results of Post-Excavation Soil Gas Survey and
Request for Environmental Case Closure
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

Dear Mr. Wickham:

Stratus Environmental, Inc. (Stratus) has prepared this report, on behalf of Moller Investment Group, Inc. (MIGI), for Former USA Service Station No. 57 (the Site), located at 10700 MacArthur Boulevard, Oakland, California (the Site, see Figures 1 through 3). In October 2009, Stratus collected 39 soil gas samples, from 20 general grid-spaced locations at depths of about 4 and 9 feet below ground surface (bgs). Since this time (summer 2010), a relatively large excavation was completed at the site, extending to a maximum depth of approximately 18 feet bgs, in order to remove petroleum hydrocarbon impacted soil from the subsurface. This corrective action work was completed under the request and approval of Alameda County Environmental Health Department (ACEHD).

In a letter dated March 30, 2010, ACEHD personnel stated that following completion of excavation work, confirmation soil gas sampling at the site was necessary. Stratus subsequently prepared and submitted a document titled *Work Plan for Post-Excavation Soil Gas Survey* on September 8, 2010. ACEHD subsequently approved the scope of work presented in the *Work Plan*, in a letter dated September 20, 2010.

In accordance with the September 8, 2010 *Work Plan*, Stratus collected 18 soil gas samples from the subject site at 9 of the 20 locations sampled in October 2009. These sampling locations were selected based on the results of the October 2009 soil gas survey in order to enable an evaluation of current soil gas levels at the locations where the highest concentrations of soil gas were previously identified. This report documents the work completed and presents a discussion of the findings of this work.

SITE DESCRIPTION AND BACKGROUND

The subject property is located in a mixed residential and commercial neighborhood in southeast Oakland. The property is bounded to the northeast by Foothill Boulevard, and to the southeast by 108th Avenue, and is situated approximately 500 feet west-southwest of Interstate 580. The site occupies a relatively small portion of the Foothill Square Shopping Center (Figure 2). This portion of the subject property, formerly occupied by USA Station 57, is currently undeveloped. Areas adjacent to the site (to the southwest and northwest) are used as parking for the shopping center. A residential neighborhood is located south of the Foothill Square Shopping Center.

The site is situated approximately 80 feet above sea level, immediately west of the Oakland/San Leandro Hills and approximately 4 miles northeast of San Francisco Bay. The property is located on the eastern portion of the East Bay Plain. Topography at the site is relatively flat, with the ground surface typically sloping west-southwest towards San Francisco Bay. The Oakland/San Leandro Hills rise sharply out of the East Bay Plain east of the site and Interstate 580.

The former service station configuration included three 12,000-gallon gasoline and one 8,000-gallon diesel underground storage tanks (USTs) and three dispenser islands. The station was closed, and the USTs, dispensers, and associated product piping were removed, in July 1994. The approximate location of the former USTs and fuel dispensers are included on Figure 2. The 2010 excavation, completed to remove petroleum hydrocarbon impacted soil from the subsurface, included the areas within and around the former USTs, dispensers, and product piping. The surveyed limits of this excavation are depicted on Figure 2.

SOIL GAS INVESTIGATION

The objective of this soil gas investigation was to evaluate post-excavation concentrations of total petroleum hydrocarbons as gasoline (TPHG), benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary butyl ether (MTBE), and naphthalene in shallow soil gas, near locations where elevated levels of petroleum hydrocarbons in shallow soil gas were identified during the October 2009 sampling. To accomplish this objective, on October 8, 2010, Stratus installed 18 soil gas sampling points (SGS-1A/B through SGS-9A/B) at depths of approximately 5 and 10 feet bgs (see Figure 2 for sampling locations). After allowing approximately 9 to 10 days for equilibration of soil gas concentrations at each boring location, Stratus subsequently returned to the site to collect the soil gas samples on October 17th and 18th 2010.

Prior to implementation of field activities, a drilling permit was secured from Alameda County Public Works Agency (ACPWA). Drilling locations were marked 48 hours prior to

fieldwork. Underground Service Alert, ACPWA, ACEHD, MIGI, and the property owner were notified 48 hours prior to beginning work activities. All work was conducted under the direct supervision of a State of California Professional Geologist or Civil Engineer. The soil gas sampling was generally completed consistent with Department of Toxic Substances Control (DTSC), the California Regional Water Quality Control Board (Los Angeles Region, [LARWQCB]), ACEHD, ACPWA, and United States Environmental Protection Agency (USEPA) guidelines. A copy of the drilling permit is provided in Appendix A.

Field Activities

Soil Gas Probe Installation

On October 8, 2010, Stratus personnel met with a representative of Morrow Surveying, Inc. in order to re-position borings SGS-1 A/B through SGS-9 A/B at the same locations as the selected sampling points from the October 2009 soil gas sampling event. After marking/staking the location of each boring, Vironex, Inc. (Vironex), of Concord, California (C-57 #705927) completed the installation of the soil gas sampling probes using the direct-push drilling method. Vironex personnel advanced borings SGS-1A through SGS-9A to approximately 5 feet bgs and borings SGS-1B through SGS-9B to approximately 10 feet bgs. The soil gas probes consisted of a polyethylene soil gas implant (model SVP-91, provided by Environmental Service Products, LLC) attached to ¼-inch diameter Teflon tubing, extending from the implant to the ground surface. The soil gas implants were installed to approximately 2-inches above the base of the boring. A filter pack of Lonestar™ #2/12 sand was placed in the annular space around the implant from the base of the boring to approximately 2 inches above the top of the mesh implant. Granular bentonite was subsequently placed on top of the filter pack sand to backfill the annular space up to approximately 1 foot below surface grade. Neat cement was placed on top of the granular bentonite in order to fill the remaining annular space. A Swagelok™ stainless steel fitting was placed over the end of the Teflon tubing. Vault boxes were installed over the top of the soil gas probes.

Soil Gas Sampling

Between October 17 and 18, 2010, Stratus collected soil vapor samples from each of the soil vapor probes. Prior to sampling, an expandable 6-liter SUMMA™ canister was used to purge ambient air situated inside of the sand filter pack and the Teflon tubing connected to the soil gas implant. Following purging of this ambient air, a separate 1-liter SUMMA™ canister was used to collect each soil gas sample. The sample collection SUMMA™ canisters were filled at a regulated maximum flow rate of 200 milliliters per minute (ml/min). The SUMMA™ canisters were filled at a flow rate between 100 and 200 ml/min. During sample collection, a tracer gas of 1,1-difluoroethane (1,1-DFA) was

intermittently applied (sprayed from a canister) around the outside of the sample train in order to assess potential leakage during the sample collection procedure. Following retention of the samples, the SUMMA™ canisters were stored at ambient air temperature, using proper chain-of-custody procedures, until delivered to the analytical laboratory for chemical analysis. A schematic diagram of the soil gas sample collection equipment is presented in Appendix B. Field data sheets documenting the soil gas sampling and installation of the soil gas probes are included in Appendix B.

Surveying Data

After completing their work on October 8, 2010, Morrow Surveying, Inc. provided Stratus with a map illustrating the location of the 18 soil gas sampling points and data necessary for Geotracker compliance at each sampling location. A copy of Morrow Surveying's map is provided in Appendix C.

Soil Probe Point Removal

In the September 8, 2010 *Work Plan*, Stratus indicated that the soil gas implants would be removed from the subsurface following completion of soil gas sampling. Stratus has retained Vironex to remove the soil gas implants; this work is tentatively scheduled for completion on November 18, 2010. Stratus will submit documentation regarding removal of the soil gas implants in a separate report.

Laboratory Analyses

SUMMA™ canisters collected during this investigation were forwarded to Air Toxics, LTD, a California state-certified analytical laboratory (ELAP #2110), for chemical analyses under chain-of-custody procedures. Soil gas samples were analyzed for TPHG, BTEX, MTBE, naphthalene, and 1,1-DFA according to USEPA Method TO-15 (modified). Copies of the laboratory analytical reports with chain-of-custody documentation are included as Appendix D. Analytical data was uploaded to the Geotracker database; confirmation documentation of these data uploads are included in Appendix D.

Soil Gas Analytical Results

Only one analyte (toluene at 4.8 $\mu\text{g}/\text{m}^3$, sample location SGS-2A) was detected in the 5-foot depth soil gas samples collected during this phase of investigation. Concentrations of TPHG, benzene, ethylbenzene, xylenes, MTBE, and naphthalene were reported below laboratory instrument detection levels. Figure 3 depicts the TPHG and benzene sampling results for the 5-foot depth soil gas samples.

TPHG was detected in 3 of the 9 soil gas samples collected from 10-foot bgs, at concentrations ranging from 380 $\mu\text{g}/\text{m}^3$ to 1,100 $\mu\text{g}/\text{m}^3$. Benzene was detected in four of the nine soil gas samples collected from 10-foot bgs, at levels ranging from 4.8 $\mu\text{g}/\text{m}^3$ to 61 $\mu\text{g}/\text{m}^3$. Low levels of toluene (4 of 9 samples), ethylbenzene (3 of 9 samples), and xylenes (3 of 9 samples) were also reported. No MTBE or naphthalene were detected in the 10-foot depth samples. Figure 4 illustrates concentrations of TPHG and benzene in soil gas for the samples collected from approximately 10 feet bgs.

Data Quality Flags and Leak Detection Discussion

Low levels of 1,1-DFA (ranging from 16 $\mu\text{g}/\text{m}^3$ to 140 $\mu\text{g}/\text{m}^3$) were reported in five of the 18 soil gas samples collected during this investigation. The concentration of 1,1-DFA used for leak detection purposes during sampling was >99.65% by weight (or approximately 2,700,000,000 $\mu\text{g}/\text{m}^3$). Since 1,1-DFA is not naturally occurring in ambient air, the detection of this chemical in two samples indicates the presence of a leak. However, assuming only 1% (extremely conservative) of the almost pure 1,1-DFA gas was introduced during a leak and given the overall small sample volume (1L), the reported detections of 1,1-DFA appear to indicate the leaks were insignificant (i.e. reported 1,1-DFA concentrations are more than five orders of magnitude less than the already extremely conservative 1% assumption). Thus, we believe that the data collected from these five locations is valid, and resampling of the soil gas probes is not warranted.

ENVIRONMENTAL SCREENING LEVELS (ESLs) COMPARISON

For preliminary screening purposes, Stratus compared analytical results of the soil gas samples to the commercial values listed in RWQCB-SF's *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, Interim Final – November 2007 (revised May 2008); Table E-2, Shallow Soil Gas Screening Levels for Evaluation of Potential Indoor-Air Impacts (which are based on an excess cancer risk of 1E-06 and a hazard quotient of 0.2). ESL levels for TPHG, BTEX, MTBE, and naphthalene are included on Table 1 for reference. The results of the October 2010 soil gas sampling indicate that concentrations of shallow soil gas beneath the site are well below current ESLs. Given this observation, exposure risks to petroleum hydrocarbon vapors remaining beneath the site appear very low.

DISCUSSION AND REQUEST FOR ENVIRONMENTAL CASE CLOSURE

Given the findings of the October 2010 soil gas survey, the soil excavation and backfill corrective action project was very effective in reducing concentrations of petroleum hydrocarbon vapors in shallow soil gas at the site. The post clean-up condition of the property near former USA Station 57 meets ESL based standards for vapor intrusion risk

under a commercial property scenario. Given this observation, and the absence of other routes of exposure to any remaining contaminants beneath the site, it is our opinion that further environmental work at the site is not warranted. Stratus is thus requesting that ACEHD unconditionally close the site's environmental case and issue a No Further Action Required (NFAR) letter to MIGI for this site.

LIMITATIONS

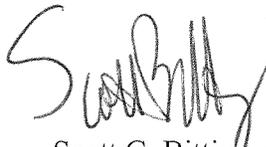
This report was prepared in general accordance with accepted standards of care that existed at the time this work was performed. No other warranty, expressed or implied, is made. Conclusions and recommendations are based on field observations and data obtained from this work and previous investigations. 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.

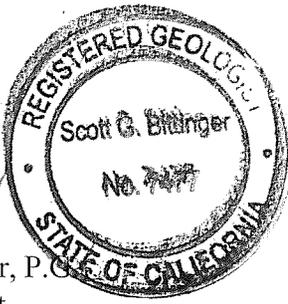
November 12, 2010

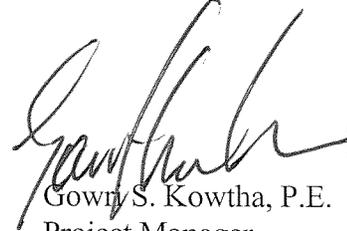
If you have any questions or comments concerning this report, please contact Mr. Scott Bittinger at (530) 676-2062 or Mr. Gowri Kowtha at (530) 676-6001.

Sincerely,

STRATUS ENVIRONMENTAL, INC.


Scott G. Bittinger, P.C.
Project Geologist




Gowri S. Kowtha, P.E.
Project Manager



Attachments: Table 1 Soil Gas Analytical Results
Figure 1 Site Location Map
Figure 2 Site Plan
Figure 3 TPHG and Benzene Concentrations in Soil Gas – 5 feet bgs
Figure 4 TPHG and Benzene Concentrations in Soil Gas – 10 feet bgs
Appendix A Drilling Permit and DWR Well Completion Forms
Appendix B Field Data Sheets and Schematic Diagram of Soil Gas
Sampling System
Appendix C Surveyor's Map
Appendix D Laboratory Analytical Reports, Chain-of-Custody
Documentation, and GeoTracker Upload Confirmations

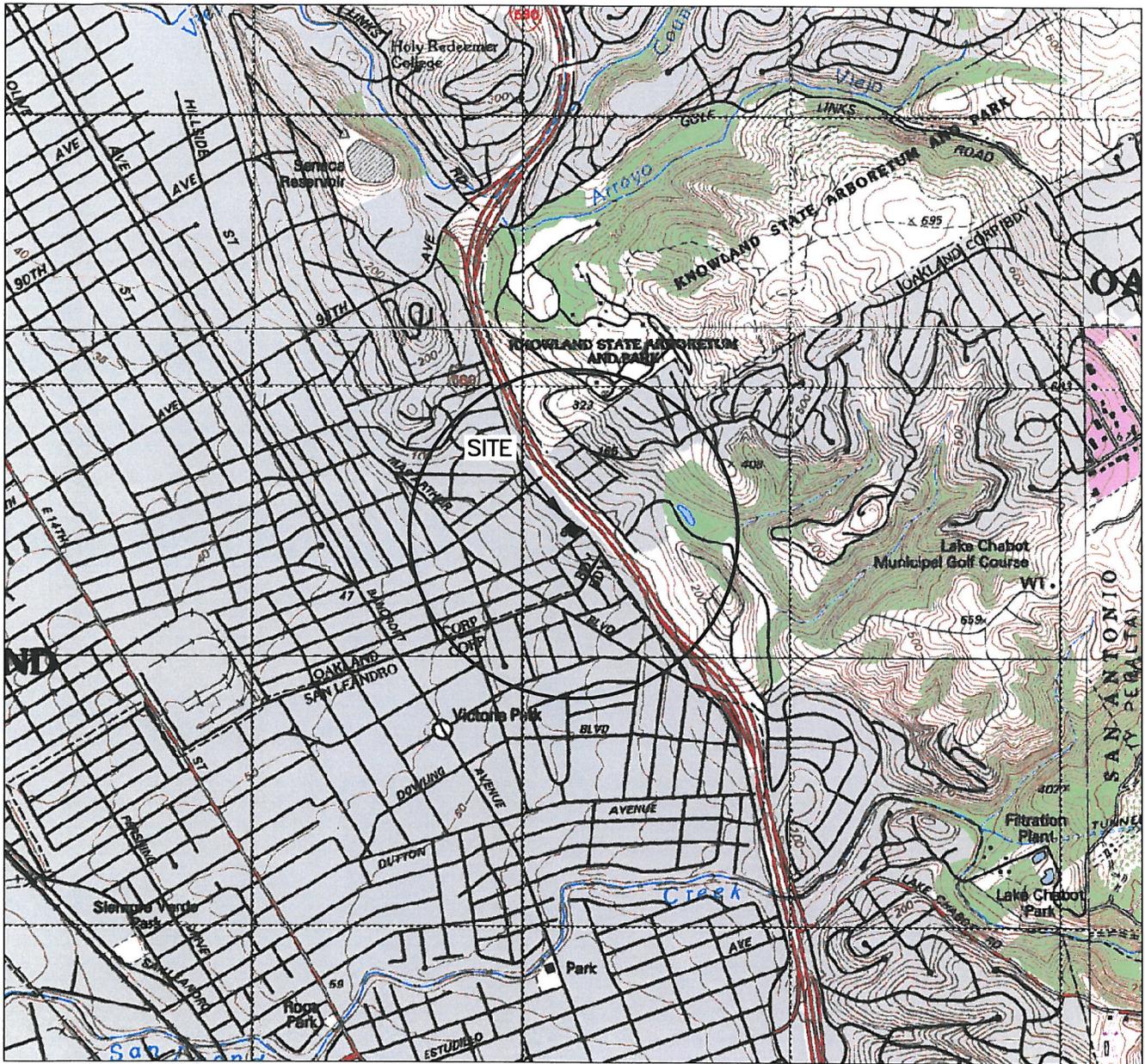
cc: Mr. Charles Miller, Moller Investment Group, Inc.

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Former USA Station No. 57
10700 MacArthur Boulevard, Oakland, California

Sample ID	Sample Depth (feet bgs)	Date	TPHg ($\mu\text{g}/\text{m}^3$)	Benzene ($\mu\text{g}/\text{m}^3$)	Toluene ($\mu\text{g}/\text{m}^3$)	Ethylbenzene ($\mu\text{g}/\text{m}^3$)	Total Xylenes ($\mu\text{g}/\text{m}^3$)	MTBE ($\mu\text{g}/\text{m}^3$)	Naphthalene ($\mu\text{g}/\text{m}^3$)	1,1-DFA ($\mu\text{g}/\text{m}^3$)
Environmental Screening Level (ESL)¹ (commercial property)			29,000	280	180,000	3,300	58,000	31,000	240	-----
SGS-1A	5	10/17/10	<240	<3.8	<4.5	<5.2	<5.2	<4.3	<25	<13
SGS-1B	10	10/17/10	1,100	<3.7	<4.4	<5.0	<5.0	<4.2	<24	<12
SGS-2A	5	10/17/10	<230	<3.6	4.8	<5.0	<5.0	<4.1	<24	140
SGS-2B	10	10/17/10	<240	<3.7	<4.4	<5.0	<5.0	<4.2	<24	<12
SGS-3A	5	10/18/10	<240	<3.7	<4.4	<5.0	<5.0	<4.2	<24	<12
SGS-3B	10	10/18/10	<250	4.8	4.6	<5.2	<5.2	<4.4	<25	<13
SGS-4A	5	10/18/10	<240	<3.7	<4.4	<5.0	<5.0	<4.2	<24	<12
SGS-4B	10	10/18/10	<240	<3.8	<4.5	<5.2	<5.2	<4.3	<25	<13
SGS-5A	5	10/18/10	<230	<3.6	<4.3	<5.0	<5.0	<4.1	<24	<12
SGS-5B	10	10/18/10	<240	<3.8	<4.5	<5.2	<5.2	<4.3	<25	<13
SGS-6A	5	10/17/10	<240	<3.7	<4.4	<5.0	<5.0	<4.2	<24	29
SGS-6B	10	10/18/10	450	61	20	44	125	<4.2	<24	77
SGS-7A	5	10/18/10	<250	<3.9	<4.6	<5.2	<5.2	<4.4	<25	<13
SGS-7B	10	10/18/10	380	55	18	40	99	<4.2	<24	43
SGS-8A	5	10/17/10	<240	<3.8	<4.5	<5.2	<5.2	<4.3	<25	<13
SGS-8B	10	10/17/10	<230	25	10	8.8	36	<4.0	<23	<12
SGS-9A	5	10/18/10	<240	<3.8	<4.5	<5.2	<5.2	<4.3	<25	16
SGS-9B	10	10/18/10	<240	<3.7	<4.4	<5.0	<5.0	<4.2	<24	<12

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Former USA Station No. 57
10700 MacArthur Boulevard, Oakland, California

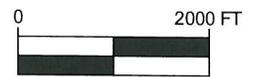
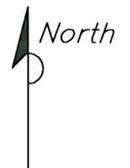
Sample ID	Sample Depth (feet bgs)	Date	TPHg (µg/m ³)	Benzene (µg/m ³)	Toluene (µg/m ³)	Ethylbenzene (µg/m ³)	Total Xylenes (µg/m ³)	MTBE (µg/m ³)	Naphthalene (µg/m ³)	1,1-DFA (µg/m ³)
Legend:			Notes:							
TPHg = Total petroleum hydrocarbons as gasoline			¹ = RWQCB-SF Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final – November 2007 (revised May 2008); Table E-2, Shallow Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion Concerns (lowest commercial established risk value)							
MTBE = Methyl tertiary butyl ether										
1,1-DFA = 1,1-difluoroethane			² = Duplicate sample analyzed by laboratory for quality control (QC) purposes ³ = Estimated value due to bias in the continuing calibration verification ⁴ = Non-detected compound associated with low bias in the continuing calibration verification							
ug/m ³ = micrograms per cubic meter										
Analytical Laboratory			BOLD font indicates analyte exceeds corresponding ESL							
Air Toxics, LTD. (NELAP 02110CA)										
Analytical Methods										
TPHg by Modified EPA Method TO-3										
BTEX, MTBE, Naphthalene, and 1,1-DFA by Modified EPA Method TO-15										



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



QUADRANGLE LOCATION



SCALE 1:24,000

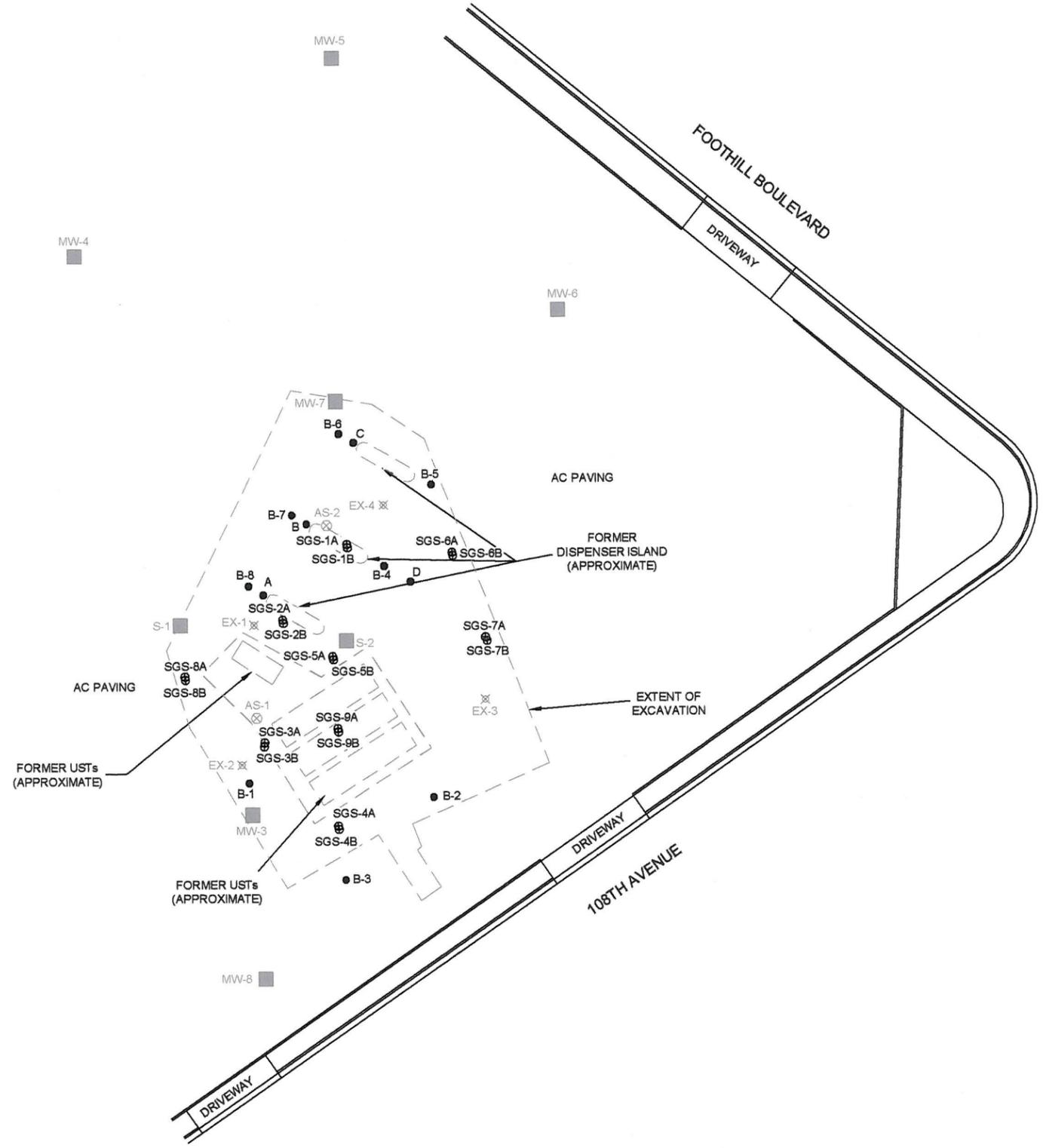
STRATUS
 ENVIRONMENTAL, INC.

FORMER USA SERVICE STATION NO. 57
 10700 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA
 SITE LOCATION MAP

FIGURE
1
 PROJECT NO.
 2007-0057-01



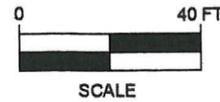
- LEGEND
- MW-6 ABANDONED MONITORING WELL LOCATION
 - ⊗ AS-1 ABANDONED AIR SPARGE WELL LOCATION
 - ⊗ EX-1 ABANDONED EXTRACTION WELL LOCATION
 - ⊕ SGS-1 POST-OVEREXCAVATION SOIL GAS SAMPLING BORING LOCATION
 - B-1 APPROXIMATE SOIL BORING LOCATION



JMP REV October 26, 2010 USA 57 NSiteplan

USA97

STRATUS
ENVIRONMENTAL, INC.



FORMER USA SERVICE STATION NO. 57
10700 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

SITE PLAN

FIGURE

2

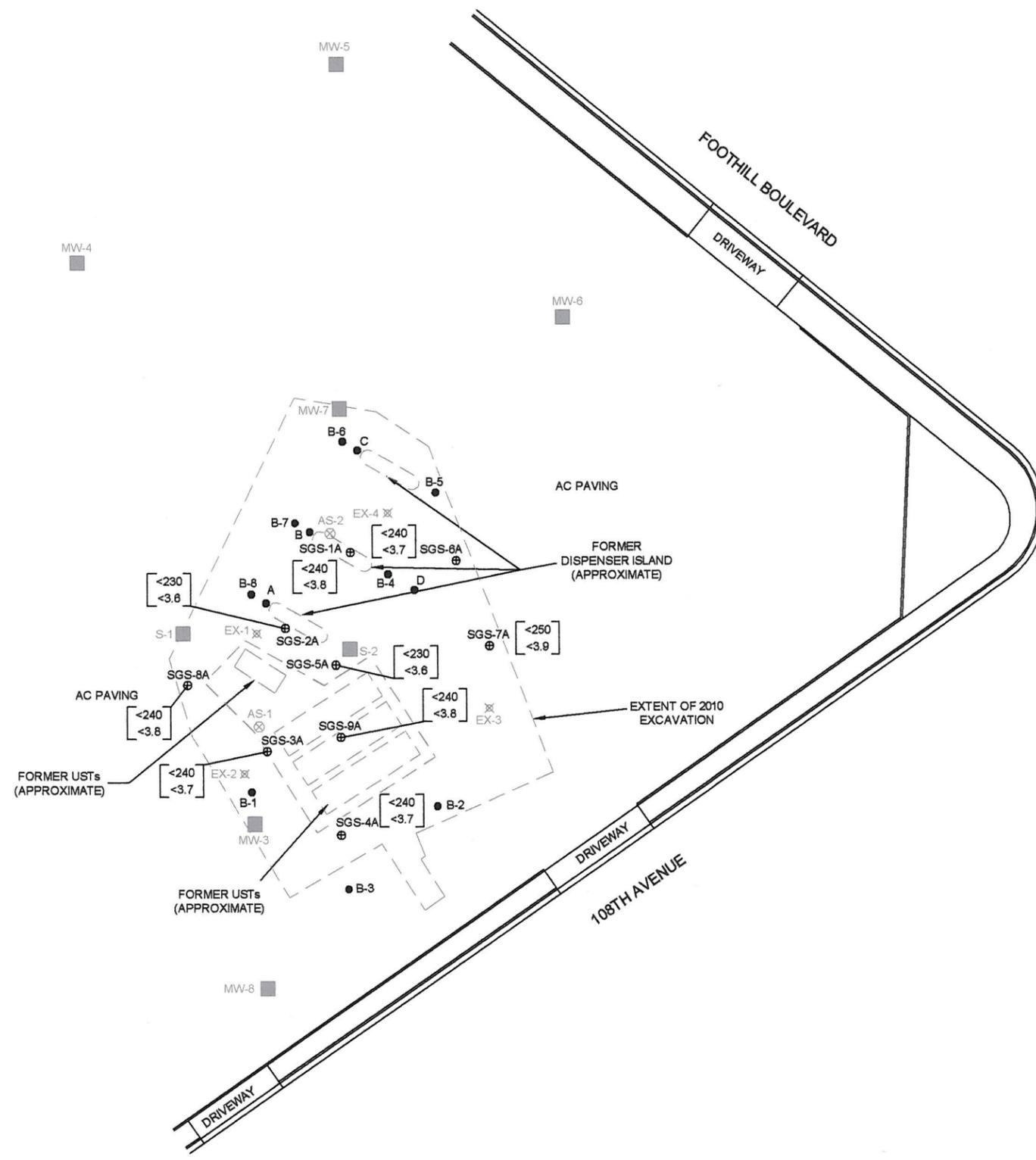
PROJECT NO.
2007-0057-01



LEGEND

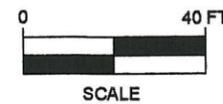
- MW-6 ABANDONED MONITORING WELL LOCATION
- ⊗ AS-1 ABANDONED AIR SPARGE WELL LOCATION
- ⊗ EX-1 ABANDONED EXTRACTION WELL LOCATION
- B-1 APPROXIMATE SOIL BORING LOCATION
- ⊕ SGS-1A POST-OVEREXCAVATION SOIL GAS SAMPLING BORING LOCATION
- [<240] TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (TPHG) IN $\mu\text{g}/\text{m}^3$
- [<3.8] BENZENE CONCENTRATION IN $\mu\text{g}/\text{m}^3$
- COMMERCIAL ESL FOR TPHG IS 29,000 $\mu\text{g}/\text{m}^3$
- COMMERCIAL ESL FOR BENZENE IS 280 $\mu\text{g}/\text{m}^3$

NOTE: SOIL GAS SAMPLES COLLECTED ON OCTOBER 17 & 18, 2010
CONCENTRATIONS REPORTED IN MICROGRAMS PER CUBIC METER ($\mu\text{g}/\text{m}^3$)



USA57 Assessment JMP REV November 1, 2010 USA 57 NShepley

STRATUS
ENVIRONMENTAL, INC.



FORMER USA SERVICE STATION NO. 57
10700 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

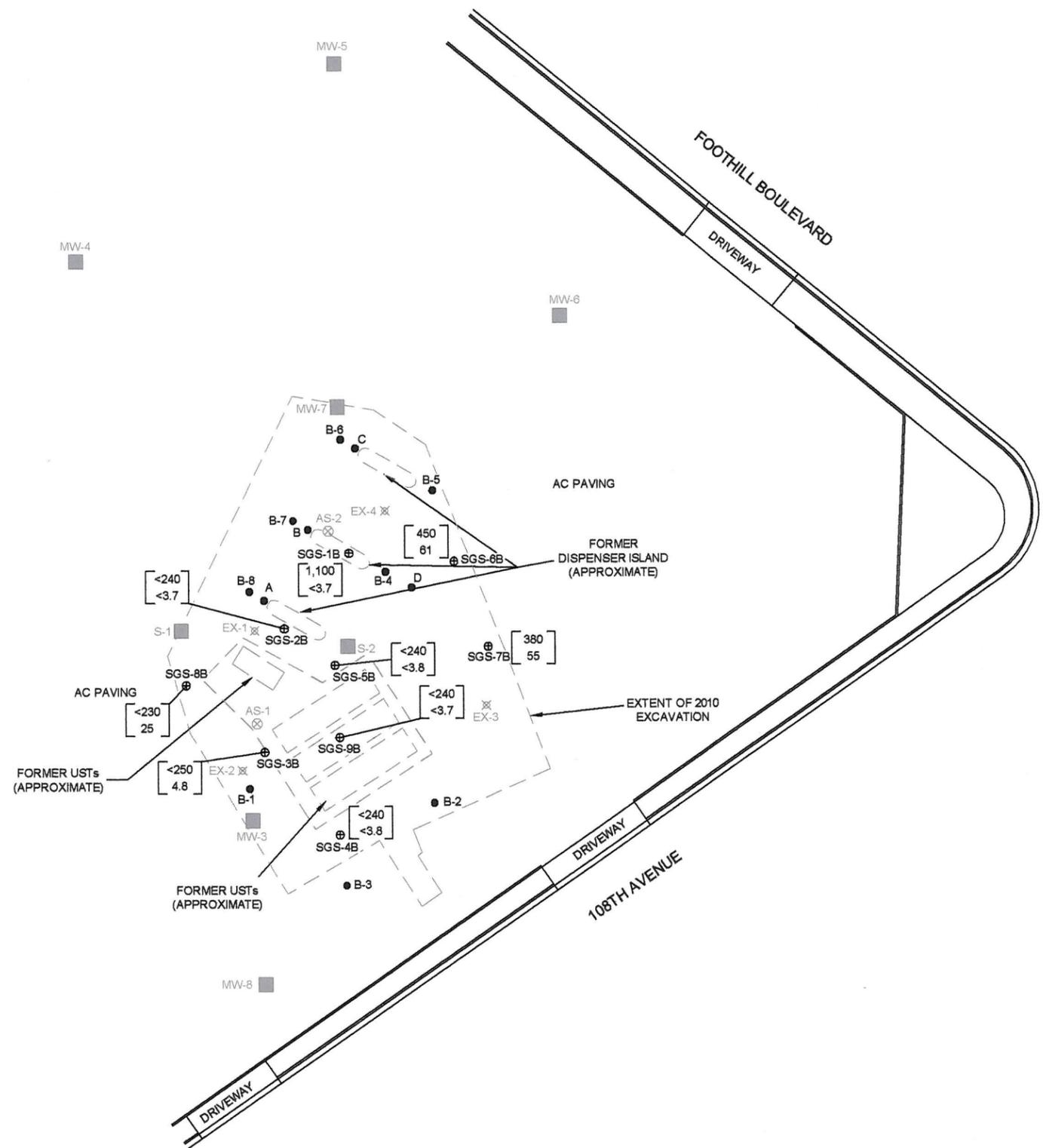
TPHG AND BENZENE CONCENTRATIONS
IN SOIL GAS, 5 ft bgs

FIGURE
3
PROJECT NO.
2007-0057-01



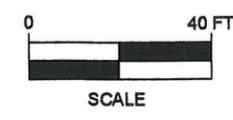
- LEGEND**
- MW-6 ABANDONED MONITORING WELL LOCATION
 - ⊗ AS-1 ABANDONED AIR SPARGE WELL LOCATION
 - ⊗ EX-1 ABANDONED EXTRACTION WELL LOCATION
 - B-1 APPROXIMATE SOIL BORING LOCATION
 - ⊕ SGS-1 POST-OVEREXCAVATION SOIL GAS SAMPLING BORING LOCATION
 - [<240] TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (TPHG) IN $\mu\text{g}/\text{m}^3$
 - [<3.7] BENZENE CONCENTRATION IN $\mu\text{g}/\text{m}^3$
 - COMMERCIAL ESL FOR TPHG IS 29,000 $\mu\text{g}/\text{m}^3$
 - COMMERCIAL ESL FOR BENZENE IS 280 $\mu\text{g}/\text{m}^3$

NOTE: SOIL GAS SAMPLES COLLECTED ON OCTOBER 17 & 18, 2010
 CONCENTRATIONS REPORTED IN MICROGRAMS PER CUBIC METER ($\mu\text{g}/\text{m}^3$)



USA57 Assessment JMP REV November 1, 2010 USA 57 NSiteplan

STRATUS
ENVIRONMENTAL, INC.



FORMER USA SERVICE STATION NO. 57
 10700 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA

TPHG AND BENZENE CONCENTRATIONS
 IN SOIL GAS , 10 ft bgs

FIGURE
4

PROJECT NO.
 2007-0057-01

APPENDIX A

**DRILLING PERMIT AND DWR WELL COMPLETION
FORMS**

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: 09/27/2010 By jamesy

Permit Numbers: W2010-0705
Permits Valid from 10/08/2010 to 10/08/2010

Application Id: 1285261130664
Site Location: 10700 MacArthur Blvd, Oakland, CA 94605
Project Start Date: 10/08/2010

City of Project Site: Oakland
Completion Date: 10/08/2010

Assigned Inspector: Contact John Shouldice at (510) 670-5424 or johns@acpwa.org

Applicant: Stratus - Scott Bittinger
3330 Cameron Park Dr #550, Cameron Park, CA 95682

Phone: 530-676-2062

Property Owner: MacArthur Blvd Associates
10700 MacArthur Blvd, Oakland, CA 94605

Phone: 510-562-9500

Client: ** same as Property Owner **

	Total Due:	\$265.00
Receipt Number: WR2010-0323	Total Amount Paid:	\$265.00
Payer Name : Stratus	Paid By: CHECK	PAID IN FULL

Works Requesting Permits:

Well Construction-Vapor monitoring well-Vapor monitoring well - 18 Wells

Driller: Vironex - Lic #: 705927 - Method: DP

Work Total: \$265.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2010-0705	09/27/2010	01/06/2011	SGS-1A	2.50 in.	0.25 in.	0.50 ft	10.00 ft
W2010-0705	09/27/2010	01/06/2011	SGS-1B	2.50 in.	0.25 in.	0.50 ft	10.00 ft
W2010-0705	09/27/2010	01/06/2011	SGS-2A	2.50 in.	0.25 in.	0.50 ft	10.00 ft
W2010-0705	09/27/2010	01/06/2011	SGS-2B	2.50 in.	0.25 in.	0.50 ft	10.00 ft
W2010-0705	09/27/2010	01/06/2011	SGS-3A	2.50 in.	0.25 in.	0.50 ft	10.00 ft
W2010-0705	09/27/2010	01/06/2011	SGS-3B	2.50 in.	0.25 in.	0.50 ft	10.00 ft
W2010-0705	09/27/2010	01/06/2011	SGS-4A	2.50 in.	0.25 in.	0.50 ft	10.00 ft
W2010-0705	09/27/2010	01/06/2011	SGS-4B	2.50 in.	0.25 in.	0.50 ft	10.00 ft
W2010-0705	09/27/2010	01/06/2011	SGS-5A	2.50 in.	0.25 in.	0.50 ft	10.00 ft
W2010-0705	09/27/2010	01/06/2011	SGS-5B	2.50 in.	0.25 in.	0.50 ft	10.00 ft
W2010-0705	09/27/2010	01/06/2011	SGS-6A	2.50 in.	0.25 in.	0.50 ft	10.00 ft
W2010-0705	09/27/2010	01/06/2011	SGS-6B	2.50 in.	0.25 in.	0.50 ft	10.00 ft
W2010-0705	09/27/2010	01/06/2011	SGS-7A	2.50 in.	0.25 in.	0.50 ft	10.00 ft
W2010-0705	09/27/2010	01/06/2011	SGS-7B	2.50 in.	0.25 in.	0.50 ft	10.00 ft
W2010-0705	09/27/2010	01/06/2011	SGS-8A	2.50 in.	0.25 in.	0.50 ft	10.00 ft

Alameda County Public Works Agency - Water Resources Well Permit

0705

W2010- 09/27/2010 01/06/2011 SGS-8B 2.50 in. 0.25 in. 0.50 ft 10.00 ft

0705

W2010- 09/27/2010 01/06/2011 SGS-9A 2.50 in. 0.25 in. 0.50 ft 10.00 ft

0705

W2010- 09/27/2010 01/06/2011 SGS-9B 2.50 in. 0.25 in. 0.50 ft 10.00 ft

0705

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

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, properly damage, personal injury and wrongful death.

4. 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.

5. 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.

6. No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.

7. Applicant shall contact John Shouldice for an inspection time at 510-670-5424 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.

8. 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.

9. 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.

Alameda County Public Works Agency - Water Resources Well Permit

10. Vapor monitoring wells above water level constructed with tubing maybe be backfilled with pancake-batter consistency bentonite. Minimum surface seal thickness is two inches of cement grout around well box.

Vapor monitoring wells above water level constructed with pvc pipe shall have a minimum seal depth (Neat Cement Seal) of 2 feet below ground surface (BGS). Minimum surface seal thickness is two inches of cement grout around well box. All other conditions for monitoring well construction shall apply.

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

APPENDIX B

FIELD DATA SHEETS AND SCHEMATIC DIAGRAM OF SOIL GAS SAMPLING SYSTEM

Field Data Sheet

Site: USA 57

Date: 10/8/2010

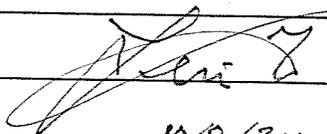
Personnel on site: Levi, Vironex

Weather Conditions: Clear, Sunny High 70's

Notes:

- 0730 Levi, Morrow and Vironex on site
- 0730-0740 Safety Meeting
- 0740-0840 Morrow is having a hard time locating points/pins
- 0840 Pin was found, Morrow starts survey
- 0900 Vironex set up on their 1st soil gas location (SGS-8 A/B)
- 0930 Vironex moves to SGS-3 A/B
- 1000 Morrow done with survey and off site
- 1005 Done with SGS-3 A/B move to SGS-9 A/B
- 1005 Done with SGS-9 A/B move to SGS-5 A/B
- 1101 Done with SGS-5 A/B move to SGS-2 A/B
- 1132 Done with SGS-2 A/B move to SGS-1 A/B
- 1203 Done with SGS-1 A/B move to SGS-6 A/B
- 1225 Done with SGS-6 A/B move to SGS-7 A/B
- 1248 Done with SGS-7 A/B move to SGS-4 A/B
- 1312 Done with SGS-4 A/B
- 1130-1330 Set boxes while other Tech. installs wells
- 1330 Vironex off site
- 1350 Levi off site

Ø Drums


10/8/2010

SOIL VAPOR TESTING

SITE NUMBER:

USA 57

DATE:

10/17/2010

WEATHER CONDITIONS:

Overcast, Trace

precipitation (approx. 1 hr of very light rain)

WELL NUMBER	CANISTER NUMBER	F.C. NUMBER	PURGE 1.8 START	PURGE STOP	LEAK START "Hg	LEAK STOP "Hg	SAMPLE START "Hg	SAMPLE STOP "Hg
SGS-8A	37379	40707	Purged	1.8 L	0852 -27" Hg	0902 -27" Hg	0903 -28" Hg	0910 -5" Hg
SGS-8B	36412	100955	↓	↓	0927 -30" Hg	0937 -30" Hg	0938 -30" Hg	0946 -5" Hg
SGS-2A	34102	100472	↓	↓	1010 -29" Hg	1020 -29" Hg	1022 -17" Hg	1028 -4" Hg
SGS-2B	23832	02169	↓	↓	1044 -29" Hg	1054 -29" Hg	1055 -29" Hg	1104 -5" Hg
SGS-1A	36541	100376	↓	↓	1146 -28" Hg	1156 -28" Hg	1157 -29" Hg	1207 -5" Hg
SGS-1B	36507	100233	↓	↓	1215 -28" Hg	1225 -28" Hg	1226 -26" Hg	1232 -5" Hg
SGS-6A	14508	100503	↓	↓	1249 -28.5" Hg	1259 -28.5" Hg	1300 29.5" Hg	1307 -5" Hg

Purged wells with Thomas Industries pump; Model 107DC18.
 Use 1,1-DFA as a leak check gas.
 * Canister used to sample SGS-2 only had -17" Hg.

SOIL VAPOR TESTING

SITE NUMBER:

DATE:

WEATHER CONDITIONS:

USA 57

10/18/2010

Overcast in am

WELL NUMBER	CANISTER NUMBER	F.C. NUMBER	PURGE START	PURGE STOP	LEAK START "Hg	LEAK STOP "Hg	SAMPLE START "Hg	SAMPLE STOP "Hg
SGS-6B	34104	100956	1.8L	Purged	0744 -26.5" Hg	0754 -26.5" Hg	0755 -29" Hg	0803 -5" Hg
SGS-7A	34670	100238			0818 -24" Hg	0828 -24" Hg	0829 -28" Hg	0836 -5" Hg
SGS-7B	34660	100037			0842 -29.5" Hg	0852 -29.5" Hg	0853 -27" Hg	0901 -5" Hg
SGS-5A	31795	100234			0915 -29.5" Hg	0925 -29.5" Hg	0926 -30" Hg	0934 -5" Hg
SGS-5B	2135	06979			1014 -30" Hg	1025 -30" Hg	1026 -29" Hg	1035 -5" Hg
SGS-9A	1350	40729			0924 -24" Hg	0935 -24" Hg	0936 -25" Hg	0943 -5" Hg
SGS-9B	12388	5011324			1029 -25" Hg	1040 -25" Hg	1041 -29.5" Hg	1049 -4" Hg
SGS-4A	3011	100475			1109 -25" Hg	1119 -25" Hg	1120 -29" Hg	1128 -5" Hg
SGS-4B	3009	100431			1152 -26" Hg	1202 -26" Hg	1203 -30" Hg	1211 -5" Hg
SGS-3A	35553	100953			1114 -29" Hg	1124 -29" Hg	1125 -28.5" Hg	1132 -3" Hg
SGS-3B	9375	06547			1149 -28.5" Hg	1234 28.5" Hg	1235 29" Hg	1241 -5" Hg

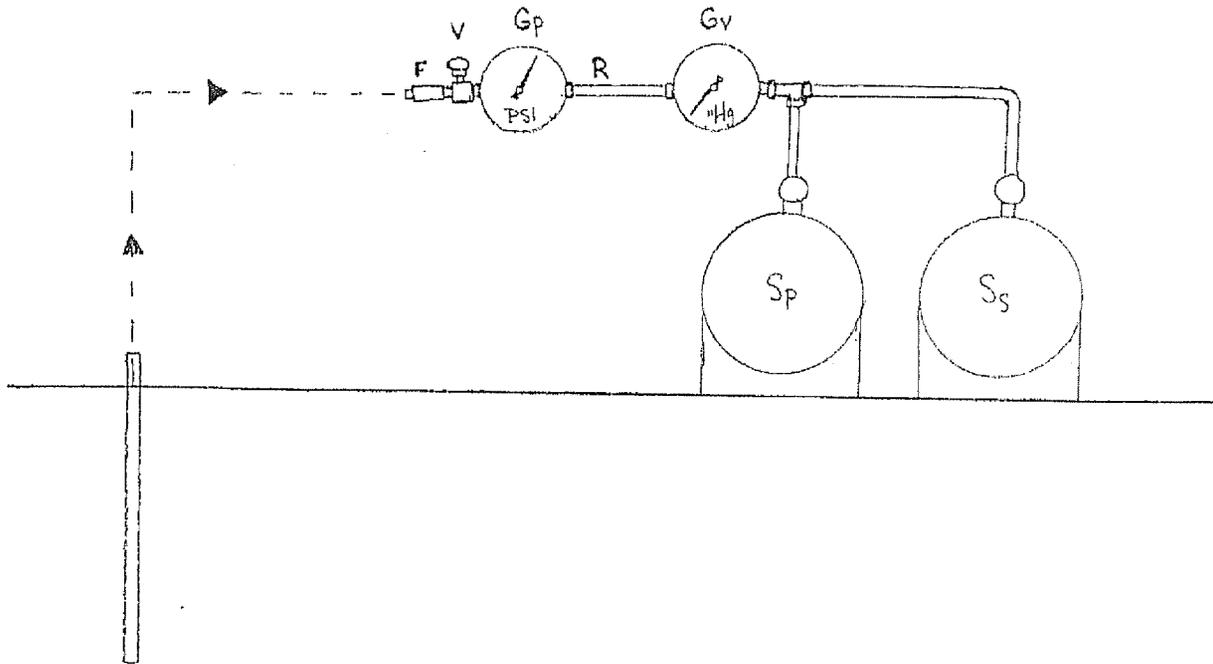
Purged wells with Thomas Industries Pump; Model 107DC18
 Use 1,1-DFA as leak check gas

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Schematic of Soil Gas Sampling Manifold

- F = Filter
- V = Valve
- G_p = Pressure Gauge
- R = Flow Regulator
- G_v = Vacuum Gauge
- S_p = Purge Summa Canister
- S_s = Sample Summa Canister



180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630
(916) 985-1000 • (800) 985-5955 • FAX (916) 985-1020

APPENDIX C
SURVEYOR'S MAP

Excavation Exhibit
 Prepared for:
 Stratus
 Environmental

DRIVEWAY

FOOTHILL BLVD.

LIGHT #2

FLAG POLE

LIGHT #3

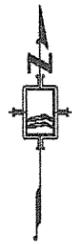
LIMIT OF EXCAVATION (TYP.)

DESCRIPTION	NORTHING	EASTING	LATITUDE	LONGITUDE
SGS-1A	2097258.8	6085132.9	37.7431584	-122.1480990
SGS-1B	2097257.8	6085132.5	37.7431558	-122.1480943
SGS-2A	2097237.0	6085133.5	37.7430977	-122.1481588
SGS-2B	2097236.1	6085133.7	37.7430953	-122.1481581
SGS-3A	2097201.6	6085128.1	37.7430033	-122.1481754
SGS-3B	2097200.5	6085128.0	37.7429972	-122.1481757
SGS-4A	2097177.3	6085149.4	37.7429322	-122.1481004
SGS-4B	2097176.6	6085149.6	37.7429327	-122.1480996
SGS-5A	2097226.4	6085148.1	37.7430693	-122.1481077
SGS-5B	2097225.5	6085148.3	37.7430669	-122.1481069
SGS-6A	2097256.3	6085182.8	37.7431332	-122.1479896
SGS-6B	2097255.4	6085183.0	37.7431308	-122.1479887
SGS-7A	2097231.9	6085192.3	37.7430865	-122.1479333
SGS-7B	2097230.9	6085192.7	37.7430838	-122.1479336
SGS-8A	2097220.7	6085105.1	37.7430516	-122.1482361
SGS-8B	2097219.8	6085105.3	37.7430490	-122.1482354
SGS-9A	2097203.7	6085149.4	37.7430124	-122.1481019
SGS-9B	2097204.7	6085149.6	37.7430098	-122.1481011

BASIS OF COORDINATES AND ELEVATIONS:

COORDINATES ARE CALIFORNIA STATE PLANE ZONE 9 COORDINATES FROM GPS OBSERVATIONS USING UNIVERSITY OF CALIFORNIA BAY AREA DEFORMATION CORS STATION OBSERVATION FILES AND BASED ON THE CALIFORNIA SPATIAL REFERENCE CENTER DATUM, REFERENCE EPOCH 2000.25
 COORDINATE DATUM IS NAD 83(1986).
 DATUM ELLIPSOID IS GRS80.
 REFERENCE EPOCH IS 1985.0.
 CORS STATIONS USED WERE DIA3 AND SUB3.
 VERTICAL DATUM IS NAVD 88 FROM GPS OBSERVATIONS.

LIGHT #1



DRIVEWAY

108TH AVENUE

Former USA Station No. 57
 10700 MacArthur Blvd.
 Oakland
 Alameda County
 California



1255 Starboard Drive
 West Sacramento
 California 95691
 (916) 372-8124
 adam2@morrowsurveying.com

Date: 10-8-10
 Scale: 1"=10'
 Sheet 1 of 1
 Revised:
 Field Book: MW-50
 Dwg. No. 7502-029SGS
 AZ

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A GEO_XY FILE

SUCCESS

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

<u>Submittal Type:</u>	GEO_XY
<u>Submittal Title:</u>	GEO_XY Gas Points
<u>Facility Global ID:</u>	T0600101808
<u>Facility Name:</u>	USA PETROLEUM
<u>File Name:</u>	GEO_XY.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	12.186.106.98
<u>Submittal Date/Time:</u>	11/3/2010 9:40:24 AM
<u>Confirmation Number:</u>	4027634620

[VIEW GEO_XY SUBMITTAL DATA ON MAP](#)

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APPENDIX D

LABORATORY ANALYTICAL REPORTS, CHAIN-OF-CUSTODY DOCUMENTATION, AND GEOTRACKER UPLOAD CONFIRMATIONS

10/29/2010

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

Project Name: USA 57
Project #: 2007-57-1
Workorder #: 1010369

Dear Mr. Scott Bittinger

The following report includes the data for the above referenced project for sample(s) received on 10/18/2010 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Karen Lopez at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Karen Lopez
Project Manager

WORK ORDER #: 1010369

Work Order Summary

CLIENT:	Mr. Scott Bittinger Stratus Environmental, Inc. 3330 Cameron Park Drive Suite 550 Cameron Park, CA 95682-8861	BILL TO:	Mr. Chuck Miller Moller Investment Group Inc. 6591 Collins Dr. Ste E-11 Moorpark, CA 93021
PHONE:	530-676-2062	P.O. #	
FAX:	530-676-6005	PROJECT #	2007-57-1 USA 57
DATE RECEIVED:	10/18/2010	CONTACT:	Karen Lopez
DATE COMPLETED:	10/29/2010		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SGS-1A	Modified TO-15	4.5 "Hg	15 psi
02A	SGS-1B	Modified TO-15	4.0 "Hg	15 psi
03A	SGS-2A	Modified TO-15	3.5 "Hg	15 psi
04A	SGS-2B	Modified TO-15	4.0 "Hg	15 psi
05A	SGS-3A	Modified TO-15	4.0 "Hg	15 psi
06A	SGS-3B	Modified TO-15	5.0 "Hg	15 psi
07A	SGS-4A	Modified TO-15	4.0 "Hg	15 psi
08A	SGS-4B	Modified TO-15	4.5 "Hg	15 psi
09A	SGS-5A	Modified TO-15	3.5 "Hg	15 psi
10A	SGS-5B	Modified TO-15	4.5 "Hg	15 psi
11A	SGS-6A	Modified TO-15	4.0 "Hg	15 psi
12A	SGS-6B	Modified TO-15	4.0 "Hg	15 psi
13A	SGS-7A	Modified TO-15	5.0 "Hg	15 psi
14A	SGS-7B	Modified TO-15	4.0 "Hg	15 psi
15A	SGS-8A	Modified TO-15	4.5 "Hg	15 psi
16A	SGS-8B	Modified TO-15	3.0 "Hg	15 psi
17A	SGS-9A	Modified TO-15	4.5 "Hg	15 psi

Continued on next page

WORK ORDER #: 1010369

Work Order Summary

CLIENT:	Mr. Scott Bittinger Stratus Environmental, Inc. 3330 Cameron Park Drive Suite 550 Cameron Park, CA 95682-8861	BILL TO:	Mr. Chuck Miller Moller Investment Group Inc. 6591 Collins Dr. Ste E-11 Moorpark, CA 93021
PHONE:	530-676-2062	P.O. #	
FAX:	530-676-6005	PROJECT #	2007-57-1 USA 57
DATE RECEIVED:	10/18/2010	CONTACT:	Karen Lopez
DATE COMPLETED:	10/29/2010		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
18A	SGS-9B	Modified TO-15	4.0 "Hg	15 psi
19A	Lab Blank	Modified TO-15	NA	NA
19B	Lab Blank	Modified TO-15	NA	NA
20A	CCV	Modified TO-15	NA	NA
20B	CCV	Modified TO-15	NA	NA
21A	LCS	Modified TO-15	NA	NA
21AA	LCSD	Modified TO-15	NA	NA
21B	LCS	Modified TO-15	NA	NA
21BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 

DATE: 10/29/10

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
EPA Method TO-15
Stratus Environmental, Inc.
Workorder# 1010369**

Eighteen 1 Liter Summa Canister samples were received on October 18, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The results for TPH gasoline were reported as not-detected in samples SGS-1A, SGS-2A, SGS-2B, SGS-3A, SGS-3B, SGS-4A, SGS-4B, SGS-5A, SGS-5B, SGS-6A, SGS-7A, SGS-8A, SGS-8B, SGS-9A and SGS-9B since the chromatographic profiles were not consistent with a gasoline pattern.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



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

Client Sample ID: SGS-1A

Lab ID#: 1010369-01A

No Detections Were Found.

Client Sample ID: SGS-1B

Lab ID#: 1010369-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
TPH ref. to Gasoline (MW=100)	58	270	240	1100

Client Sample ID: SGS-2A

Lab ID#: 1010369-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	1.1	1.3	4.3	4.8
1,1-Difluoroethane	4.6	52	12	140

Client Sample ID: SGS-2B

Lab ID#: 1010369-04A

No Detections Were Found.

Client Sample ID: SGS-3A

Lab ID#: 1010369-05A

No Detections Were Found.

Client Sample ID: SGS-3B

Lab ID#: 1010369-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.2	1.5	3.9	4.8
Toluene	1.2	1.2	4.6	4.6

Client Sample ID: SGS-4A

Lab ID#: 1010369-07A



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

Client Sample ID: SGS-4A

Lab ID#: 1010369-07A

No Detections Were Found.

Client Sample ID: SGS-4B

Lab ID#: 1010369-08A

No Detections Were Found.

Client Sample ID: SGS-5A

Lab ID#: 1010369-09A

No Detections Were Found.

Client Sample ID: SGS-5B

Lab ID#: 1010369-10A

No Detections Were Found.

Client Sample ID: SGS-6A

Lab ID#: 1010369-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Difluoroethane	4.7	11	12	29

Client Sample ID: SGS-6B

Lab ID#: 1010369-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.2	19	3.7	61
Toluene	1.2	5.4	4.4	20
Ethyl Benzene	1.2	10	5.0	44
m,p-Xylene	1.2	16	5.0	68
o-Xylene	1.2	13	5.0	57
1,1-Difluoroethane	4.7	29	12	77
TPH ref. to Gasoline (MW=100)	58	110	240	450



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

Client Sample ID: SGS-7A

Lab ID#: 1010369-13A

No Detections Were Found.

Client Sample ID: SGS-7B

Lab ID#: 1010369-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.2	17	3.7	55
Toluene	1.2	4.8	4.4	18
Ethyl Benzene	1.2	9.3	5.0	40
m,p-Xylene	1.2	11	5.0	49
o-Xylene	1.2	11	5.0	50
1,1-Difluoroethane	4.7	16	12	43
TPH ref. to Gasoline (MW=100)	58	92	240	380

Client Sample ID: SGS-8A

Lab ID#: 1010369-15A

No Detections Were Found.

Client Sample ID: SGS-8B

Lab ID#: 1010369-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.1	7.9	3.6	25
Toluene	1.1	2.7	4.2	10
Ethyl Benzene	1.1	2.0	4.9	8.8
m,p-Xylene	1.1	4.3	4.9	18
o-Xylene	1.1	4.1	4.9	18

Client Sample ID: SGS-9A

Lab ID#: 1010369-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
----------	-------------------	---------------	--------------------	----------------



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

Client Sample ID: SGS-9A

Lab ID#: 1010369-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Difluoroethane	4.8	5.8	13	16

Client Sample ID: SGS-9B

Lab ID#: 1010369-18A

No Detections Were Found.



Client Sample ID: SGS-1A

Lab ID#: 1010369-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102321	Date of Collection: 10/17/10 12:07:00 P
Dil. Factor:	2.38	Date of Analysis: 10/23/10 06:24 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Naphthalene	4.8	Not Detected	25	Not Detected
1,1-Difluoroethane	4.8	Not Detected	13	Not Detected
TPH ref. to Gasoline (MW=100)	60	Not Detected	240	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	122	70-130
4-Bromofluorobenzene	99	70-130



Client Sample ID: SGS-1B

Lab ID#: 1010369-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102322	Date of Collection:	10/17/10 12:32:00 P
Dil. Factor:	2.33	Date of Analysis:	10/23/10 06:45 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Naphthalene	4.7	Not Detected	24	Not Detected
1,1-Difluoroethane	4.7	Not Detected	12	Not Detected
TPH ref. to Gasoline (MW=100)	58	270	240	1100

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	109	70-130
1,2-Dichloroethane-d4	123	70-130
4-Bromofluorobenzene	100	70-130



Client Sample ID: SGS-2A

Lab ID#: 1010369-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102323	Date of Collection:	10/17/10 10:28:00 A
Dil. Factor:	2.29	Date of Analysis:	10/23/10 07:06 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
Toluene	1.1	1.3	4.3	4.8
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected
Naphthalene	4.6	Not Detected	24	Not Detected
1,1-Difluoroethane	4.6	52	12	140
TPH ref. to Gasoline (MW=100)	57	Not Detected	230	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	96	70-130



Client Sample ID: SGS-2B

Lab ID#: 1010369-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102324	Date of Collection:	10/17/10 11:04:00 A
Dil. Factor:	2.33	Date of Analysis:	10/23/10 07:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Naphthalene	4.7	Not Detected	24	Not Detected
1,1-Difluoroethane	4.7	Not Detected	12	Not Detected
TPH ref. to Gasoline (MW=100)	58	Not Detected	240	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	123	70-130
4-Bromofluorobenzene	98	70-130



Client Sample ID: SGS-3A

Lab ID#: 1010369-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102325	Date of Collection: 10/18/10 11:32:00 A
Dil. Factor:	2.33	Date of Analysis: 10/23/10 07:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Naphthalene	4.7	Not Detected	24	Not Detected
1,1-Difluoroethane	4.7	Not Detected	12	Not Detected
TPH ref. to Gasoline (MW=100)	58	Not Detected	240	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	98	70-130



Client Sample ID: SGS-3B

Lab ID#: 1010369-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102326	Date of Collection: 10/18/10 12:41:00 P
Dil. Factor:	2.42	Date of Analysis: 10/23/10 08:21 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
Benzene	1.2	1.5	3.9	4.8
Toluene	1.2	1.2	4.6	4.6
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Naphthalene	4.8	Not Detected	25	Not Detected
1,1-Difluoroethane	4.8	Not Detected	13	Not Detected
TPH ref. to Gasoline (MW=100)	60	Not Detected	250	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	119	70-130
4-Bromofluorobenzene	98	70-130



Client Sample ID: SGS-4A

Lab ID#: 1010369-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102327	Date of Collection:	10/18/10 11:28:00 A
Dil. Factor:	2.33	Date of Analysis:	10/23/10 08:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Naphthalene	4.7	Not Detected	24	Not Detected
1,1-Difluoroethane	4.7	Not Detected	12	Not Detected
TPH ref. to Gasoline (MW=100)	58	Not Detected	240	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	121	70-130
4-Bromofluorobenzene	97	70-130



Client Sample ID: SGS-4B

Lab ID#: 1010369-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102328	Date of Collection: 10/18/10 12:11:00 P
Dil. Factor:	2.38	Date of Analysis: 10/23/10 09:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Naphthalene	4.8	Not Detected	25	Not Detected
1,1-Difluoroethane	4.8	Not Detected	13	Not Detected
TPH ref. to Gasoline (MW=100)	60	Not Detected	240	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	119	70-130
4-Bromofluorobenzene	96	70-130



Client Sample ID: SGS-5A

Lab ID#: 1010369-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102329	Date of Collection:	10/18/10 9:34:00 AM
Dil. Factor:	2.29	Date of Analysis:	10/23/10 09:20 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
Toluene	1.1	Not Detected	4.3	Not Detected
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected
Naphthalene	4.6	Not Detected	24	Not Detected
1,1-Difluoroethane	4.6	Not Detected	12	Not Detected
TPH ref. to Gasoline (MW=100)	57	Not Detected	230	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	120	70-130
4-Bromofluorobenzene	97	70-130



Client Sample ID: SGS-5B

Lab ID#: 1010369-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102330	Date of Collection: 10/18/10 10:35:00 A
Dil. Factor:	2.38	Date of Analysis: 10/23/10 09:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Naphthalene	4.8	Not Detected	25	Not Detected
1,1-Difluoroethane	4.8	Not Detected	13	Not Detected
TPH ref. to Gasoline (MW=100)	60	Not Detected	240	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	119	70-130
4-Bromofluorobenzene	93	70-130



Client Sample ID: SGS-6A

Lab ID#: 1010369-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102331	Date of Collection: 10/17/10 1:07:00 PM
Dil. Factor:	2.33	Date of Analysis: 10/23/10 10:02 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Naphthalene	4.7	Not Detected	24	Not Detected
1,1-Difluoroethane	4.7	11	12	29
TPH ref. to Gasoline (MW=100)	58	Not Detected	240	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	97	70-130



Client Sample ID: SGS-6B

Lab ID#: 1010369-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102410	Date of Collection:	10/18/10 8:03:00 AM
Dil. Factor:	2.33	Date of Analysis:	10/24/10 11:47 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
Benzene	1.2	19	3.7	61
Toluene	1.2	5.4	4.4	20
Ethyl Benzene	1.2	10	5.0	44
m,p-Xylene	1.2	16	5.0	68
o-Xylene	1.2	13	5.0	57
Naphthalene	4.7	Not Detected	24	Not Detected
1,1-Difluoroethane	4.7	29	12	77
TPH ref. to Gasoline (MW=100)	58	110	240	450

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	102	70-130



Client Sample ID: SGS-7A

Lab ID#: 1010369-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102411	Date of Collection:	10/18/10 8:36:00 AM
Dil. Factor:	2.42	Date of Analysis:	10/24/10 12:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Naphthalene	4.8	Not Detected	25	Not Detected
1,1-Difluoroethane	4.8	Not Detected	13	Not Detected
TPH ref. to Gasoline (MW=100)	60	Not Detected	250	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: SGS-7B

Lab ID#: 1010369-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102412	Date of Collection:	10/18/10 9:01:00 AM
Dil. Factor:	2.33	Date of Analysis:	10/24/10 12:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
Benzene	1.2	17	3.7	55
Toluene	1.2	4.8	4.4	18
Ethyl Benzene	1.2	9.3	5.0	40
m,p-Xylene	1.2	11	5.0	49
o-Xylene	1.2	11	5.0	50
Naphthalene	4.7	Not Detected	24	Not Detected
1,1-Difluoroethane	4.7	16	12	43
TPH ref. to Gasoline (MW=100)	58	92	240	380

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	102	70-130



Client Sample ID: SGS-8A

Lab ID#: 1010369-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102413	Date of Collection:	10/17/10 9:10:00 AM
Dil. Factor:	2.38	Date of Analysis:	10/24/10 01:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Naphthalene	4.8	Not Detected	25	Not Detected
1,1-Difluoroethane	4.8	Not Detected	13	Not Detected
TPH ref. to Gasoline (MW=100)	60	Not Detected	240	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	118	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: SGS-8B

Lab ID#: 1010369-16A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102414	Date of Collection:	10/17/10 9:46:00 AM
Dil. Factor:	2.24	Date of Analysis:	10/24/10 01:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
Benzene	1.1	7.9	3.6	25
Toluene	1.1	2.7	4.2	10
Ethyl Benzene	1.1	2.0	4.9	8.8
m,p-Xylene	1.1	4.3	4.9	18
o-Xylene	1.1	4.1	4.9	18
Naphthalene	4.5	Not Detected	23	Not Detected
1,1-Difluoroethane	4.5	Not Detected	12	Not Detected
TPH ref. to Gasoline (MW=100)	56	Not Detected	230	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130
1,2-Dichloroethane-d4	117	70-130
4-Bromofluorobenzene	99	70-130



Client Sample ID: SGS-9A

Lab ID#: 1010369-17A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102415	Date of Collection:	10/18/10 9:43:00 AM
Dil. Factor:	2.38	Date of Analysis:	10/24/10 01:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Naphthalene	4.8	Not Detected	25	Not Detected
1,1-Difluoroethane	4.8	5.8	13	16
TPH ref. to Gasoline (MW=100)	60	Not Detected	240	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	117	70-130
4-Bromofluorobenzene	98	70-130



Client Sample ID: SGS-9B

Lab ID#: 1010369-18A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102416	Date of Collection: 10/18/10 10:49:00 A
Dil. Factor:	2.33	Date of Analysis: 10/24/10 02:24 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Naphthalene	4.7	Not Detected	24	Not Detected
1,1-Difluoroethane	4.7	Not Detected	12	Not Detected
TPH ref. to Gasoline (MW=100)	58	Not Detected	240	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	118	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: Lab Blank

Lab ID#: 1010369-19A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102307c	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/23/10 11:32 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected
1,1-Difluoroethane	2.0	Not Detected	5.4	Not Detected
TPH ref. to Gasoline (MW=100)	25	Not Detected	100	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	96	70-130



Client Sample ID: Lab Blank

Lab ID#: 1010369-19B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102409a	Date of Collection: NA
Dil. Factor:	9.16	Date of Analysis: 10/24/10 11:05 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	4.6	Not Detected	16	Not Detected
Benzene	4.6	Not Detected	15	Not Detected
Toluene	4.6	Not Detected	17	Not Detected
Ethyl Benzene	4.6	Not Detected	20	Not Detected
m,p-Xylene	4.6	Not Detected	20	Not Detected
o-Xylene	4.6	Not Detected	20	Not Detected
Naphthalene	18	Not Detected	96	Not Detected
1,1-Difluoroethane	18	Not Detected	49	Not Detected
TPH ref. to Gasoline (MW=100)	230	Not Detected	940	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	95	70-130



Client Sample ID: CCV

Lab ID#: 1010369-20A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102302	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/23/10 08:38 AM

Compound	%Recovery
Methyl tert-butyl ether	97
Benzene	112
Toluene	114
Ethyl Benzene	111
m,p-Xylene	115
o-Xylene	112
Naphthalene	93
1,1-Difluoroethane	106
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	111	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	113	70-130



Client Sample ID: CCV

Lab ID#: 1010369-20B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102405	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/24/10 09:14 AM

Compound	%Recovery
Methyl tert-butyl ether	106
Benzene	111
Toluene	111
Ethyl Benzene	110
m,p-Xylene	112
o-Xylene	110
Naphthalene	95
1,1-Difluoroethane	116
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	109	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	111	70-130



Client Sample ID: LCS

Lab ID#: 1010369-21A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102303	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/23/10 09:11 AM

Compound	%Recovery
Methyl tert-butyl ether	107
Benzene	111
Toluene	108
Ethyl Benzene	113
m,p-Xylene	118
o-Xylene	114
Naphthalene	87
1,1-Difluoroethane	Not Spiked
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	107	70-130



Client Sample ID: LCSD

Lab ID#: 1010369-21AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102304	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/23/10 09:37 AM

Compound	%Recovery
Methyl tert-butyl ether	106
Benzene	107
Toluene	106
Ethyl Benzene	112
m,p-Xylene	115
o-Xylene	112
Naphthalene	87
1,1-Difluoroethane	Not Spiked
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	115	70-130
4-Bromofluorobenzene	108	70-130

Client Sample ID: LCS

Lab ID#: 1010369-21B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102403	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/24/10 08:27 AM

Compound	%Recovery
Methyl tert-butyl ether	102
Benzene	109
Toluene	104
Ethyl Benzene	106
m,p-Xylene	110
o-Xylene	107
Naphthalene	71
1,1-Difluoroethane	Not Spiked
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	109	70-130
1,2-Dichloroethane-d4	122	70-130
4-Bromofluorobenzene	110	70-130

Client Sample ID: LCSD

Lab ID#: 1010369-21BB

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2102404	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/24/10 08:46 AM

Compound	%Recovery
Methyl tert-butyl ether	98
Benzene	106
Toluene	103
Ethyl Benzene	109
m,p-Xylene	111
o-Xylene	107
Naphthalene	75
1,1-Difluoroethane	Not Spiked
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	109	70-130
1,2-Dichloroethane-d4	118	70-130
4-Bromofluorobenzene	110	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Scott Bittinger
 Collected by: (Print and Sign) Levi Ford
 Company Stratus Env. Email lford@stratusinc.net
 Address 3330 Cameron Park Dr. City Cameron Park State CA Zip 95682
 Phone 676 6004 Fax 676 6005

Project Info: P.O. # _____ Project # <u>2007-0057-01</u> Project Name <u>USA 57</u>	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	<small>Lab Use Only</small> Pressurized by: _____ Date: _____ Pressurization Gas: _____ N ₂ He
-----------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
01A	SGS - 1A	36541	10/17	1207	TPHG, Benzene, Toluene, Ethylbenzene, MTBE	-29	-5		
02A	- 1B	36507	↓	1232	Total xylenes, Naphthalene	26	-5		
03A	- 2A	34102	↓	1028	1,1-DFA by TO-15	-17	-4		
04A	- 2B	23832	↓	1104		-29	-5		
05A	- 3A	35553	10/18	1132		-28.5	-3		
06A	- 3B	9375	↓	1241		-29	-5		
07A	- 4A	3011	↓	1128		-29	-5		
08A	- 4B	3009	↓	1211		-30	-5		
09A	- 5A	31795	↓	0934		-30	-5		
10A	- 5B	2135	↓	1035		-29	-5		

Relinquished by: (signature) <u>Levi Ford</u> Date/Time <u>10/18/2010 1530</u>	Received by: (signature) <u>Bruce Whiteaker</u> Date/Time <u>ATL 10/18/10 1530</u>	Notes:
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name <u>Hand Del.</u>	Air Bill # _____	Temp (°C) <u>N/A</u>	Condition <u>Good</u>	Custody Seals Intact? Yes No <u>None</u>	Work Order # <u>1010369</u>
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CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Scott Bittinger
 Collected by: (Print and Sign) Levi Ford
 Company Stratus Env. Email _____
 Address _____ City _____ State _____ Zip _____
 Phone _____ Fax _____

Project Info: P.O. # _____ Project # <u>2007-0057-01</u> Project Name <u>USA 57</u>	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush _____ specify	<i>Lab Use Only</i> Pressurized by: _____ Date: _____ Pressurization Gas: _____ N ₂ He
-----------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial (psi)	Final (psi)	Receipt	Final (psi)
11A	SGS-6A	14508	10/17	1307	TPHC, Benzene, Toluene, Ethylbenzene, MTBE, Total Xylenes, Naphthalene, 11-PFA by TO-15	-29.5	-5		
12A	-6B	34104	10/18	0803		-29	-5		
13A	-7A	34670	↓	0836		-28	-5		
14A	-7B	34660	↓	0901		-27	-5		
15A	-8A	37379	10/17	0910		-28	-5		
16A	-8B	36412	↓	0946		-30	-5		
17A	-9A	1350	10/18	0943		-25	-5		
18A	↓ -9B	12388	↓	1049		-29.5	-5		

Relinquished by: (signature) <u>Levi Ford</u> Date/Time <u>10/18/2010 1530</u>	Received by: (signature) <u>Bruce Whitaker ATC</u> Date/Time <u>10/18/10 1530</u>	Notes:
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>Hand Del.</u>		<u>N/A</u>	<u>Good</u>	Yes No <u>None</u>	<u>1010369</u>

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A EDF FILE

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<u>Submittal Title:</u>	Soil Gas Sampling Report
<u>Facility Global ID:</u>	T0600101808
<u>Facility Name:</u>	USA PETROLEUM
<u>File Name:</u>	1010369.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	12.186.106.98
<u>Submittal Date/Time:</u>	11/3/2010 7:37:27 AM
<u>Confirmation Number:</u>	6814249694

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