RECEIVED
By Alameda County Environmental Health 11:49 am, Dec 24, 2015

Mr. Keith Nowell
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Grimit Auto Repair and Service, 1970 Seminary Boulevard, Oakland, California
(Fuel Leak Case No. RO0000413)

Dear Mr. Nowell:

Stratus Environmental, Inc. (Stratus) has recently prepared a report entitled *Final Groundwater Discharge Report, Fourth Quarter 2015* on my behalf. The report was prepared in regards to Alameda County Fuel Leak Case No. RO0000413, for Grimit Auto Repair and Service, 1970 Seminary Boulevard, Oakland, California.

I have reviewed a copy of this report, sent to me by representatives of Stratus, and "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge."

If you have any questions, please contact me via electronic mail at peggy.h.garcia@sbcglobal.net, or my daughter Angel LaMarca at angelcpt@gmail.com.

Sincerely,

Peggy Garcia, Trustee

Ms. Peggy Garcia, Trustee, Grimit Family Trust

cc: Angel LaMarca

STRATUS
ENVIRONMENTAL, INC.

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

December 10, 2015
Project No. 2090-1970-01

East Bay Municipal Utility District
Environmental Services
Attn: Ms. Nadia Borisova
P.O. Box 24055
Oakland, CA 94623-1055

Re: Final Groundwater Discharge Report, Fourth Quarter 2015
Former Grimit Auto Repair and Service
1970 Seminary Boulevard, Oakland, California

To Ms. Borisova:

Stratus Environmental, Inc. (Stratus) has prepared this letter, on behalf of the Grimit Family Trust, for the Former Grimit Auto Repair and Service facility, located at 1970 Seminary Boulevard, Oakland, California (Figures 1 and 2). As required by the Special Groundwater Discharge Permit (Permit No. 62203411), this letter acts as a *Final Groundwater Discharge Report* to the East Bay Municipal Utility District (EBMUD) for the pretreatment system maintenance of the groundwater remediation system.

During the fourth quarter 2015, all extracted groundwater was treated using carbon vessels, and discharged into the sanitary sewer (Figure 3). The total quarterly discharge was approximately 2,670 gallons between September 1 and November 10, 2015. The remedial event was completed and the system was shut down on November 10, 2015. The system has since been demobilized from the project site and no additional discharge will be completed. Stratus requests termination of this groundwater discharge permit.

The average monthly discharge and extraction rates for the fourth quarter 2015 are as follows:

- September 1 – October 6, 2015: 1,240 gallons (0.02 gpm)
- October 6 – November 10, 2015 : 1,430 gallons (0.03 gpm)

The system operated in compliance with permit conditions and all effluent sample results were within the permit limitations. A copy of tables consisting of the system's uptime and operational summary, including the totalizer readings, is included in Appendix A. The analytical results and chain-of-custody documentation for the influent, midfluent,

and effluent groundwater samples obtained during the fourth quarter 2015 are included in Appendix B.

I certify under penalty of law that this document and any attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or comments, please call Deborah L. Barr at (530) 313-9974.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

REGISTERED PROFESSIONAL ENGINEER
DEBORAH L. BARR
79541
CIVIL
STATE OF CALIFORNIA

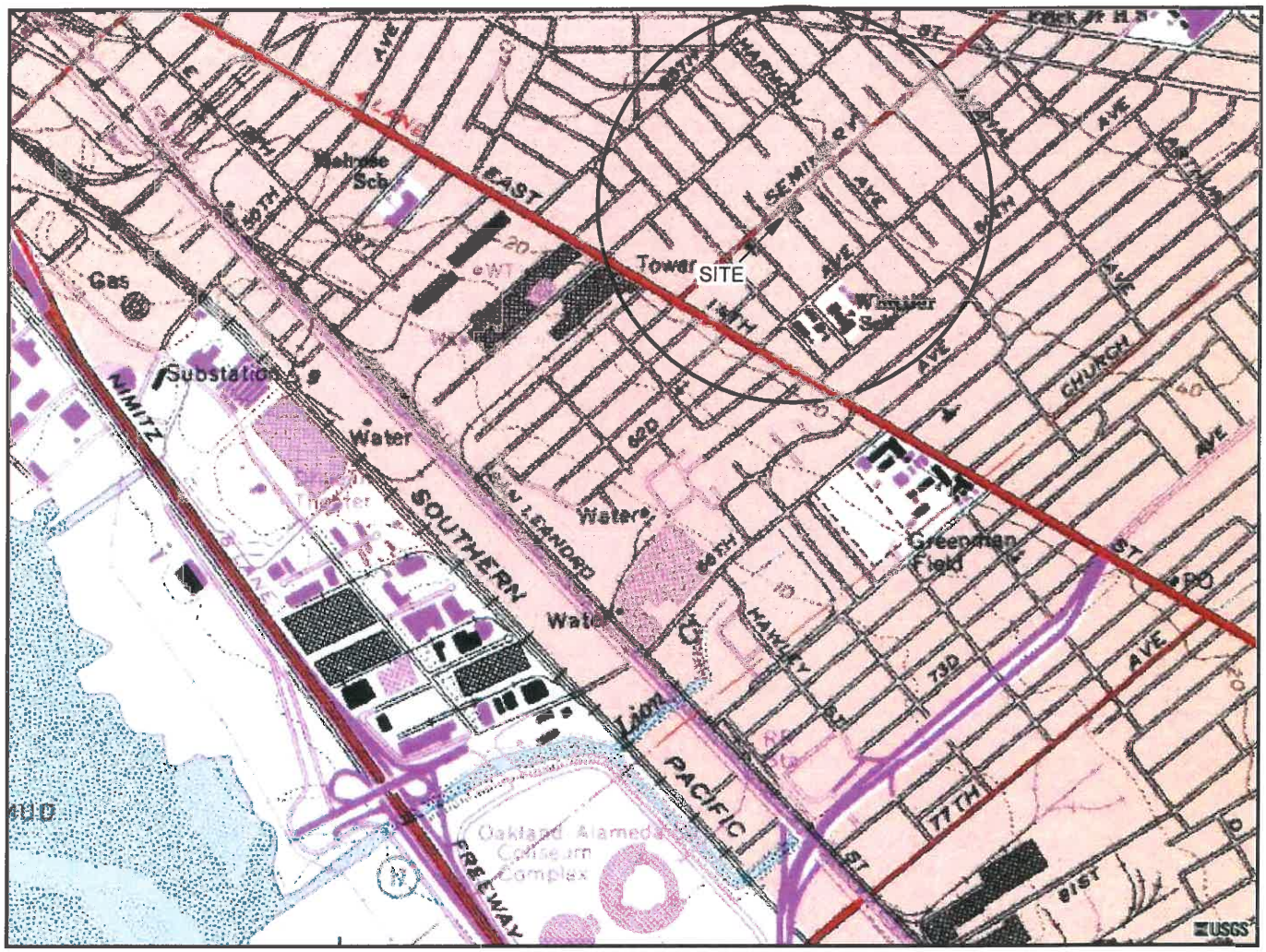
Deborah L. Barr, P.E.
Project Engineer

Scott G. Bittinger, P.G.
Project Manager

Attachments:

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Process Flow Diagram
Appendix A	DPE Remediation Event Tables
Appendix B	Laboratory Analytical Reports and Chain-of-Custody Documentation

cc: Ms. Peggy Garcia, Trustee, Grimit Family Trust
(email:peggy.h.garcia@sbcglobal.net)
Ms. Angel LaMarca *(email: angelcpt@gmail.com)*



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
OAKLAND, CA.
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1996

N

QUADRANGLE LOCATION

0 1800 FT

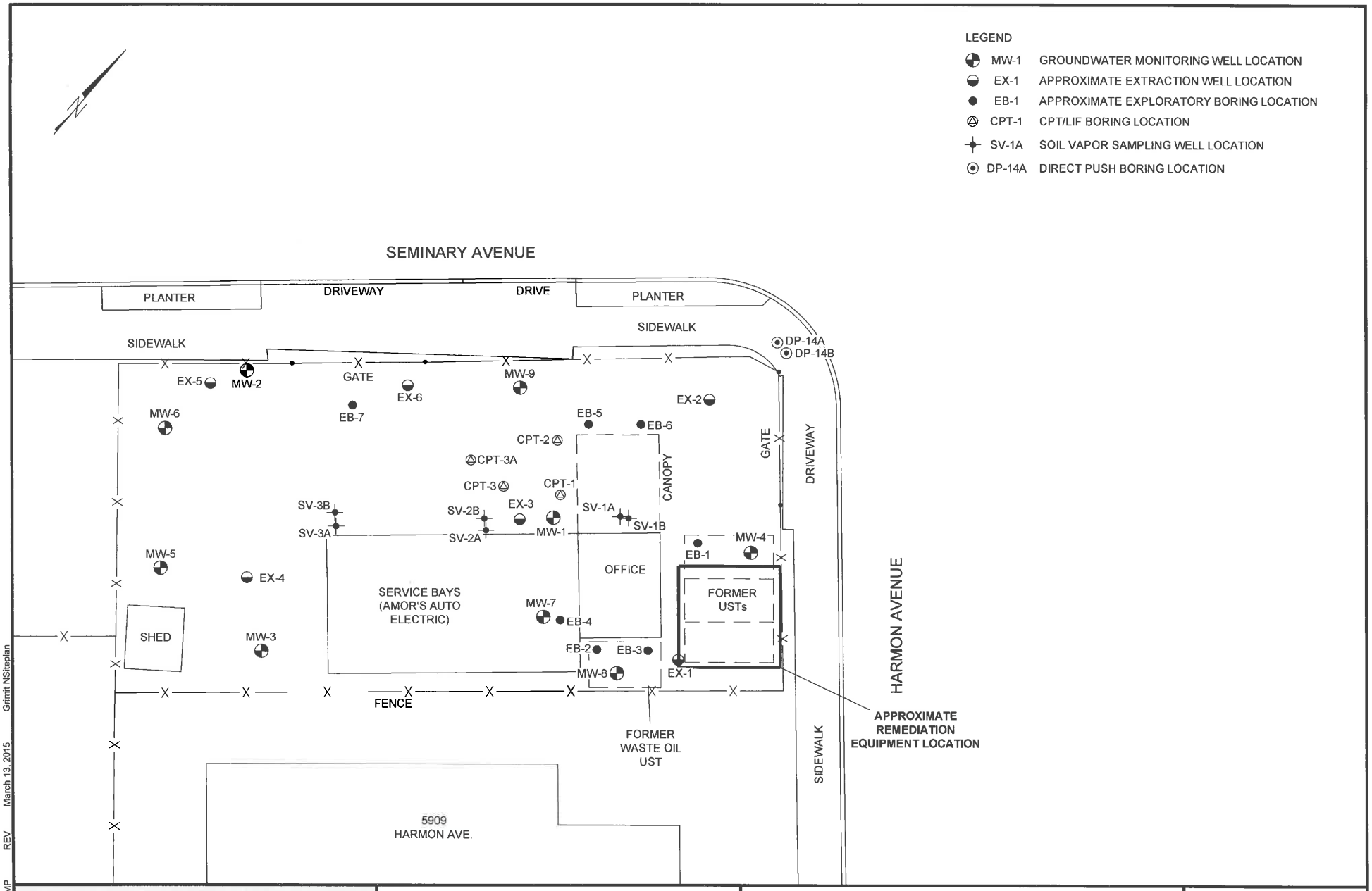
APPROXIMATE SCALE

STRATUS
ENVIRONMENTAL, INC.

FORMER GRIMIT AUTO
1970 SEMINARY AVENUE
OAKLAND, CALIFORNIA

SITE LOCATION MAP

FIGURE
1
PROJECT NO.
2090-1970-01



STRATUS
ENVIRONMENTAL, INC.

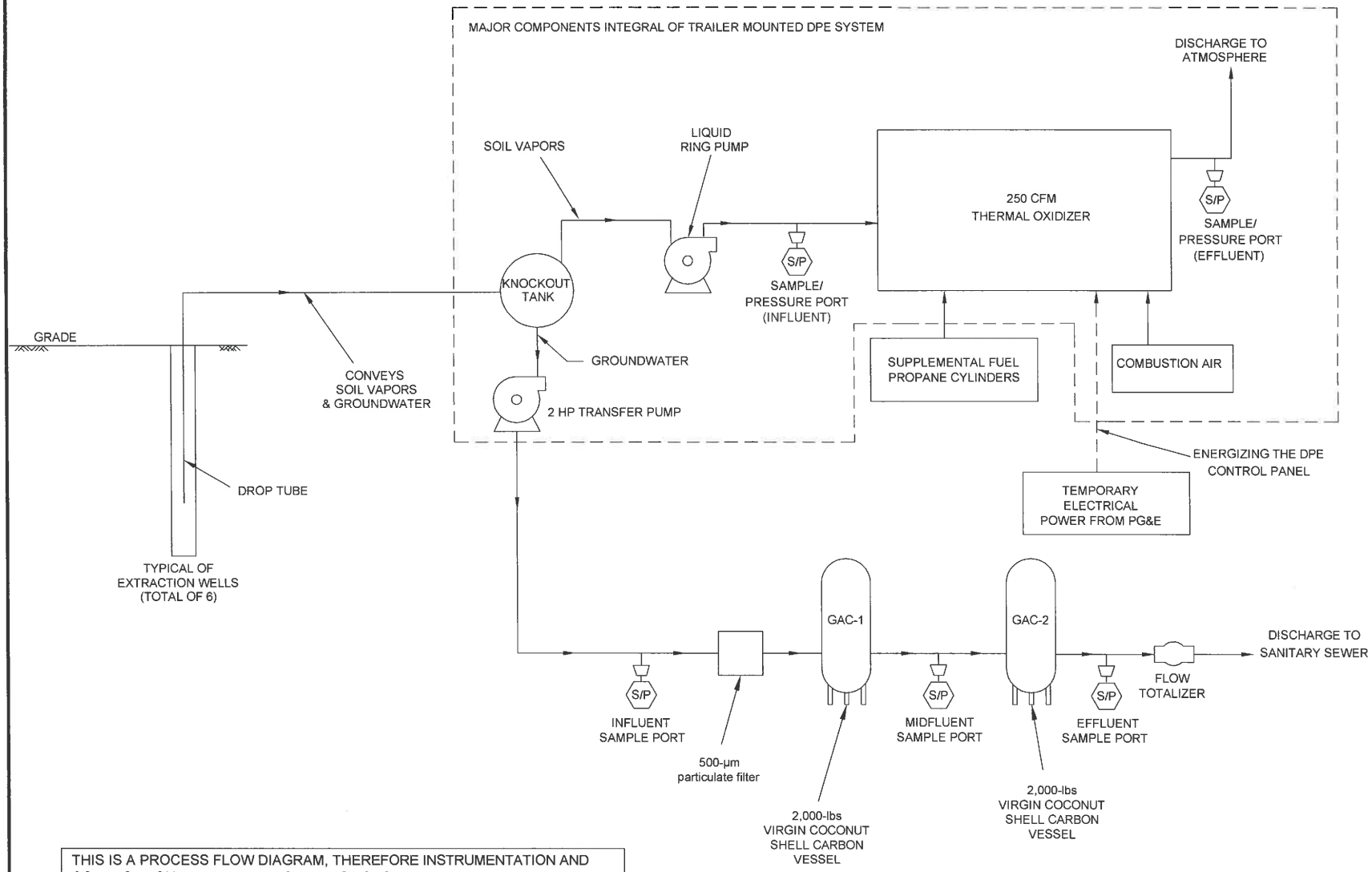
0 20 FT
SCALE

FORMER GRIMIT AUTO
1970 SEMINARY AVENUE
OAKLAND, CALIFORNIA

SITE PLAN

FIGURE
2

PROJECT NO.
2090-1970-1



THIS IS A PROCESS FLOW DIAGRAM, THEREFORE INSTRUMENTATION AND CONTROL EQUIPMENT DETAILS ARE NOT SHOWN.
INSTRUMENT FUNCTIONS AND INTERACTIONS ARE ALSO NOT SHOWN.
EQUIPMENT SIZES ARE NOT PROPORTIONAL AND ARE NOT INDICATIVE OF FINAL SIZES.

DUAL PHASE EXTRACTION SYSTEM
NOT TO SCALE

STRATUS
ENVIRONMENTAL, INC.

FORMER GRIMIT AUTO
1970 SEMINARY AVENUE
OAKLAND, CALIFORNIA

PROCESS FLOW DIAGRAM

FIGURE
3

PROJECT NO.
2090-1970-01

APPENDIX A

DPE REMEDIATION EVENT TABLES

TABLE 5
DPE REMEDIATION EVENT
OPERATIONAL UPTIME AND FLOW SUMMARY
Grimit Auto, 1970 Seminary Ave, Oakland, California

Date & Time	Notes	Hour Meter Reading	Applied Vac	Area	Sys Inf Temp	Sys Inf Air Velocity	Sys Inf Air Flowrate	Control Temp	Effluent Air Temp	Area	Dilution Air Temp	Dilution Air Velocity	Dilution Air Flowrate	PID	
														Sys Inf	Eff
			"Hg	ft^2	°F	fpm	acfm	°F	°F	ft^2	°F	fpm	acfm	ppmv	ppmv
11/18/14 8:30	1	15,631.0	--	0.0873	--	--	--	--	--	--	--	--	--	--	--
11/20/14 8:00		15,631.9	15.0	0.0873	78	1,500	130.9	1,450	1,002	0.0218	65	2,504	55	30	3.6
11/20/14 10:00		15,632.1	10.5	0.0873	95	1,500	130.9	1,543	1,253	0.0218	72	2,222	48	410	2.9
11/20/14 11:00		15,632.1	10.0	0.0873	80	1,500	130.9	1,554	1,285	0.0218	60	2,260	49	35	2.3
11/20/14 12:00		15,632.1	10.0	0.0873	80	1,500	130.9	1,559	1,311	0.0218	67	2,186	48	40	2.1
11/21/14 7:00		15,632.1	10.0	0.0873	90	1,500	130.9	1,537	1,368	0.0218	65	2,140	47	20	2.0
11/25/14 10:10	2	15,632.0	10.0	0.0873	90	1,500	130.9	1,450	1,224	0.0218	--	--	--	58	2.1
12/18/14 7:30	3	0.0	13.5	0.0873	92	1,500	130.9	1,484	--	0.0218	64	2,503	55	8	1.2
12/19/14 7:00		20.0	13.0	0.0873	90	1,500	130.9	1,492	1,305	0.0218	61	2,910	63	100	1.2
12/29/14 7:15		260.0	7.5	0.0873	82	1,500	130.9	1,500	1,430	0.0218	--	--	--	10	1.3
1/5/15 8:50		430.0	8.0	0.0873	100	1,500	130.9	1,451	1,259	0.0218	57	3,020	66	10	2.1
1/19/15 8:00		765.0	10.0	0.0873	90	1,400	122.2	1,491	1,303	0.0218	63	3,122	68	5	1.1
2/2/15 8:00		1,101.0	11.0	0.0873	95	1,500	130.9	1,452	1,268	0.0218	60	3,233	71	1.4	0.8
2/16/15 7:15		1,436.0	11.0	0.0873	90	1,350	117.8	1,485	1,308	0.0218	58	3,314	72	2.0	0.8
3/10/15 8:30		1,965.0	11.0	0.0873	90	1,250	109.1	1,493	1,311	0.0218	63	2,971	65	15	2.1
3/23/15 7:50	4	2,276.0	12.0	0.0873	92	1,250	109.1	1,504	--	0.0218	64	3,418	75	47	1.0
4/2/15 5:45		2,514.0	12.0	0.0873	90	1,250	109.1	1,489	1,307	0.0218	57	3,463	76	100	0.9
4/22/15 6:56		2,995.0	12.0	0.0873	93	1,500	130.9	1,493	--	0.0218	56	3,370	74	25	0.5
5/5/15 8:30		3,309.0	12.0	0.0873	100	1,350	117.8	1,481	1,160	0.0218	63	2,867	63	12	1.8
5/20/15 8:15		3,669.0	12.0	0.0873	100	1,150	100.4	1,560	1,380	0.0218	67	3,011	66	33	0.9
6/2/15 6:10		3,979.0	12.0	0.0873	92	1,200	104.7	1,599	1,321	0.0218	68	3,064	67	40	0.9
6/22/15 8:00		4,460.0	12.0	0.0873	88	1,100	96.0	1,474	840	0.0218	65	3,457	75	30	0.9
7/1/15 7:30	5	4,653.0	--	--	--	--	--	--	--	--	--	--	--	--	--
7/15/15 6:30	6	4,654.0	12.0	0.0873	103	1,500	130.9	1,500	1,172	0.0218	76	2,796	61	45	1.6

TABLE 5
DPE REMEDIATION EVENT
OPERATIONAL UPTIME AND FLOW SUMMARY
Grimit Auto, 1970 Seminary Ave, Oakland, California

Date & Time	Notes	Hour Meter Reading	Applied Vac	Area	Sys Inf Temp	Sys Inf Air Velocity	Sys Inf Air Flowrate	Control Temp	Effluent Air Temp	Area	Dilution Air Temp	Dilution Air Velocity	Dilution Air Flowrate	PID	
														Sys Inf	Eff
			"Hg	ft^2	°F	fpm	acfm	°F	°F	ft^2	°F	fpm	acfm	ppmv	ppmv
8/3/15 7:25	7	4,889.0	--	--	--	--	--	--	--	--	--	--	--	--	--
8/10/15 7:00	8	4,890.0	12.0	0.0873	96	1,200	104.7	1,526	1,266	0.0218	69	2,620	57	150	1.5
8/25/15 7:00		5,248.0	11.0	0.0873	100	1,500	130.9	1,582	1,100	0.0218	71	2,133	47	31	0.9
9/1/15 6:20		5,416.0	11.0	0.0873	110	1,500	130.9	1,520	--	0.0218	66	3,195	70	27	2.1
9/22/15 5:50		5,919.0	10.0	0.0873	92	1,500	130.9	1,543	1,347	0.0218	71	3,517	77	16	1.3
10/6/15 7:00		6,257.0	9.0	0.0873	100	1,500	130.9	1,534	1,210	0.0218	69	3,625	79	13	2.0
10/20/15 10:00		6,595.0	10.0	0.0873	110	1,500	130.9	1,548	1,306	0.0218	66	3,715	81	12	1.0
11/9/15 6:21		7,073.0	11.0	0.0873	90	1,300	113.4	1,572	1,398	0.0218	57	3,539	77	18	1.2
11/10/15 6:00	9	7,096.0	--	--	--	--	--	--	--	--	--	--	--	--	--
Average			11		93	1407	122.8	1,513	1,257		64	2,969	65	46	1.5

Legend / Key:

Vac = Vacuum
"Hg = inches mercury
ft^2 = square feet
Temp = temperature
°F = Fahrenheit
Inf = Influent
-- = not applicable/ not measured
fpm = feet per minute
acfm = actual cubic feet per minute
ppmv = parts per million by volume
PID = Photoionization Detector
Sys Inf = System Influent (includes dilution air)
Eff = Effluent

Sample Calculation:

air flow = area of pipe (0.0491 ft^2) × air velocity (fpm) = flowrate (acfm)

Notes:

Influent pipe diameter = 3.0 inches

1 System operating with DPE, extracting from extraction wells EX-1, EX-2, EX-3, and EX-6. Stingers placed within extraction wells at 29-feet in well EX-1 and 27-feet bgs in wells EX-2, EX-3, and EX-6.
2 System down upon departure, waiting for groundwater sample results and approval from EBMUD to discharge to the sanitary sewer.
3 System down upon arrival, new hour meter installed, system started for continuous operation upon departure.
4 System modified, well MW-1 brought on-line. System extracting from wells EX-1 through EX-3, EX-6, and MW-1 simultaneously.
5 System down upon arrival, lack of propane and filter blocked on liquid ring pump. System remained down upon departure.
6 System down upon arrival, system re-started and sampling event completed upon departure.
7 System down upon arrival, system requires a new motor starter, system remained down upon departure.
8 System down upon arrival, repaired motor, system re-started for continuous operation.
9 End of remedial event. System shut down and removed from site.

TABLE 9a
DPE REMEDIATION EVENT
GROUNDWATER EXTRACTION COMPONENT - GROUNDWATER ANALYTICAL DATA SUMMARY
Grimit Auto, 1970 Seminary Ave, Oakland, California

Date	Notes	Sample Time	Sample Location	Laboratory Sample ID	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Napthalene	PCE	TCE	Vinyl chloride	1,2 DCA	Chloro benzene
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
11/25/14	1	10:35	WINF	STR14112541-01A	**75**	<1.0	<1.0	1.9	4.1	<1.0	3.6	<1.0	<1.0	<1.0	<1.0	<1.0
		10:30	WGAC1	STR14112541-02A	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		10:25	WEFF	STR14112541-03A	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
12/19/14		7:10	WINF	STR14122242-01A	**130**	**1.9**	**2.6**	**4.0**	**9.1**	<0.5	**11**	<1.0	<1.0	<1.0	<1.0	--
		7:20	WGAC1	STR14122243-01A	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	--
		7:15	WEFF	STR14122241-01A	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	--
01/05/15		9:25	WINF	STR15010645-01A	<50	<0.50	<0.50	<0.50	**0.83**	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	--
		9:22	WGAC1	STR15010648-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	--
		9:18	WEFF	STR15010642-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	--
02/02/15		8:35	WINF	STR15020345-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	--
		8:30	WGAC1	STR15020346-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	--
		8:25	WEFF	STR15020343-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	--
03/10/15		9:22	WINF	STR15031145-01A	<50	<0.50	<0.50	<0.50	**0.66**	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	--
		9:18	WGAC1	STR15031146-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	--
		9:13	WEFF	STR15031144-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	--
04/02/15		6:20	WINF	STR15040343-01A	**92**	**0.61**	**0.92**	**1.2**	**10.2**	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		6:15	WGAC1	STR15040343-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		6:10	WEFF	STR15040341-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
05/05/15		9:20	WINF	STR15050652-01A	<50	<0.50	<0.50	<0.50	**1.1**	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		9:15	WGAC1	STR15050652-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		9:10	WEFF	STR15050643-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
06/02/15		6:35	WINF	STR15060303-02A	<50	<0.50	<0.50	<0.50	**2.6**	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		6:30	WGAC1	STR15060303-03A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		6:25	WEFF	STR15060342-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0

TABLE 9a
DPE REMEDIATION EVENT
GROUNDWATER EXTRACTION COMPONENT - GROUNDWATER ANALYTICAL DATA SUMMARY
Grimit Auto, 1970 Seminary Ave, Oakland, California

Date	Notes	Sample Time	Sample Location	Laboratory Sample ID	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Napthalene	PCE	TCE	Vinyl chloride	1,2 DCA	Chloro benzene
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
07/15/15		9:17	WINF	STR15071641-03A	**200,000**	<50	<50	**210**	**2,620**	<0.50	**450**	<100	<100	<100	<100	<100
		8:45	WGAC1	STR15071641-04A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		8:40	WEFF	STR15071641-05A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
08/10/15		10:05	WINF	STR15081141-02A	**7,600**	<5.0	<5.0	**13**	**91**	<5.0	<40	<10	<10	<10	<10	<10
		7:40	WGAC1	STR15081141-03A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		7:35	WEFF	STR15081140-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
09/01/15		6:36	WINF	STR15090250-01A	<50	<0.50	<0.50	<0.50	**1.81**	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		6:33	WGAC1	STR15090250-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		6:31	WEFF	STR15090241-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
10/06/15		7:30	WINF	STR15100748-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		7:25	WGAC1	STR15100748-03A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		7:20	WEFF	STR15100744-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
11/09/15		6:40	WINF	STR15111025-02A	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0[4]	<1.0	<1.0	<1.0	<1.0	--
		6:35	WGAC1	STR15111025-03A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	--
		6:30	WEFF	STR15111024-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<1.0	--

Legend / Key:

GRO = Gasoline Range Organics C4-C13

MTBE = Methyl tertiary butyl ether

BTEX = Benzene, toluene, ethylbenzene, xylenes

µg/L = micrograms per liter

-- = Not analyzed

PCE = tetrachloroethene

TCE = trichloroethene

1,2 DCA = 1,2 - Dichloroethane

Analytical Methods /Laboratory:

GRO analyzed using EPA Method SW8015B/SW8260B

BTEX and MTBE analyzed using EPA Method SW8260B

Volatile Organics analyzed using EPA Method 624/SW8260

Lead analyzed using EPA Method 200.8

Alpha Analytical, Inc. (ELAP # 2019)

[1] Sample was re-analyzed to achieve a lower reporting limit.

[2] DRO concentrations may include contributions from heavier-end hydrocarbons that elute in the DRO range.

[3] Reporting limits were increased due to high concentrations of target analytes.

[4] Reporting limits were increased due to sample foaming.

Notes:

1 DPE test, extracting from extraction wells EX-1, EX-2, EX-3, and EX-6.

TABLE 9b
DPE REMEDIATION EVENT
GROUNDWATER EXTRACTION COMPONENT - GROUNDWATER ANALYTICAL DATA SUMMARY
Grimit Auto, 1970 Seminary Ave, Oakland, California

Date	Notes	Sample Time	Sample Location	Laboratory Sample ID	Mercury µg/L	Cr µg/L	Fe µg/L	As µg/L	Ni µg/L	Cu µg/L	Zn µg/L	Ag µg/L	Cd µg/L	Pb µg/L
11/25/14	1	10:35	WINF	STR14112541-01A	<0.20	<10	**580**	**5.5**	<10	**26**	<100	<5.0	<2.0	<5.0
		10:30	WGAC1	STR14112541-02A	--	--	--	--	--	--	--	--	--	--
		10:25	WEFF	STR14112541-03A	<0.20	<10	<300	**25**	<10	<20	<100	<5.0	<2.0	<5.0

Legend / Key:

Cr = Chromium
Ni = Nickel
Cu = Copper
µg/L = micrograms per liter
-- = Not analyzed
Fe = Iron
As = Arsenic
Zn = Zinc
Ag = Silver
Cd = Cadmium
Pb = Lead

Analytical Methods /Laboratory:

Mercury analyzed using EPA Method 245.1
Methanol/Ethanol using EPA Method SW8260B-DI
Metals using EPA Method 200.8
Alpha Analytical, Inc. (ELAP # 2019)

Notes:

1 DPE test, extracting from extraction wells EX-1, EX-2, EX-3, and EX-6.

TABLE 10
DPE REMEDIATION EVENT
GROUNDWATER EXTRACTION COMPONENT - OPERATIONAL PERFORMANCE AND MASS REMOVAL SUMMARY
Grimit Auto, 1970 Seminary Ave, Oakland, California

Date	Notes	Sample Time	Hour Meter Reading[1]	Sewer Discharge Data				Analytical Results Influent	Mass Removed This Period[b]	Cumulative Mass Removed
				Totalizer Reading (gallons)	Period (gallons)	Cumulative Flow (gallons)	Average Extraction Rate (gpm)[a]	GRO (µg/L)	GRO (lbs)	GRO (lbs)
11/18/14	1	8:30	15,631.0	214,690	--					
11/25/14	1	10:35	15,632.0	215,430	740	740	12.33	75	0.0005	0.0005
12/19/14	2	7:10	20.0	216,030	600	1,340	0.50	130	0.0007	0.001
1/5/15		9:25	430.0	219,180	3,150	4,490	0.13	<50	0.0013	0.002
2/2/15		8:35	1,101.0	221,340	2,160	6,650	0.05	<50	0.0009	0.003
3/10/15		9:22	1,965.0	226,420	5,080	11,730	0.10	<50	0.0021	0.005
4/2/15	3	6:20	2,514.0	228,870	2,450	14,180	0.07	92	0.0019	0.007
5/5/15		9:20	3,309.0	232,510	3,640	17,820	0.08	<50	0.0015	0.009
6/2/15		6:35	3,979.0	235,120	2,610	20,430	0.06	<50	0.0011	0.010
7/15/15		9:17	4,654.0	237,260	2,140	22,570	0.05	200,000	1.79	1.80
8/10/15		10:05	4,890.0	238,200	940	23,510	0.07	7,600	0.81	2.61
9/1/15		6:36	5,416.0	239,230	1,030	24,540	0.03	<50	0.03	2.64
10/6/15		7:30	6,257.0	240,470	1,240	25,780	0.02	<50	0.001	2.64
11/9/15		6:40	7,073.0	241,850	1,380	27,160	0.03	<100	0.001	2.64
11/10/15	4	--	7,096.0	241,900	50	27,210	0.04	--	0.00004	2.64

Legend / Key:

GRO = Gasoline Range Organics C4-C13 | TBA = Tertiary Butyl Alcohol

DRO = Diesel Range Organics C13-C22 | µg/L = micrograms per litre | lbs = pounds

MTBE = Methyl tertiary butyl ether | gpm = gallons per minute | -- = data not collected/not calculated

[a] Approximate groundwater extraction rate between sampling periods, actual extraction rate varies due to system down time.

[b] Mass removed this period (pounds) = Average concentration (µg/L)[between the sample dates] x Period gallons x (2.2046×10^{-9})(lb/µg) / 0.26418 (gal/L)

[1] Hour meter readings were not taken at exact sampling times, therefore, times noted are readings obtained closest to the actual sampling times.

Notes:

1 DPE test, extracting from extraction wells EX-1, EX-2, EX-3, and EX-6.

2 New hour meter was installed, therefore, hour readings re-started at zero reading.

3 On March 23, 2015 system modified extracting from wells EX-1 through EX-3, EX-6 and MW-1.

4 System shut down, end of remedial event, all equipment demobilized from project site.

APPENDIX B

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 10/07/15

Job: Grimit Auto

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B / SW8260B

		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**Grim A SYS INF**					
Lab ID :	STR15100748-01A	TPH-P (GRO)	32	20 mg/m³	10/07/15 15:55	10/12/15
Date Sampled	10/06/15 07:08					
Client ID :	**Grim W INF**					
Lab ID :	STR15100748-02A	TPH-P (GRO)	ND	50 µg/L	10/13/15	10/13/15
Date Sampled	10/06/15 07:30					
Client ID :	**Grim W GAC1**					
Lab ID :	STR15100748-03A	TPH-P (GRO)	ND	50 µg/L	10/13/15	10/13/15
Date Sampled	10/06/15 07:25					

Gasoline Range Organics (GRO) C4-C13
Note: For sample -01A concentrations of air in a Tedlar Bag are at 25 degrees Celsius and 25.75 inches of mercury.
ND = Not Detected
Reported in micrograms per Liter, per client request.

ACCLASS ACCREDITED DoD ELAP

Roger Scholl Randy Gardner

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.
Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

10/14/15
Report Date

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job: Grimit Auto

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005

Alpha Analytical Number: STR15100748-01A
Client I.D. Number: Grim A SYS INF

Sampled: 10/06/15 07:08
Received: 10/07/15
Extracted: 10/07/15 15:55
Analyzed: 10/12/15

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	0.80 mg/m³
2	Vinyl chloride	ND	0.40 mg/m³
3	Chloroethane	ND	0.40 mg/m³
4	Bromomethane	ND	0.80 mg/m³
5	Trichlorofluoromethane	ND	0.40 mg/m³
6	1,1-Dichloroethene	ND	0.40 mg/m³
7	Tertiary Butyl Alcohol (TBA)	ND	10 mg/m³
8	Dichloromethane	ND	0.80 mg/m³
9	trans-1,2-Dichloroethene	ND	0.40 mg/m³
10	Methyl tert-butyl ether (MTBE)	ND	0.20 mg/m³
11	1,1-Dichloroethane	ND	0.40 mg/m³
12	Di-isopropyl Ether (DIPE)	ND	0.40 mg/m³
13	cis-1,2-Dichloroethene	ND	0.40 mg/m³
14	Chloroform	ND	0.40 mg/m³
15	Ethyl Tertiary Butyl Ether (ETBE)	ND	0.40 mg/m³
16	1,1,1-Trichloroethane	ND	0.40 mg/m³
17	Carbon tetrachloride	ND	0.40 mg/m³
18	Benzene	ND	0.20 mg/m³
19	Tertiary Amyl Methyl Ether (TAME)	ND	0.40 mg/m³
20	1,2-Dichloropropane	ND	0.40 mg/m³
21	Trichloroethene	ND	0.40 mg/m³
22	Bromodichloromethane	ND	0.40 mg/m³
23	cis-1,3-Dichloropropene	ND	0.40 mg/m³
24	trans-1,3-Dichloropropene	ND	0.40 mg/m³
25	1,1,2-Trichloroethane	ND	0.40 mg/m³
26	Toluene	ND	0.20 mg/m³
27	Dibromochloromethane	ND	0.40 mg/m³
28	1,2-Dibromoethane (EDB)	ND	0.80 mg/m³
29	Tetrachloroethene	ND	0.40 mg/m³
30	Chlorobenzene	ND	0.40 mg/m³
31	Ethylbenzene	ND	0.20 mg/m³
32	m,p-Xylene	ND	0.20 mg/m³
33	Bromoform	ND	0.40 mg/m³
34	o-Xylene	ND	0.20 mg/m³
35	1,1,2,2-Tetrachloroethane	ND	0.40 mg/m³
36	n-Propylbenzene	ND	0.40 mg/m³
37	1,2,4-Trimethylbenzene	ND	0.40 mg/m³
38	1,3-Dichlorobenzene	ND	0.40 mg/m³
39	1,4-Dichlorobenzene	ND	0.40 mg/m³
40	1,2-Dichlorobenzene	ND	0.40 mg/m³

Note: Concentrations of air in a Tedlar Bag are at 25 degrees Celsius and 25.75 inches of mercury.

ND = Not Detected

Roger Scholl Randy Gardner

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager

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10/14/15
Report Date

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job: Grimit Auto

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005

Alpha Analytical Number: STR15100748-02A
Client I.D. Number: Grim W INF

Sampled: 10/06/15 07:30
Received: 10/07/15
Extracted: 10/13/15
Analyzed: 10/13/15

Volatile Organics by GC/MS
EPA Method 624/8260

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	2.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L
4	Bromomethane	ND	2.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L
7	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L
8	Dichloromethane	ND	2.0 µg/L
9	trans-1,2-Dichloroethene	ND	1.0 µg/L
10	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L
11	1,1-Dichloroethane	ND	1.0 µg/L
12	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L
13	cis-1,2-Dichloroethene	ND	1.0 µg/L
14	Chloroform	ND	1.0 µg/L
15	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L
16	1,2-Dichloroethane	ND	1.0 µg/L
17	1,1,1-Trichloroethane	ND	1.0 µg/L
18	Carbon tetrachloride	ND	1.0 µg/L
19	Benzene	ND	0.50 µg/L
20	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L
21	1,2-Dichloropropane	ND	1.0 µg/L
22	Trichloroethene	ND	1.0 µg/L
23	Bromodichloromethane	ND	1.0 µg/L
24	cis-1,3-Dichloropropene	ND	1.0 µg/L
25	trans-1,3-Dichloropropene	ND	1.0 µg/L
26	1,1,2-Trichloroethane	ND	1.0 µg/L
27	Toluene	ND	0.50 µg/L
28	Dibromochloromethane	ND	1.0 µg/L
29	1,2-Dibromoethane (EDB)	ND	2.0 µg/L
30	Tetrachloroethene	ND	1.0 µg/L
31	Chlorobenzene	ND	1.0 µg/L
32	Ethylbenzene	ND	0.50 µg/L
33	m,p-Xylene	ND	0.50 µg/L
34	Bromoform	ND	1.0 µg/L
35	o-Xylene	ND	0.50 µg/L
36	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
37	1,3-Dichlorobenzene	ND	1.0 µg/L
38	1,4-Dichlorobenzene	ND	1.0 µg/L
39	1,2-Dichlorobenzene	ND	1.0 µg/L
40	Naphthalene	ND	2.0 µg/L

ND = Not Detected

Roger Scholl Randy Gardner

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager

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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job: Grimit Auto

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005

Alpha Analytical Number: STR15100748-03A
Client I.D. Number: Grim W GAC1

Sampled: 10/06/15 07:25
Received: 10/07/15
Extracted: 10/13/15
Analyzed: 10/13/15

Volatile Organics by GC/MS
EPA Method 624/8260

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	2.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L
4	Bromomethane	ND	2.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L
7	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L
8	Dichloromethane	ND	2.0 µg/L
9	trans-1,2-Dichloroethene	ND	1.0 µg/L
10	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L
11	1,1-Dichloroethane	ND	1.0 µg/L
12	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L
13	cis-1,2-Dichloroethene	ND	1.0 µg/L
14	Chloroform	ND	1.0 µg/L
15	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L
16	1,2-Dichloroethane	ND	1.0 µg/L
17	1,1,1-Trichloroethane	ND	1.0 µg/L
18	Carbon tetrachloride	ND	1.0 µg/L
19	Benzene	ND	0.50 µg/L
20	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L
21	1,2-Dichloropropane	ND	1.0 µg/L
22	Trichloroethene	ND	1.0 µg/L
23	Bromodichloromethane	ND	1.0 µg/L
24	cis-1,3-Dichloropropene	ND	1.0 µg/L
25	trans-1,3-Dichloropropene	ND	1.0 µg/L
26	1,1,2-Trichloroethane	ND	1.0 µg/L
27	Toluene	ND	0.50 µg/L
28	Dibromochloromethane	ND	1.0 µg/L
29	1,2-Dibromoethane (EDB)	ND	2.0 µg/L
30	Tetrachloroethene	ND	1.0 µg/L
31	Chlorobenzene	ND	1.0 µg/L
32	Ethylbenzene	ND	0.50 µg/L
33	m,p-Xylene	ND	0.50 µg/L
34	Bromoform	ND	1.0 µg/L
35	o-Xylene	ND	0.50 µg/L
36	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
37	1,3-Dichlorobenzene	ND	1.0 µg/L
38	1,4-Dichlorobenzene	ND	1.0 µg/L
39	1,2-Dichlorobenzene	ND	1.0 µg/L
40	Naphthalene	ND	2.0 µg/L

ND = Not Detected

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10/14/15
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-Oct-15*

QC Summary Report

Work Order: 15100748

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15101206.D** Batch ID: **MS08A1012B** Analysis Date: **10/12/2015 12:36**

Sample ID: **MBLK MS08A1012B** Units : **mg/m³** Run ID: **MSD_08_151012A** Prep Date: **10/12/2015 12:36**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	1.52		2		76	70	130			
Surr: Toluene-d8	2.37		2		119	70	130			
Surr: 4-Bromofluorobenzene	2.14		2		107	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15101203.D** Batch ID: **MS08A1012B** Analysis Date: **10/12/2015 11:07**

Sample ID: **GLCS MS08A1012B** Units : **mg/m³** Run ID: **MSD_08_151012A** Prep Date: **10/12/2015 11:07**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	423	10	400		106	70	130			
Surr: 1,2-Dichloroethane-d4	8.71		10		87	70	130			
Surr: Toluene-d8	9.55		10		96	70	130			
Surr: 4-Bromofluorobenzene	12.7		10		127	70	130			

Comments:

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

Alpha Analytical, Inc.

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

Date: *14-Oct-15*

QC Summary Report

Work Order: 15100748

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15101304.D** Batch ID: **MS08W1013B** Analysis Date: **10/13/2015 10:00**

Sample ID: **MBLK MS08W1013B** Units : **µg/L** Run ID: **MSD_08_151013A** Prep Date: **10/13/2015 10:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	10.1		10		101	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	9.69		10		97	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15101303.D** Batch ID: **MS08W1013B** Analysis Date: **10/13/2015 09:36**

Sample ID: **GLCS MS08W1013B** Units : **µg/L** Run ID: **MSD_08_151013A** Prep Date: **10/13/2015 09:36**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	396	50	400		99	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10		94	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	11.6		10		116	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15101329.D** Batch ID: **MS08W1013B** Analysis Date: **10/13/2015 20:03**

Sample ID: **15100748-02AGS** Units : **µg/L** Run ID: **MSD_08_151013A** Prep Date: **10/13/2015 20:03**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2080	250	2000	0	104	54	143			
Surr: 1,2-Dichloroethane-d4	48.6		50		97	70	130			
Surr: Toluene-d8	50		50		99.9	70	130			
Surr: 4-Bromofluorobenzene	56.9		50		114	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15101330.D** Batch ID: **MS08W1013B** Analysis Date: **10/13/2015 20:26**

Sample ID: **15100748-02AGSD** Units : **µg/L** Run ID: **MSD_08_151013A** Prep Date: **10/13/2015 20:26**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2250	250	2000	0	113	54	143	2084	7.7(23)	
Surr: 1,2-Dichloroethane-d4	50.7		50		101	70	130			
Surr: Toluene-d8	49.3		50		99	70	130			
Surr: 4-Bromofluorobenzene	57.8		50		116	70	130			

Comments:

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

Reported in micrograms per Liter, per client request.

Alpha Analytical, Inc.

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

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

Date: *14-Oct-15*

QC Summary Report

Work Order: 15100748

Method Blank

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

File ID: **15101206.D** Batch ID: **MS08A1012A** Analysis Date: **10/12/2015 12:36**

Sample ID: **MBLK MS08A1012A** Units : **mg/m³** Run ID: **MSD_08_151012A** Prep Date: **10/12/2015 12:36**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloromethane	ND	0.4								
Vinyl chloride	ND	0.2								
Chloroethane	ND	0.2								
Bromomethane	ND	0.4								
Trichlorofluoromethane	ND	0.2								
1,1-Dichloroethene	ND	0.2								
Tertiary Butyl Alcohol (TBA)	ND	5								
Dichloromethane	ND	0.4								
trans-1,2-Dichloroethene	ND	0.2								
Methyl tert-butyl ether (MTBE)	ND	0.1								
1,1-Dichloroethane	ND	0.2								
Di-isopropyl Ether (DIPE)	ND	0.2								
cis-1,2-Dichloroethene	ND	0.2								
Chloroform	ND	0.2								
Ethyl Tertiary Butyl Ether (ETBE)	ND	0.2								
1,1,1-Trichloroethane	ND	0.2								
Carbon tetrachloride	ND	0.2								
Benzene	ND	0.1								
Tertiary Amyl Methyl Ether (TAME)	ND	0.2								
1,2-Dichloropropane	ND	0.2								
Trichloroethene	ND	0.2								
Bromodichloromethane	ND	0.2								
cis-1,3-Dichloropropene	ND	0.2								
trans-1,3-Dichloropropene	ND	0.2								
1,1,2-Trichloroethane	ND	0.2								
Toluene	ND	0.1								
Dibromochloromethane	ND	0.2								
1,2-Dibromoethane (EDB)	ND	0.4								
Tetrachloroethene	ND	0.2								
Chlorobenzene	ND	0.2								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
Bromoform	ND	0.2								
o-Xylene	ND	0.1								
1,1,2,2-Tetrachloroethane	ND	0.2								
n-Propylbenzene	ND	0.2								
1,2,4-Trimethylbenzene	ND	0.2								
1,3-Dichlorobenzene	ND	0.2								
1,4-Dichlorobenzene	ND	0.2								
1,2-Dichlorobenzene	ND	0.2								
Surr: 1,2-Dichloroethane-d4	1.52		2		76	70	130			
Surr: Toluene-d8	2.37		2		119	70	130			
Surr: 4-Bromofluorobenzene	2.14		2		107	70	130			

Laboratory Control Spike

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

File ID: **15101202.D** Batch ID: **MS08A1012A** Analysis Date: **10/12/2015 10:38**

Sample ID: **LCS MS08A1012A** Units : **mg/m³** Run ID: **MSD_08_151012A** Prep Date: **10/12/2015 10:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	10.4	0.2	10		104	70	130			
Methyl tert-butyl ether (MTBE)	13.7	0.1	10		137	63	137			
Benzene	10.3	0.1	10		103	70	130			
Trichloroethene	10.9	0.2	10		109	68	138			
Toluene	10.6	0.1	10		106	70	130			
Chlorobenzene	10.4	0.2	10		104	70	130			
Ethylbenzene	9.94	0.1	10		99	70	130			
m,p-Xylene	10	0.1	10		100	65	139			
o-Xylene	9.97	0.1	10		99.7	70	130			
Surr: 1,2-Dichloroethane-d4	9.13		10		91	70	130			
Surr: Toluene-d8	9.56		10		96	70	130			
Surr: 4-Bromofluorobenzene	11.9		10		119	70	130			

Alpha Analytical, Inc.

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

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

Date: *14-Oct-15*

QC Summary Report

Work Order: 15100748

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.

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

Date: 14-Oct-15

QC Summary Report

Work Order: 15100748

Method Blank

Type **MBLK** Test Code: **EPA Method 624/8260**

File ID: **15101304.D** Batch ID: **MS08W1013A** Analysis Date: **10/13/2015 10:00**

Sample ID: **MBLK MS08W1013A** Units : **µg/L** Run ID: **MSD_08_151013A** Prep Date: **10/13/2015 10:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloromethane	ND	2								
Vinyl chloride	ND	1								
Chloroethane	ND	1								
Bromomethane	ND	2								
Trichlorofluoromethane	ND	1								
1,1-Dichloroethene	ND	1								
Tertiary Butyl Alcohol (TBA)	ND	10								
Dichloromethane	ND	2								
trans-1,2-Dichloroethene	ND	1								
Methyl tert-butyl ether (MTBE)	ND	0.5								
1,1-Dichloroethane	ND	1								
Di-isopropyl Ether (DIPE)	ND	1								
cis-1,2-Dichloroethene	ND	1								
Chloroform	ND	1								
Ethyl Tertiary Butyl Ether (ETBE)	ND	1								
1,2-Dichloroethane	ND	1								
1,1,1-Trichloroethane	ND	1								
Carbon tetrachloride	ND	1								
Benzene	ND	0.5								
Tertiary Amyl Methyl Ether (TAME)	ND	1								
1,2-Dichloropropane	ND	1								
Trichloroethene	ND	1								
Bromodichloromethane	ND	1								
cis-1,3-Dichloropropene	ND	1								
trans-1,3-Dichloropropene	ND	1								
1,1,2-Trichloroethane	ND	1								
Toluene	ND	0.5								
Dibromochloromethane	ND	1								
1,2-Dibromoethane (EDB)	ND	2								
Tetrachloroethene	ND	1								
Chlorobenzene	ND	1								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
Bromoform	ND	1								
o-Xylene	ND	0.5								
1,1,2,2-Tetrachloroethane	ND	1								
1,3-Dichlorobenzene	ND	1								
1,4-Dichlorobenzene	ND	1								
1,2-Dichlorobenzene	ND	1								
Naphthalene	ND	2								
Surr: 1,2-Dichloroethane-d4	10.1		10		101	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	9.69		10		97	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method 624/8260**

File ID: **15101302.D** Batch ID: **MS08W1013A** Analysis Date: **10/13/2015 09:13**

Sample ID: **LCS MS08W1013A** Units : **µg/L** Run ID: **MSD_08_151013A** Prep Date: **10/13/2015 09:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	8.29	1	10		83	70	130			
Methyl tert-butyl ether (MTBE)	13.7	0.5	10		137	63	137			
Benzene	9.81	0.5	10		98	70	130			
Trichloroethene	10.3	1	10		103	68	138			
Toluene	9.88	0.5	10		99	70	130			
Chlorobenzene	9.97	1	10		99.7	70	130			
Ethylbenzene	9.2	0.5	10		92	70	130			
m,p-Xylene	9.43	0.5	10		94	65	139			
o-Xylene	9.37	0.5	10		94	70	130			
Surr: 1,2-Dichloroethane-d4	9.41		10		94	70	130			
Surr: Toluene-d8	9.46		10		95	70	130			
Surr: 4-Bromofluorobenzene	11.9		10		119	70	130			

Alpha Analytical, Inc.

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

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

Date: *14-Oct-15*

QC Summary Report

Work Order: 15100748

Sample Matrix Spike Type **MS** Test Code: **EPA Method 624/8260**

File ID: **15101327.D** Batch ID: **MS08W1013A** Analysis Date: **10/13/2015 19:15**

Sample ID: **15100748-02AMS** Units : **µg/L** Run ID: **MSD_08_151013A** Prep Date: **10/13/2015 19:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	55.9	2.5	50	0	112	62	133			
Methyl tert-butyl ether (MTBE)	80.1	1.3	50	0	160	56	140			M1
Benzene	57	1.3	50	0	114	67	134			
Trichloroethene	57	2.5	50	0	114	68	138			
Toluene	53.9	1.3	50	0	108	38	130			
Chlorobenzene	53.6	2.5	50	0	107	70	130			
Ethylbenzene	49.8	1.3	50	0	99.6	70	130			
m,p-Xylene	50.2	1.3	50	0	100	65	139			
o-Xylene	50.4	1.3	50	0	101	69	130			
Surr: 1,2-Dichloroethane-d4	50.8		50		102	70	130			
Surr: Toluene-d8	44.1		50		88	70	130			
Surr: 4-Bromofluorobenzene	57.4		50		115	70	130			

Sample Matrix Spike Duplicate Type **MSD** Test Code: **EPA Method 624/8260**

File ID: **15101328.D** Batch ID: **MS08W1013A** Analysis Date: **10/13/2015 19:39**

Sample ID: **15100748-02AMSD** Units : **µg/L** Run ID: **MSD_08_151013A** Prep Date: **10/13/2015 19:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	53.5	2.5	50	0	107	62	133	55.94	4.5(35)	
Methyl tert-butyl ether (MTBE)	78.9	1.3	50	0	158	56	140	80.05	1.5(40)	M1
Benzene	55.1	1.3	50	0	110	67	134	56.98	3.5(21)	
Trichloroethene	55.8	2.5	50	0	112	68	138	57.04	2.3(20)	
Toluene	53.2	1.3	50	0	106	38	130	53.88	1.3(20)	
Chlorobenzene	52.7	2.5	50	0	105	70	130	53.57	1.7(20)	
Ethylbenzene	48.7	1.3	50	0	97	70	130	49.79	2.3(20)	
m,p-Xylene	49.4	1.3	50	0	99	65	139	50.24	1.7(20)	
o-Xylene	49.5	1.3	50	0	99	69	130	50.43	1.8(20)	
Surr: 1,2-Dichloroethane-d4	49.8		50		99.7	70	130			
Surr: Toluene-d8	44.5		50		89	70	130			
Surr: 4-Bromofluorobenzene	57		50		114	70	130			

Comments:

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

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

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 : STR15100748

Report Due By : 5:00 PM On : 15-Oct-15

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

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

EDD Required : Yes

Sampled by : C. Hill

PO :

Client's COC # : 01913 Job : Grimit Auto

Cooler Temp	Samples Received	Date Printed
4 °C	07-Oct-15	07-Oct-15

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_A	TPH/P_W	VOC_A	VOC_W					Sample Remarks
STR15100748-01A	Grim A SYS INF	AR	10/06/15 07:08	1	0	6	GAS-N/C		8260/OXYS/ EDB_S						Tedlar.
STR15100748-02A	Grim W INF	AQ	10/06/15 07:30	6	0	6		GAS-C		8260/OXYS/ EDB/Naph_C s					
STR15100748-03A	Grim W GAC1	AQ	10/06/15 07:25	6	0	6		GAS-C		8260/OXYS/ EDB/Naph_C s					

Comments: No security seals intact. Frozen ice. Chain split due to different TATs. :

	Signature	Print Name	Company	Date/Time
Logged in by:		JESSICA ALVARADO	Alpha Analytical, Inc.	10/7/15 1210

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

Billing Information:

Company: Stantec

Attn:

Address:

City, State, Zip:

Phone Number: Fax:

Alpha Analytical, Inc.

Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431 — Phone: 775-355-1044, Fax: 775-355-0406

Satellite Service Centers:

Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 — Phone: 916-366-9089

Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 — Phone: 714-386-2901

Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801 — Phone: 775-388-7043

Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 — Phone: 702-281-4848

01913

Page # 1 of 1

Consultant/Client Info:

Company: Stantec

Address:

City, State, Zip:

Job and Purchase Order Info:

Job #

Job Name: Grimit Auto

P.O. #:

Report Attention/Project Manager:

Name: Scott

Email Address:

Phone #:

Cell #:

QC Deliverable Info:

EDD Required? Yes / No — EDF Required? Yes / No

Global ID:

Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR CA KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered? Yes	Field Filtered? No	GRO	BTEX	MTBE	1,2 DCA	Naphthalene	PCE TCE Vocs	Vinyl Chloride	Chlorobenzene	N-Propyl benzene	1,2,4 Trimethyl Benzene	Remarks
0708	10/5	AR		Grim A Sys Inf	STD	1		X	X	X	X			X	X	X	X	X	
0705	10/5	AR		Grim A Eff	24	1		X	X	X	X			X	X	X	X	X	
0730	10/5	AQ		Grim W Inf	STD	6		X	X	X	X	X	X	X	X				
0725	"	AQ		Grim W Gac 1	STD	6		X	X	X	X	X	X	X	X				
0720	10/5	AQ		Grim W Eff	24	6		X	X	X	X	X	X	X	X				

ADDITIONAL INSTRUCTIONS: Fed Ex

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

Sampled By: CHILL

Relinquished by: (Signature/Affiliation)	Date:	Time:	Received by: (Signature/Affiliation)	Date:	Time:
Chill Stantec				10/11/15	1200
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date:	Time:
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date:	Time:

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

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

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 10/07/15

Job: Grimit Auto

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B / SW8260B

		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**Grim A EFF**					
Lab ID :	STR15100744-01A	TPH-P (GRO)	ND	20 mg/m³	10/07/15 15:30	10/08/15
Date Sampled	10/06/15 07:05					
Client ID :	**Grim W EFF**					
Lab ID :	STR15100744-02A	TPH-P (GRO)	ND	50 µg/L	10/08/15	10/08/15
Date Sampled	10/06/15 07:20					

Gasoline Range Organics (GRO) C4-C13
Note: For sample -01A concentrations of air in a Tedlar Bag are at 25 degrees Celsius and 25.75 inches of mercury.
ND = Not Detected
Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.
Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

10/9/15
Report Date

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job: Grimit Auto

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005

Alpha Analytical Number: STR15100744-01A
Client I.D. Number: Grim A EFF

Sampled: 10/06/15 07:05
Received: 10/07/15
Extracted: 10/08/15
Analyzed: 10/08/15

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	0.80 mg/m³
2	Vinyl chloride	ND	0.40 mg/m³
3	Chloroethane	ND	0.40 mg/m³
4	Bromomethane	ND	0.80 mg/m³
5	Trichlorofluoromethane	ND	0.40 mg/m³
6	1,1-Dichloroethene	ND	0.40 mg/m³
7	Tertiary Butyl Alcohol (TBA)	ND	10 mg/m³
8	Dichloromethane	ND	0.80 mg/m³
9	trans-1,2-Dichloroethene	ND	0.40 mg/m³
10	Methyl tert-butyl ether (MTBE)	ND	0.20 mg/m³
11	1,1-Dichloroethane	ND	0.40 mg/m³
12	Di-isopropyl Ether (DIPE)	ND	0.40 mg/m³
13	cis-1,2-Dichloroethene	ND	0.40 mg/m³
14	Chloroform	ND	0.40 mg/m³
15	Ethyl Tertiary Butyl Ether (ETBE)	ND	0.40 mg/m³
16	1,1,1-Trichloroethane	ND	0.40 mg/m³
17	Carbon tetrachloride	ND	0.40 mg/m³
18	Benzene	ND	0.20 mg/m³
19	Tertiary Amyl Methyl Ether (TAME)	ND	0.40 mg/m³
20	1,2-Dichloropropane	ND	0.40 mg/m³
21	Trichloroethene	ND	0.40 mg/m³
22	Bromodichloromethane	ND	0.40 mg/m³
23	cis-1,3-Dichloropropene	ND	0.40 mg/m³
24	trans-1,3-Dichloropropene	ND	0.40 mg/m³
25	1,1,2-Trichloroethane	ND	0.40 mg/m³
26	Toluene	ND	0.20 mg/m³
27	Dibromochloromethane	ND	0.40 mg/m³
28	1,2-Dibromoethane (EDB)	ND	0.80 mg/m³
29	Tetrachloroethene	ND	0.40 mg/m³
30	Chlorobenzene	ND	0.40 mg/m³
31	Ethylbenzene	ND	0.20 mg/m³
32	m,p-Xylene	ND	0.20 mg/m³
33	Bromoform	ND	0.40 mg/m³
34	o-Xylene	ND	0.20 mg/m³
35	1,1,2,2-Tetrachloroethane	ND	0.40 mg/m³
36	n-Propylbenzene	ND	0.40 mg/m³
37	1,2,4-Trimethylbenzene	ND	0.40 mg/m³
38	1,3-Dichlorobenzene	ND	0.40 mg/m³
39	1,4-Dichlorobenzene	ND	0.40 mg/m³
40	1,2-Dichlorobenzene	ND	0.40 mg/m³

Note: Concentrations of air in Tedlar Bags are at 25 degrees Celsius and 25.75 inches of mercury.

ND = Not Detected

Roger Scholl Randy Gardner

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

10/9/15
Report Date

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job: Grimit Auto

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005

Alpha Analytical Number: STR15100744-02A
Client I.D. Number: Grim W EFF

Sampled: 10/06/15 07:20
Received: 10/07/15
Extracted: 10/08/15
Analyzed: 10/08/15

Volatile Organics by GC/MS
EPA Method 624/8260

	Compound	Concentration	Reporting Limit		Compound	Concentration	Reporting Limit
1	Chloromethane	ND	2.0 µg/L	26	1,1,2-Trichloroethane	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L	27	Toluene	ND	0.50 µg/L
3	Chloroethane	ND	1.0 µg/L	28	Dibromochloromethane	ND	1.0 µg/L
4	Bromomethane	ND	2.0 µg/L	29	1,2-Dibromoethane (EDB)	ND	2.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	30	Tetrachloroethene	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	31	Chlorobenzene	ND	1.0 µg/L
7	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	32	Ethylbenzene	ND	0.50 µg/L
8	Dichloromethane	ND	2.0 µg/L	33	m,p-Xylene	ND	0.50 µg/L
9	trans-1,2-Dichloroethene	ND	1.0 µg/L	34	Bromoform	ND	1.0 µg/L
10	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	35	o-Xylene	ND	0.50 µg/L
11	1,1-Dichloroethane	ND	1.0 µg/L	36	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
12	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	37	1,3-Dichlorobenzene	ND	1.0 µg/L
13	cis-1,2-Dichloroethene	ND	1.0 µg/L	38	1,4-Dichlorobenzene	ND	1.0 µg/L
14	Chloroform	ND	1.0 µg/L	39	1,2-Dichlorobenzene	ND	1.0 µg/L
15	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	40	Naphthalene	ND	2.0 µg/L
16	1,2-Dichloroethane	ND	1.0 µg/L				
17	1,1,1-Trichloroethane	ND	1.0 µg/L				
18	Carbon tetrachloride	ND	1.0 µg/L				
19	Benzene	ND	0.50 µg/L				
20	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L				
21	1,2-Dichloropropane	ND	1.0 µg/L				
22	Trichloroethene	ND	1.0 µg/L				
23	Bromodichloromethane	ND	1.0 µg/L				
24	cis-1,3-Dichloropropene	ND	1.0 µg/L				
25	trans-1,3-Dichloropropene	ND	1.0 µg/L				

ND = Not Detected

Roger Scholl Randy Gardner

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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

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

10/9/15
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: STR15100744 **Job:** Grimit Auto

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15100744-02A	Grim W EFF	Aqueous	2

10/9/15

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-Oct-15*

QC Summary Report

Work Order: 15100744

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15100807.D** Batch ID: **MS08A1008B** Analysis Date: **10/08/2015 13:13**

Sample ID: **MBLK MS08A1008B** Units : **mg/m³** Run ID: **MSD_08_151008A** Prep Date: **10/08/2015 13:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	2.08		2		104	70	130			
Surr: Toluene-d8	2.04		2		102	70	130			
Surr: 4-Bromofluorobenzene	1.89		2		95	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15100805.D** Batch ID: **MS08A1008B** Analysis Date: **10/08/2015 12:17**

Sample ID: **GLCS MS08A1008B** Units : **mg/m³** Run ID: **MSD_08_151008A** Prep Date: **10/08/2015 12:17**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	431	10	400		108	70	130			
Surr: 1,2-Dichloroethane-d4	8.06		10		81	70	130			
Surr: Toluene-d8	10.2		10		102	70	130			
Surr: 4-Bromofluorobenzene	12.5		10		125	70	130			

Comments:

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

Alpha Analytical, Inc.

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Date: *13-Oct-15*

QC Summary Report

Work Order: 15100744

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15100804.D** Batch ID: **MS15W1008B** Analysis Date: **10/08/2015 11:36**

Sample ID: **MBLK MS15W1008B** Units : µg/L Run ID: **MSD_15_151008A** Prep Date: **10/08/2015 11:36**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	10.5		10		105	70	130			
Surr: Toluene-d8	9.24		10		92	70	130			
Surr: 4-Bromofluorobenzene	10.6		10		106	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15100803.D** Batch ID: **MS15W1008B** Analysis Date: **10/08/2015 11:04**

Sample ID: **GLCS MS15W1008B** Units : µg/L Run ID: **MSD_15_151008A** Prep Date: **10/08/2015 11:04**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	378	50	400		94	70	130			
Surr: 1,2-Dichloroethane-d4	11.3		10		113	70	130			
Surr: Toluene-d8	9		10		90	70	130			
Surr: 4-Bromofluorobenzene	10.1		10		101	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15100941.D** Batch ID: **MS15W1008B** Analysis Date: **10/10/2015 01:12**

Sample ID: **15100240-03AGS** Units : µg/L Run ID: **MSD_15_151008A** Prep Date: **10/10/2015 01:12**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1250	250	2000	0	63	54	143			
Surr: 1,2-Dichloroethane-d4	55.8		50		112	70	130			
Surr: Toluene-d8	49.1		50		98	70	130			
Surr: 4-Bromofluorobenzene	50.8		50		102	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15100942.D** Batch ID: **MS15W1008B** Analysis Date: **10/10/2015 01:36**

Sample ID: **15100240-03AGSD** Units : µg/L Run ID: **MSD_15_151008A** Prep Date: **10/10/2015 01:36**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1140	250	2000	0	57	54	143	1250	9.6(23)	
Surr: 1,2-Dichloroethane-d4	56.2		50		112	70	130			
Surr: Toluene-d8	48.9		50		98	70	130			
Surr: 4-Bromofluorobenzene	49.3		50		99	70	130			

Comments:

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

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-Oct-15

QC Summary Report

Work Order: 15100744

Method Blank

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

File ID: **15100807.D** Batch ID: **MS08A1008A** Analysis Date: **10/08/2015 13:13**

Sample ID: **MBLK MS08A1008A** Units : **mg/m³** Run ID: **MSD_08_151008A** Prep Date: **10/08/2015 13:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloromethane	ND	0.4								
Vinyl chloride	ND	0.2								
Chloroethane	ND	0.2								
Bromomethane	ND	0.4								
Trichlorofluoromethane	ND	0.2								
1,1-Dichloroethene	ND	0.2								
Tertiary Butyl Alcohol (TBA)	ND	5								
Dichloromethane	ND	0.4								
trans-1,2-Dichloroethene	ND	0.2								
Methyl tert-butyl ether (MTBE)	ND	0.1								
1,1-Dichloroethane	ND	0.2								
Di-isopropyl Ether (DIPE)	ND	0.2								
cis-1,2-Dichloroethene	ND	0.2								
Chloroform	ND	0.2								
Ethyl Tertiary Butyl Ether (ETBE)	ND	0.2								
1,1,1-Trichloroethane	ND	0.2								
Carbon tetrachloride	ND	0.2								
Benzene	ND	0.1								
Tertiary Amyl Methyl Ether (TAME)	ND	0.2								
1,2-Dichloropropane	ND	0.2								
Trichloroethene	ND	0.2								
Bromodichloromethane	ND	0.2								
cis-1,3-Dichloropropene	ND	0.2								
trans-1,3-Dichloropropene	ND	0.2								
1,1,2-Trichloroethane	ND	0.2								
Toluene	ND	0.1								
Dibromochloromethane	ND	0.2								
1,2-Dibromoethane (EDB)	ND	0.4								
Tetrachloroethene	ND	0.2								
Chlorobenzene	ND	0.2								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
Bromoform	ND	0.2								
o-Xylene	ND	0.1								
1,1,2,2-Tetrachloroethane	ND	0.2								
n-Propylbenzene	ND	0.2								
1,2,4-Trimethylbenzene	ND	0.2								
1,3-Dichlorobenzene	ND	0.2								
1,4-Dichlorobenzene	ND	0.2								
1,2-Dichlorobenzene	ND	0.2								
Surr: 1,2-Dichloroethane-d4	2.08		2		104	70	130			
Surr: Toluene-d8	2.04		2		102	70	130			
Surr: 4-Bromofluorobenzene	1.89		2		95	70	130			

Laboratory Control Spike

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

File ID: **15100804.D** Batch ID: **MS08A1008A** Analysis Date: **10/08/2015 11:51**

Sample ID: **LCS MS08A1008A** Units : **mg/m³** Run ID: **MSD_08_151008A** Prep Date: **10/08/2015 11:51**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	8.65	0.2	10		87	70	130			
Methyl tert-butyl ether (MTBE)	11.7	0.1	10		117	63	137			
Benzene	9.17	0.1	10		92	70	130			
Trichloroethene	9.87	0.2	10		99	68	138			
Toluene	9.81	0.1	10		98	70	130			
Chlorobenzene	9.48	0.2	10		95	70	130			
Ethylbenzene	9.1	0.1	10		91	70	130			
m,p-Xylene	9.29	0.1	10		93	65	139			
o-Xylene	9.12	0.1	10		91	70	130			
Surr: 1,2-Dichloroethane-d4	8.63		10		86	70	130			
Surr: Toluene-d8	9.94		10		99	70	130			
Surr: 4-Bromofluorobenzene	12.2		10		122	70	130			

Alpha Analytical, Inc.

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

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

Date: *13-Oct-15*

QC Summary Report

Work Order: 15100744

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: 13-Oct-15

QC Summary Report

Work Order: 15100744

Method Blank

Type **MBLK** Test Code: **EPA Method 624/8260**

File ID: **15100804.D** Batch ID: **MS15W1008A** Analysis Date: **10/08/2015 11:36**

Sample ID: **MBLK MS15W1008A** Units : **µg/L** Run ID: **MSD_15_151008A** Prep Date: **10/08/2015 11:36**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloromethane	ND	2								
Vinyl chloride	ND	1								
Chloroethane	ND	1								
Bromomethane	ND	2								
Trichlorofluoromethane	ND	1								
1,1-Dichloroethene	ND	1								
Tertiary Butyl Alcohol (TBA)	ND	10								
Dichloromethane	ND	2								
trans-1,2-Dichloroethene	ND	1								
Methyl tert-butyl ether (MTBE)	ND	0.5								
1,1-Dichloroethane	ND	1								
Di-isopropyl Ether (DIPE)	ND	1								
cis-1,2-Dichloroethene	ND	1								
Chloroform	ND	1								
Ethyl Tertiary Butyl Ether (ETBE)	ND	1								
1,2-Dichloroethane	ND	1								
1,1,1-Trichloroethane	ND	1								
Carbon tetrachloride	ND	1								
Benzene	ND	0.5								
Tertiary Amyl Methyl Ether (TAME)	ND	1								
1,2-Dichloropropane	ND	1								
Trichloroethene	ND	1								
Bromodichloromethane	ND	1								
cis-1,3-Dichloropropene	ND	1								
trans-1,3-Dichloropropene	ND	1								
1,1,2-Trichloroethane	ND	1								
Toluene	ND	0.5								
Dibromochloromethane	ND	1								
1,2-Dibromoethane (EDB)	ND	2								
Tetrachloroethene	ND	1								
Chlorobenzene	ND	1								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
Bromoform	ND	1								
o-Xylene	ND	0.5								
1,1,2,2-Tetrachloroethane	ND	1								
1,3-Dichlorobenzene	ND	1								
1,4-Dichlorobenzene	ND	1								
1,2-Dichlorobenzene	ND	1								
Naphthalene	ND	2								
Surr: 1,2-Dichloroethane-d4	10.5		10		105	70	130			
Surr: Toluene-d8	9.24		10		92	70	130			
Surr: 4-Bromofluorobenzene	10.6		10		106	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method 624/8260**

File ID: **15100802.D** Batch ID: **MS15W1008A** Analysis Date: **10/08/2015 10:40**

Sample ID: **LCS MS15W1008A** Units : **µg/L** Run ID: **MSD_15_151008A** Prep Date: **10/08/2015 10:40**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	9.86	1	10		99	70	130			
Methyl tert-butyl ether (MTBE)	12.5	0.5	10		125	63	137			
Benzene	10.3	0.5	10		103	70	130			
Trichloroethene	9.9	1	10		99	68	138			
Toluene	9.02	0.5	10		90	70	130			
Chlorobenzene	9.04	1	10		90	70	130			
Ethylbenzene	8.69	0.5	10		87	70	130			
m,p-Xylene	8.69	0.5	10		87	65	139			
o-Xylene	8.68	0.5	10		87	70	130			
Surr: 1,2-Dichloroethane-d4	10.5		10		105	70	130			
Surr: Toluene-d8	8.96		10		90	70	130			
Surr: 4-Bromofluorobenzene	9.83		10		98	70	130			

Alpha Analytical, Inc.

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

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

Date: *13-Oct-15*

QC Summary Report

Work Order: 15100744

Sample Matrix Spike

Type **MS** Test Code: **EPA Method 624/8260**

File ID: **15100939.D** Batch ID: **MS15W1008A** Analysis Date: **10/10/2015 00:23**

Sample ID: **15100240-03AMS** Units : **µg/L** Run ID: **MSD_15_151008A** Prep Date: **10/10/2015 00:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	46.6	2.5	50	0	93	62	133			
Methyl tert-butyl ether (MTBE)	66.7	1.3	50	0.52	132	56	140			
Benzene	47.8	1.3	50	0	96	67	134			
Trichloroethene	42.4	2.5	50	0	85	68	138			
Toluene	45.4	1.3	50	0	91	38	130			
Chlorobenzene	45.9	2.5	50	0	92	70	130			
Ethylbenzene	41.5	1.3	50	0	83	70	130			
m,p-Xylene	40.9	1.3	50	0	82	65	139			
o-Xylene	42.7	1.3	50	0	85	69	130			
Surr: 1,2-Dichloroethane-d4	53.2		50		106	70	130			
Surr: Toluene-d8	48.7		50		97	70	130			
Surr: 4-Bromofluorobenzene	48.6		50		97	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method 624/8260**

File ID: **15100940.D** Batch ID: **MS15W1008A** Analysis Date: **10/10/2015 00:47**

Sample ID: **15100240-03AMSD** Units : **µg/L** Run ID: **MSD_15_151008A** Prep Date: **10/10/2015 00:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	43.4	2.5	50	0	87	62	133	46.56	7.0(35)	
Methyl tert-butyl ether (MTBE)	60.8	1.3	50	0.52	121	56	140	66.72	9.3(40)	
Benzene	44.3	1.3	50	0	89	67	134	47.78	7.5(21)	
Trichloroethene	39.4	2.5	50	0	79	68	138	42.44	7.4(20)	
Toluene	42.6	1.3	50	0	85	38	130	45.39	6.3(20)	
Chlorobenzene	43	2.5	50	0	86	70	130	45.87	6.6(20)	
Ethylbenzene	38.9	1.3	50	0	78	70	130	41.45	6.5(20)	
m,p-Xylene	38.7	1.3	50	0	77	65	139	40.89	5.6(20)	
o-Xylene	40.2	1.3	50	0	80	69	130	42.65	6.0(20)	
Surr: 1,2-Dichloroethane-d4	51.3		50		103	70	130			
Surr: Toluene-d8	49		50		98	70	130			
Surr: 4-Bromofluorobenzene	50.7		50		101	70	130			

Comments:

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

RUSH
CA

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

WorkOrder : STR15100744

Report Due By : 5:00 PM On : 08-Oct-15

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

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

EDD Required : Yes

Sampled by : C. Hill

PO :

Client's COC # : 01913 Job : Grimit Auto

Cooler Temp	Samples Received	Date Printed
4 °C	07-Oct-15	07-Oct-15

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_A	TPH/P_W	VOC_A	VOC_W					Sample Remarks
STR15100744-01A	Grim A EFF	AR	10/06/15 07:05	1	0	1	GAS-N/C		8260/OXYS/ EDB_S						Tedlar.
STR15100744-02A	Grim W EFF	AQ	10/06/15 07:20	6	0	1		GAS-C		8260/OXYS/ EDB/Naph_C s					

Comments: 24hr TAT. No security seals intact. Frozen ice. Chain split due to different TATs. :

	Signature	Print Name	Company	Date/Time
Logged in by:		JESSICA ALVARADO	Alpha Analytical, Inc.	10/7/15 1110

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

Billing Information:
Company: Stantec
Attn:
Address:
City, State, Zip:
Phone Number: Fax:

Alpha Analytical, Inc.
Environmental Lab

Alpha Analytical, Inc.
Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431 — Phone: 775-355-1044, Fax: 775-355-0406

Satellite Service Centers:
Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 — Phone: 916-368-9089
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 — Phone: 714-386-2901
Northern NV: 1250 Lamolile Hwy., #310, Elko, NV 89801 — Phone: 775-388-7043
Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 — Phone: 702-281-4848

01913

Page # 1 of 1

Consultant/Client Info:
Company: Stantec
Address:
City, State, Zip:

Job and Purchase Order Info:
Job #
Job Name: Grimy Auto
P.O. #:

Report Attention/Project Manager:
Name: Scott
Email Address:
Phone #:
Cell #:

QC Deliverable Info:
EDD Required? Yes / No — EDF Required? Yes / No
Global ID:
Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR (CA) KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	#Containers** (See Key Below)	Field Filtered? Yes	Field Filtered? No	Analysis Requested: GRO	BEX	MTBE	1,2 DCA / Naphthalene	PCE / TCE / VOCs	Vinyl chloride	Chlorobenzene	N-Propyl benzene	1,2,4 Trimethyl Benzene	Remarks
0705	10/5	AR		Grim A Sys Inf	STD	1		X	X	X	X		X	X	X	X	X	
0705	10/5	AR	STR1510074-01A	Grim A EFF	24	1		X	X	X	X		X	X	X	X	X	
0730	10/5	AQ		Grim W Inf	STD	6		X	X	X	X	X	X	X				
0725	10/5	AQ		Grim W Gac 1	STD	6		X	X	X	X	X	X	X				
0720	10/5	AQ	-02A	Grim W EFF	24	6		X	X	X	X	X	X	X				

ADDITIONAL INSTRUCTIONS: Fed Ex

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

Sampled By: CHILL

Relinquished by: (Signature/Affiliation)	Date:	Time:	Received by: (Signature/Affiliation)	Date:	Time:
Chill Stantec				10/7/15	1020
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date:	Time:
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date:	Time:

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

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

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 11/10/15

Job: Grimit Auto

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

		Parameter	Concentration		Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**Grim A Sys INF**						
Lab ID :	STR15111025-01A	TPH-P (GRO)	64		20 mg/m³	11/10/15 16:50	11/17/15
Date Sampled	11/09/15 06:46	Vinyl chloride	ND		0.40 mg/m³	11/10/15 16:50	11/17/15
		Methyl tert-butyl ether (MTBE)	ND		0.20 mg/m³	11/10/15 16:50	11/17/15
		Benzene	ND		0.20 mg/m³	11/10/15 16:50	11/17/15
		Trichloroethene	ND		0.40 mg/m³	11/10/15 16:50	11/17/15
		Toluene	ND		0.20 mg/m³	11/10/15 16:50	11/17/15
		Tetrachloroethene	ND		0.40 mg/m³	11/10/15 16:50	11/17/15
		Chlorobenzene	ND		0.40 mg/m³	11/10/15 16:50	11/17/15
		Ethylbenzene	ND		0.20 mg/m³	11/10/15 16:50	11/17/15
		m,p-Xylene	0.33		0.20 mg/m³	11/10/15 16:50	11/17/15
		o-Xylene	ND		0.20 mg/m³	11/10/15 16:50	11/17/15
		n-Propylbenzene	ND		0.40 mg/m³	11/10/15 16:50	11/17/15
		1,2,4-Trimethylbenzene	ND		0.40 mg/m³	11/10/15 16:50	11/17/15
Client ID :	**Grim W INF**						
Lab ID :	STR15111025-02A	TPH-P (GRO)	ND		100 µg/L	11/17/15	11/17/15
Date Sampled	11/09/15 06:40	Vinyl chloride	ND		1.0 µg/L	11/17/15	11/17/15
		Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	11/17/15	11/17/15
		1,2-Dichloroethane	ND		1.0 µg/L	11/17/15	11/17/15
		Benzene	ND		0.50 µg/L	11/17/15	11/17/15
		Trichloroethene	ND		1.0 µg/L	11/17/15	11/17/15
		Toluene	ND		0.50 µg/L	11/17/15	11/17/15
		Tetrachloroethene	ND		1.0 µg/L	11/17/15	11/17/15
		Ethylbenzene	ND		0.50 µg/L	11/17/15	11/17/15
		m,p-Xylene	ND		0.50 µg/L	11/17/15	11/17/15
		o-Xylene	ND		0.50 µg/L	11/17/15	11/17/15
		Naphthalene	ND	O	4.0 µg/L	11/17/15	11/17/15
Client ID :	**Grim W GAC 1**						
Lab ID :	STR15111025-03A	TPH-P (GRO)	ND		50 µg/L	11/17/15	11/17/15
Date Sampled	11/09/15 06:35	Vinyl chloride	ND		1.0 µg/L	11/17/15	11/17/15
		Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	11/17/15	11/17/15
		1,2-Dichloroethane	ND		1.0 µg/L	11/17/15	11/17/15
		Benzene	ND		0.50 µg/L	11/17/15	11/17/15
		Trichloroethene	ND		1.0 µg/L	11/17/15	11/17/15
		Toluene	ND		0.50 µg/L	11/17/15	11/17/15
		Tetrachloroethene	ND		1.0 µg/L	11/17/15	11/17/15
		Ethylbenzene	ND		0.50 µg/L	11/17/15	11/17/15
		m,p-Xylene	ND		0.50 µg/L	11/17/15	11/17/15
		o-Xylene	ND		0.50 µg/L	11/17/15	11/17/15
		Naphthalene	ND		2.0 µg/L	11/17/15	11/17/15

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Gasoline Range Organics (GRO) C4-C13

Note: For sample -01A concentrations of air in a Tedlar Bag are at 22 degrees Celsius and 25.72 inches of mercury.

O = Reporting Limits were increased due to sample foaming.

ND = Not Detected

Reported in micrograms per Liter, per client request.

ACLASS ACCREDITED DoD ELAP

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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

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

11/18/15

Report Date

Alpha Analytical, Inc.

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VOC Sample Preservation Report

Work Order: STR15111025 **Job:** Grimit Auto

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15111025-02A	Grim W INF	Aqueous	2
15111025-03A	Grim W GAC 1	Aqueous	2

11/18/15

Report Date

Alpha Analytical, Inc.

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Date: *19-Nov-15*

QC Summary Report

Work Order: 15111025

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15111716.D** Batch ID: **MS09A1117B** Analysis Date: **11/17/2015 15:43**

Sample ID: **MBLK MS09A1117B** Units : **mg/m³** Run ID: **MSD_09_151117A** Prep Date: **11/17/2015 15:43**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	1.93		2		97	70	130			
Surr: Toluene-d8	2.09		2		105	70	130			
Surr: 4-Bromofluorobenzene	1.73		2		87	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15111703.D** Batch ID: **MS09A1117B** Analysis Date: **11/17/2015 10:20**

Sample ID: **GLCS MS09A1117B** Units : **mg/m³** Run ID: **MSD_09_151117A** Prep Date: **11/17/2015 10:20**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	374	10	400		93	70	130			
Surr: 1,2-Dichloroethane-d4	9.28		10		93	70	130			
Surr: Toluene-d8	10.5		10		105	70	130			
Surr: 4-Bromofluorobenzene	9.73		10		97	70	130			

Comments:

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

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Date: 19-Nov-15

QC Summary Report

Work Order: 15111025

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15111704.D** Batch ID: **MS09W1117B** Analysis Date: **11/17/2015 10:47**

Sample ID: **MBLK MS09W1117B** Units : **µg/L** Run ID: **MSD_09_151117B** Prep Date: **11/17/2015 10:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	8.94		10		89	70	130			
Surr: Toluene-d8	10.5		10		105	70	130			
Surr: 4-Bromofluorobenzene	9.41		10		94	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15111703.D** Batch ID: **MS09W1117B** Analysis Date: **11/17/2015 10:20**

Sample ID: **GLCS MS09W1117B** Units : **µg/L** Run ID: **MSD_09_151117B** Prep Date: **11/17/2015 10:20**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	374	50	400		93	70	130			
Surr: 1,2-Dichloroethane-d4	9.28		10		93	70	130			
Surr: Toluene-d8	10.5		10		105	70	130			
Surr: 4-Bromofluorobenzene	9.73		10		97	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15111729.D** Batch ID: **MS09W1117B** Analysis Date: **11/17/2015 21:02**

Sample ID: **15111025-03AGS** Units : **µg/L** Run ID: **MSD_09_151117B** Prep Date: **11/17/2015 21:02**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1600	250	2000	0	80	54	143			
Surr: 1,2-Dichloroethane-d4	50.6		50		101	70	130			
Surr: Toluene-d8	51		50		102	70	130			
Surr: 4-Bromofluorobenzene	45.6		50		91	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15111730.D** Batch ID: **MS09W1117B** Analysis Date: **11/17/2015 21:26**

Sample ID: **15111025-03AGSD** Units : **µg/L** Run ID: **MSD_09_151117B** Prep Date: **11/17/2015 21:26**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1790	250	2000	0	90	54	143	1602	11.2(23)	
Surr: 1,2-Dichloroethane-d4	50.1		50		100	70	130			
Surr: Toluene-d8	51.3		50		103	70	130			
Surr: 4-Bromofluorobenzene	45.3		50		91	70	130			

Comments:

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

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Date: *19-Nov-15*

QC Summary Report

Work Order: 15111025

Method Blank

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

File ID: **15111716.D** Batch ID: **MS09A1117A** Analysis Date: **11/17/2015 15:43**

Sample ID: **MBLK MS09A1117A** Units : **mg/m³** Run ID: **MSD_09_151117A** Prep Date: **11/17/2015 15:43**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Vinyl chloride	ND	0.2								
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Trichloroethene	ND	0.2								
Toluene	ND	0.1								
Tetrachloroethene	ND	0.2								
Chlorobenzene	ND	0.2								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
n-Propylbenzene	ND	0.2								
1,2,4-Trimethylbenzene	ND	0.2								
Surr: 1,2-Dichloroethane-d4	1.93		2		97	70	130			
Surr: Toluene-d8	2.09		2		105	70	130			
Surr: 4-Bromofluorobenzene	1.73		2		87	70	130			

Laboratory Control Spike

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

File ID: **15111702.D** Batch ID: **MS09A1117A** Analysis Date: **11/17/2015 09:56**

Sample ID: **LCS MS09A1117A** Units : **mg/m³** Run ID: **MSD_09_151117A** Prep Date: **11/17/2015 09:56**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	7.94	0.1	10		79	63	137			
Benzene	9.22	0.1	10		92	70	130			
Trichloroethene	11.1	0.2	10		111	68	138			
Toluene	9.31	0.1	10		93	70	130			
Chlorobenzene	10.9	0.2	10		109	70	130			
Ethylbenzene	10.8	0.1	10		108	70	130			
m,p-Xylene	11.2	0.1	10		112	65	139			
o-Xylene	10.9	0.1	10		109	70	130			
Surr: 1,2-Dichloroethane-d4	9		10		90	70	130			
Surr: Toluene-d8	11		10		110	70	130			
Surr: 4-Bromofluorobenzene	9.65		10		97	70	130			

Comments:

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

Alpha Analytical, Inc.

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Date: 19-Nov-15

QC Summary Report

Work Order: 15111025

Method Blank

Type **MBLK** Test Code: **EPA Method 624/8260**

File ID: **15111704.D** Batch ID: **MS09W1117A** Analysis Date: **11/17/2015 10:47**

Sample ID: **MBLK MS09W1117A** Units : µg/L Run ID: **MSD_09_151117B** Prep Date: **11/17/2015 10:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Vinyl chloride	ND	1								
Methyl tert-butyl ether (MTBE)	ND	0.5								
1,2-Dichloroethane	ND	1								
Benzene	ND	0.5								
Trichloroethene	ND	1								
Toluene	ND	0.5								
Tetrachloroethene	ND	1								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Naphthalene	ND	2								
Surr: 1,2-Dichloroethane-d4	8.94		10		89	70	130			
Surr: Toluene-d8	10.5		10		105	70	130			
Surr: 4-Bromofluorobenzene	9.41		10		94	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method 624/8260**

File ID: **15111702.D** Batch ID: **MS09W1117A** Analysis Date: **11/17/2015 09:56**

Sample ID: **LCS MS09W1117A** Units : µg/L Run ID: **MSD_09_151117B** Prep Date: **11/17/2015 09:56**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	7.94	0.5	10		79	63	137			
Benzene	9.22	0.5	10		92	70	130			
Trichloroethene	11.1	1	10		111	68	138			
Toluene	9.31	0.5	10		93	70	130			
Ethylbenzene	10.8	0.5	10		108	70	130			
m,p-Xylene	11.2	0.5	10		112	65	139			
o-Xylene	10.9	0.5	10		109	70	130			
Surr: 1,2-Dichloroethane-d4	9		10		90	70	130			
Surr: Toluene-d8	11		10		110	70	130			
Surr: 4-Bromofluorobenzene	9.65		10		97	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method 624/8260**

File ID: **15111727.D** Batch ID: **MS09W1117A** Analysis Date: **11/17/2015 20:13**

Sample ID: **15111025-03AMS** Units : µg/L Run ID: **MSD_09_151117B** Prep Date: **11/17/2015 20:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	46	1.3	50	0	92	56	140			
Benzene	46	1.3	50	0	92	67	134			
Trichloroethene	49.8	2.5	50	0	99.7	68	138			
Toluene	47.5	1.3	50	0	95	38	130			
Ethylbenzene	53	1.3	50	0	106	70	130			
m,p-Xylene	54	1.3	50	0	108	65	139			
o-Xylene	53.7	1.3	50	0	107	69	130			
Surr: 1,2-Dichloroethane-d4	52.4		50		105	70	130			
Surr: Toluene-d8	52.2		50		104	70	130			
Surr: 4-Bromofluorobenzene	45.5		50		91	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method 624/8260**

File ID: **15111728.D** Batch ID: **MS09W1117A** Analysis Date: **11/17/2015 20:38**

Sample ID: **15111025-03AMSD** Units : µg/L Run ID: **MSD_09_151117B** Prep Date: **11/17/2015 20:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	43.6	1.3	50	0	87	56	140	45.95	5.3(40)	
Benzene	42.6	1.3	50	0	85	67	134	45.99	7.7(21)	
Trichloroethene	45	2.5	50	0	90	68	138	49.84	10.1(20)	
Toluene	42.9	1.3	50	0	86	38	130	47.48	10.1(20)	
Ethylbenzene	47.7	1.3	50	0	95	70	130	53.03	10.6(20)	
m,p-Xylene	48.6	1.3	50	0	97	65	139	54.03	10.6(20)	
o-Xylene	48.9	1.3	50	0	98	69	130	53.71	9.4(20)	
Surr: 1,2-Dichloroethane-d4	51.8		50		104	70	130			
Surr: Toluene-d8	51.1		50		102	70	130			
Surr: 4-Bromofluorobenzene	45.7		50		91	70	130			

Alpha Analytical, Inc.

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Date: *19-Nov-15*

QC Summary Report

Work Order: 15111025

Comments:

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

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

WorkOrder : STR15111025

Report Due By : 5:00 PM On : 17-Nov-15

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

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

EDD Required : Yes

Sampled by : C. Hill

PO :

Client's COC # : 01917 Job : Grimit Auto

Cooler Temp	Samples Received	Date Printed
3 °C	10-Nov-15	10-Nov-15

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_A	TPH/P_W	VOC_A	VOC_W					Sample Remarks
STR15111025-01A	Grim A Sys INF	AR	11/09/15 06:46	1	0	5	GAS-N/C		Special List						
STR15111025-02A	Grim W INF	AQ	11/09/15 06:40	6	0	5		GAS-C		Special List_C					
STR15111025-03A	Grim W GAC 1	AQ	11/09/15 06:35	6	0	5		GAS-C		Special List_C					

Comments: Security seals intact. Frozen ice. Chain split into two separate work orders due to different TATs. :

	Signature	Print Name	Company	Date/Time
Logged in by:	K Murray	K Murray	Alpha Analytical, Inc.	11/10/15 1025

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

Billing Information:

Company: Stantec

Attn:

Address:

City, State, Zip:

Phone Number: Fax:

Alpha Analytical, Inc.

Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431 Phone: 775-355-1044 Fax: 775-355-0406

Satellite Service Centers:

Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Phone: 916-366-9089

Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Phone: 714-386-2901

Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801 Phone: 775-388-7043

Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 Phone: 702-261-4848

01917

Page # 1 of 1

Consultant Client Info:

Company: Stantec

Address:

City, State, Zip:

Job and Purchase Order Info:

Job #

Job Name: Grim A

P.O. #:

Report Attention/Project Manager:

Name: Scott

Email Address:

Phone #:

Cell #:

QC Deliverable Info:

EDD Required? Yes / No

EDF Required? Yes / No

Global ID: T0600100667

Data Validation Packages: II or III or IV

Samples Collected from which State? (circle one) AR CA KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered? Yes	Field Filtered? No	GRO	BTEX	MTBE	1,2 DCA Naphthalene Fuel Fcn	VOCs Fcn	Vinyl chloride	chlorobenzene	1,2 DCA / benzene	1,3,5 Trimethyl Benzene	Lead	Remarks
0616	11/9	AQ	[redacted] 1025-01	Grm A SVS Inf	STD	1		X	X	X	X		X	X	X	X	X		
0643	11/9	AQ		Grm A Eff	24	1		X	X	X	X		X	X	X	X	X		
0640	11/9	AQ		Grm W Inf	STD	6		X	X	X	X	X	X	X					
0635		AQ		Grm W Gnel	STD	6		X	X	X	X	X	X	X					
0630	11/9	AQ		Grm W Eff	24	6		X	X	X	X	X	X	X					
0700	11/9	OT		Carbon	24	1		X	X	X	X							X	

ADDITIONAL INSTRUCTIONS:

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

Sampled By: CHL

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Chris Stetina	110915	1200	E. Fruciano Alpha	110915	1200
			K Mooney	11/10/15	1025

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

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

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 11/10/15

Job: Grimit Auto

Metals by ICPMS
EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **Carbon**				
Lab ID : STR15111024-03A Lead (Pb)	ND	1,000 µg/Kg	11/10/15 10:50	11/11/15 21:07
Date Sampled 11/09/15 07:00				

Sample results were calculated on a wet weight basis.
ND = Not Detected
Reported in micrograms per Kilogram, per client request.

ACLASS ACCREDITED DoD ELAP

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.
Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

11/12/15
Report Date

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 11/10/15

Job: Grimit Auto

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

		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**Grim A EFF**					
Lab ID :	STR15111024-01A	TPH-P (GRO)	ND	20 mg/m³	11/10/15 10:44	11/10/15
Date Sampled	11/09/15 06:43	Vinyl chloride	ND	0.40 mg/m³	11/10/15 10:44	11/10/15
		Methyl tert-butyl ether (MTBE)	ND	0.20 mg/m³	11/10/15 10:44	11/10/15
		Benzene	ND	0.20 mg/m³	11/10/15 10:44	11/10/15
		Trichloroethene	ND	0.40 mg/m³	11/10/15 10:44	11/10/15
		Toluene	ND	0.20 mg/m³	11/10/15 10:44	11/10/15
		Tetrachloroethene	ND	0.40 mg/m³	11/10/15 10:44	11/10/15
		Chlorobenzene	ND	0.40 mg/m³	11/10/15 10:44	11/10/15
		Ethylbenzene	ND	0.20 mg/m³	11/10/15 10:44	11/10/15
		m,p-Xylene	ND	0.20 mg/m³	11/10/15 10:44	11/10/15
		o-Xylene	ND	0.20 mg/m³	11/10/15 10:44	11/10/15
		n-Propylbenzene	ND	0.40 mg/m³	11/10/15 10:44	11/10/15
		1,2,4-Trimethylbenzene	ND	0.40 mg/m³	11/10/15 10:44	11/10/15
Client ID :	**Grim W EFF**					
Lab ID :	STR15111024-02A	TPH-P (GRO)	ND	50 µg/L	11/10/15	11/10/15
Date Sampled	11/09/15 06:30	Vinyl chloride	ND	1.0 µg/L	11/10/15	11/10/15
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	11/10/15	11/10/15
		1,2-Dichloroethane	ND	1.0 µg/L	11/10/15	11/10/15
		Benzene	ND	0.50 µg/L	11/10/15	11/10/15
		Trichloroethene	ND	1.0 µg/L	11/10/15	11/10/15
		Toluene	ND	0.50 µg/L	11/10/15	11/10/15
		Tetrachloroethene	ND	1.0 µg/L	11/10/15	11/10/15
		Ethylbenzene	ND	0.50 µg/L	11/10/15	11/10/15
		m,p-Xylene	ND	0.50 µg/L	11/10/15	11/10/15
		o-Xylene	ND	0.50 µg/L	11/10/15	11/10/15
		Naphthalene	ND	2.0 µg/L	11/10/15	11/10/15
Client ID :	**Carbon**					
Lab ID :	STR15111024-03A	TPH-P (GRO)	ND	1,000 µg/Kg	11/10/15	11/10/15
Date Sampled	11/09/15 07:00	Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	11/10/15	11/10/15
		Benzene	ND	5.0 µg/Kg	11/10/15	11/10/15
		Toluene	ND	5.0 µg/Kg	11/10/15	11/10/15
		Ethylbenzene	ND	5.0 µg/Kg	11/10/15	11/10/15
		m,p-Xylene	ND	5.0 µg/Kg	11/10/15	11/10/15
		o-Xylene	ND	5.0 µg/Kg	11/10/15	11/10/15

Alpha Analytical, Inc.

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Gasoline Range Organics (GRO) C4-C13

Note: For sample -01A concentrations of air in a Tedlar Bag are at 22 degrees Celsius and 25.66 inches of mercury.

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

Sample results were calculated on a wet weight basis.

ND = Not Detected

ACLASS ACCREDITED DoD ELAP

Roger Scholl Randy Gardner

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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

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

11/11/15

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: *23-Nov-15*

QC Summary Report

Work Order: 15111024

Method Blank

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

File ID: 1 Batch ID: **35534** Analysis Date: **11/11/2015 21:04**

Sample ID: **MB-35534** Units : **µg/Kg** Run ID: **MANUAL_151111B** Prep Date: **11/10/2015 10:50**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	ND	1000								

Laboratory Control Spike

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

File ID: 3 Batch ID: **35534** Analysis Date: **11/11/2015 21:09**

Sample ID: **LCS-35534** Units : **µg/Kg** Run ID: **MANUAL_151111B** Prep Date: **11/10/2015 10:50**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	24500	1000	25000		98	80	120			

Sample Matrix Spike

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

File ID: 4 Batch ID: **35534** Analysis Date: **11/11/2015 21:12**

Sample ID: **15111024-03AMS** Units : **µg/Kg** Run ID: **MANUAL_151111B** Prep Date: **11/10/2015 10:50**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	24100	1000	25000	0	96	75	125			

Sample Matrix Spike Duplicate

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

File ID: 5 Batch ID: **35534** Analysis Date: **11/11/2015 21:14**

Sample ID: **15111024-03AMSD** Units : **µg/Kg** Run ID: **MANUAL_151111B** Prep Date: **11/10/2015 10:50**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	24200	1000	25000	0	97	75	125	24090	0.6(20)	

Comments:

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

Reported in micrograms per Kilogram, per client request.

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Date: *23-Nov-15*

QC Summary Report

Work Order: 15111024

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15111010.D** Batch ID: **MS08A1110B** Analysis Date: **11/10/2015 13:10**

Sample ID: **MBLK MS08A1110B** Units : **mg/m³** Run ID: **MSD_08_151110A** Prep Date: **11/10/2015 13:10**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	2.39		2		120	70	130			
Surr: Toluene-d8	2		2		100	70	130			
Surr: 4-Bromofluorobenzene	1.59		2		80	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15111005.D** Batch ID: **MS08A1110B** Analysis Date: **11/10/2015 11:01**

Sample ID: **GLCS MS08A1110B** Units : **mg/m³** Run ID: **MSD_08_151110A** Prep Date: **11/10/2015 11:01**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	385	10	400		96	70	130			
Surr: 1,2-Dichloroethane-d4	11.2		10		112	70	130			
Surr: Toluene-d8	9.83		10		98	70	130			
Surr: 4-Bromofluorobenzene	9.15		10		92	70	130			

Comments:

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

Alpha Analytical, Inc.

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Date: *23-Nov-15*

QC Summary Report

Work Order: 15111024

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15111708.D** Batch ID: **MS09S5521B** Analysis Date: **11/17/2015 12:28**

Sample ID: **MBLK MS09S5521B** Units : **µg/Kg** Run ID: **MSD_09_151109B** Prep Date: **11/17/2015 12:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	1000								
Surr: 1,2-Dichloroethane-d4	188		200		94	70	130			
Surr: Toluene-d8	209		200		105	70	130			
Surr: 4-Bromofluorobenzene	177		200		88	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15111711.D** Batch ID: **MS09S5521B** Analysis Date: **11/17/2015 13:40**

Sample ID: **GLCS MS09S5521B** Units : **µg/Kg** Run ID: **MSD_09_151109B** Prep Date: **11/17/2015 13:40**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	17200	2000	16000		108	63	149			
Surr: 1,2-Dichloroethane-d4	381		400		95	70	130			
Surr: Toluene-d8	410		400		103	70	130			
Surr: 4-Bromofluorobenzene	366		400		91	70	130			

Laboratory Control Spike Duplicate

Type **LCSD** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15111712.D** Batch ID: **MS09S5521B** Analysis Date: **11/17/2015 14:04**

Sample ID: **GLCSD MS09S5521B** Units : **µg/Kg** Run ID: **MSD_09_151109B** Prep Date: **11/17/2015 14:04**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	17700	2000	16000		111	63	149	17230	2.9(40)	
Surr: 1,2-Dichloroethane-d4	389		400		97	70	130			
Surr: Toluene-d8	422		400		105	70	130			
Surr: 4-Bromofluorobenzene	362		400		90	70	130			

Comments:

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

Reported in micrograms per Kilogram, per client request.

Alpha Analytical, Inc.

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Date: *23-Nov-15*

QC Summary Report

Work Order: 15111024

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15111007.D** Batch ID: **MS08W1110B** Analysis Date: **11/10/2015 11:54**

Sample ID: **MBLK MS08W1110B** Units : **µg/L** Run ID: **MSD_08_151110B** Prep Date: **11/10/2015 11:54**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	11.2		10		112	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	8.69		10		87	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15111005.D** Batch ID: **MS08W1110B** Analysis Date: **11/10/2015 11:01**

Sample ID: **GLCS MS08W1110B** Units : **µg/L** Run ID: **MSD_08_151110B** Prep Date: **11/10/2015 11:01**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	385	50	400		96	70	130			
Surr: 1,2-Dichloroethane-d4	11.2		10		112	70	130			
Surr: Toluene-d8	9.83		10		98	70	130			
Surr: 4-Bromofluorobenzene	9.15		10		92	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15111026.D** Batch ID: **MS08W1110B** Analysis Date: **11/10/2015 20:59**

Sample ID: **15111024-02AGS** Units : **µg/L** Run ID: **MSD_08_151110B** Prep Date: **11/10/2015 20:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1800	250	2000	0	90	54	143			
Surr: 1,2-Dichloroethane-d4	44.4		50		89	70	130			
Surr: Toluene-d8	52.3		50		105	70	130			
Surr: 4-Bromofluorobenzene	50.2		50		100	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **15111106.D** Batch ID: **MS08W1110B** Analysis Date: **11/11/2015 16:01**

Sample ID: **15111024-02AGSD** Units : **µg/L** Run ID: **MSD_08_151110B** Prep Date: **11/11/2015 16:01**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2190	250	2000	0	110	54	143	1795	20.0(23)	
Surr: 1,2-Dichloroethane-d4	42.2		50		84	70	130			
Surr: Toluene-d8	54.2		50		108	70	130			
Surr: 4-Bromofluorobenzene	49.7		50		99	70	130			

Comments:

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

Reported in micrograms per Liter, per client request.

Alpha Analytical, Inc.

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Date: *23-Nov-15*

QC Summary Report

Work Order: 15111024

Method Blank

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

File ID: **15111010.D** Batch ID: **MS08A1110A** Analysis Date: **11/10/2015 13:10**

Sample ID: **MBLK MS08A1110A** Units : **mg/m³** Run ID: **MSD_08_151110A** Prep Date: **11/10/2015 13:10**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Vinyl chloride	ND	0.2								
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Trichloroethene	ND	0.2								
Toluene	ND	0.1								
Tetrachloroethene	ND	0.2								
Chlorobenzene	ND	0.2								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
n-Propylbenzene	ND	0.2								
1,2,4-Trimethylbenzene	ND	0.2								
Surr: 1,2-Dichloroethane-d4	2.39		2		120	70	130			
Surr: Toluene-d8	2		2		100	70	130			
Surr: 4-Bromofluorobenzene	1.59		2		80	70	130			

Laboratory Control Spike

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

File ID: **15111004.D** Batch ID: **MS08A1110A** Analysis Date: **11/10/2015 10:34**

Sample ID: **LCS MS08A1110A** Units : **mg/m³** Run ID: **MSD_08_151110A** Prep Date: **11/10/2015 10:34**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	11.6	0.1	10		116	63	137			
Benzene	11.2	0.1	10		112	70	130			
Trichloroethene	9.7	0.2	10		97	68	138			
Toluene	10.7	0.1	10		107	70	130			
Chlorobenzene	10.9	0.2	10		109	70	130			
Ethylbenzene	10.9	0.1	10		109	70	130			
m,p-Xylene	11	0.1	10		110	65	139			
o-Xylene	11.2	0.1	10		112	70	130			
Surr: 1,2-Dichloroethane-d4	10.9		10		109	70	130			
Surr: Toluene-d8	9.5		10		95	70	130			
Surr: 4-Bromofluorobenzene	9.82		10		98	70	130			

Comments:

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

Alpha Analytical, Inc.

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

Date: 23-Nov-15

QC Summary Report

Work Order: 15111024

Method Blank

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

File ID: **15111708.D** Batch ID: **MS09S5521A** Analysis Date: **11/17/2015 12:28**

Sample ID: **MBLK MS09S5521A** Units : **µg/Kg** Run ID: **MSD_09_151109B** Prep Date: **11/17/2015 12:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	5								
Benzene	ND	5								
Toluene	ND	5								
Ethylbenzene	ND	5								
m,p-Xylene	ND	5								
o-Xylene	ND	5								
Surr: 1,2-Dichloroethane-d4	188		200		94	70	130			
Surr: Toluene-d8	209		200		105	70	130			
Surr: 4-Bromofluorobenzene	177		200		88	70	130			

Laboratory Control Spike

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

File ID: **15111709.D** Batch ID: **MS09S5521A** Analysis Date: **11/17/2015 12:52**

Sample ID: **LCS MS09S5521A** Units : **µg/Kg** Run ID: **MSD_09_151109B** Prep Date: **11/17/2015 12:52**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	336	10	400		84	65	145			
Benzene	373	10	400		93	70	137			
Toluene	385	10	400		96	70	139			
Ethylbenzene	439	10	400		110	70	137			
m,p-Xylene	457	10	400		114	70	145			
o-Xylene	442	10	400		111	70	145			
Surr: 1,2-Dichloroethane-d4	378		400		94	70	130			
Surr: Toluene-d8	422		400		105	70	130			
Surr: 4-Bromofluorobenzene	367		400		92	70	130			

Laboratory Control Spike Duplicate

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

File ID: **15111710.D** Batch ID: **MS09S5521A** Analysis Date: **11/17/2015 13:16**

Sample ID: **LCSD MS09S5521A** Units : **µg/Kg** Run ID: **MSD_09_151109B** Prep Date: **11/17/2015 13:16**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	344	10	400		86	65	145	336	2.4(32)	
Benzene	388	10	400		97	70	137	373.2	3.9(30)	
Toluene	398	10	400		99	70	139	385.2	3.3(28)	
Ethylbenzene	459	10	400		115	70	137	439.3	4.3(37)	
m,p-Xylene	476	10	400		119	70	145	456.8	4.1(34)	
o-Xylene	464	10	400		116	70	145	442	4.8(40)	
Surr: 1,2-Dichloroethane-d4	375		400		94	70	130			
Surr: Toluene-d8	426		400		106	70	130			
Surr: 4-Bromofluorobenzene	375		400		94	70	130			

Comments:

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

Alpha Analytical, Inc.

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

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

Date: 23-Nov-15

QC Summary Report

Work Order: 15111024

Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: 15111007.D Batch ID: MS08W1110A Analysis Date: 11/10/2015 11:54

Sample ID: MBLK MS08W1110A Units : µg/L Run ID: MSD_08_151110B Prep Date: 11/10/2015 11:54

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Vinyl chloride	ND	1								
Methyl tert-butyl ether (MTBE)	ND	0.5								
1,2-Dichloroethane	ND	1								
Benzene	ND	0.5								
Trichloroethene	ND	1								
Toluene	ND	0.5								
Tetrachloroethene	ND	1								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Naphthalene	ND	2								
Surr: 1,2-Dichloroethane-d4	11.2		10		112	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	8.69		10		87	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: 15111004.D Batch ID: MS08W1110A Analysis Date: 11/10/2015 10:34

Sample ID: LCS MS08W1110A Units : µg/L Run ID: MSD_08_151110B Prep Date: 11/10/2015 10:34

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	11.6	0.5	10		116	63	137			
Benzene	11.2	0.5	10		112	70	130			
Trichloroethene	9.7	1	10		97	68	138			
Toluene	10.7	0.5	10		107	70	130			
Ethylbenzene	10.9	0.5	10		109	70	130			
m,p-Xylene	11	0.5	10		110	65	139			
o-Xylene	11.2	0.5	10		112	70	130			
Surr: 1,2-Dichloroethane-d4	10.9		10		109	70	130			
Surr: Toluene-d8	9.5		10		95	70	130			
Surr: 4-Bromofluorobenzene	9.82		10		98	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method 624/8260

File ID: 15111024.D Batch ID: MS08W1110A Analysis Date: 11/10/2015 20:12

Sample ID: 15111024-02AMS Units : µg/L Run ID: MSD_08_151110B Prep Date: 11/10/2015 20:12

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	43.8	1.3	50	0	88	56	140			
Benzene	54.3	1.3	50	0	109	67	134			
Trichloroethene	49.7	2.5	50	0	99	68	138			
Toluene	57	1.3	50	0	114	38	130			
Ethylbenzene	58.6	1.3	50	0	117	70	130			
m,p-Xylene	57.5	1.3	50	0	115	65	139			
o-Xylene	55	1.3	50	0	110	69	130			
Surr: 1,2-Dichloroethane-d4	47.7		50		95	70	130			
Surr: Toluene-d8	49		50		98	70	130			
Surr: 4-Bromofluorobenzene	50.2		50		100	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method 624/8260

File ID: 15111025.D Batch ID: MS08W1110A Analysis Date: 11/10/2015 20:36

Sample ID: 15111024-02AMSD Units : µg/L Run ID: MSD_08_151110B Prep Date: 11/10/2015 20:36

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	41.3	1.3	50	0	83	56	140	43.75	5.7(40)	
Benzene	52.2	1.3	50	0	104	67	134	54.27	3.9(21)	
Trichloroethene	47.1	2.5	50	0	94	68	138	49.71	5.3(20)	
Toluene	53.8	1.3	50	0	108	38	130	57	5.9(20)	
Ethylbenzene	55.6	1.3	50	0	111	70	130	58.55	5.2(20)	
m,p-Xylene	53.8	1.3	50	0	108	65	139	57.52	6.7(20)	
o-Xylene	52	1.3	50	0	104	69	130	55.03	5.8(20)	
Surr: 1,2-Dichloroethane-d4	47.3		50		95	70	130			
Surr: Toluene-d8	50.1		50		100	70	130			
Surr: 4-Bromofluorobenzene	49		50		98	70	130			

Alpha Analytical, Inc.

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

Date: *23-Nov-15*

QC Summary Report

Work Order: 15111024

Comments:

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA RUSH

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

WorkOrder : STR15111024

Report Due By : 5:00 PM On : 10-Nov-15

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

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

EDD Required : Yes

Sampled by : C. Hill

PO :

Client's COC # : 01917 Job : Grimit Auto

Cooler Temp	Samples Received	Date Printed
3 °C	10-Nov-15	10-Nov-15

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests: METALS_SO	TPH/P_A	TPH/P_S	TPH/P_W	VOC_A	VOC_S	VOC_W		Sample Remarks
STR15111024-01A	Grim A EFF	AR	11/09/15 06:43	1	0	0		GAS-N/C			Special List				Tedlar
STR15111024-02A	Grim W EFF	AQ	11/09/15 06:30	6	0	0				GAS-C			Special List_C		
STR15111024-03A	Carbon	OT	11/09/15 07:00	1	0	0	Pb		GAS-C			BTEX/M_C			

Comments: ASAP TAT. Security seals intact. Frozen ice. Chain split into two separate work orders due to different TATs. :

	Signature	Print Name	Company	Date/Time
Logged in by:	K Murray	K Murray	Alpha Analytical, Inc.	11/10/15 1010

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

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information:

Company: Stantec
Attn:
Address:
City, State, Zip:
Phone Number: Fax:

Alpha Analytical, Inc.
Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
Phone: 775-355-1044
Fax: 775-355-0406

Satellite Service Centers:
Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Phone: 916-366-9089
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Phone: 714-386-2901
Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801 Phone: 775-388-7043
Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 Phone: 702-281-4848

01917

Page # 1 of 1

Consultant/ Client Info:
Company: Stantec
Address:
City, State, Zip:

Job and Purchase Order Info:
Job #
Job Name: Grimit Area
P.O. #:

Report Attention/Project Manager:
Name: Scott
Email Address:
Phone #:
Cell #:

QC Deliverable Info:
EDD Required? Yes / No
EDF Required? Yes / No
Global ID: T0600100667
Data Validation Packages: II or III or IV

Samples Collected from which State? (circle one) AR CA KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered? Yes	Field Filtered? No	GRO	BTEX	MTBE	1,2 DCA / Naphthalene	VOCs 8260 TCL	Vinyl chloride	1,2-dichlorobenzene	N-Propyl benzene	1,2,4-Trimethyl Benzene	Lead	Remarks
0616	11/9	AQ		Grim A 3ys Inf	STD	1		X	X	X	X		X	X					
0613	11/9	AQ	STR1511024-01	Grim A Eff	24	1		X	X	X	X		X	X	X	X	X		
0610	11/9	AQ		Grim W Inf	STD	6		X	X	X	X	X	X	X					
0635		AQ		Grim W Gnel	STD	6		X	X	X	X	X	X	X					
0630	11/9	AQ	02	Grim W Eff	24	6		X	X	X	X	X	X	X					
0700	11/9	OT	03	Carbon	24	1		X	X	X	X							X	

ADDITIONAL INSTRUCTIONS:

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

Sampled By: CHL

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
CHL Stantec	110915	1200	E. Fruciano Alpha	110915	1200
			K Murray	11/10/15	1000

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

NOTE: Samples are discarded 60 days after sample receipt 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.