

NO 232 /



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Cameron Park, California 95682
(530) 676-6004 - Fax: (530) 676-6005

Rec'd 8/24/05

August 24, 2005
Project No. 2007-0057-01

Mr. Barney Chan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Second Dual Phase Extraction Event Report
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

Dear Mr. Chan:

Stratus Environmental, Inc. (Stratus), on behalf of USA Gasoline Corporation (USA), has prepared this report to document completion of a second petroleum hydrocarbon mass removal event at former USA Service Station No. 57 (the site), located at 10700 MacArthur Boulevard, Oakland, California (see Figure 1). Petroleum hydrocarbons were removed from the subsurface using dual phase extraction (DPE) technology in June and July 2005. Completion of intermittent DPE as an interim remedial action measure was approved by Alameda County Health Care Services Agency (ACHCSA) in a letter dated May 9, 2005. This report presents the DPE procedures adopted, tabulated summaries of field measurements and analytical results, and a discussion of the results.

SITE BACKGROUND

The site is currently an undeveloped, partially paved parcel situated on the western corner of the intersection of 108th Avenue and Foothills Boulevard in Oakland, California, approximately 400 feet west of Interstate 580. This parcel comprises the southeastern corner of the Foothills Square Shopping Center. It is our understanding that the property owner intends to re-develop the portion of the Foothills Square Shopping Center formerly occupied by the site.

USA Station 57 was closed, and the gasoline underground storage tanks (UST's) were removed, in July 1994. Approximately 775 cubic yards of impacted soil was excavated from the vicinity of the UST pit and product lines between August and October 1994. The approximate former locations of the UST's and dispenser islands are shown on Figure 2.

ENVIRONMENTAL HEALTH SERVICES

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RECEIVED

Eight groundwater monitoring wells (S-1, S-2, and MW-3 through MW-8) were installed, and twelve exploratory soil borings (A through D and B-1 through B-8) were advanced, in order to assess the extent of subsurface petroleum hydrocarbon impact beneath the site. This site characterization work was completed between 1987 and 1995. Table 1 summarizes details pertinent to the drilling and well construction activities. The well network has been monitored and sampled on a quarterly basis since 1995. Depth to groundwater has been reported in the monitoring wells at depths ranging from approximately 7 to 21 feet below ground surface (bgs) since groundwater monitoring was initiated.

Petroleum hydrocarbon impact to soil extends to the saturated zone in the vicinity of the former UST complex and fuel dispenser islands. Total petroleum hydrocarbons as gasoline (TPHG), benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds), methyl tertiary butyl ether (MTBE), and tertiary butyl alcohol (TBA) have historically been reported in groundwater samples collected beneath the site. The area of impacted groundwater is predominately situated in the vicinity of wells S-1, S-2, and MW-3.

An 18-day DPE event, using wells S-1, S-2, and MW-3 for extraction, was completed in July 2004. Wells MW-4 through MW-8 were used for observation of water levels and induced vacuum. Petroleum hydrocarbon mass removal rates of less than one pound per day of TPHG were achieved during the event. A *Dual Phase Extraction Test Report* was submitted on October 15, 2004, to document completion of this initial DPE event.

DUAL PHASE EXTRACTION EVENT

Prior to mobilizing to the site, a permit to discharge treated air vapors to the atmosphere was obtained from the Bay Area Air Quality Management District (BAAQMD), and a permit to discharge treated groundwater to the sanitary sewer was secured from the East Bay Municipal Utility District (EBMUD). BAAQMD, EBMUD, and the property owner were notified regarding the DPE event schedule. A site-specific health and safety plan was developed and discussed prior to conducting field activities.

Prior to initiating DPE, the heads of the wells selected for extraction (S-1, S-2, and MW-3) were temporarily modified to provide a seal for vacuum conditions and to facilitate insertion of a drop-tube to simultaneously extract soil vapors and groundwater. The wellheads of wells MW-4 through MW-8 were temporarily modified in order to allow for the measurement of induced vacuum. Temporary fencing was installed to isolate the public from the extraction area.

Dual Phase Extraction Equipment

A CBA Equipment, LLC, 400 cubic feet per minute (cfm) thermal oxidizer with a 25-horse power (hp) liquid-ring pump was used to apply vacuum and extract soil vapors

and groundwater from wells S-1, S-2, and MW-3. The trailer-mounted system also housed a 100-gallon water/condensate knockout tank and a 2-hp liquid discharge pump to drain the knockout tank. A 49-hp propane generator rated at 68 KVA was used to power the DPE unit. Liquid propane was used as supplemental fuel to maintain combustion temperatures in the thermal oxidizer.

The liquid ring pump was used to extract groundwater and soil vapors from the subsurface. The extracted groundwater and soil vapor (dual phase flow) were directed to the knockout tank. The separated vapors from the knockout tank were directed to the thermal oxidizer for abatement before discharging to the atmosphere. The groundwater in the knockout tank of the DPE unit was treated using two USFilter Westates 500-pound granular activated carbon vessels, connected in series, prior to the discharge to the sanitary sewer.

Dual Phase Extraction Procedure

The DPE event was conducted by lowering a 1-inch diameter drop tube into each extraction well. The drop tube was situated near the base of each well casing. The liquid ring pump was used to apply high vacuum (23 to 25 inches Hg) to the drop tube to extract groundwater and soil vapors from the well. Maximum available vacuum from the liquid ring pump was 28 inches Hg, or approximately 380 inches of water column.

Wells MW-4 through MW-8 were used as observation wells to monitor for changes in groundwater elevation and/or induced vacuums during the DPE event. Magnahelic gauges were used to measure induced vacuum. Hand-operated electric water-level sounders were used to measure depth-to-groundwater in the observation wells. The DPE system was equipped to measure the groundwater extraction rate (discharge from the centrifugal pump after the knockout tank) and the soil vapor flow rate. A flow totalizer was installed between the carbon vessels and the sewer discharge point to record the volume of treated groundwater discharged during the DPE event. Influent soil vapor concentrations were monitored using a photo-ionization detector (PID). Field data sheets documenting measurements recorded during the DPE event are presented in Appendix A. Table 2 summarizes observations recorded on the field data sheets.

Soil vapor and groundwater samples were collected during the DPE event to evaluate performance of the DPE system and to facilitate compliance with the air and water discharge permits. Soil vapor samples were collected in laboratory supplied tedlar bags, and groundwater samples were containerized in properly preserved glass vials (voas). Soil vapor samples were stored in a protective container at ambient air temperature. Groundwater samples were stored in an ice-chilled cooler until relinquishment to a laboratory representative.

Laboratory Analytical Methods

Groundwater samples collected during the DPE event were forwarded to Alpha Analytical, Inc. (Alpha), a California state-certified laboratory (ELAP #2019), for chemical analysis under strict chain-of-custody procedures. Air samples were forwarded to Alpha or Severn Trent Laboratories (STL [ELAP #2496]) for chemical analysis. The samples were analyzed for TPHG using EPA Method SW8015B/DHS LUFT Manual (Alpha) or EPA Method SW8260B (STL), and for BTEX, MTBE, TBA, ethyl tertiary butyl ether (ETBE), di-isopropyl ether (DIPE), and tertiary amyl methyl ether (TAME) using EPA Method SW8260B. Soil vapor analytical results are presented in Table 3, and groundwater analytical results are presented in Table 4. Certified analytical reports with chain-of-custody documentation are included in Appendix B.

DPE Event Results

Field data collected from extraction and observation wells are summarized in Table 2.

- The applied wellhead vacuum ranged from 23 to 25 inches Hg, with influent soil vapor flow rates in the range of 23 to 39.4 cfm, and an average groundwater extraction rate of 1.12 gpm. A total of 34,340 gallons of extracted groundwater was treated using the carbon vessels and discharged to the sanitary sewer.
- Drawdowns of 0.18 feet and 2.27 feet were observed in observation wells MW-5 and MW-8, respectively. DPE appears to have caused "mounding" of groundwater elevations in the vicinity of wells MW-4 and MW-7.
- Influent TPHG, benzene, and MTBE concentrations in soil vapor were reported at 160 milligrams per cubic meter (mg/m^3), $4.4 \text{ mg}/\text{m}^3$, and $3.6 \text{ mg}/\text{m}^3$ for a sample collected on the first day of the DPE event. Influent petroleum concentrations in soil vapor decreased to levels below laboratory detection limits near the end of the DPE event.
- Influent TPHG, benzene, and MTBE concentrations in groundwater were reported at 590 micrograms per liter ($\mu\text{g}/\text{L}$), $11 \mu\text{g}/\text{L}$, and $62 \mu\text{g}/\text{L}$, respectively, for a sample collected on the first day of the DPE event. MTBE ($2.2 \mu\text{g}/\text{L}$) was reported for an influent groundwater sample collected near the end of the DPE event; TPHG and benzene were both reported below laboratory detection limits.
- Based on influent flow rates and concentrations, approximately 6.449 pounds and 0.082 pounds of TPHG were extracted in vapor and aqueous phases, respectively, during this DPE event. A total of approximately 19.79 pounds of TPHG in vapor phase and 0.97 pounds of TPHG in aqueous phase have been removed from the subsurface as a result of the two DPE events. A summary of the petroleum

hydrocarbon mass extraction rates for soil vapor and groundwater is presented in Table 5.

- Soil vapor and groundwater concentrations in effluent samples were below laboratory detection limits.

DISCUSSION

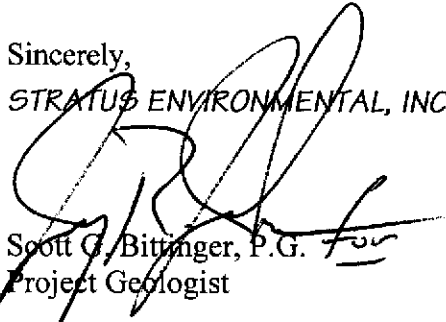
Petroleum hydrocarbon concentrations in extracted soil vapor and groundwater appear to be relatively low given historical soil and groundwater analytical data. Soil vapor flow rates were maintained lower during the second event compared to the July 2004 event to increase groundwater extraction rates. Although DPE appears to be a viable remedial technology for this site, the wells situated within the area of petroleum hydrocarbon impact (S-1, S-2, MW-3) are screened below the static water table surface, with the screening interval extending into weathered bedrock beneath the site. The installation of shallow screened extraction wells is recommended to enhance the performance of the DPE mass extraction events. Stratus will prepare and submit a work plan during the third quarter 2005, to install three extraction wells, appropriately screened for DPE, within the area of known petroleum hydrocarbon impact.

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 inexact art. Judgments leading to conclusions and recommendations are generally made with an incomplete knowledge of the subsurface conditions present. More extensive studies may be performed to reduce uncertainties. This report is solely for the use and information of our client unless otherwise noted.

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

Sincerely,
STRATUS ENVIRONMENTAL, INC.



Scott G. Bittinger, P.G.
Project Geologist



Gowri S. Kowtha, P.E.
Project Manager

Attachments:	Table 1	Drilling and Well Construction Summary
	Table 2	DPE Event Field Observation Summary
	Table 3	Soil Vapor Analytical Results
	Table 4	Groundwater Analytical Results
	Table 5	Petroleum Hydrocarbon Mass Extraction Summary
	Figure 1	Site Location Map
	Figure 2	Site Plan
	Appendix A	Field Data Sheets
	Appendix B	Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Charles Miller, USA Gasoline Corporation
Mr. Ken Phares, Jay-Phares Corporation
Mr. Peter McIntyre, AEI Consultants

TABLE 1
DRILLING AND WELL CONSTRUCTION SUMMARY

Former USA Station #57
10700 MacArthur Boulevard
Oakland, California

ID	Date	Boring Dia. (inches)	Boring Depth (feet bgs)	Casing Diameter (inches)	Casing Depth (feet bgs)	Slot Size (inches)	Screen Interval (feet bgs)
<u>Monitoring Wells</u>							
S-1	2/12/87	8	40	3	40	0.02	20 - 40
S-2	2/12/87	8	40	3	40	0.02	20 - 40
MW-3	2/28/95	10	44	4	44	0.02	24 - 44
MW-4	11/20/95	10	40.5	4	40.5	0.02	10 - 40.5
MW-5	11/20/95	10	41	4	40	0.02	10 - 40
MW-6	11/20/95	10	40.5	4	40.5	0.02	10 - 40.5
MW-7	11/21/95	10	41	4	40	0.02	10 - 40
MW-8	11/21/95	10	35.5	4	35	0.02	10 - 35
<u>Soil Borings</u>							
A	2/12/87	8	20				
B	2/12/87	6	20				
C	2/12/87	6	20				
D	2/12/87	6	20				
B-1	2/28/95	8	46				
B-2	3/1/95	8	31				
B-3	3/1/95	8	21				
B-4	3/2/95	8	12				
B-5	3/2/95	8	12				
B-6	3/2/95	8	12				
B-7	3/2/95	8	12				
B-8	3/2/95	8	12				

TABLE 2
DPE EVENT FIELD OBSERVATION SUMMARY
2nd DPE Event - June/July 2005
Former USA Station No. 57
10700 MacArthur Boulevard
Oakland, California

Date	Hour Meter Reading	TE days	Appl Vac "Hg	Air Flow cfm	Totalizer Reading gallons	GW Ext Rate gpm	Inf PID ppmv	Oper Temp deg F													
									MW-4		MW-5		MW-6			MW-7			MW-8		
									DTW	DD	DTW	DD	Vac	DTW	DD	Vac	DTW	DD	Vac	DTW	DD
06/06/05	Begin June/July 2005 DPE Event, Using Wells S-1, S-2, and MW-3 for Extraction; Hour Meter Reading Prior to Test Start up = 3361.2																				
06/06/05	3361.20	--	24.00	26.6	23,710	--	125.0	1,471	6.65	--	10.91	--	0.00	15.67	--	0.00	14.79	--	0.00	14.08	--
06/07/05	3383.60	0.93	24.00	NM	25,480	1.32	NM	1,443	NM	NM	NM	NM	0.02	NM	NM	0.00	NM	NM	0.00	NM	NM
06/09/05	3416.60	2.31	23.00	27.7	27,160	0.85	6.0	1,473	6.10	-0.55	10.62	-0.29	0.00	14.58	-1.09	0.00	13.58	-1.21	0.00	14.90	0.82
06/14/05	3468.10	4.45	24.00	28.4	31,000	1.24	6.0	1,450	6.35	-0.30	10.80	-0.11	0.00	15.60	-0.07	0.00	13.56	-1.23	0.00	14.81	0.73
06/16/05	3515.00	6.41	25.00	23.0	34,450	1.23	5.0	1,472	6.33	-0.32	10.98	0.07	0.00	15.85	0.18	0.00	13.97	-0.82	0.00	14.98	0.90
06/21/05	3638.20	11.54	25.00	39.4	43,130	1.17	0.0	1,470	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
06/28/05	3804.80	18.48	24.00	39.3	53,540	1.04	NM	1,456	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
07/01/05	3877.30	21.50	24.00	31.9	57,950	1.01	5.0	1,473	6.46	-0.19	11.09	0.18	0.00	15.65	-0.02	0.00	14.18	-0.61	0.00	16.35	2.27
07/01/05	3878.10	21.54	Event End Hr. Meter		58,050		Discontinue DPE Event														
Distance to Nearest Extraction Well									110		170		110			70			50		
Screening Interval									10 - 40.5		10 - 40		10 - 40.5			10 - 40.5			10 - 35		
Notes: TE - Time Elapsed, days Appl - Applied Oper - Operating Vac - Vacuum DTW - depth to groundwater " WC - Inches water column * = time elapsed based on hour meter readings ppmv - parts per million by volume Temp - Temperature deg F - degree Fahrenheit Ext. - Extraction cfm - cubic feet per minute Inf - Influent DD - Drawdown GW Ext - Groundwater Extraction PID - Photo Ionization Detector All induced vacuum measured in observation wells were in "WC gpm - gallons per minute "Hg - Inches Mercury bgs - below ground surface NM - Not measured																					

TABLE 3
SOIL VAPOR ANALYTICAL RESULTS
2nd DPE Event - June/July 2005
Former USA Station No. 57
10700 MacArthur Boulevard
Oakland, California

Sample Date	Sample Time	Sample ID	TPHG	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA
06/06/05	11:18	SYS INF Air	160	4.4	0.72	0.55	1.35	3.6	<7.5
06/06/05	11:15	Eff Air	<15	<0.30	<0.30	<0.30	<0.30	<0.30	<7.5
06/28/05	06:16	Inf Air	<15	<0.15	<0.15	<0.15	<0.15	<0.15	NA
07/01/05	05:41	SYS INF AIR*	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
07/01/05	05:39	EFF AIR*	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0

Notes

All air sample values reported in milligrams per cubic meter (mg/m³)

TPHG = Total petroleum hydrocarbons as gasoline

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

MTBE = Methyl tertiary butyl ether

TBA = Tertiary butyl alcohol

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

DIPE = Di-isopropyl ether

DIPE, ETBE, and TAME were reported below laboratory reporting limits in all samples.

NA = Not Analyzed

Analytical Laboratory

Alpha Analytical, Inc. (Alpha [ELAP #2019])

* = Analyzed by Severn Trent Laboratories (STL [ELAP #2496])

Analytical Methods

TPHG analyzed by EPA Method SW8015B/DHS LUFT Manual (Alpha) & by 8260B (STL)

BTEX, MTBE, TBA, DIPE, TAME, and ETBE analyzed by EPA Method SW8260B

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
2nd DPE Event - June/July 2005
Former USA Station No. 57
10700 MacArthur Boulevard
Oakland, California

Sample Date	Sample Time	Sample ID	TPHG	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA	DIPE	ETBE	TAME
06/06/05	11:34	Influent	590	11	3.8	6.1	33	62	140	<1.0	<1.0	<1.0
06/07/05	09:41	MID (Fluent)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
06/07/05	09:39	EFF	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
06/28/05	06:08	Influent	<50	<0.50	<0.50	<0.50	<0.50	2.6	52	<1.0	<1.0	<1.0
06/28/05	06:04	Mid GAC	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
06/28/05	06:00	Effluent	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
07/01/05	05:46	INF	<50	<0.50	<0.50	<0.50	<0.50	2.2	64	<1.0	<1.0	<1.0
07/01/05	05:54	GAC-1	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
07/01/05	05:58	EFF	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0

All water sample values reported in micrograms per liter (µg/L)

TPHG = Total petroleum hydrocarbons as gasoline

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

MTBE = Methyl tertiary butyl ether

TBA = Tertiary butyl alcohol

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

Analytical Laboratory

Alpha Analytical, Inc. (ELAP #2019)

Analytical Methods

TPHG analyzed by EPA Method SW8015B/DHS LUFT Manual

BTEX, MTBE, TBA, DIPE, ETBE, & TAME analyzed by
EPA Method SW8260B

TABLE 5
PETROLEUM HYDROCARBON MASS EXTRACTION SUMMARY
2nd DPE Event June/July 2005
Former USA Station No. 57
10700 MacArthur Boulevard
Oakland, California

Date	Time Elapsed (days)	Flowrate (cfm)	Influent Concentration (mg/m ³)			Soil Vapor Extraction Rate from Wells (lbs/day)			Cumulative Mass (TPHG) Removed	
			TPHG	Benzene	MTBE	TPHG	Benzene	MTBE	Period ¹ lbs	Total lbs
Petroleum hydrocarbon mass removed during first DPE event conducted during July 2004									13.34	13.34
06/06/05	-	26.6	160	4.4	3.6	0.378	0.010	0.009	0.378	13.718
06/28/05	18.48	39.3	<15	<0.15	<0.15	<0.052	<0.001	<0.001	3.980	17.698
07/01/05	21.54	31.9	<50	<0.50	<0.50	<0.142	<0.001	<0.001	<2.091	19.789

Date	Time Elapsed (days)	Volume of groundwater extracted ² , gallons	Influent Concentration (µg/L)			Mass Extracted from groundwater (lbs)			Cumulative Mass Removed	
			TPHG	Benzene	MTBE	TPHG	Benzene	MTBE	TPHG lbs	MTBE lbs
Petroleum hydrocarbon mass removed during first DPE event conducted during July 2004									0.015	0.00149
06/06/05	-	56 ³	590	11	62	0.00028	0.00001	0.00003	0.01528	0.00152
06/28/05	18.48	29,830	<50.0	<0.50	2.6	0.07966	0.00143	0.00804	0.09493	0.00956
07/01/05	21.54	4,510	<50.0	<0.50	2.2	<0.00188	<0.00002	0.00009	0.09682	0.00965

Sample Calculations

$$\text{Ext. Rate from Wells (vapor)} = \frac{40 \text{ cu ft}}{\text{min}} \times \frac{8,400 \text{ mg}}{\text{cu meter}} \times \frac{\text{lb}}{453,593 \text{ mg}} \times \frac{1,440 \text{ min}}{\text{day}} \times \frac{\text{cu meter}}{35.314 \text{ cu ft}} = 30.21 \text{ lbs/day}$$

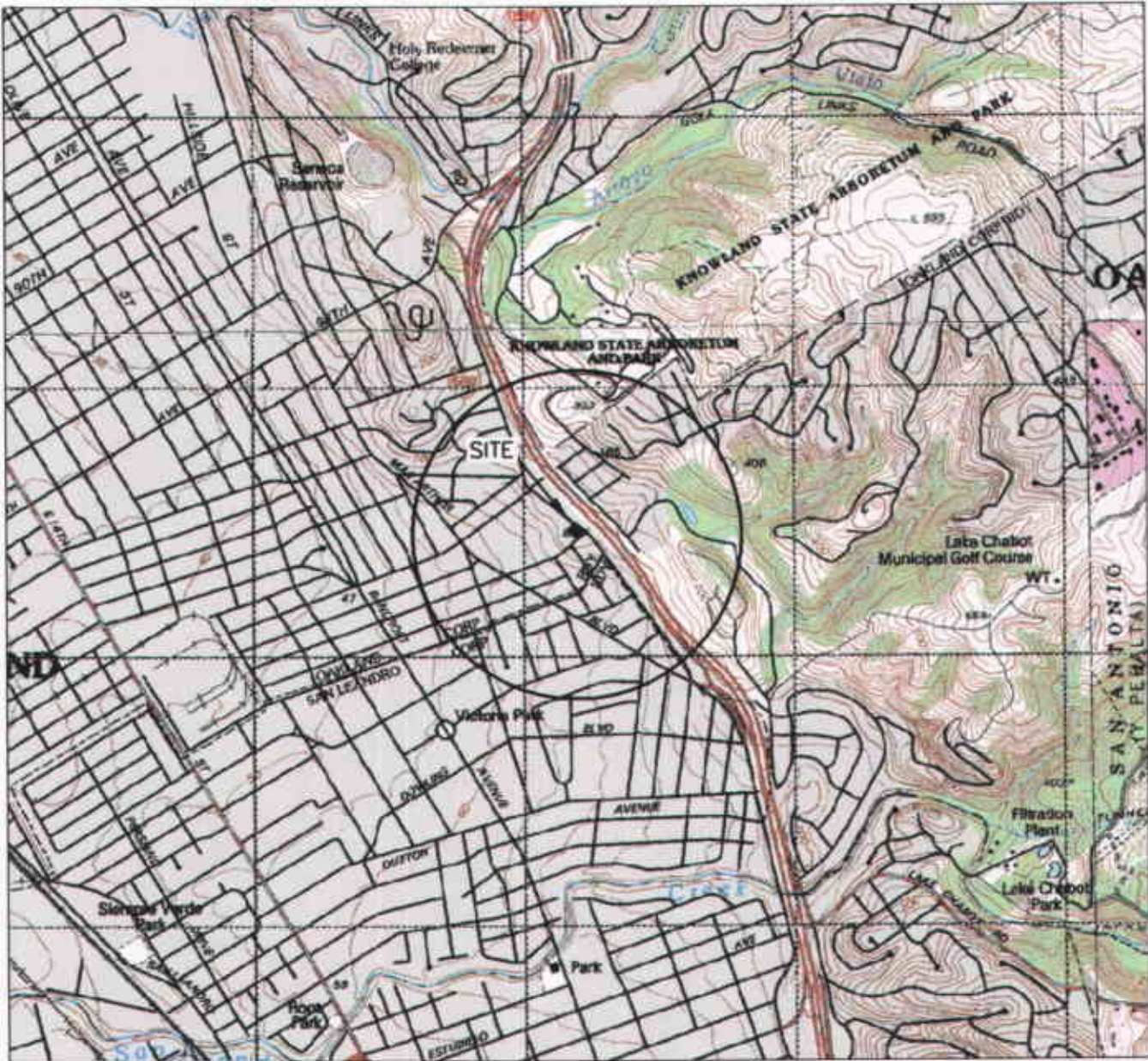
$$\text{Mass removed from groundwater} = \text{concentration } (\mu\text{g/L}) \times \text{gallons extracted} \times (2.2046 \times 10^{-9}) (\text{lb/mg}) / 0.26418 (\text{gal/L})$$

¹ For mass estimates between the sampling dates, average mass extraction rate and time elapsed (operational uptime) between the sampling events were used

² Volume estimated based on flow totalizer measurements taken on the sampling days

³ Volume estimated based on average groundwater extraction rate and the time elapsed between the sample collection and start-up

The mass extraction rate is calculated by multiplying the mass extracted per day by the operational uptime for the period.



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

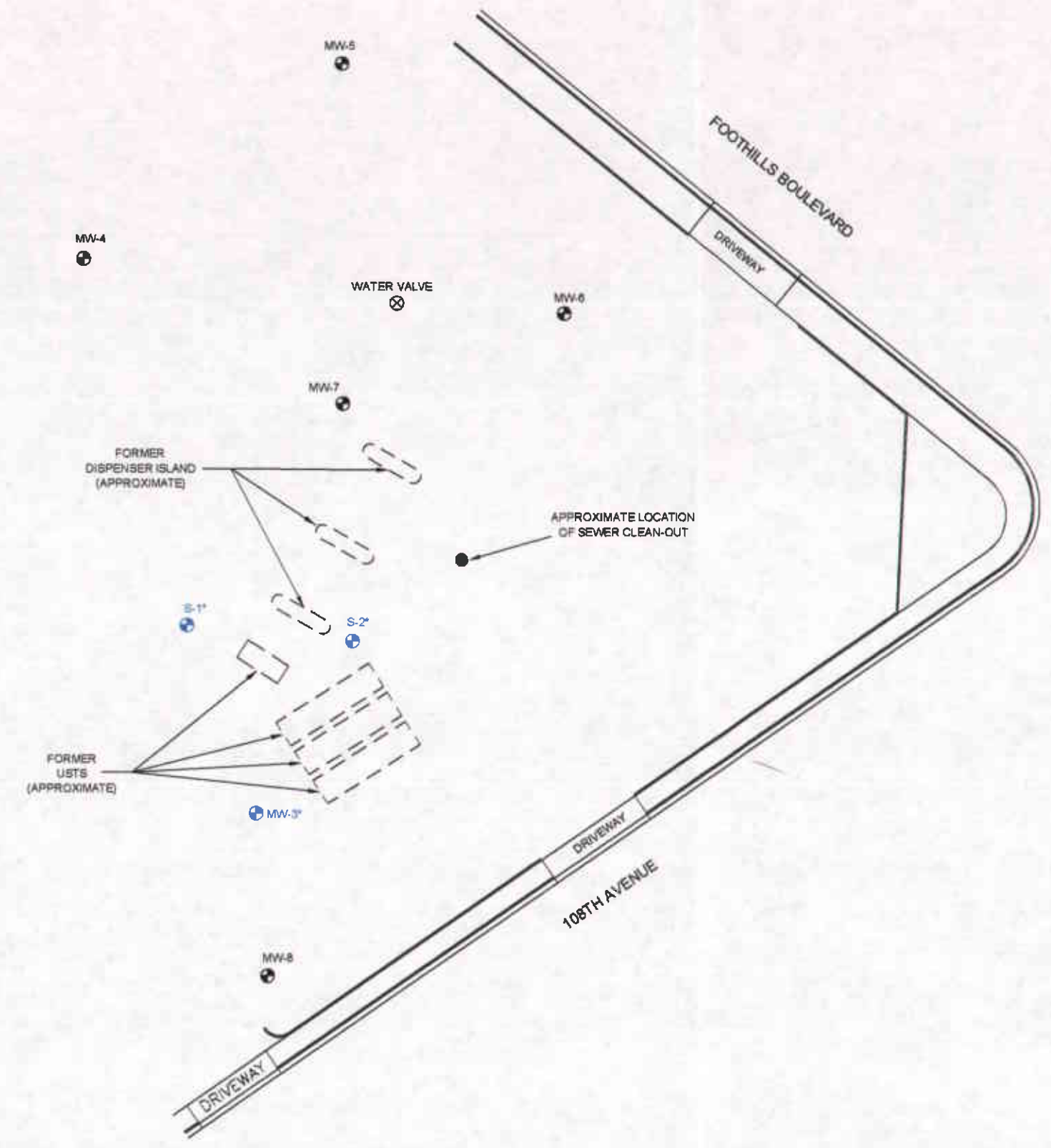
1

PROJECT NO.
 2007-0057-01

USA STRATUS Location Map.dwg
 Jul 21, 2006
 JHP
 USAUT/Quinnery



- LEGEND
- ⊕ MW-1 MONITORING WELL LOCATION
 - ⊗ WATER VALVE LOCATION
 - * WELLS USED FOR EXTRACTION DURING DPE EVENT



DATE: 07/21/2006
BY: [illegible]
JOB: [illegible]

STRATUS
ENVIRONMENTAL, INC.



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

SITE PLAN

FIGURE
2
PROJECT NO.
2007-0057-01

APPENDIX A
FIELD DATA SHEETS

Site Name & Address: former USA Service Station No. 57
10700 McArthur Boulevard



Date: 6-6-05
 Operators: Marty - CHILL

Equipment Model and Serial Nos.: 400TCHT M1241

Test Well ID: S-1, S-2, and MW-3

PID Model: Mm. RHE 2000

Temp Flow → 4" φ
 0023710

Date & Time	Hour Meter Reading hrs	Applied Vacuum "wg"	Inf Air Flow Rate cfm	Dilution Air Flow Rate cfm	Sys Inf Air Flow Rate FPM cfm	Flow totalizer (DPE unit) gallons	Influent Air Temp deg F	Control Temp deg F	Effluent Air Temp deg F	Influent PID ppmv	Effluent PID ppmv	Comments/Notes
Measure DTW in all the monitoring wells prior to commencement of test and also the total depth of test wells. Measure the stinger depth to each extraction well. Measure DTW in all wells after completion of all the tests. Record hour meter reading of the generator at the start and at the end.												
6-6-05 1045	3361.2	24	N/m	⊗	305	0023710	100	1471	$\frac{1378}{430}$	125	⊗	
6-7-05	3383.6	24	-	⊗	-	002580	125	1443	$\frac{1394}{431}$	140	N/m	Influent water 1134 SWS INF Air 1118 EFF Air 1115
6-9-05 0600	3416.6	23	N/m	⊗	$\frac{107}{317}$	27160	110	1473	$\frac{1410}{457}$	6	⊗	Unit Restart 6-8-05 1500 Generator 4368 HRS
6-14-05 0700	3468.1	24	N/m	⊗	$\frac{104}{325}$	31000	110	1480	$\frac{1370}{446}$	6	⊗	
6-14-05	106.9	HRS	Total			7290	GALS	Total				

Site Name & Address: Turner USA Service Station No. 57
10700 McArthur Boulevard
 Test Well ID: S-1, S-2, & MW-3

Date: 6-6-05
 Test Operators: CHILL-MONT

 ORIGINAL

Date & Time	Wellhead/Induced Vacuum ("WC) & Depth to Water (feet bgs)											Comments/Notes
	S-1	S-2	MW-3	MW-6		MW-7		MW-8		MW-4	MW-5	
	Vac	Vac	Vac	Vac	DTW	Vac	DTW	Vac	DTW	DTW	DTW	
Measure DTW in all the monitoring wells prior to commencement of test and also the total depth of test wells. Measure depth to water before and after installation of the well head modification. Measure the stinger depth to each extraction well. Measure DT												
6-6-05 0843	DTW 13.38	DTW 15.61	DTW 10.33	Q	15.67	Q	14.79	Q	14.08	6.65	10.91	
6-6-05 1150	7.150	7.150	7.150	Q	-	Q	14.79	Q	-	-	-	
												System Restart 6:05 1500
6-9-05 0600	7.150	7.150	7.150	Q	14.58	Q	13.58	Q	14.90	6.10	10.62	
												Still Problem with Propane Gen. - Switch Over to Diesel Gen USE Tanks on Trailer For Propane
6-14-05 0700	7.150	7.150	7.150	Q	15.60	Q	13.56	Q	14.81	6.35	10.80	

Site Name & Address Former USA Service Station No. 57
10700 McArthur Boulevard

Date 6/16/05
 Test Operators CHILL

Equipment Model and Serial Nos. 400TCAT M1241
 PID Model _____

Test Well ID S-1, S-2, and MW-3

*Temp
Plan*

Date & Time	Hour Meter Reading hrs	Applied Vacuum "Wet" ^{H9}	Infl Air Flow Rate cfm	Dilution Air Flow Rate cfm	Sys Infl Air Flow Rate cfm	Flow totalizer (DPE unit) gallons	Influent Air Temp deg F	Control Temp deg F	Effluent Air Temp deg F	Influent PID ppmv	Effluent PID ppmv	Comments/Notes
Measure DTW in all the monitoring wells prior to commencement of test and also the total depth of test wells. Measure the stinger depth to each extraction well. Measure DTW in all wells after completion of all the tests. Record hour meter reading of the generator at the start and at the end.												
6/16/05 0800	03515.0	25	—	—	103 264	34450	110	1472	450 1405	5	0	
6/21/05 0900	03638.2	25	—	—	108 451	43130	110	1470	1399	0	0	
6/28/05 0530	03804.8	24	—	—	112 450	53540	115	1456	453 1406	—	—	Sample Infl Air 5 all 3 wells
7-1-05 0500	03877.3	24	—	—	106 360	57950	115	147.3	450 1400	5	0	Infl Air 1420 Sys Infl Air 0541 EFF AIR 0539
System off	3878.1					58050						Infl 0540 CAL-1 0554 EFF 0558
												600% Propane Filled on 6-29-05 Baker Tank wet Bottom In Tank CUM HRS 2974.1

APPENDIX B

**CERTIFIED ANALYTICAL REPORTS AND
CHAIN-OF-CUSTODY DOCUMENTATION**



ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6002
Fax: (530) 676-6005
Date Received 06/07/05

JUL 01 2005

Job#: USA 57

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

Client ID :	Parameter	Concentration	Reporting	Date	Date
			Limit	Sampled	Analyzed
SYS INF Air Lab ID : STR05060702-01A	TPH Purgeable	160	15 mg/m ³	06/06/05	06/09/05
	Tertiary Butyl Alcohol (TBA)	ND	7.5 mg/m ³	06/06/05	06/09/05
	Methyl tert-butyl ether (MTBE)	3.6	0.15 mg/m ³	06/06/05	06/09/05
	Di-isopropyl Ether (DIPE)	ND	0.30 mg/m ³	06/06/05	06/09/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	0.30 mg/m ³	06/06/05	06/09/05
	Benzene	4.4	0.15 mg/m ³	06/06/05	06/09/05
	Tertiary Amyl Methyl Ether (TAME)	ND	0.30 mg/m ³	06/06/05	06/09/05
	Toluene	0.72	0.15 mg/m ³	06/06/05	06/09/05
	Ethylbenzene	0.55	0.15 mg/m ³	06/06/05	06/09/05
	m,p-Xylene	1.1	0.15 mg/m ³	06/06/05	06/09/05
	o-Xylene	0.25	0.15 mg/m ³	06/06/05	06/09/05

Note: Concentrations of air in a Tedlar Bag are at 23 degrees Celsius and 25.59 inches of mercury.

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 / info@alpha-analytical.com

6/14/05

Report Date



Alpha Analytical, Inc.

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

Date:
21-Jun-05

OC Summary Report

Work Order:
05060702

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/DHS LUFT Manual**

File ID: **D:\HPCHEM\MS09\DATA\050609\05060908.D**

Batch ID: **MS09A0609B**

Analysis Date: **06/09/2005 12:52**

Sample ID: **MBLK MS09A0609B**

Units: **mg/m³**

Run ID: **MSD_09_050609A**

Prep Date: **06/09/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	ND	10								
Surr: 1,2-Dichloroethane-d4	1.69		2	85	76	128				
Surr: Toluene-d8	1.99		2	100	84	113				
Surr: 4-Bromofluorobenzene	2.02		2	101	79	119				

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/DHS LUFT Manual**

File ID: **D:\HPCHEM\MS09\DATA\050609\05060905.D**

Batch ID: **MS09A0609B**

Analysis Date: **06/09/2005 11:42**

Sample ID: **GLCS MS09A0609B**

Units: **mg/m³**

Run ID: **MSD_09_050609A**

Prep Date: **06/09/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	413	10	400	103	78	127				
Surr: 1,2-Dichloroethane-d4	10.3		10	103	76	128				
Surr: Toluene-d8	9.43		10	94	84	113				
Surr: 4-Bromofluorobenzene	9.66		10	97	79	119				

Comments:

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



Alpha Analytical, Inc.

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

Date:
21-Jun-05

OC Summary Report

Work Order:
05060702

Method Blank

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

File ID: **D:\HPCHEM\MS09\DATA\050609\05060908.D**

Batch ID: **MS09A0609A**

Analysis Date: **06/09/2005 12:52**

Sample ID: **MBLK MS09A0609A**

Units : **mg/m³**

Run ID: **MSD_09_050609A**

Prep Date: **06/09/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND									
Methyl tert-butyl ether (MTBE)	ND	0.1								
Di-isopropyl Ether (DIPE)	ND	0.2								
Ethyl Tertiary Butyl Ether (ETBE)	ND	0.2								
Benzene	ND	0.1								
Tertiary Amyl Methyl Ether (TAME)	ND	0.2								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	1.69		2		85	76	127			
Surr: Toluene-d8	1.99		2		100	84	113			
Surr: 4-Bromofluorobenzene	2.02		2		101	79	119			

Laboratory Control Spike

Type: **LCS**

Test Code: **EPA Method SW8260B**

File ID: **D:\HPCHEM\MS09\DATA\050609\05060906.D**

Batch ID: **MS09A0609A**

Analysis Date: **06/09/2005 12:05**

Sample ID: **LCS MS09A0609A**

Units : **mg/m³**

Run ID: **MSD_09_050609A**

Prep Date: **06/09/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	9.11	0.1	10		91	81	122			
Toluene	8.94	0.1	10		89	80	120			
Ethylbenzene	9.23	0.1	10		92	80	120			
m,p-Xylene	9.09	0.1	10		91	80	129			
o-Xylene	9.27	0.1	10		93	80	129			
Surr: 1,2-Dichloroethane-d4	10.1		10		101	76	127			
Surr: Toluene-d8	9.82		10		98	84	113			
Surr: 4-Bromofluorobenzene	9.65		10		97	79	119			

Comments:

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

Alpha Analytical, Inc.

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

Sample Receipt Checklist

Date Report is due to Client : 6/15/2005

Date of Notice : 6/7/2005 9:43:05 AM

Please take note of any NO check marks. If we receive no response concerning these items within 24 hours of the date of this notice, all of the samples will be analyzed as requested.

Client Name: **Stratus Environmental**

Project ID : USA 57

Project Manager: **Gowri Kowtha**

Client's EMail: **gkowtha@stratusinc.net**

Work Order Number: **STR05060702**

Client's Phone: **(530) 676-6002**

Client's FAX: **(530) 676-6005**

Date Received: **6/7/2005**

Received by: **Stacy Marie Strock**

Chain of Custody (COC) Information

Carrier name: **FedEx**

Chain of custody present ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Custody seals intact on shipping container/cooler ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles ?	Yes <input type="checkbox"/>	<input type="checkbox"/> No	Not Present <input checked="" type="checkbox"/>
Chain of custody signed when relinquished and received ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Chain of custody agrees with sample labels ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Sample ID noted by Client on COC ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Date and time of collection noted by Client on COC ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Samplers's name noted on COC ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Internal Chain of Custody (COC) requested ?	Yes <input type="checkbox"/>	<input checked="" type="checkbox"/> No	
Sub Contract Lab Used :	None <input checked="" type="checkbox"/>	<input type="checkbox"/> SEM	Other (see comments) <input type="checkbox"/>

Sample Receipt Information

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	Not Present <input type="checkbox"/>
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	Cooler Temperature
Container/Temp Blank temperature in compliance (0-6°C)?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	NA°C
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	<input type="checkbox"/> No	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
TOC Water - pH acceptable upon receipt (H2SO4 pH<2)?	Yes <input type="checkbox"/>	<input type="checkbox"/> No	N/A <input checked="" type="checkbox"/>

Analytical Requirement Information

Are non-Standard or Modified methods requested ?	Yes <input type="checkbox"/>	<input checked="" type="checkbox"/> No	
Are there client specific Project requirements ?	Yes <input type="checkbox"/>	<input checked="" type="checkbox"/> No	If YES : see the Chain of Custody (COC)

Comments : Work order split due to different TATs on chain, see also 05060701.

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.

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

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

WorkOrder : STR05060702

Report Due By : 5:00 PM On : 15-Jun-05

Client:

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

Gowri Kowtha

Steve Carter

TEL : (530) 676-6002 x

TEL : (530) 676-6008 x

FAX : (530) 676-6005

FAX : (530) 676-6005

EMail gkowtha@stratusinc.net

EMail scarter@stratusinc.net

EDD Required : Yes

Sampled by : C HILL

Report Attention : Gowri Kowtha

Job : USA 57

CC Report : Steve Carter

PO :

Client's COC # : 08407

Cooler Temp : NA °C

Date Printed:

07-Jun-05

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles				TPH/P_A	VOC_A	Requested Tests	Sample Remarks
				ORG	SUB	TAT	PWS #				
STR05060702-01A	SYS INF Air	AR	06/06/05 11:18	1	0	6			GAS-N/C BTXE/Oxys	Tedlar	

Comments: Security seals intact-no ice needed. Work order split due to different TATs on chain, see also 05060701. Send copy of receipt checklist with final report.

Received by:	<i>Stacy M Strock</i>	Signature	<i>Stacy Strock</i>	Print Name	Alpha Analytical, Inc.	Company	6/15/05 9:40	Date/Time
---------------------	-----------------------	------------------	---------------------	-------------------	------------------------	----------------	--------------	------------------

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

Name USA 57
 Address 226 Canyon Pk DR
 City, State, Zip Canyon Pk
 Phone Number 520 766 6004 Fax 520 766 6005



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

Page # 1 of 1

Client Name <u>USA 57</u>			P.O. #		Job #	
Address			PWS #		DWR #	
City, State, Zip <u>Oakland</u>			Phone #		Fax #	
Time Sampled	Date Sampled	Matrix* See Key Below	Office Use Only	Sampled by <u>CHILL</u>	Report Attention <u>Gavin/Steve</u>	Total and type of containers ** See below
			Lab ID Number	Sample Description		
<u>11/18</u>	<u>6:24</u>	<u>OT</u>	<u>STRO5060702-01</u>	<u>SYS INF Air</u>	<u>1-T</u>	<u>X X</u>
<u>11/15</u>	<u>6:29</u>	<u>OT</u>		<u>EFF Air</u>	<u>1-T</u>	<u>X X</u>

TPHE-DEX
5 days

23 HR
Stacked
TAT
↓
REMARKS
Stacked (TAT)
23 HR TAT

ADDITIONAL INSTRUCTIONS:

FED EX # 9457 9017 0600

Relinquished by	Signature <u>[Signature]</u>	Print Name	Company	Date	Time
Received by	<u>[Signature]</u>	<u>Martin Morgan</u>	<u>Stratus</u>	<u>11/18</u>	<u>15:45</u>
Relinquished by	<u>[Signature]</u>	<u>Stacy Strook</u>	<u>Alpha</u>	<u>11/15</u>	<u>9:40</u>
Received by					
Relinquished by					
Received by					

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other ** L-Liter V-Voa S-Soil Jar O-Orbo T-Tod'tar E-Evaporator L-Liquid 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's 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

FILE COPY

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6002
Fax: (530) 676-6005
Date Received : 06/07/05

JUN 27 2005

Job#: USA 57

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

	Parameter	Concentration	Reporting	Date	Date
			Limit	Sampled	Analyzed
Client ID :	TPH Purgeable	ND	15 mg/m ³	06/06/05	06/07/05
Eff Air	Tertiary Butyl Alcohol (TBA)	ND	7.5 mg/m ³	06/06/05	06/07/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.30 mg/m ³	06/06/05	06/07/05
STR05060701-01A	Di-isopropyl Ether (DIPE)	ND	0.30 mg/m ³	06/06/05	06/07/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	0.30 mg/m ³	06/06/05	06/07/05
	Benzene	ND	0.30 mg/m ³	06/06/05	06/07/05
	Tertiary Amyl Methyl Ether (TAME)	ND	0.30 mg/m ³	06/06/05	06/07/05
	Toluene	ND	0.30 mg/m ³	06/06/05	06/07/05
	Ethylbenzene	ND	0.30 mg/m ³	06/06/05	06/07/05
	m,p-Xylene	ND	0.30 mg/m ³	06/06/05	06/07/05
	o-Xylene	ND	0.30 mg/m ³	06/06/05	06/07/05

Note: Concentrations of air in a Tedlar Bag are at 23 degrees Celsius and 25.59 inches of mercury.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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

WJG

6/8/05

Report Date



Alpha Analytical, Inc.

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

Date:
14-Jun-05

OC Summary Report

Work Order:
05060701

Method Blank

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

File ID: **C:\HPCHEM\MS07\DATA\050607\05060712.D**

Batch ID: **MS07A0607A**

Analysis Date: **06/07/2005 11:48**

Sample ID: **MBLK MS07A0607A**

Units: **mg/m³**

Run ID: **MSD_07_050607C**

Prep Date: **06/07/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND		5							
Methyl tert-butyl ether (MTBE)	ND		0.1							
Di-isopropyl Ether (DIPE)	ND		0.2							
Ethyl Tertiary Butyl Ether (ETBE)	ND		0.2							
Benzene	ND		0.1							
Tertiary Amyl Methyl Ether (TAME)	ND		0.2							
Toluene	ND		0.1							
Ethylbenzene	ND		0.1							
m,p-Xylene	ND		0.1							
o-Xylene	ND		0.1							
Surr: 1,2-Dichloroethane-d4	1.65		2		83	76	127			
Surr: Toluene-d8	2.16		2		108	84	113			
Surr: 4-Bromofluorobenzene	2.08		2		104	79	119			

Laboratory Control Spike

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

File ID: **C:\HPCHEM\MS07\DATA\050607\05060708.D**

Batch ID: **MS07A0607A**

Analysis Date: **06/07/2005 10:04**

Sample ID: **LCS MS07A0607A**

Units: **mg/m³**

Run ID: **MSD_07_050607C**

Prep Date: **06/07/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	10	0.1	10		100	81	122			
Toluene	10.5	0.1	10		103	80	120			
Ethylbenzene	10.2	0.1	10		102	80	120			
m,p-Xylene	10.5	0.1	10		105	80	129			
o-Xylene	10.7	0.1	10		107	80	129			
Surr: 1,2-Dichloroethane-d4	8.9		10		89	76	127			
Surr: Toluene-d8	9.99		10		99.9	84	113			
Surr: 4-Bromofluorobenzene	9.38		10		94	79	119			

Comments:

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



Alpha Analytical, Inc.

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

Date:
14-Jun-05

OC Summary Report

Work Order:
05060701

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/DHS LUFT Manual**

File ID: **C:\HPCHEMMS07\DATA\050607\05060712.D**

Batch ID: **MS07A0607B**

Analysis Date: **06/07/2005 11:48**

Sample ID: **MBLK MS07A0607B**

Units: **mg/m³**

Run ID: **MSD_07_050607C**

Prep Date: **06/07/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	ND	10								
Surr: 1,2-Dichloroethane-d4	1.65		2		83	76	128			
Surr: Toluene-d8	2.16		2		108	84	113			
Surr: 4-Bromofluorobenzene	2.08		2		104	79	119			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/DHS LUFT Manual**

File ID: **C:\HPCHEMMS07\DATA\050607\05060707.D**

Batch ID: **MS07A0607B**

Analysis Date: **06/07/2005 09:42**

Sample ID: **GLCS MS07A0607B**

Units: **mg/m³**

Run ID: **MSD_07_050607C**

Prep Date: **06/07/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	463	10	400		116	78	127			
Surr: 1,2-Dichloroethane-d4	8.8		10		88	76	128			
Surr: Toluene-d8	9.83		10		98	84	113			
Surr: 4-Bromofluorobenzene	10.5		10		105	79	119			

Comments:

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

Alpha Analytical, Inc.

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

Sample Receipt Checklist

Date Report is due to Client : 6/8/2005

Date of Notice : 6/7/2005 9:35:35 AM

Please take note of any NO check marks. If we receive no response concerning these items within 24 hours of the date of this notice, all of the samples will be analyzed as requested.

Client Name: **Stratus Environmental**

Project ID : **USA 57**

Project Manager: **Gowri Kowtha**

Client's EMail: **gkowtha@stratusinc.net**

Work Order Number: **STR05060701**

Client's Phone: **(530) 676-6002**

Client's FAX: **(530) 676-6005**

Date Received: **6/7/2005**

Received by: **Stacy Marie Strock**

Chain of Custody (COC) Information

Carrier name: FedEx

Chain of custody present ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Custody seals intact on shipping container/cooler ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	
Custody seals intact on sample bottles ?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Chain of custody signed when relinquished and received ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample ID noted by Client on COC ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Date and time of collection noted by Client on COC ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samplers's name noted on COC ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Internal Chain of Custody (COC) requested ?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
Sub Contract Lab Used :	None <input checked="" type="checkbox"/>	SEM <input type="checkbox"/>	Other (see comments) <input type="checkbox"/>	

Sample Receipt Information

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Cooler Temperature
Container/Temp Blank temperature in compliance (0-6°C)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		NA°C
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>	
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
TOC Water - pH acceptable upon receipt (H2SO4 pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	

Analytical Requirement Information

Are non-Standard or Modified methods requested ?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
Are there client specific Project requirements ?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	If YES : see the Chain of Custody (COC)	

Comments : Work order split due to different TATs on chain, see also 05060702.

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA RUSH!

Alpha Analytical, Inc.

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

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

WorkOrder : STR05060701

Report Due By : 10:00 AM On : 08-Jun-05

Client:

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

Gowri Kowtha

TEL : (530) 676-6002 x
FAX : (530) 676-6005
EMail gkowtha@stratusinc.net

Steve Carter

TEL : (530) 676-6008 x
FAX : (530) 676-6005
EMail scarter@stratusinc.net

EDD Required : Yes

Sampled by : C Hill

Report Attention : Gowri Kowtha

Job : USA 57

Cooler Temp : NA °C

Date Printed:

CC Report : Steve Carter

PO :

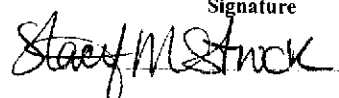
Client's COC # : 08407

07-Jun-05

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			TPHP_A	VOC_A	Requested Tests	Sample Remarks
				ORG	SUB	TAT				
STR05060701-01A	Eff Air	AR	06/06/05 11:15	1	0	1	GAS-N/C	BYXE/oxys		Tedlar

Comments: Security seals intact-no ice needed. 24hr TAT. Work order split due to different TATs on chain, see also 05060702. Send copy of receipt checklist with final report.

Received by:	Signature 	Print Name Stacy Stock	Company Alpha Analytical, Inc.	Date/Time 6/7/05 9:30
---------------------	---	----------------------------------	--	---------------------------------

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

Billing Information:

Name Stratus EIVU
 Address 5530 Cannon Pk DR
 City, State, Zip Cannon Pk
 Phone Number 520 676 6004 Fax 520 676 6005



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

Client Name <u>USA 57</u>		P.O. #		Job #			
Address		PWS #		DWR #			
City, State, Zip <u>Oakland</u>		Phone #		Fax #			
Time Sampled	Date Sampled	Matrix* See Key Below	Office Use Only	Sampled by <u>CHILL</u>	Report Attention <u>Govt/State</u>	Total and type of containers ** See below	TPHE-13X 5 days 08407 24 HR Standard TAT ↓ REMARKS
			Lab ID Number	Sample Description			
<u>1118</u>	<u>6/6/05</u>	<u>OT</u>		<u>SYS INF Air</u>		<u>1-T</u> X X	
<u>1115</u>	<u>6/6/05</u>	<u>OT</u>	<u>STROSD060701-01</u>	<u>EFF Air</u>		<u>1-T</u> X X	<u>Standard TAT</u> <u>24 HR TAT</u>

ADDITIONAL INSTRUCTIONS:

FED EX # 8457 9017 0600

Signature	Print Name	Company	Date	Time
<u>[Signature]</u>	<u>Martin Morgan</u>	<u>Stratus</u>	<u>6/6/05</u>	<u>1545</u>
<u>[Signature]</u>	<u>Stacy Stroock</u>	<u>Alpha</u>	<u>6/7/05</u>	<u>9:30</u>
Relinquished by				
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by				

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other **; L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other
NOTE: Samples are discarded 60 days after 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

FILE COPY

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 06/29/05

Job#: 2007-0057-01/USA 57

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

	Parameter	Concentration	Reporting	Date	Date
			Limit	Sampled	Analyzed
Client ID :	TPH Purgeable	ND	15 mg/m ³	06/28/05	06/30/05
Inf Air	Methyl tert-butyl ether (MTBE)	ND	0.15 mg/m ³	06/28/05	06/30/05
Lab ID :	Benzene	ND	0.15 mg/m ³	06/28/05	06/30/05
STR05062960-01A	Toluene	ND	0.15 mg/m ³	06/28/05	06/30/05
	Ethylbenzene	ND	0.15 mg/m ³	06/28/05	06/30/05
	m,p-Xylene	ND	0.15 mg/m ³	06/28/05	06/30/05
	o-Xylene	ND	0.15 mg/m ³	06/28/05	06/30/05

Note: Concentrations of air in a Tedlar Bag are at 23 degrees Celsius and 25.37 inches of mercury.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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

[Signature]
7/7/05

Report Date



Alpha Analytical, Inc.

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

Date:
12-Jul-05

QC Summary Report

Work Order:
05062960

Method Blank

File ID: D:\MSDCHEM\MS12\DATA\050630\05063025.D	Type: MBLK	Test Code: EPA Method SW8015B/DHS LUFT Manual								
Sample ID: MBLK MS12A0630B	Batch ID: MS12A0630B	Analysis Date: 06/30/2005 17:37								
Units: mg/m ³	Run ID: MSD_12_050630A	Prep Date: 06/30/2005								
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	ND	10								
Surr: 1,2-Dichloroethane-d4	1.74		2		87	76	128			
Surr: Toluene-d8	2.02		2		101	84	113			
Surr: 4-Bromofluorobenzene	1.95		2		98	79	119			

Laboratory Control Spike

File ID: D:\MSDCHEM\MS12\DATA\050630\05063007.D	Type: LCS	Test Code: EPA Method SW8015B/DHS LUFT Manual								
Sample ID: GLCS MS12A0630B	Batch ID: MS12A0630B	Analysis Date: 06/30/2005 11:00								
Units: mg/m ³	Run ID: MSD_12_050630A	Prep Date: 06/30/2005								
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	437	10	400		109	78	127			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	76	128			
Surr: Toluene-d8	9.84		10		98	84	113			
Surr: 4-Bromofluorobenzene	9.8		10		98	79	119			

Comments:

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



Alpha Analytical, Inc.

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

Date:
12-Jul-05

OC Summary Report

Work Order:
05062960

Method Blank

Type: MBLK Test Code: EPA Method SW8260B

File ID: D:\MSDCHEM\MS12\DATA\050630\05063025.D

Batch ID: MS12A0630A

Analysis Date: 06/30/2005 17:37

Sample ID: MBLK MS12A0630A

Units: mg/m³

Run ID: MSD_12_050630A

Prep Date: 06/30/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	1.74		2		87	76	127			
Surr: Toluene-d8	2.02		2		101	84	113			
Surr: 4-Bromofluorobenzene	1.95		2		98	79	119			

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: D:\MSDCHEM\MS12\DATA\050630\05063005.D

Batch ID: MS12A0630A

Analysis Date: 06/30/2005 10:17

Sample ID: LCS MS12A0630A

Units: mg/m³

Run ID: MSD_12_050630A

Prep Date: 06/30/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	10.2	0.1	10		102	81	122			
Toluene	10.1	0.1	10		101	80	120			
Ethylbenzene	10.5	0.1	10		105	80	120			
m,p-Xylene	10.9	0.1	10		109	80	129			
o-Xylene	11	0.1	10		110	80	129			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	76	127			
Surr: Toluene-d8	9.95		10		100	84	113			
Surr: 4-Bromofluorobenzene	9.78		10		98	79	119			

Comments:

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

Alpha Analytical, Inc.

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

Sample Receipt Checklist

Date Report is due to Client : 7/8/2005

Date of Notice : 6/29/2005 8:54:07 A

Please take note of any NO check marks. If we receive no response concerning these items within 24 hours of the date of this notice, all of the samples will be analyzed as requested.

Client Name: **Stratus Environmental**

Project ID : 2007-0057-01/USA 57

Project Manager: **Gowri Kowtha**

Client's EMail: **gkowtha@stratusinc.net**

Client's Phone: (530) 676-6001

Client's FAX: (530) 676-6005

Work Order Number: **STR05062960**

Date Received: 6/29/2005

Received by: **Stephanie Sifuentes**

Chain of Custody (COC) Information

Carrier name Alpha Employee

Chain of custody present ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Custody seals intact on shipping container/cooler ?	Yes <input type="checkbox"/>	<input type="checkbox"/> No	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles ?	Yes <input type="checkbox"/>	<input type="checkbox"/> No	Not Present <input checked="" type="checkbox"/>
Chain of custody signed when relinquished and received ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Chain of custody agrees with sample labels ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Sample ID noted by Client on COC ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Date and time of collection noted by Client on COC ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Samplers's name noted on COC ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Internal Chain of Custody (COC) requested ?	Yes <input type="checkbox"/>	<input checked="" type="checkbox"/> No	
Sub Contract Lab Used :	None <input checked="" type="checkbox"/>	<input type="checkbox"/> SEM	Other (see comments) <input type="checkbox"/>

Sample Receipt Information

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	Not Present <input type="checkbox"/>
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	

Sample Preservation and Hold Time (HT) information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Container/Temp Blank temperature in compliance (0-6°C)?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	Cooler Temperature °C
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	<input type="checkbox"/> No	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
TOC Water - pH acceptable upon receipt (H2SO4 pH<2)?	Yes <input type="checkbox"/>	<input type="checkbox"/> No	N/A <input checked="" type="checkbox"/>

Analytical Requirement Information

Are non-Standard or Modified methods requested ?	Yes <input type="checkbox"/>	<input checked="" type="checkbox"/> No	
Are there client specific Project requirements ?	Yes <input type="checkbox"/>	<input checked="" type="checkbox"/> No	If YES : see the Chain of Custody (COC)

Comments :

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 : STR05062960

Report Due By : 5:00 PM On : 07-Jul-05

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

Gowri Kowtha
 TEL : (530) 676-6001
 FAX : (530) 676-6005
 EMail gkowtha@stratusinc.net

EDD Required : Yes

Sampled by : MW Morgan

Report Attention : Gowri Kowtha

Job : 2007-0057-01/USA 57

Cooler Temp : °C

CC Report :

PO :

Client's COC # : 6825

Date Printed:

29-Jun-05

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			
				ORG	SUB	TAT	PWS #	TPHP_A	VOC_A								
STR05062960-01A	Inf Air	AR	06/28/05 06:16	1	0	6		GAS-N/C	BTEX/MTB E								Tedlar

Comments: Samples p/u by Alpha employee/No security seals, N-A for temp. Send copy of receipt checklist with final report :

Received by:	Signature <i>[Signature]</i>	Print Name STEPHANIE SIMPSON	Company Alpha Analytical, Inc.	Date/Time 7/1/05 8:54
---------------------	--	--	--	---------------------------------

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-Glass P-Plastic OT-Other

Billing Information:

Name Stratus Environmental, Inc
 Address 333 Cameron Park Dr. #550
 City, State, Zip Cameron Park CA 95602
 Phone Number 5306766004 Fax 5306766005



Alpha Analytical, Inc.

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

Samples Collected From which State?

AZ _____ CA NV _____ WA _____
 ID _____ OR _____ OTHER _____

Page # 1 of 1

Analyses Required

6825

Client Name <u>USA 57</u>			P.O. #		Job # <u>2007-0057-01</u>		BTEX TPH NITRO										Required QC Level? I II III IV					
Address			E-Mail Address														EDD/EDF? YES NO					
City, State, Zip <u>Oakland, CA</u>			Phone #		Fax #												Global ID #					
Time Sampled			Date Sampled		Matrix See Key Below												Office Use Only		Sampled by <u>MW Morgan</u>		Report Attention <u>Genri Kawtho</u>	
							Lab ID Number		Sample Description		TAT		Field Filtered									
<u>0616</u>			<u>9/28/05</u>		<u>OT</u>				<u>Inf Air</u>		<u>5</u>		<u>1-T</u>		<u>X</u>		<u>X</u>					

ADDITIONAL INSTRUCTIONS:

Signature	Print Name	Company	Date	Time
	<u>Martin W. Morgan</u>	<u>Stratus</u>	<u>9/28/05</u>	<u>1420</u>
	<u>Lisa Bayler</u>	<u>ALPHA</u>	<u>6/28/05</u>	<u>1420</u>
	<u>STEPHANIE SIMENTES</u>	<u>ALPHA</u>	<u>11/28/05</u>	<u>804</u>
Relinquished by				
Received by				

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other
 NOTE: Samples are discarded 60 days after 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.

Stratus Environmental Inc.

July 11, 2005

3330 Cameron Park Drive, Suite 550

Cameron Park, CA 95682

Attn.: Kiran Nagaraju

Project: USA 57

Dear Ms. Nagaraju

Attached is our report for your samples received on 07/01/2005 08:05

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 08/15/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: asalimpour@stl-inc.com

Sincerely,



Afsaneh Salimpour
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX Fuel Oxygenates by 8260B

Stratus Environmental Inc.

Attn.: Kiran Nagaraju

3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682
Phone: (530) 676-6007 Fax: (530) 676-6005

Project: USA 57

Received: 07/01/2005 08:05

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SYS INF AIR	07/01/2005 05:41	Air	1
EFF AIR	07/01/2005 05:39	Air	2

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/27/2005 15:10

Gas/BTEX Fuel Oxygenates by 8260B

Stratus Environmental Inc.

Attn.: Kiran Nagaraju

3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682
Phone: (530) 676-6007 Fax: (530) 676-6005

Project: USA 57

Received: 07/01/2005 08:05

Prep(s): 5030B Test(s): 8260B
Sample ID: **SYS INF AIR** Lab ID: 2005-07-0001 - 1
Sampled: 07/01/2005 05:41 Extracted: 7/1/2005 21:07
Matrix: Air QC Batch#: 2005/07/01-1D.64

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	mg/m3	ND	14	ppmv	1	07/01/2005 21:07	
Benzene	ND	0.50	mg/m3	ND	0.15	ppmv	1	07/01/2005 21:07	
Toluene	ND	0.50	mg/m3	ND	0.13	ppmv	1	07/01/2005 21:07	
Ethylbenzene	ND	0.50	mg/m3	ND	0.11	ppmv	1	07/01/2005 21:07	
Total xylenes	ND	1.0	mg/m3	ND	0.23	ppmv	1	07/01/2005 21:07	
tert-Butyl alcohol (TBA)	ND	5.0	mg/m3	ND	1.6	ppmv	1	07/01/2005 21:07	
Methyl tert-butyl ether	ND	0.50	mg/m3	ND	0.14	ppmv	1	07/01/2005 21:07	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/m3	ND	0.28	ppmv	1	07/01/2005 21:07	
Ethyl tert-butyl ether	ND	0.50	mg/m3	ND	0.14	ppmv	1	07/01/2005 21:07	
tert-Amyl methyl ether	ND	0.50	mg/m3	ND	0.12	ppmv	1	07/01/2005 21:07	
Surrogate(s)									
1,2-Dichloroethane-d4	89.4	72-128	%			%	1	07/01/2005 21:07	
Toluene-d8	86.5	80-113	%			%	1	07/01/2005 21:07	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/27/2005 15:10

Gas/BTEX Fuel Oxygenates by 8260B

Stratus Environmental Inc.

Attn.: Kiran Nagaraju

3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682
Phone: (530) 676-6007 Fax: (530) 676-6005

Project: USA 57

Received: 07/01/2005 08:05

Prep(s): 5030B Test(s): 8260B
Sample ID: EFF AIR Lab ID: 2005-07-0001 - 2
Sampled: 07/01/2005 05:39 Extracted: 7/1/2005 20:44
Matrix: Air QC Batch#: 2005/07/01-1D.64

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	mg/m3	ND	14	ppmv	1	07/01/2005 20:44	
Benzene	ND	0.50	mg/m3	ND	0.15	ppmv	1	07/01/2005 20:44	
Toluene	ND	0.50	mg/m3	ND	0.13	ppmv	1	07/01/2005 20:44	
Ethylbenzene	ND	0.50	mg/m3	ND	0.11	ppmv	1	07/01/2005 20:44	
Total xylenes	ND	1.0	mg/m3	ND	0.23	ppmv	1	07/01/2005 20:44	
tert-Butyl alcohol (TBA)	ND	5.0	mg/m3	ND	1.6	ppmv	1	07/01/2005 20:44	
Methyl tert-butyl ether	ND	0.50	mg/m3	ND	0.14	ppmv	1	07/01/2005 20:44	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/m3	ND	0.28	ppmv	1	07/01/2005 20:44	
Ethyl tert-butyl ether	ND	0.50	mg/m3	ND	0.14	ppmv	1	07/01/2005 20:44	
tert-Amyl methyl ether	ND	0.50	mg/m3	ND	0.12	ppmv	1	07/01/2005 20:44	
Surrogate(s)									
1,2-Dichloroethane-d4	90.6	72-128	%			%	1	07/01/2005 20:44	
Toluene-d8	92.3	80-113	%			%	1	07/01/2005 20:44	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.sli-inc.com * CA DHS ELAP# 2496

07/27/2005 15:10

Gas/BTEX Fuel Oxygenates by 8260B

Stratus Environmental Inc.

Attn.: Kiran Nagaraju

3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682
Phone: (530) 676-6007 Fax: (530) 676-6005

Project: USA 57

Received: 07/01/2005 08:05

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/07/01-1D.64-002

Water

Test(s): 8260B

QC Batch # 2005/07/01-1D.64

Date Extracted: 07/01/2005 14:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/01/2005 14:02	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/01/2005 14:02	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/01/2005 14:02	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	07/01/2005 14:02	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	07/01/2005 14:02	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	07/01/2005 14:02	
Benzene	ND	0.5	ug/L	07/01/2005 14:02	
Toluene	ND	0.5	ug/L	07/01/2005 14:02	
Ethylbenzene	ND	0.5	ug/L	07/01/2005 14:02	
Total xylenes	ND	1.0	ug/L	07/01/2005 14:02	
Surrogates(s)					
1,2-Dichloroethane-d4	92.8	73-130	%	07/01/2005 14:02	
Toluene-d8	95.2	81-114	%	07/01/2005 14:02	

Gas/BTEX Fuel Oxygenates by 8260B

Stratus Environmental Inc.

Attn.: Kiran Nagaraju

3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682
Phone: (530) 676-6007 Fax: (530) 676-6005

Project: USA 57

Received: 07/01/2005 08:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/07/01-1D.64

LCS 2005/07/01-1D.64-038

Extracted: 07/01/2005

Analyzed: 07/01/2005 13:38

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	29.0		25	116.0			65-165	20		
Benzene	30.5		25	122.0			69-129	20		
Toluene	31.6		25	126.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	436		500	87.2			73-130			
Toluene-d8	425		500	85.0			81-114			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/27/2005 15:10

Gas/BTEX Fuel Oxygenates by 8260B

Stratus Environmental Inc.

Attn.: Kiran Nagaraju

3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682
Phone: (530) 676-6007 Fax: (530) 676-6005

Project: USA 57

Received: 07/01/2005 08:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/07/01-1D.64

MS/MSD

Lab ID: 2005-06-0673 - 002

MS: 2005/07/01-1D.64-008

Extracted: 07/01/2005

Analyzed: 07/01/2005 17:08

Dilution: 1.00

MSD: 2005/07/01-1D.64-032

Extracted: 07/01/2005

Analyzed: 07/01/2005 17:32

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	31.0	33.9	9.95	25	84.2	95.8	12.9	65-165	20		
Benzene	22.9	25.7	ND	25	91.6	102.8	11.5	69-129	20		
Toluene	24.1	26.6	ND	25	96.4	106.4	9.9	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	437	420		500	87.4	84.0		73-130			
Toluene-d8	433	419		500	86.6	83.7		81-114			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/27/2005 15:10



STL

2005-06-07

STL San Francisco Chain of Custody
225 Quarry Lane • Pleasanton, CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1006
E-mail: stlinfo@stl-inc.com

Reference #: 117038

Date: 7-1-05 Page: 1 of 1

REPORT TO:		ANALYZED FOR:																					
Name: Kiran Nagarkar		11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
Company: Statens Enev.																							
Address: 3330 Canyon PK DR #557		31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Phone: 510-674-6007 Email:																							
Requested By: CHILL		53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
Project:																							
Name: Kiran		75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
Project:																							
Status: []		97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118
[]																							
SYS IAF Air 7/1/05 091		X	X	X																			
EFF Air 7/1/05 053		X	X	X																			

Project Name: USA 57		# of Containers: 130		Requested by: [Signature]		Requested by: [Signature]		Requested by: [Signature]	
Project: [Signature]		Date: 7/1/05		Signature: CHILL		Signature: [Signature]		Signature: [Signature]	
Temp: 20°C		Date: [Signature]		Printed Name: Statens		Printed Name: [Signature]		Printed Name: [Signature]	
Condition by release: 5/07		Company: [Signature]		Company: [Signature]		Company: [Signature]		Company: [Signature]	
Received by: [Signature]		Received by: [Signature]		Received by: [Signature]		Received by: [Signature]		Received by: [Signature]	
Date: 7/1/05		Date: 7/1/05		Date: 7/1/05		Date: 7/1/05		Date: 7/1/05	
Company: STL-SF		Company: [Signature]		Company: [Signature]		Company: [Signature]		Company: [Signature]	



Alpha Analytical, Inc.

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

FILE COPY

ANALYTICAL REPORT

JUL 01 2005

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone (530) 676-6002
Fax (530) 676-6005
Date Received 06/08/05

Job= LSMT

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

	Parameter	Concentration	Reporting	Date	Date
			Limit	Sampled	Analyzed
Client ID:	TPH Purgeable	590	50 µg/L	06/06/05	06/09/05
Influent:	Tertiary Butyl Alcohol (TBA)	140	10 µg/L	06/06/05	06/09/05
Lab ID:	Methyl tert-butyl ether (MTBE)	62	0.50 µg/L	06/06/05	06/09/05
STR05060841-01A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	06/06/05	06/09/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	06/06/05	06/09/05
	Benzene	11	0.50 µg/L	06/06/05	06/09/05
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	06/06/05	06/09/05
	Toluene	3.8	0.50 µg/L	06/06/05	06/09/05
	Ethylbenzene	6.1	0.50 µg/L	06/06/05	06/09/05
	m,p-Xylene	22	0.50 µg/L	06/06/05	06/09/05
	o-Xylene	11	0.50 µg/L	06/06/05	06/09/05
	Client ID:	TPH Purgeable	ND	50 µg/L	06/07/05
MID:	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	06/07/05	06/09/05
Lab ID:	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	06/07/05	06/09/05
STR05060841-02A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	06/07/05	06/09/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	06/07/05	06/09/05
	Benzene	ND	0.50 µg/L	06/07/05	06/09/05
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	06/07/05	06/09/05
	Toluene	ND	0.50 µg/L	06/07/05	06/09/05
	Ethylbenzene	ND	0.50 µg/L	06/07/05	06/09/05
	m,p-Xylene	ND	0.50 µg/L	06/07/05	06/09/05
	o-Xylene	ND	0.50 µg/L	06/07/05	06/09/05

Reported in micrograms per liter, per client request.

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 / info@alpha-analytical.com

6/15/05

Report Date



Alpha Analytical, Inc.

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

VOC Sample Preservation Report

Work Order STR05060841

Project: USA57

Alpha's Sample ID	Client's Sample ID	Matrix	pH
05060841-01A	Influent	Liquors	2
05060841-02A	MID	Aquifers	2

6/15/05
Report Date



Alpha Analytical, Inc.

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

Date:
06/09/05

QC Summary Report

Work Order:
06/09/05

Method Blank

Type: **MBLK** Test Code: EPA Method SW8015B/DHS LUFT Manual

File ID: D:\HPCHEM\MS10\DATA\050609\05060912.D

Batch ID: MS10W0609B

Analysis Date: 06/09/2005

Sample ID: **MBLK MS10W0609B**

Units: **µg/L**

Run ID: **MSD_10_050609A**

Prep Date: 06/09/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPDLimit
TPH Purgeable	ND	50							
Surr: 1,2-Dichloroethane-d4	8.75		10	68	76	128			
Surr: Toluene-d8	10.3		10	103	84	113			
Surr: 4-Bromofluorobenzene	8.73		10	87	79	119			

Laboratory Control Spike

Type: **LCS** Test Code: EPA Method SW8015B/DHS LUFT Manual

File ID: D:\HPCHEM\MS10\DATA\050609\05060914.D

Batch ID: MS10W0609B

Analysis Date: 06/09/2005

Sample ID: **GLCS MS10W0609B**

Units: **µg/L**

Run ID: **MSD_10_050609A**

Prep Date: 06/09/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPDLimit
TPH Purgeable	416	50	400	104	78	127			
Surr: 1,2-Dichloroethane-d4	8.3		10	83	76	128			
Surr: Toluene-d8	10.2		10	102	84	113			
Surr: 4-Bromofluorobenzene	8.52		10	85	79	119			

Sample Matrix Spike

Type: **MS** Test Code: EPA Method SW8015B/DHS LUFT Manual

File ID: D:\HPCHEM\MS10\DATA\050609\05060920.D

Batch ID: MS10W0609B

Analysis Date: 06/09/2005 14:07

Sample ID: **05060841-01AGS**

Units: **µg/L**

Run ID: **MSD_10_050609A**

Prep Date: 06/09/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPDLimit
TPH Purgeable	2840	250	2000	592.6	112	70	139		
Surr: 1,2-Dichloroethane-d4	47.1		50	94	76	128			
Surr: Toluene-d8	49.6		50	99	84	113			
Surr: 4-Bromofluorobenzene	41.6		50	83	79	119			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: EPA Method SW8015B/DHS LUFT Manual

File ID: D:\HPCHEM\MS10\DATA\050609\05060921.D

Batch ID: MS10W0609B

Analysis Date: 06/09/2005 14:28

Sample ID: **05060841-01AGSD**

Units: **µg/L**

Run ID: **MSD_10_050609A**

Prep Date: 06/09/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPDLimit
TPH Purgeable	2700	250	2000	592.6	105	70	139	2839	5.2:12.1
Surr: 1,2-Dichloroethane-d4	46.9		50	94	76	128			
Surr: Toluene-d8	50.4		50	101	84	113			
Surr: 4-Bromofluorobenzene	41.4		50	83	79	119			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, reported 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-Jun-05

OC Summary Report

Work Order:
05060841

Method Blank

Analyte	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)								
Methyl tert-butyl ether (MTBE)								
Di-isopropyl Ether (DIPE)								
Ethyl Tertiary Butyl Ether (ETBE)								
Benzene								
Tertiary Amyl Methyl Ether (TAME)								
Toluene								
Ethylbenzene								
m,p-Xylene								
o-Xylene								
Surr: 1,2-Dichloroethane-d4	10		88	76	127			
Surr: Toluene-d8	10		103	84	113			
Surr: 4-Bromofluorobenzene	10		87	79	119			

Laboratory Control Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	10.4	0.5	10		104	81	122			
Toluene	9.51	0.5	10		96	80	120			
Ethylbenzene	9.8	0.5	10		98	80	120			
m,p-Xylene	9.17	0.5	10		92	80	129			
o-Xylene	9.26	0.5	10		93	80	129			
Surr: 1,2-Dichloroethane-d4	9.36		10		94	76	127			
Surr: Toluene-d8	10		10		100	84	113			
Surr: 4-Bromofluorobenzene	8.24		10		82	79	119			

Sample Matrix Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	68.6	1.3	50	11.41	114	74	125			
Toluene	56.1	1.3	50	3.84	104	76	120			
Ethylbenzene	59.8	1.3	50	6.06	107	77	124			
m,p-Xylene	74	1.3	50	21.59	105	73	130			
o-Xylene	63.2	1.3	50	11.46	105	74	131			
Surr: 1,2-Dichloroethane-d4	46.7		50		93	76	127			
Surr: Toluene-d8	51.5		50		103	84	113			
Surr: 4-Bromofluorobenzene	36.5		50		80	79	119			

Sample Matrix Spike Duplicate

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	65.3	1.3	50	11.41	108	74	124	68.61	5.0(13)	
Toluene	54.2	1.3	50	3.84	101	76	119	56.05	3.3(13)	
Ethylbenzene	57.9	1.3	50	6.06	104	77	124	59.78	3.3(13)	
m,p-Xylene	71.3	1.3	50	21.59	99	73	130	73.96	3.6(14)	
o-Xylene	61.2	1.3	50	11.46	100	74	131	63.84	4.2(13)	
Surr: 1,2-Dichloroethane-d4	45.2		50		90	76	127			
Surr: Toluene-d8	51.1		50		104	84	113			
Surr: 4-Bromofluorobenzene	40.6		50		81	79	119			

Comments:

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

Alpha Analytical, Inc.

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

Sample Receipt Checklist

Date Report is due to Client : 6/16/2005

Date of Notice 6/8/2005 9:45:33 AM

Please take note of any **NO check marks**. If we receive no response concerning these items within 24 hours of the date of this notice, all of the samples will be analyzed as requested.

Client Name: ~~Stratus Environmental~~

Project ID : USA57

Project Manager: Gowri Kowtha

Client's EMail: gkowtha@stratusinc.net

Client's Phone: (530) 676-6002

Work Order Number: STR05060841

Date Received: 6/8/2005

Phone: (530) 676-6005

Received by: Patricia Gayle Edrosa

Chain of Custody (COC) Information

Carrier name: FedEx

Chain of custody present ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Custody seals intact on shipping container/cooler ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present
Custody seals intact on sample bottles ?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody signed when relinquished and received ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample ID noted by Client on COC ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and time of collection noted by Client on COC ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samplers's name noted on COC ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Internal Chain of Custody (COC) requested ?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sub Contract Lab Used :	None <input checked="" type="checkbox"/>	SEM <input type="checkbox"/>	Other (see comments) <input type="checkbox"/>

Sample Receipt Information

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance (0-6°C)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Cooler Temperature 4°C
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
TOC Water - pH acceptable upon receipt (H2SO4 pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>

Analytical Requirement Information

Are non-Standard or Modified methods requested ?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Are there client specific Project requirements ?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	If YES : see the Chain of Custody (COC)

Comments : Chain split into two separate work orders due to different TAT's. See Work Order STR05060840 for remaining samples.

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 : STR05060841

Report Due By : 5:00 PM On : 16-Jun-05

Client:

Stratus Environmental
 3330 Cameron Park Drive
 Suite 550
 Cameron Park, CA 95602 8861

Gowri Kowtha

TEL : (530) 676-0002 x
 FAX : (530) 676-0005
 E-Mail : gowri@stratusinc.com

EDS Required: Yes

Sampled by: J. H. H.

Report Attention : Gowri Kowtha

Job : U6A57

Order Type : # 1

Date Printed:

CC Report :

PO :

Client's COC # : 08408

08-Jun-05

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


Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			TPHP_W	VOC_W	Requested Tests	Sample Remarks
				ORG	SUB	TAT				
STR05060841-01A	Influent	AQ	06/06/05 11:34	5	0	6	GAS-C	BTEX/OXY_ C		
STR05060841-02A	MID	AQ	06/07/05 09:41	5	0	6	GAS-C	BTEX/OXY_ C		

Comments: Security seals intact. Frozen ice. Chain split into two separate work orders due to different TAT's. See Work Order STR05060840 for remaining samples :

Received by: *Leticia Edrosa* Signature Leticia Edrosa Print Name Alpha Analytical, Inc. Company 6/8/05 9:48 Date/Time

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

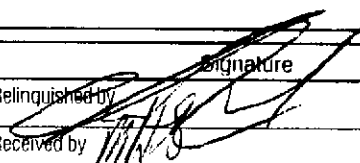
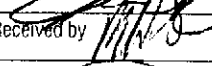
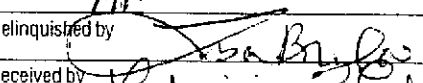
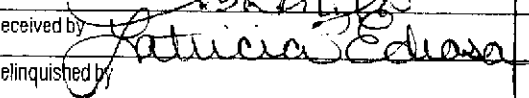
Name States ERV
 Address 3530 Canyon Pk DR
 City, State, Zip Canyon Pk
 Phone Number 520-766-0004 Fax 520-766-0004

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

Page # 1
 Analyses Required 24 HR

Client Name		P.O. #		Job #		Address		PWS #		DWR #		City, State, Zip		Phone #		Fax #		
Time Sampled	Date Sampled	Matrix* See Key Below	Office Use Only	Sampled by	Report Attention	Total and type of containers ** See below		REMARKS										
			Lab ID Number	Sample Description														
1134	6-2-05	AQ		CHILL	Gen. / Storm	5-V	X	X										Standard
0939	6-7-05	AQ				5-V	X	X										24 HR
0941	6-7-05	AQ				5-V	X	X										Standard

ADDITIONAL INSTRUCTIONS:

Signature	Print Name	Company	Date	Time
	CHILL	States	6-7-05	12:00
	Mike Holburn	Alpha	6-7-05	12:00
	Lisa Bayles	ALPHA	6-7-05	
	Patricia Edrose	Alpha	6-8-05	9:48

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other **; L-Liter V-Voa S-Soil Jar O-Orbo T-Todlar R-Res 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's 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 analysis.



Alpha Analytical, Inc.

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

FILE COPY

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6002
Fax: (530) 676-6005
Date Received 06/08/05

01 2005

Job#: USA57

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

	Parameter	Concentration	Reporting	Date	Date
			Limit	Sampled	Analyzed
Client ID :	TPH Purgeable	ND	50 µg/L	06/07/05	06-08-05
EFF	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	06/07/05	06-08-05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	06/07/05	06-08-05
STR05060840-01A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	06/07/05	06-08-05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	06/07/05	06-08-05
	Benzene	ND	0.50 µg/L	06/07/05	06-08-05
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	06/07/05	06-08-05
	Toluene	ND	0.50 µg/L	06/07/05	06-08-05
	Ethylbenzene	ND	0.50 µg/L	06/07/05	06-08-05
	m,p-Xylene	ND	0.50 µg/L	06/07/05	06-08-05
	o-Xylene	ND	0.50 µg/L	06/07/05	06-08-05

Reported in micrograms per liter, per client request

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 / info@alpha-analytical.com

6/8/05

Report Date



Alpha Analytical, Inc.

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

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

VOC Sample Preservation Report

Work Order STR05060840

Project: USA57

Alpha's Sample ID	Client's Sample ID	Matrix	pH
05060840-01A	EFF	Aqueous	2

6/8/05
Report Date



Alpha Analytical, Inc.

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

Date:
21-Jun-05

QC Summary Report

Work Order:
05060840

Method Blank

Type: MBLK Test Code: EPA Method ~~SW8015B/DHS~~ LUFT Manual

File ID: D:\HPCHEM\MS10\DATA\050608\05060806.D

Batch ID: MS10W0608B

Analysis Date: 06/08/2005 09:22

Sample ID: MBLK MS10W0608B

Units: µg/L

Run ID: MSD_10_050608B

Prep Date: 06/08/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	ND	50								
Surr: 1,2-Dichloroethane-d4	9.95		10		100	75	128			
Surr: Toluene-d8	10.1		10		101	84	113			
Surr: 4-Bromofluorobenzene	9.33		10		93	79	119			

Laboratory Control Spike

Type: LCS Test Code: EPA Method ~~SW8015B/DHS~~ LUFT Manual

File ID: D:\HPCHEM\MS10\DATA\050608\05060803.D

Batch ID: MS10W0608B

Analysis Date: 06/08/2005 08:13

Sample ID: GLCS MS10W0608B

Units: µg/L

Run ID: MSD_10_050608B

Prep Date: 06/08/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	429	50	400		107	79	127			
Surr: 1,2-Dichloroethane-d4	10.4		10		104	76	128			
Surr: Toluene-d8	9.78		10		98	84	113			
Surr: 4-Bromofluorobenzene	9.2		10		92	79	119			

Sample Matrix Spike

Type: MS Test Code: EPA Method ~~SW8015B/DHS~~ LUFT Manual

File ID: D:\HPCHEM\MS10\DATA\050608\05060815.D

Batch ID: MS10W0608B

Analysis Date: 06/08/2005 12:33

Sample ID: 05060745-02AGS

Units: µg/L

Run ID: MSD_10_050608B

Prep Date: 06/08/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	1950	250	2000	0	98	70	139			
Surr: 1,2-Dichloroethane-d4	53.3		50		107	76	128			
Surr: Toluene-d8	48.6		50		97	84	113			
Surr: 4-Bromofluorobenzene	44.7		50		89	79	119			

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method ~~SW8015B/DHS~~ LUFT Manual

File ID: D:\HPCHEM\MS10\DATA\050608\05060816.D

Batch ID: MS10W0608B

Analysis Date: 06/08/2005 12:55

Sample ID: 05060745-02AGSD

Units: µg/L

Run ID: MSD_10_050608B

Prep Date: 06/08/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	2070	250	2000	0	103	70	139	1955	5.7(12)	
Surr: 1,2-Dichloroethane-d4	51.4		50		103	76	128			
Surr: Toluene-d8	50.3		50		101	84	113			
Surr: 4-Bromofluorobenzene	44.9		50		90	79	119			

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-Jun-05

OC Summary Report

Work Order:
05060840

Method Blank

Type: MBLK Test Code: EPA Method SW8260B

File ID: D:\HPCHEMMS10\DATA\050608\05060806.D

Batch ID: MS10W0608A

Analysis Date: 06/08/2005 09:22

Sample ID: MBLK MS10W0608A

Units: µg/L

Run ID: MSD_10_050608B

Prep Date: 06/08/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol TBA	ND	10								
Methyl tert-butyl ether MTBE	ND	0.5								
Diisopropyl Ether DPE	ND	1								
Ethyl Tertiary Butyl Ether ETBE	ND	1								
Benzene	ND	0.5								
Tertiary Amyl Methyl Ether TAME	ND	1								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	9.95		10		100	76	127			
Surr: Toluene-d8	10.1		10		101	84	113			
Surr: 4-Bromofluorobenzene	9.33		10		93	79	119			

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: D:\HPCHEMMS10\DATA\050608\05060804.D

Batch ID: MS10W0608A

Analysis Date: 06/08/2005 08:34

Sample ID: LCS MS10W0608A

Units: µg/L

Run ID: MSD_10_050608B

Prep Date: 06/08/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	10.4	0.5	10		104	81	122			
Toluene	9.96	0.5	10		99.6	80	120			
Ethylbenzene	9.95	0.5	10		100	80	120			
m,p-Xylene	9.72	0.5	10		97	80	129			
o-Xylene	9.76	0.5	10		98	80	129			
Surr: 1,2-Dichloroethane-d4	10.8		10		108	76	127			
Surr: Toluene-d8	10.4		10		104	84	113			
Surr: 4-Bromofluorobenzene	8.96		10		90	79	119			

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: D:\HPCHEMMS10\DATA\050608\05060817.D

Batch ID: MS10W0608A

Analysis Date: 06/08/2005 13:16

Sample ID: 05060745-02AMS

Units: µg/L

Run ID: MSD_10_050608B

Prep Date: 06/08/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	49	1.3	50		0 98	74	125			
Toluene	46.3	1.3	50		0 93	76	120			
Ethylbenzene	46.5	1.3	50		0 93	77	124			
m,p-Xylene	45.2	1.3	50		0 90	73	130			
o-Xylene	45.6	1.3	50		0 91	74	131			
Surr: 1,2-Dichloroethane-d4	52.6		50		105	76	127			
Surr: Toluene-d8	50.8		50		102	84	113			
Surr: 4-Bromofluorobenzene	43.8		50		88	79	119			

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: D:\HPCHEMMS10\DATA\050608\05060818.D

Batch ID: MS10W0608A

Analysis Date: 06/08/2005 13:38

Sample ID: 05060745-02AMSD

Units: µg/L

Run ID: MSD_10_050608B

Prep Date: 06/08/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	49.9	1.3	50		0 99.7	74	124	48.97	1.8(13)	
Toluene	47.2	1.3	50		0 94	76	119	46.28	1.9(13)	
Ethylbenzene	47.7	1.3	50		0 95	77	124	46.48	2.5(13)	
m,p-Xylene	45.4	1.3	50		0 91	73	130	45.23	0.3(14)	
o-Xylene	46.6	1.3	50		0 93	74	131	45.58	2.1(13)	
Surr: 1,2-Dichloroethane-d4	51.6		50		103	76	127			
Surr: Toluene-d8	50.9		50		102	84	113			
Surr: 4-Bromofluorobenzene	44.8		50		90	79	119			

Comments:

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

Alpha Analytical, Inc.

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

Sample Receipt Checklist

Date Report is due to Client : 6/8/2005

Date of Notice : 6/8/2005 9:40:19 AM

Please take note of any NO check marks. If we receive no response concerning these items within 24 hours of the date of this notice, all of the samples will be analyzed as requested.

Client Name: Stratus Environmental

Project ID: 3367

Project Manager: Gowri Kowtha

Client's Email: gowri@stratusenv.com

Client's Phone: 530 676-6002

Client's FAX: (530) 676-6005

Work Order Number: STR05060840

Date Received: 6/8/2005

Received by: Laticia Gayle Edrosa

Chain of Custody (COC) Information

Carrier name: FedEx

Chain of custody present ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Custody seals intact on shipping container/cooler ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles ?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody signed when relinquished and received ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample ID noted by Client on COC ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and time of collection noted by Client on COC ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samplers's name noted on COC ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Internal Chain of Custody (COC) requested ?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sub Contract Lab Used :	None <input checked="" type="checkbox"/>	SEM <input type="checkbox"/>	Other (see comments) <input type="checkbox"/>

Sample Receipt Information

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Cooler Temperature
Container/Temp Blank temperature in compliance (0-6°C)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	4 °C
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
TOC Water - pH acceptable upon receipt (H2SO4 pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>

Analytical Requirements Information

Are non-Standard or Modified methods requested ?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Are there client specific Project requirements ?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	If YES : see the Chain of Custody (COC)

Comments : Chain split into two separate work orders due to different TAT's. See Work Order STR05060841 for remaining samples.

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA RUSH ^{Page 1 of 1}

Alpha Analytical, Inc.

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

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

WorkOrder : STR05060840

Report Due By : 5:00 PM On : 08-Jun-05

Client:

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

Gowri Kowtha

TEL : (530) 676-6002 x
FAX : (530) 676-6005
EMail gkowtha@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

Report Attention : Gowri Kowtha

Job : USA57

Cooler Temp : 4 °C

Date Printed:

CC Report :

PO :

Client's COC # : 08408

08-Jun-05

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles				TPHP_W	VOC_W	Requested Tests	Sample Remarks
				ORG	SUB	TAT	PWS #				
STR05060840-01A	EFF	AQ	08/07/05 09:39	5	0	1		GAS-C	BTEX/OXY-C		

Comments: Security seals intact. Frozen ice. ASAP TAT. Chain split into two separate work orders due to different TAT's. See Work Order STR05060841 for remaining samples.

Received by: *Latricia Edrosa* Signature Latricia Edrosa Print Name Alpha Analytical, Inc. Company 6/8/05 9:40 Date/Time

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client at their 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-Von B-Boil Jar O-Other 1-Liter 2-Liter 3-Liter 4-Liter 5-Liter 6-Liter 7-Liter 8-Liter 9-Liter 10-Liter 11-Liter 12-Liter 13-Liter 14-Liter 15-Liter 16-Liter 17-Liter 18-Liter 19-Liter 20-Liter 21-Liter 22-Liter 23-Liter 24-Liter 25-Liter 26-Liter 27-Liter 28-Liter 29-Liter 30-Liter 31-Liter 32-Liter 33-Liter 34-Liter 35-Liter 36-Liter 37-Liter 38-Liter 39-Liter 40-Liter 41-Liter 42-Liter 43-Liter 44-Liter 45-Liter 46-Liter 47-Liter 48-Liter 49-Liter 50-Liter 51-Liter 52-Liter 53-Liter 54-Liter 55-Liter 56-Liter 57-Liter 58-Liter 59-Liter 60-Liter 61-Liter 62-Liter 63-Liter 64-Liter 65-Liter 66-Liter 67-Liter 68-Liter 69-Liter 70-Liter 71-Liter 72-Liter 73-Liter 74-Liter 75-Liter 76-Liter 77-Liter 78-Liter 79-Liter 80-Liter 81-Liter 82-Liter 83-Liter 84-Liter 85-Liter 86-Liter 87-Liter 88-Liter 89-Liter 90-Liter 91-Liter 92-Liter 93-Liter 94-Liter 95-Liter 96-Liter 97-Liter 98-Liter 99-Liter 100-Liter

Billing Information:

Name Status ENV
 Address 3330 Cameron Pkz DR
 City, State, Zip Cary NC
 Phone Number 530 676 6004 Fax 530 676 6004



Alpha Analytical, Inc.

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

Page # 1 of 1

Client Name		P.O. #		Job #		Analyses Required										REMARKS		
Address		PWS #		DWR #														
City, State, Zip		Phone #		Fax #														
Time Sampled	Date Sampled	Matrix* See Key Below	Office Use Only	Lab ID Number	Sampled by	Report Attention	Total and type of containers ** See below											
					CHILL	Cameron / Stan												
1134	6-29	AQ					5-V	X	X									Standard
0939	6-29	AQ		STR050608-10-01			5-V	X	X									24 HR
0711	6-29	AQ					5-V	X	X									Standard

ADDITIONAL INSTRUCTIONS:

Relinquished by	Signature	Print Name	Company	Date	Time
Received by		Mike Hildner	Status Alpha	6-29-05	12:00
Relinquished by		Lisa Bayles	ALPHA	6-29-05	12:00
Received by	Leticia Edrassa	Leticia Edrassa	Alpha	6-30-05	9:40
Relinquished by					
Received by					

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

NOTE: Samples are discarded 60 days after 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



ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 06/29/05

Job#: 2007-0057-01/USA 57

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

	Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	TPH Purgeable	ND	50 µg/L	06/28/05	06/30/05
Effluent	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	06/28/05	06/30/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	06/28/05	06/30/05
STR05062961-01A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	06/28/05	06/30/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	06/28/05	06/30/05
	Benzene	ND	0.50 µg/L	06/28/05	06/30/05
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	06/28/05	06/30/05
	Toluene	ND	0.50 µg/L	06/28/05	06/30/05
	Ethylbenzene	ND	0.50 µg/L	06/28/05	06/30/05
	m,p-Xylene	ND	0.50 µg/L	06/28/05	06/30/05
	o-Xylene	ND	0.50 µg/L	06/28/05	06/30/05
Client ID :	TPH Purgeable	ND	50 µg/L	06/28/05	06/30/05
Mid GAC	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	06/28/05	06/30/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	06/28/05	06/30/05
STR05062961-02A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	06/28/05	06/30/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	06/28/05	06/30/05
	Benzene	ND	0.50 µg/L	06/28/05	06/30/05
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	06/28/05	06/30/05
	Toluene	ND	0.50 µg/L	06/28/05	06/30/05
	Ethylbenzene	ND	0.50 µg/L	06/28/05	06/30/05
	m,p-Xylene	ND	0.50 µg/L	06/28/05	06/30/05
	o-Xylene	ND	0.50 µg/L	06/28/05	06/30/05
Client ID :	TPH Purgeable	ND	50 µg/L	06/28/05	06/30/05
Influent	Tertiary Butyl Alcohol (TBA)	52	10 µg/L	06/28/05	06/30/05
Lab ID :	Methyl tert-butyl ether (MTBE)	2.6	0.50 µg/L	06/28/05	06/30/05
STR05062961-03A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	06/28/05	06/30/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	06/28/05	06/30/05
	Benzene	ND	0.50 µg/L	06/28/05	06/30/05
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	06/28/05	06/30/05
	Toluene	ND	0.50 µg/L	06/28/05	06/30/05
	Ethylbenzene	ND	0.50 µg/L	06/28/05	06/30/05
	m,p-Xylene	ND	0.50 µg/L	06/28/05	06/30/05
	o-Xylene	ND	0.50 µg/L	06/28/05	06/30/05



Alpha Analytical, Inc.

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

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hochhaus

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

RJ

7/7/05

Report Date



Alpha Analytical, Inc.

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

VOC Sample Preservation Report

Work Order: STR05062961

Project: 2007-0057-01/USA 57

Alpha's Sample ID	Client's Sample ID	Matrix	pH
05062961-01A	Effluent	Aqueous	2
05062961-02A	Mid GAC	Aqueous	2
05062961-03A	Influent	Aqueous	2

7/7/05
Report Date



Alpha Analytical, Inc.

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

Date:
12-Jul-05

OC Summary Report

Work Order:
05062961

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/DHS LUFT Manual**

File ID: C:\HPCHEM\MS06\DATA\050630\05063008.D

Batch ID: **MS06W0630B**

Analysis Date: **06/30/2005 10:57**

Sample ID: **MBLK MS06W0630B**

Units: **µg/L**

Run ID: **MSD_06_050630A**

Prep Date: **06/30/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	ND	50								
Surr: 1,2-Dichloroethane-d4	9.58		10		96	76	128			
Surr: Toluene-d8	10.4		10		104	84	113			
Surr: 4-Bromofluorobenzene	9.28		10		93	79	119			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/DHS LUFT Manual**

File ID: C:\HPCHEM\MS06\DATA\050630\05063006.D

Batch ID: **MS06W0630B**

Analysis Date: **06/30/2005 10:13**

Sample ID: **GLCS MS06W0630B**

Units: **µg/L**

Run ID: **MSD_06_050630A**

Prep Date: **06/30/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	404	50	400		101	78	127			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	76	128			
Surr: Toluene-d8	10.4		10		104	84	113			
Surr: 4-Bromofluorobenzene	9.09		10		91	79	119			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/DHS LUFT Manual**

File ID: C:\HPCHEM\MS06\DATA\050630\05063012.D

Batch ID: **MS06W0630B**

Analysis Date: **06/30/2005 12:37**

Sample ID: **05062961-01AGS**

Units: **µg/L**

Run ID: **MSD_06_050630A**

Prep Date: **06/30/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	2160	250	2000		0	108	70	139		
Surr: 1,2-Dichloroethane-d4	50.1		50		100	76	128			
Surr: Toluene-d8	50.9		50		102	84	113			
Surr: 4-Bromofluorobenzene	46.9		50		94	79	119			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/DHS LUFT Manual**

File ID: C:\HPCHEM\MS06\DATA\050630\05063013.D

Batch ID: **MS06W0630B**

Analysis Date: **06/30/2005 13:00**

Sample ID: **05062961-01AGSD**

Units: **µg/L**

Run ID: **MSD_06_050630A**

Prep Date: **06/30/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	2330	250	2000		0	117	70	139	2155	8.0(12)
Surr: 1,2-Dichloroethane-d4	51.8		50		104	76	128			
Surr: Toluene-d8	51.6		50		103	84	113			
Surr: 4-Bromofluorobenzene	45.6		50		91	79	119			

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:
12-Jul-05

QC Summary Report

Work Order:
05062961

Method Blank

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

File ID: **C:\HPCHEM\MS06\DATA\050630\05063008.D**

Batch ID: **MS06W0630A**

Analysis Date: **06/30/2005 10:57**

Sample ID: **MBLK MS06W0630A**

Units: **µg/L**

Run ID: **MSD_06_050630A**

Prep Date: **06/30/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	10								
Methyl tert-butyl ether (MTBE)	ND	0.5								
Di-isopropyl Ether (DIPE)	ND	1								
Ethyl Tertiary Butyl Ether (ETBE)	ND	1								
Benzene	ND	0.5								
Tertiary Amyl Methyl Ether (TAME)	ND	1								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	9.58		10		96	76	127			
Surr: Toluene-d8	10.4		10		104	84	113			
Surr: 4-Bromofluorobenzene	9.28		10		93	79	119			

Laboratory Control Spike

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

File ID: **C:\HPCHEM\MS06\DATA\050630\05063007.D**

Batch ID: **MS06W0630A**

Analysis Date: **06/30/2005 10:35**

Sample ID: **LCS MS06W0630A**

Units: **µg/L**

Run ID: **MSD_06_050630A**

Prep Date: **06/30/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	9.39	0.5	10		94	81	122			
Toluene	10.7	0.5	10		107	80	120			
Ethylbenzene	11.1	0.5	10		111	80	120			
m,p-Xylene	12.2	0.5	10		122	80	129			
o-Xylene	12	0.5	10		120	80	129			
Surr: 1,2-Dichloroethane-d4	9.97		10		99.7	76	127			
Surr: Toluene-d8	10.2		10		102	84	113			
Surr: 4-Bromofluorobenzene	9.09		10		91	79	119			

Sample Matrix Spike

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

File ID: **C:\HPCHEM\MS06\DATA\050630\05063010.D**

Batch ID: **MS06W0630A**

Analysis Date: **06/30/2005 11:52**

Sample ID: **05062961-01AMS**

Units: **µg/L**

Run ID: **MSD_06_050630A**

Prep Date: **06/30/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	45.2	1.3	50	0	90	74	125			
Toluene	49.2	1.3	50	0	98	76	120			
Ethylbenzene	52.7	1.3	50	0	105	77	124			
m,p-Xylene	56.6	1.3	50	0	113	73	130			
o-Xylene	56.4	1.3	50	0	113	74	131			
Surr: 1,2-Dichloroethane-d4	50.6		50		101	76	127			
Surr: Toluene-d8	50		50		100	84	113			
Surr: 4-Bromofluorobenzene	45.8		50		92	79	119			

Sample Matrix Spike Duplicate

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

File ID: **C:\HPCHEM\MS06\DATA\050630\05063011.D**

Batch ID: **MS06W0630A**

Analysis Date: **06/30/2005 12:15**

Sample ID: **05062961-01AMSD**

Units: **µg/L**

Run ID: **MSD_06_050630A**

Prep Date: **06/30/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	42.5	1.3	50	0	85	74	124	45.17	6.0(13)	
Toluene	47	1.3	50	0	94	76	119	49.2	4.6(13)	
Ethylbenzene	49.5	1.3	50	0	99	77	124	52.72	6.4(13)	
m,p-Xylene	53.5	1.3	50	0	107	73	130	56.59	5.7(14)	
o-Xylene	52.8	1.3	50	0	106	74	131	56.38	6.5(13)	
Surr: 1,2-Dichloroethane-d4	49.1		50		98	76	127			
Surr: Toluene-d8	51.5		50		103	84	113			
Surr: 4-Bromofluorobenzene	45.7		50		91	79	119			

Comments:

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

Alpha Analytical, Inc.

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

Sample Receipt Checklist

Date Report is due to Client : 7/8/2005

Date of Notice : 6/29/2005 9:29:53 A

Please take note of any **NO check marks**. If we receive no response concerning these items within 24 hours of the date of this notice, all of the samples will be analyzed as requested.

Client Name: Stratus Environmental	Project ID : 2007-0057-01/USA 57	
Project Manager: Gowri Kowtha	Client's EMail: gkowtha@stratusinc.net	
Work Order Number: STR05062961	Client's Phone: (530) 676-6001	Client's FAX: (530) 676-6005
	Date Received: 6/29/2005	Received by: Stephanie Sifuentes

Chain of Custody (COC) Information

Carrier name Alpha Employee

Chain of custody present ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Custody seals intact on shipping container/cooler ?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles ?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody signed when relinquished and received ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample ID noted by Client on COC ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and time of collection noted by Client on COC ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samplers's name noted on COC ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Internal Chain of Custody (COC) requested ?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sub Contract Lab Used :	None <input checked="" type="checkbox"/>	SEM <input type="checkbox"/>	Other (see comments) <input type="checkbox"/>

Sample Receipt Information

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance (0-6°C)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Cooler Temperature 4 °C
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
TOC Water - pH acceptable upon receipt (H2SO4 pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>

Analytical Requirement Information

Are non-Standard or Modified methods requested ?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Are there client specific Project requirements ?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	If YES : see the Chain of Custody (COC)

Comments :

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

WorkOrder : STR05062961

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

Report Due By : 5:00 PM On : 08-Jul-05

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

Gowri Kowtha
 TEL : (530) 676-6001
 FAX : (530) 676-6005
 EMail gkowtha@stratusinc.net

EDD Required : Yes

Sampled by : MW Morgan

Report Attention : Gowri Kowtha
CC Report :

Job : 2007-0057-01/USA 57
PO :

Client's COC # : 6824

Cooler Temp : 4 °C

Date Printed:
29-Jun-05

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles			PWS #	Requested Tests						Sample Remarks		
				ORG	SUB	TAT		TPHP_W	VOC_W							
STR05062961-01A	Effluent	AQ	06/28/05 06:00	6	0	6		GAS-C	BTEX/OXY C							
STR05062961-02A	Mid GAC	AQ	06/28/05 06:04	6	0	6		GAS-C	BTEX/OXY C							
STR05062961-03A	Influent	AQ	06/28/05 06:08	6	0	6		GAS-C	BTEX/OXY C							

Comments: Samples p/u by Alpha Employee, frozen ice. Send copy of receipt checklist with final report. One day added to TAT due to holiday.

Signature	Print Name	Company	Date/Time
<i>Stephanie Siefert</i>	STEPHANIE SIEFERT	Alpha Analytical, Inc.	6/29/05 9:29

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

Billing Information:

Name Structus Environmental, Inc.
 Address 3330 Cameron Park Dr. #550
 City, State, Zip Cameron Park, CA 95682
 Phone Number 530-766-004 Fax 530-676-6005



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

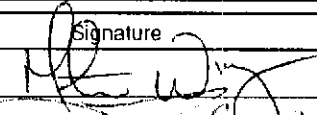
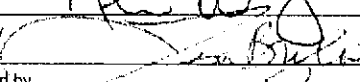
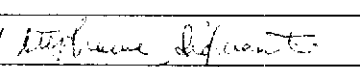
Samples Collected From Which State?

AZ CA NV WA
 ID OR OTHER

Page # 1 of 1

Client Name <u>USA 57</u>			P.O. #		Job # <u>2007-0057-01</u>		Analyses Required <div style="float: right; font-size: 2em; font-weight: bold;">9824</div>													
Address			E-Mail Address														Required QC Level?			
City, State, Zip <u>Oakland, CA</u>			Phone #		Fax #												I II III IV			
Matrix* See Key Below			Office Use Only		Sampled by <u>MW Morgan</u>												Report Attention <u>Govt.</u>		ED0/EDF? YES <input type="checkbox"/> NO <input type="checkbox"/>	
Lab ID Number			Sample Description				TAT		Field Filtered		Total and type of containers ** See below		Global ID #							
													REMARKS							
Time Sampled	Date Sampled	Matrix* See Key Below	Lab ID Number	Sample Description	TAT	Field Filtered	Total and type of containers ** See below	BTEX TPH ₄	SOX _Y 's											
<u>0600</u>	<u>6/24/05</u>	<u>AQ</u>	<u>530-7662401-01</u>	<u>Effluent</u>	<u>S</u>		<u>6-V</u>	<u>X</u>	<u>X</u>											
<u>0604</u>	<u>6/24/05</u>	<u>AQ</u>	<u>-02</u>	<u>MID GAC</u>	<u>S</u>		<u>6-V</u>	<u>X</u>	<u>X</u>											
<u>0608</u>	<u>6/24/05</u>	<u>AQ</u>	<u>-03</u>	<u>Influent</u>	<u>S</u>		<u>6-V</u>	<u>X</u>	<u>X</u>											

ADDITIONAL INSTRUCTIONS:

Signature	Print Name	Company	Date	Time
	<u>Martin W. Morgan</u>	<u>Structus</u>	<u>6/24/05</u>	<u>9:20</u>
	<u>Lisa Bayler</u>	<u>ALPHA</u>	<u>6/24/05</u>	<u>9:25</u>
	<u>STEPHANIE SIFRENTES</u>	<u>ALPHA</u>	<u>6/29/05</u>	<u>9:29</u>

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other
 NOTE: Samples are discarded 60 days after 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.



ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Kiran Nagaraju
Phone: (530) 676-6005
Fax: (530) 676-6005
Date Received : 07/02/05

Job#: USA 57

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

	Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	TPH Purgeable	ND	50 µg/L	07/01/05	07/06/05
INF	Tertiary Butyl Alcohol (TBA)	64	10 µg/L	07/01/05	07/06/05
Lab ID :	Methyl tert-butyl ether (MTBE)	2.2	0.50 µg/L	07/01/05	07/06/05
STR05070560-01A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	07/01/05	07/06/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	07/01/05	07/06/05
	Benzene	ND	0.50 µg/L	07/01/05	07/06/05
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	07/01/05	07/06/05
	Toluene	ND	0.50 µg/L	07/01/05	07/06/05
	Ethylbenzene	ND	0.50 µg/L	07/01/05	07/06/05
	m,p-Xylene	ND	0.50 µg/L	07/01/05	07/06/05
	o-Xylene	ND	0.50 µg/L	07/01/05	07/06/05
Client ID :	TPH Purgeable	ND	50 µg/L	07/01/05	07/06/05
GAC-1	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	07/01/05	07/06/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	07/01/05	07/06/05
STR05070560-02A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	07/01/05	07/06/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	07/01/05	07/06/05
	Benzene	ND	0.50 µg/L	07/01/05	07/06/05
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	07/01/05	07/06/05
	Toluene	ND	0.50 µg/L	07/01/05	07/06/05
	Ethylbenzene	ND	0.50 µg/L	07/01/05	07/06/05
	m,p-Xylene	ND	0.50 µg/L	07/01/05	07/06/05
	o-Xylene	ND	0.50 µg/L	07/01/05	07/06/05
Client ID :	TPH Purgeable	ND	50 µg/L	07/01/05	07/06/05
EFF	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	07/01/05	07/06/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	07/01/05	07/06/05
STR05070560-03A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	07/01/05	07/06/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	07/01/05	07/06/05
	Benzene	ND	0.50 µg/L	07/01/05	07/06/05
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	07/01/05	07/06/05
	Toluene	ND	0.50 µg/L	07/01/05	07/06/05
	Ethylbenzene	ND	0.50 µg/L	07/01/05	07/06/05
	m,p-Xylene	ND	0.50 µg/L	07/01/05	07/06/05
	o-Xylene	ND	0.50 µg/L	07/01/05	07/06/05



Alpha Analytical, Inc.

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

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

Reported in micrograms per liter, per client request

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 / info@alpha-analytical.com

PS

7/12/05

Report Date



Alpha Analytical, Inc.

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

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

VOC Sample Preservation Report

Work Order: STR05070560

Project: USA 57

Alpha's Sample ID	Client's Sample ID	Matrix	pH
05070560-01A	INF	Aqueous	2
05070560-02A	GAC-1	Aqueous	2
05070560-03A	EFF	Aqueous	2

7/12/05
Report Date



Alpha Analytical, Inc.

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

Date:
13-Jul-05

QC Summary Report

Work Order:
05070560

Method Blank

File ID: D:\HPCHEM\MS10\DATA\050706\05070606.D

Type: **MBLK** Test Code: **EPA Method SW8015B/DHS LUFT Manual**

Batch ID: **MS10W0706B**

Analysis Date: **07/06/2005 10:37**

Sample ID: **MBLK MS10W0706B**

Units: **µg/L**

Run ID: **MSD_10_050706A**

Prep Date: **07/06/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	ND	50								
Surr: 1,2-Dichloroethane-d4	8.4		10		84	76	128			
Surr: Toluene-d8	10.1		10		101	84	113			
Surr: 4-Bromofluorobenzene	9.74		10		97	79	119			

Laboratory Control Spike

File ID: D:\HPCHEM\MS10\DATA\050706\05070604.D

Type: **LCS** Test Code: **EPA Method SW8015B/DHS LUFT Manual**

Batch ID: **MS10W0706B**

Analysis Date: **07/06/2005 09:53**

Sample ID: **GLCS MS10W0706B**

Units: **µg/L**

Run ID: **MSD_10_050706A**

Prep Date: **07/06/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	431	50	400		108	78	127			
Surr: 1,2-Dichloroethane-d4	9.19		10		92	76	128			
Surr: Toluene-d8	10.1		10		101	84	113			
Surr: 4-Bromofluorobenzene	9.49		10		95	79	119			

Sample Matrix Spike

File ID: D:\HPCHEM\MS10\DATA\050706\05070614.D

Type: **MS** Test Code: **EPA Method SW8015B/DHS LUFT Manual**

Batch ID: **MS10W0706B**

Analysis Date: **07/06/2005 13:53**

Sample ID: **05070560-01AGS**

Units: **µg/L**

Run ID: **MSD_10_050706A**

Prep Date: **07/06/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	1920	250	2000		0	96	70	139		
Surr: 1,2-Dichloroethane-d4	44.9		50		90	76	128			
Surr: Toluene-d8	49.7		50		99	84	113			
Surr: 4-Bromofluorobenzene	47.2		50		94	79	119			

Sample Matrix Spike Duplicate

File ID: D:\HPCHEM\MS10\DATA\050706\05070615.D

Type: **MSD** Test Code: **EPA Method SW8015B/DHS LUFT Manual**

Batch ID: **MS10W0706B**

Analysis Date: **07/06/2005 14:15**

Sample ID: **05070560-01AGSD**

Units: **µg/L**

Run ID: **MSD_10_050706A**

Prep Date: **07/06/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	1920	250	2000		0	96	70	139	1925	0.1(12)
Surr: 1,2-Dichloroethane-d4	44.2		50		88	76	128			
Surr: Toluene-d8	50.1		50		100	84	113			
Surr: 4-Bromofluorobenzene	48.1		50		96	79	119			

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:
13-Jul-05

OC Summary Report

Work Order:
05070560

Method Blank

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

File ID: D:\HPCHEM\MS10\DATA\050706\05070606.D

Batch ID: **MS10W0706A**

Analysis Date: **07/06/2005 10:37**

Sample ID: **MBLK MS10W0706A**

Units: **µg/L**

Run ID: **MSD_10_050706A**

Prep Date: **07/06/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	10								
Methyl tert-butyl ether (MTBE)	ND	0.5								
Di-isopropyl Ether (DIPE)	ND	1								
Ethyl Tertiary Butyl Ether (ETBE)	ND	1								
Benzene	ND	0.5								
Tertiary Amyl Methyl Ether (TAME)	ND	1								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	8.4		10		84	76	127			
Surr: Toluene-d8	10.1		10		101	84	113			
Surr: 4-Bromofluorobenzene	9.74		10		97	79	119			

Laboratory Control Spike

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

File ID: D:\HPCHEM\MS10\DATA\050706\05070605.D

Batch ID: **MS10W0706A**

Analysis Date: **07/06/2005 10:15**

Sample ID: **LCS MS10W0706A**

Units: **µg/L**

Run ID: **MSD_10_050706A**

Prep Date: **07/06/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	10.6	0.5	10		106	81	122			
Toluene	10.6	0.5	10		106	80	120			
Ethylbenzene	10.6	0.5	10		106	80	120			
m,p-Xylene	10.9	0.5	10		109	80	129			
o-Xylene	10.6	0.5	10		106	80	129			
Surr: 1,2-Dichloroethane-d4	9.41		10		94	76	127			
Surr: Toluene-d8	10.5		10		105	84	113			
Surr: 4-Bromofluorobenzene	9.14		10		91	79	119			

Sample Matrix Spike

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

File ID: D:\HPCHEM\MS10\DATA\050706\05070612.D

Batch ID: **MS10W0706A**

Analysis Date: **07/06/2005 13:10**

Sample ID: **05070560-01AMS**

Units: **µg/L**

Run ID: **MSD_10_050706A**

Prep Date: **07/06/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	50	1.3	50	0	100	74	125			
Toluene	50.3	1.3	50	0	101	76	120			
Ethylbenzene	51.2	1.3	50	0	102	77	124			
m,p-Xylene	52.7	1.3	50	0	105	73	130			
o-Xylene	51.4	1.3	50	0	103	74	131			
Surr: 1,2-Dichloroethane-d4	46.6		50		93	76	127			
Surr: Toluene-d8	50.6		50		101	84	113			
Surr: 4-Bromofluorobenzene	45.6		50		91	79	119			

Sample Matrix Spike Duplicate

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

File ID: D:\HPCHEM\MS10\DATA\050706\05070613.D

Batch ID: **MS10W0706A**

Analysis Date: **07/06/2005 13:32**

Sample ID: **05070560-01AMSD**

Units: **µg/L**

Run ID: **MSD_10_050706A**

Prep Date: **07/06/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	52.2	1.3	50	0	104	74	124	50.02	4.3(13)	
Toluene	52.9	1.3	50	0	106	76	119	50.33	5.0(13)	
Ethylbenzene	54.2	1.3	50	0	108	77	124	51.19	5.7(13)	
m,p-Xylene	55.7	1.3	50	0	111	73	130	52.68	5.5(14)	
o-Xylene	54.9	1.3	50	0	110	74	131	51.4	6.6(13)	
Surr: 1,2-Dichloroethane-d4	44.8		50		90	76	127			
Surr: Toluene-d8	50.7		50		101	84	113			
Surr: 4-Bromofluorobenzene	45.9		50		92	79	119			

Comments:

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

Alpha Analytical, Inc.

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

Sample Receipt Checklist

Date Report is due to Client : 7/8/2005

Date of Notice : 7/5/2005 11:23:12 A

Please take note of any NO check marks. If we receive no response concerning these items within 24 hours of the date of this notice, all of the samples will be analyzed as requested.

Client Name: **Stratus Environmental**

Project ID : USA 57

Project Manager: **Kiran Nagaraju**

Client's EMail: **knagaraju@stratusinc.net**

Work Order Number: **STR05070560**

Client's Phone: **(530) 676-6005**

Client's FAX: **(530) 676-6005**

Date Received: **7/5/2005**

Received by: **Stephanie Sifuentes**

Chain of Custody (COC) Information

Carrier name **FedEx**

Chain of custody present ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Custody seals intact on shipping container/cooler ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles ?	Yes <input type="checkbox"/>	<input type="checkbox"/> No	Not Present <input checked="" type="checkbox"/>
Chain of custody signed when relinquished and received ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Chain of custody agrees with sample labels ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Sample ID noted by Client on COC ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Date and time of collection noted by Client on COC ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Samplers's name noted on COC ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Internal Chain of Custody (COC) requested ?	Yes <input type="checkbox"/>	<input checked="" type="checkbox"/> No	
Sub Contract Lab Used :	None <input checked="" type="checkbox"/>	<input type="checkbox"/> SEM	Other (see comments) <input type="checkbox"/>

Sample Receipt Information

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	Not Present <input type="checkbox"/>
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	Cooler Temperature
Container/Temp Blank temperature in compliance (0-6°C)?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	4 °C
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	No VOA vials submitted <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
TOC Water - pH acceptable upon receipt (H2SO4 pH<2)?	Yes <input type="checkbox"/>	<input type="checkbox"/> No	N/A <input checked="" type="checkbox"/>

Analytical Requirement Information

Are non-Standard or Modified methods requested ?	Yes <input type="checkbox"/>	<input checked="" type="checkbox"/> No	
Are there client specific Project requirements ?	Yes <input type="checkbox"/>	<input checked="" type="checkbox"/> No	If YES : see the Chain of Custody (COC)

Comments :

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

WorkOrder : STR05070560

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

Report Due By : 5:00 PM On : 13-Jul-05

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

Kiran Nagaraju
 TEL : (530) 676-6005
 FAX : (530) 676-6005
 EMail knagaraju@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

Report Attention : Kiran Nagaraju

Job : USA 57

Cooler Temp : 4 °C

Date Printed:

CC Report :

PO :

Client's COC # : 08405

05-Jul-05

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		
				ORG	SUB	TAT	PWS #	TPHP_W	VOC_W								
STR05070560-01A	INF	AQ	07/01/05 05:46	0	0	6		GAS-C	BTEX/OXY C								
STR05070560-02A	GAC-1	AQ	07/01/05 05:54	0	0	6		GAS-C	BTEX/OXY C								
STR05070560-03A	EFF	AQ	07/01/05 05:58	0	0	6		GAS-C	BTEX/OXY C								

Comments: Saturday delivery, security seals intact, samples kept on ice until log in on Tuesday. One day added to TAT due to holiday.
 Send copy of receipt checklist with final report :

Received by:	Signature	Print Name	Company	Date/Time
	<i>Stephanie Sifuentes</i>	STEPHANIE SIFUENTES	Alpha Analytical, Inc.	7/5/05 11:23

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

Client Name: STRATE'S ENV
 Address: 3336 Cameron Pk DR 550
 City, State, Zip: Cameron Pk
 Phone Number: 5306766002 Fax: 5306766005



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

Analyses Required

08405

Client Name		P.O. #		Job #		Analyses Required										REMARKS		
Address		PWS #		DWR #														
City, State, Zip		Phone #		Fax #														
Time Sampled	Date Sampled	Matrix* See Key Below	Office Use Only	Sampled by	Report Attention	Total and type of containers ** See below												
			Lab ID Number	Sample Description														
0546	7-1-05	ALC		CHILL	Kiran	5-V	T	+										
0594						5-V	X	+										
0598						5-V	T	+										

TPH6-1344
5045

Standard
TAT

ADDITIONAL INSTRUCTIONS:

Signature	Print Name	Company	Date	Time
	CHILL	Strate's	7-1-05	1000
	LISA BRYAN	ALPHA	7-1-05	1000
	Lisa Bryan	ALPHA	7-1-05	
	STEPHANIE SIFUENTES	ALPHA	7-5-05	11:23

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other

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

NOTE: Samples are discarded 60 days after 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.