

**RECEIVED**

By Alameda County Environmental Health 3:07 pm, Nov 13, 2015

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

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

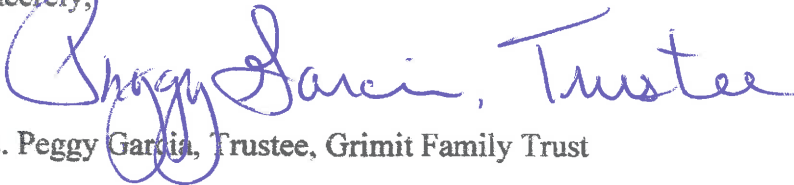
Dear Mr. Nowell:

Stratus Environmental, Inc. (Stratus) has recently prepared a report entitled *Quarterly Groundwater Discharge Report, Second Quarter 2015*, on my behalf. The report was prepared in regards to Alameda County Fuel Leak Case No. RO0000413, for Gritit 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](mailto:peggy.h.garcia@sbcglobal.net), or my daughter Angel LaMarca at [angelcpt@gmail.com](mailto:angelcpt@gmail.com).

Sincerely,

A handwritten signature in blue ink that reads "Peggy Garcia, Trustee". The signature is written in a cursive style with a large initial "P".

Ms. Peggy Garcia, Trustee, Gritit Family Trust

cc: Angel LaMarca



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

July 30, 2015  
Project No. 2090-1970-01

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

Re: Quarterly Groundwater Discharge Report, Second Quarter 2015  
Former Gritmit Auto Repair and Service  
1970 Seminary Boulevard, Oakland, California

To Ms. Mena:

Stratus Environmental, Inc. (Stratus) has prepared this letter, on behalf of the Gritmit Family Trust, for the Former Gritmit 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 *Quarterly Groundwater Discharge Report* to the East Bay Municipal Utility District (EBMUD) for the pretreatment system maintenance of the groundwater remediation system.

During the second quarter 2015, all extracted groundwater was treated using carbon vessels, and discharged into the sanitary sewer (Figure 3). The total quarterly discharge was approximately 8,700 gallons between March 10 and June 2, 2015. The average monthly discharge and extraction rates for the second quarter 2015 are as follows:

- March 10 – April 2, 2015: 2,450 gallons (0.07 gpm)
- April 2 – May 5, 2015: 3,640 gallons (0.08 gpm)
- May 5 – June 2, 2015: 2,610 gallons (0.06 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 second quarter 2015 are included in Appendix B. Stratus revised the location of the flow totalizer on July 21, 2015, as requested in an email dated July 17, 2015, (See Appendix C for photos of the revised location).

July 30, 2015

During the third quarter 2015, the system is expected to continue to operate, and Stratus will continue to monitor the system a minimum of twice a month.

*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.**



Deborah L. Barr, P.E.  
Project Engineer

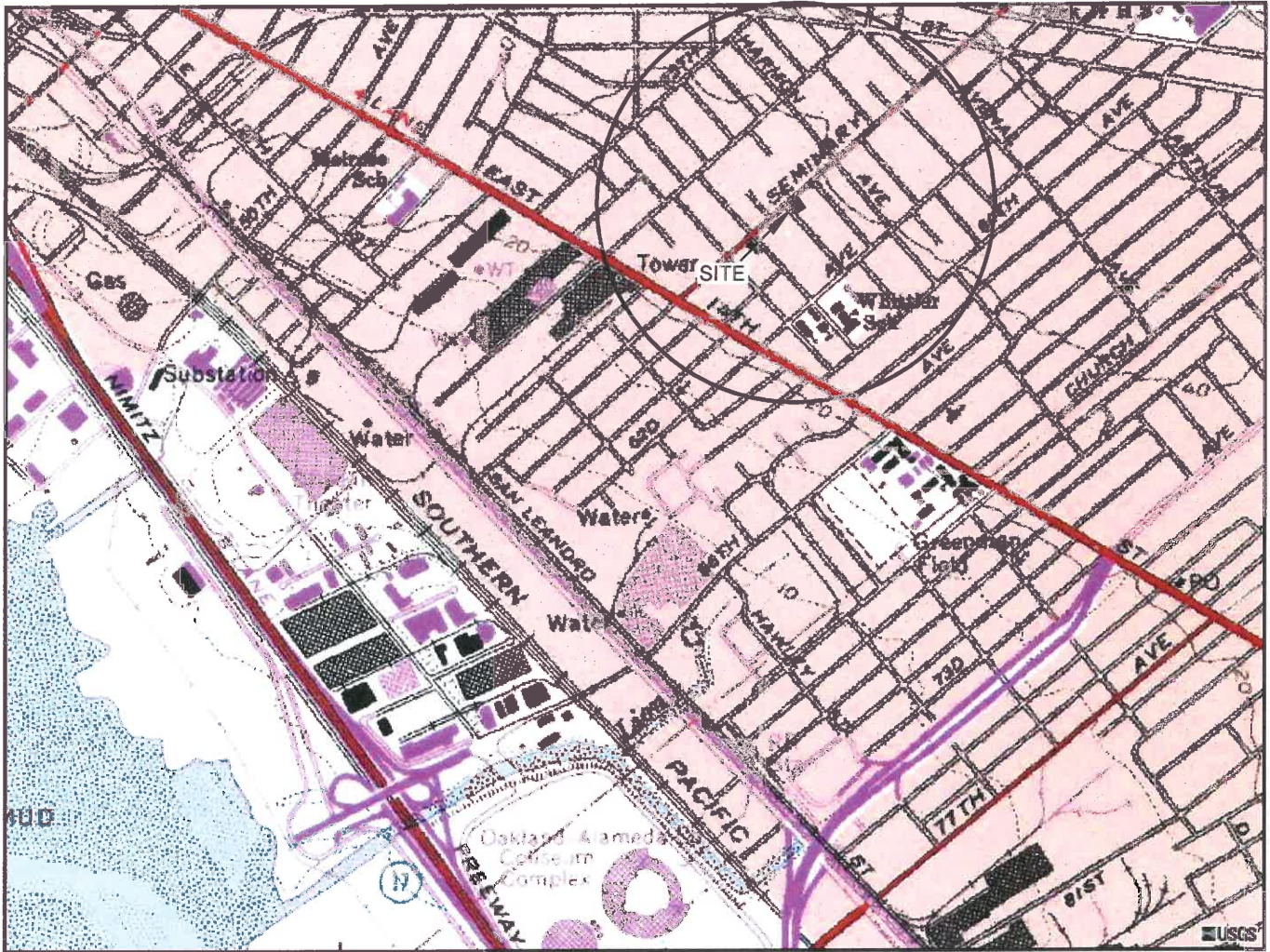


Scott Bittinger, P.G.  
Project Manager

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 |
| Appendix C | Photos of Revised Flow Totalizer Location                        |

cc: Ms. Peggy Garcia, Trustee, Grit 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



APPROXIMATE SCALE



QUADRANGLE LOCATION

*STRATUS*  
 ENVIRONMENTAL, INC.

FORMER GRIMIT AUTO  
 1970 SEMINARY AVENUE  
 OAKLAND, CALIFORNIA

FIGURE

1

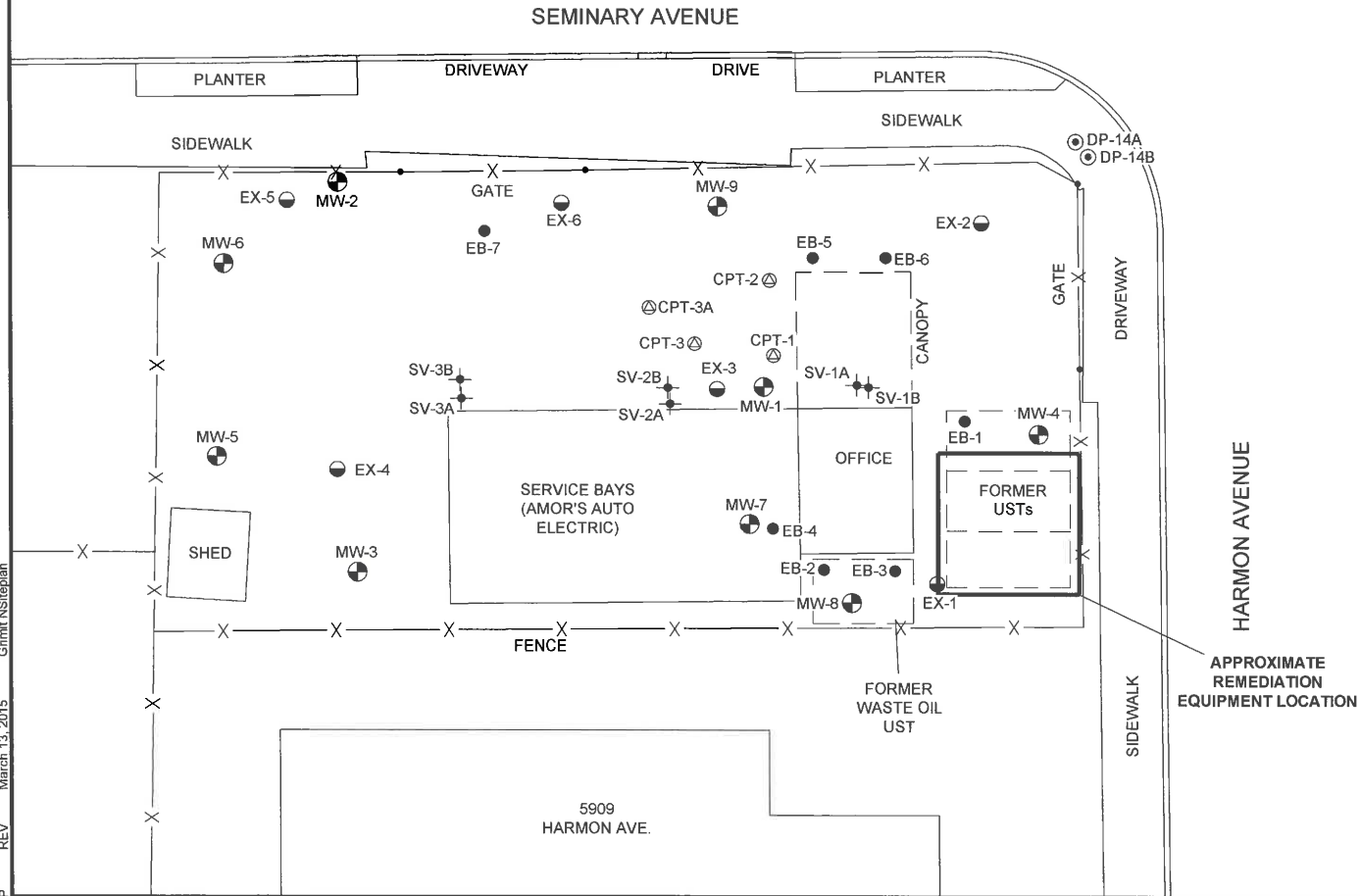
PROJECT NO.  
 2090-1970-01

SITE LOCATION MAP



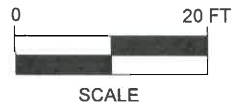
LEGEND

- ⊕ MW-1 GROUNDWATER MONITORING WELL LOCATION
- ⊖ EX-1 APPROXIMATE EXTRACTION WELL LOCATION
- EB-1 APPROXIMATE EXPLORATORY BORING LOCATION
- ⊗ CPT-1 CPT/LIF BORING LOCATION
- ⊕ SV-1A SOIL VAPOR SAMPLING WELL LOCATION
- ⊙ DP-14A DIRECT PUSH BORING LOCATION



JMP REV March 13, 2015 Grrmt NSiteplan Grrmt Auto

*STRATUS*  
ENVIRONMENTAL, INC.



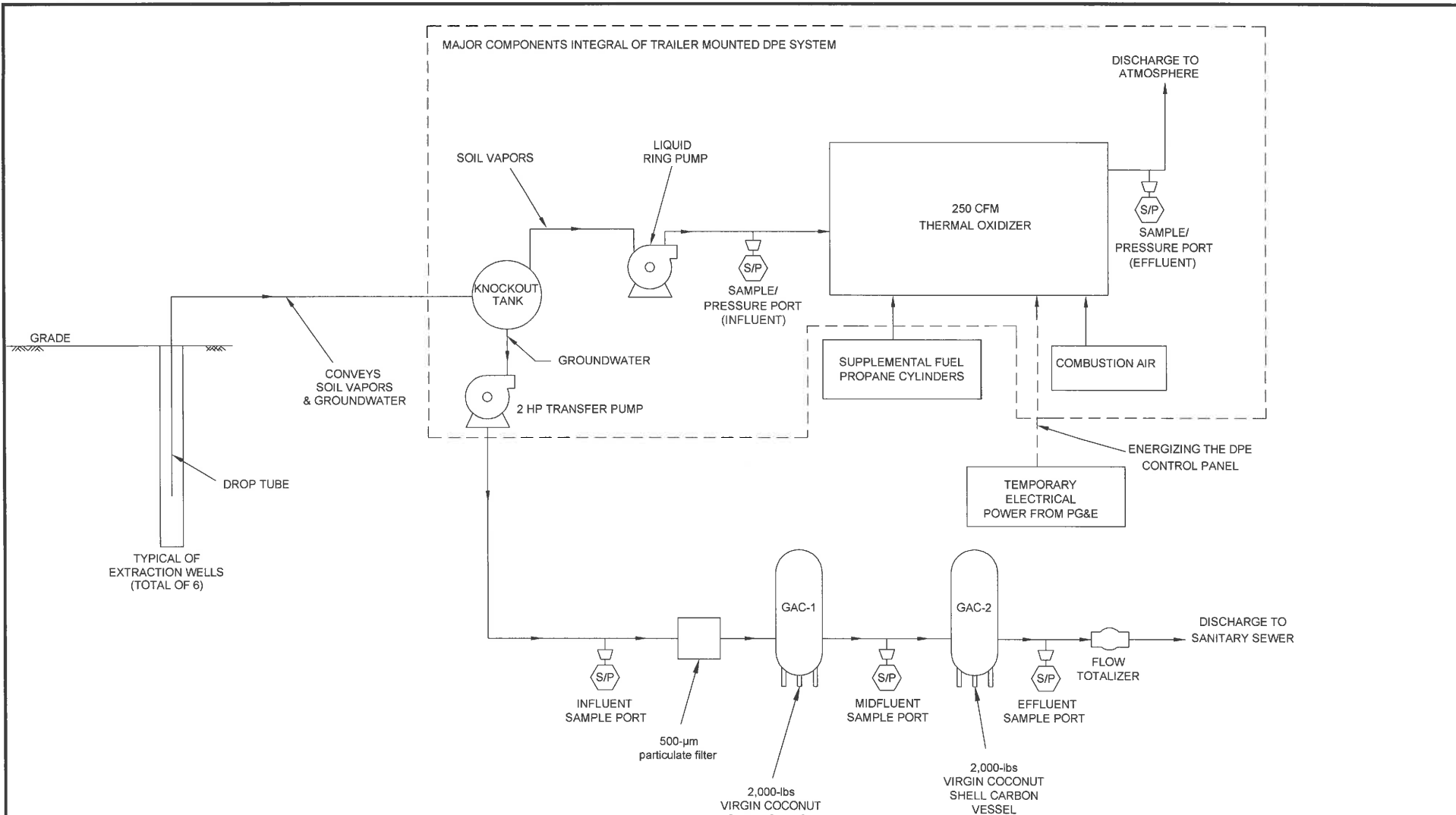
FORMER GRIMIT AUTO  
1970 SEMINARY AVENUE  
OAKLAND, CALIFORNIA

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



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**  
 Gritmit 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	
			"Hg	ft <sup>2</sup>	°F	fpm	acfm	°F	°F	ft <sup>2</sup>	°F	fpm	acfm	Sys Inf	Eff
														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	1450	1002	0.0218	65	2504	55	30	3.6
11/20/14 10:00		15,632.1	10.5	0.0873	95	1,500	130.9	1543	1253	0.0218	72	2222	48	410	2.9
11/20/14 11:00		15,632.1	10.0	0.0873	80	1,500	130.9	1554	1285	0.0218	60	2260	49	35	2.3
11/20/14 12:00		15,632.1	10.0	0.0873	80	1,500	130.9	1559	1311	0.0218	67	2186	48	40	2.1
11/21/14 7:00		15,632.1	10.0	0.0873	90	1,500	130.9	1537	1368	0.0218	65	2140	47	20	2.0
11/25/14 10:10	2	15,632.0	10.0	0.0873	90	1,500	130.9	1450	1224	0.0218	--	--	--	58	2.1
12/18/14 7:30	3	0.0	13.5	0.0873	92	1,500	130.9	1484	--	0.0218	64	2503	55	8	1.2
12/19/14 7:00		20.0	13.0	0.0873	90	1,500	130.9	1492	1305	0.0218	61	2910	63	100	1.2
12/29/14 7:15		260.0	7.5	0.0873	82	1,500	130.9	1500	1430	0.0218	--	--	--	10	1.3
1/5/15 8:50		430.0	8.0	0.0873	100	1,500	130.9	1451	1259	0.0218	57	3020	66	10	2.1
1/19/15 8:00		765.0	10.0	0.0873	90	1,400	122.2	1491	1303	0.0218	63	3122	68	5	1.1
2/2/15 8:00		1,101.0	11.0	0.0873	95	1,500	130.9	1452	1268	0.0218	60	3233	71	1.4	0.8
2/16/15 7:15		1,436.0	11.0	0.0873	90	1,350	117.8	1485	1308	0.0218	58	3314	72	2.0	0.8
3/10/15 8:30		1,965.0	11.0	0.0873	90	1,250	109.1	1493	1311	0.0218	63	2971	65	15	2.1
3/23/15 7:50	4	2,276.0	12.0	0.0873	92	1,250	109.1	1504	--	0.0218	64	3418	75	47	1.0
4/2/15 5:45		2,514.0	12.0	0.0873	90	1,250	109.1	1489	1307	0.0218	57	3463	76	100	0.9
4/22/15 6:56		2,995.0	12.0	0.0873	93	1,500	130.9	1493	--	0.0218	56	3370	74	25	0.5
5/5/15 8:30		3,309.0	12.0	0.0873	100	1,350	117.8	1481	1160	0.0218	63	2867	63	12	1.8
5/20/15 8:15		3,669.0	12.0	0.0873	100	1,150	100.4	1560	1380	0.0218	67	3011	66	33	0.9
6/2/15 6:10		3,979.0	12.0	0.0873	92	1,200	104.7	1599	1321	0.0218	68	3064	67	40	0.9
6/22/15 8:00		4,460.0	12.0	0.0873	88	1,100	96.0	1474	840	0.0218	65	3457	75	30	0.9
Average			11		89	1,450	126.5	1496	1279		63	2754	60	53	1.8



**TABLE 5**  
**DPE REMEDIATION EVENT**  
**OPERATIONAL UPTIME AND FLOW SUMMARY**  
 Grit 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	
			"Hg	ft <sup>2</sup>	°F	fpm	acfm	°F	°F	ft <sup>2</sup>	°F	fpm	acfm	Sys Inf	Eff
<b>Legend / Key:</b>														<b>Sample Calculation:</b>	
Vac = Vacuum			fpm = feet per minute			air flow = area of pipe (0.0491 ft <sup>2</sup> ) × air velocity (fpm) = flowrate (acfm)									
"Hg = inches mercury			acfm = actual cubic feet per minute												
ft <sup>2</sup> = square feet			ppmv = parts per million by volume												
Temp = temperature			PID = Photoionization Detector												
°F = Fahrenheit			Sys Inf = System Influent (includes dilution air)												
Inf = Influent			Eff = Effluent												
-- = not applicable/ not measured															
<b>Notes:</b>															
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 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.															

**TABLE 6**  
**DPE REMEDIATION EVENT**  
**VACUUM ("WC) AND DEPTH TO WATER (feet bgs) SUMMARY**  
 Gruit Auto, 1970 Seminary Ave, Oakland, California

Date & Time	Notes	Induced Vacuum ("WC) &/or Depth to Water (feet bgs)					
		MW-2		MW-8		MW-4	
		"WC	DTW (feet bgs)	"WC	DTW (feet bgs)	"WC	DTW (feet bgs)
12/18/14 7:30	1	0.02*	17.87	0.00	0.98	--	--
12/19/14 7:00		--	--	--	--	--	--
12/29/14 7:15		--	--	--	--	--	--
1/5/15 8:50		16.62	12.76	22.80	3.35	0.04	19.29
1/19/15 8:00		--	--	--	--	20.84	1.88
2/2/15 8:00		--	--	--	--	6.60	21.51
2/16/15 7:15		--	--	--	--	15.40	20.34
3/10/15 8:30		0.40	12.94	32.60	21.55	5.28	4.50
3/23/15 7:50	2	6.75	15.39	47.14	21.69	1.41	4.68
4/2/15 5:45		--	--	--	--	47.2	21.63
4/22/15 6:56		--	--	--	--	34.1	21.43
5/5/15 8:30		3.70*	13.55	8.27	4.18	54.30	20.85
5/20/15 8:15		--	--	--	--	41.60	22.31
6/2/15 6:10		--	--	--	--	51.10	22.21
6/22/15 8:00		--	--	--	--	53.50	21.64
7/1/15 7:30		--	--	--	--	--	--
<b>Average</b>		23.79	14.74	25.64	11.89	8.26	12.03
<b>Legend / Key:</b> DTW = Depth to water                      bgs = below ground surface "WC = Inches of water column      -- = not applicable/ not measured * Positive pressure <b>Notes:</b> 1 Stinger depth in EX-1 19 feet bgs, EX-2 18 feet bgs, EX-3 24 feet bgs, EX-6 20 feet bgs. 2 MW-1 brought on-line; stinger placed approx. 34 feet bgs.							

**TABLE 7**  
**DPE REMEDIATION EVENT**  
**SVE COMPONENT - ANALYTICAL RESULTS AND FLOWRATES**  
 Gruit Auto, 1970 Seminary Ave, Oakland, California

Date	Notes	Sample Time	Flowrate *		Influent Temp. (°F)	Vacuum "Hg	Sample Location	Lab Sample Number	Analyses (mg/m <sup>3</sup> )									
			(acfm)	(scfm)					GRO	Benzene	Toluene	Ethyl benzene	Total Xylenes	MTBE	PCE	TCE	n-Propyl benzene	1,2,4-Trimethyl benzene
11/20/14	1	11:30	130.9	128.0	80	10	ASYS INF	89712-01	<b>150</b>	<0.20	<0.20	<b>0.85</b>	<b>2.07</b>	<0.20	<0.20	<0.20	<b>0.46</b>	<b>1.9</b>
							A EFF	89712-02	<20	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
12/19/14		10:04	130.9	125.7	90	13	ASYS INF	89947-01	<b>33</b>	<b>0.41</b>	<b>0.43</b>	<b>0.94</b>	<b>1.96</b>	<0.20	<0.20	<0.20	<0.20	<0.20
		10:35					A EFF	89947-02	<20	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
01/05/15		9:07	130.9	123.4	100	8	ASYS INF	90046-01	<20	<0.20	<0.20	<0.25	<0.40	<0.20	<0.20	<0.20	<0.20	<0.20
		9:05					A EFF	90046-02	<20	<0.20	<0.20	<0.25	<0.40	<0.20	<0.20	<0.20	<0.20	<0.20
02/02/15		8:15	130.9	124.5	95	11	ASYS INF	90255-01	<20	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
		8:10					A EFF	90255-02	<20	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03/10/15		9:08	109.1	104.7	90	11	ASYS INF	90501-01	<b>45</b>	<0.20	<0.20	<0.25	<b>0.27</b>	<0.20	<0.20	<0.20	<0.20	<0.20
		9:05					A EFF	90501-02	<20	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
04/02/15	2	6:05	109.1	104.7	90	12	ASYS INF	15-04-0248-1-A	<b>730</b>	<b>0.26</b>	<b>0.34</b>	<b>0.56</b>	<b>1.3</b>	<0.036	<0.017	<0.013	<b>0.089</b>	<b>0.16</b>
		6:00					A EFF	15-04-0248-2-A	<7.0	<b>0.0017</b>	<0.019	<0.0022	<0.0022	<0.0072	<0.0034	<0.0027	<0.0025	<0.0074
05/05/15		8:58	117.8	111.1	100	12	ASYS INF	STR15050648-01A	<b>48</b>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.40	<0.40	<0.40
		8:55					A EFF	STR15050644-01A	<20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.40	<0.40	<0.40
06/02/15		6:40	104.7	100.2	92	12	ASYS INF	STR15060303-01A	<b>160</b>	<0.20	<b>0.25</b>	<b>0.36</b>	<b>0.93</b>	<0.20	<0.40	<0.40	<0.40	<0.40
		6:43					A EFF	STR15060342-01A	<20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.40	<0.40	<0.40

**TABLE 7  
DPE REMEDIATION EVENT  
SVE COMPONENT - ANALYTICAL RESULTS AND FLOWRATES  
Grimit Auto, 1970 Seminary Ave, Oakland, California**

Date	Notes	Sample		Flowrate *	Influent Temp. (°F)	Vacuum "Hg	Sample Location	Lab Sample Number	Analyses (mg/m <sup>3</sup> )								
		Time	(acfm)						(scfm)	GRO	Benzene	Toluene	Ethyl benzene	Total Xylenes	MTBE	PCE	TCE
<b>Legend / Key:</b>									<b>Laboratory Analytical Methods and Facility:</b>								
acfm = actual cubic feet per minute			MTBE = methyl tertiary butyl ether			GRO analyzed using EPA Method SW8015B/SW8260B											
scfm = standard cubic feet per minute			PCE = tetrachloroethene			BTEX, MTBE and VOCs analyzed using EPA Method SW8260B											
Temp. (°F) = temperature in degrees Fahrenheit			TCE = trichloroethene			Pace Analytical(Formerly Kiff Analytical; ELAP # 08263CA)											
"Hg = inches mercury			SysInf = system influent														
GRO = gasoline range organics (C4-C13)			Eff = effluent														
BTEX = benzene, toluene, ethylbenzene, and xylenes			mg/m <sup>3</sup> = milligrams per cubic meter														
* Flowrate used based on most representative field data at time of sampling.																	
<b>Calculations:</b>																	
Actual flow rate (acfm) is converted to standard flow rate (scfm) using the following formulas:																	
Pressure corrected influent flow rate = Flow was taken on positive side of blower, no pressure correction factor needed.																	
Temperature Corrected influent flow rate = Pressure corrected flow rate * {(460 R + 68deg F)/( deg F+ 460 R)}																	
<b>Notes:</b>																	
1 DPE extracting from extraction wells EX-1, EX-2, EX-3, and EX-6.																	
2 Sampled per EPA Method TO-15M and TO-3M; Pace Analytical subbed out work to a third party laboratory (Eurofins/Calscience), therefore, different method and reporting limits were reported.																	

**TABLE 8  
DPE REMEDIATION EVENT  
SVE COMPONENT - EXTRACTION AND EMISSION RATES  
Grimit Auto, 1970 Seminary Ave, Oakland, California**

Date	Notes	Influent Sample Time	Hour Meter Reading	Sys. Influent Flowrate (scfm)	Effluent Flowrate <sup>2</sup> (scfm)	Sys. Influent Conc. (mg/m <sup>3</sup> )			Effluent Conc. (mg/m <sup>3</sup> )			Extraction Rate from Wells (lbs/day) <sup>2</sup>			Emissions Rate to Atmosphere (lbs/day)			Destruction Removal Efficiency (%)	Cumulative GRO Removal (lbs)	
						GRO	Benzene	MTBE	GRO	Benzene	MTBE	GRO	Benzene	MTBE	GRO	Benzene	MTBE		GRO	Benzene
11/20/14	1	11:30	15,632.1	128.0	208.0	150	<0.20	<0.20	<20	<0.20	<0.20	1.73	<0.002	<0.002	<0.37	<0.004	<0.004	78.3	0.1	0.1
12/18/14	2	10:40	0.0	125.7	205.7	33	0.41	<0.20	<20	<0.20	<0.20	0.37	0.005	<0.002	<0.37	<0.004	<0.004	--	--	0.1
1/5/15		9:07	430.0	123.4	203.4	<20	<0.20	<0.20	<20	<0.20	<0.20	<0.29	<0.003	<0.002	<0.37	<0.004	<0.004	--	5.3	5.3
2/2/15		8:15	1,101.0	124.5	204.5	<20	<0.20	<0.20	<20	<0.20	<0.20	<0.22	<0.002	<0.002	<0.37	<0.004	<0.004	--	6.3	11.6
3/10/15		9:08	1,965.0	104.7	184.7	45	<0.20	<0.20	<20	<0.20	<0.20	0.31	<0.002	<0.002	<0.33	<0.003	<0.003	--	11.0	22.6
4/2/15		6:20	2,514.0	104.7	184.7	730	0.26	<0.036	<7	0.0017	<0.0072	3.65	<0.002	<0.001	<0.12	<0.000	<0.000	--	83.4	106.1
5/5/15		8:58	3,309.0	111.1	191.1	48	<0.20	<0.20	<20	<0.20	<0.20	3.88	<0.002	<0.001	<0.34	<0.003	<0.003	--	128.7	234.7
6/2/15		6:40	3,979.0	100.2	180.2	160	<0.20	<0.20	<20	<0.20	<0.20	0.94	<0.002	<0.002	<0.32	<0.003	<0.003	--	26.1	260.9

**Legend / Key:**

acfm = actual cubic feet per minute  
 scfm = standard cubic feet per minute  
 Sys. = system  
 mg/m<sup>3</sup> = milligrams per cubic meter  
 Conc. = concentration  
 lbs/day = pounds per day

GRO = gasoline range organics  
 MTBE = methyl tertiary butyl ether

<sup>1</sup> Effluent Flow rate = System Influent flow rate + combustion air flow rate (80 cfm per manufacturer)

<sup>2</sup> To calculate the extraction rate, the system influent concentrations are averaged between the sampling dates for those dates that extract from the same extraction wells.

**Sample Calculations:**

Extraction Rate from Wells (lbs/day) = Sys Inf Flowrate (ft<sup>3</sup>/min) x Avg. Inf Conc (mg/m<sup>3</sup>) x (1 lb/453,593mg) x (1,440 min/day) x (1 m<sup>3</sup>/35.314ft<sup>3</sup>)

Destruction Removal Efficiency, % =  $\frac{(\text{Extraction Rate} - \text{Emission Rate})}{\text{Extraction Rate}} \times 100$

**Notes:**

- DPE extracting from extraction wells EX-1, EX-2, EX-3, and EX-6. GRO removed is calculated based on assuming 1.1 hours of operation occurred from start of test to first sample time.
- New hour meter installed. System operated for 1-hour during initial start-up and sampling period. System re-started for continuous operation, therefore, mass removed is negligible and will be calculated after next sampling event.

**TABLE 9a**  
**DPE REMEDIATION EVENT**  
**GROUNDWATER EXTRACTION COMPONENT - GROUNDWATER ANALYTICAL DATA SUMMARY**  
 Gritmit 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	<b>75</b>	<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	<b>130</b>	<b>1.9</b>	<b>2.6</b>	<b>4.0</b>	<b>9.1</b>	<0.5	<b>11</b>	<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	<b>0.83</b>	<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	<b>0.66</b>	<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	<b>92</b>	<b>0.61</b>	<b>0.92</b>	<b>1.2</b>	<b>10.2</b>	<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	<b>1.1</b>	<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	<b>2.6</b>	<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**  
 Gritmit 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
<b>Legend / Key:</b>					<b>Analytical Methods /Laboratory:</b>											
GRO = Gasoline Range Organics C4-C13					PCE = tetrachloroethene					GRO analyzed using EPA Method SW8015B/SW8260B						
MTBE = Methyl tertiary butyl ether					TCE = trichloroethene					BTEX and MTBE analyzed using EPA Method SW8260B						
BTEX = Benzene, toluene, ethylbenzene, xylenes					1,2 DCA = 1,2 - Dichloroethane					Volatile Organics analyzed using EPA Method 624/SW8260						
µg/L = micrograms per liter					Lead analyzed using EPA Method 200.8											
-- = Not analyzed					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.																
<b>Notes:</b>																
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**  
 Gruit Auto, 1970 Seminary Ave, Oakland, California

Date	Notes	Sample Time	Sample Location	Laboratory Sample ID	Mercury	Cr	Fe	As	Ni	Cu	Zn	Ag	Cd	Pb
					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	<0.20	<10	<b>580</b>	<b>5.5</b>	<10	<b>26</b>	<100	<5.0	<2.0	<5.0
		10:30	WGAC1	STR14112541-02A	--	--	--	--	--	--	--	--	--	--
		10:25	WEFF	STR14112541-03A	<0.20	<10	<300	<b>25</b>	<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**  
 Gruit Auto, 1970 Seminary Ave, Oakland, California

Date	Notes	Sample Time	Hour Meter Reading <sup>1</sup>	Sewer Discharge Data				Analytical Results	Mass Removed	Cumulative
				Totalizer Reading (gallons)	Period (gallons)	Cumulative Flow (gallons)	Average Extraction Rate (gpm) <sup>a</sup>	Influent	This Period <sup>b</sup>	Mass Removed
								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	0.0011
1/5/15		9:25	430.0	219,180	3,150	4,490	0.13	<50	0.0013	0.0024
2/2/15		8:35	1,101.0	221,340	2,160	6,650	0.05	<50	0.0009	0.0033
3/10/15		9:22	1,965.0	226,420	5,080	11,730	0.10	<50	0.0021	0.0054
4/2/15		6:20	2,514.0	228,870	2,450	14,180	0.07	92	0.0019	0.0073
5/5/15		9:20	3,309.0	232,510	3,640	17,820	0.08	<50	0.0015	0.0088
6/2/15		6:35	3,979.0	235,120	2,610	20,430	0.06	<50	0.0011	0.0099

**Legend / Key:**

GRO = Gasoline Range Organics C4-C13

µg/L = micrograms per litre

lbs = pounds

DRO = Diesel Range Organics C13-C22

gpm = gallons per minute

-- = data not collected/not calculated

MTBE = Methyl tertiary butyl ether

TBA = Tertiary Butyl Alcohol

<sup>a</sup> Approximate groundwater extraction rate between sampling periods, actual extraction rate varies due to system down time.

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

<sup>1</sup> 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.

## **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 : 04/03/15

Job: Grit Auto

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

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID : Grim W INF Lab ID : STR15040343-01A Date Sampled 04/02/15 06:20	TPH-P (GRO) 92	50 µg/L	04/07/15	04/07/15
Client ID : Grim W GAC1 Lab ID : STR15040343-02A Date Sampled 04/02/15 06:15	TPH-P (GRO) ND	50 µg/L	04/07/15	04/07/15

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

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 in any way.

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



*AS*  
4/10/15

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: Grit Auto

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

Alpha Analytical Number: STR15040343-01A  
Client I.D. Number: Grim W INF

Sampled: 04/02/15 06:20  
Received: 04/03/15  
Extracted: 04/07/15  
Analyzed: 04/07/15

### Volatile Organics by GC/MS EPA Method 624/8260

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Chloromethane	ND	2.0 µg/L	28 1,1,2-Trichloroethane	ND	1.0 µg/L
2 Vinyl chloride	ND	1.0 µg/L	27 Toluene	0.92	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 Tetrachloroethene	ND	1.0 µg/L
5 Trichlorofluoromethane	ND	1.0 µg/L	30 Chlorobenzene	ND	1.0 µg/L
6 1,1-Dichloroethene	ND	1.0 µg/L	31 Ethylbenzene	1.2	0.50 µg/L
7 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	32 m,p-Xylene	8.3	0.50 µg/L
8 Dichloromethane	ND	2.0 µg/L	33 Bromoform	ND	1.0 µg/L
9 trans-1,2-Dichloroethene	ND	1.0 µg/L	34 o-Xylene	1.9	0.50 µg/L
10 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	35 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
11 1,1-Dichloroethane	ND	1.0 µg/L	36 1,3-Dichlorobenzene	ND	1.0 µg/L
12 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	37 1,4-Dichlorobenzene	ND	1.0 µg/L
13 cis-1,2-Dichloroethene	ND	1.0 µg/L	38 1,2-Dichlorobenzene	ND	1.0 µg/L
14 Chloroform	ND	1.0 µg/L	39 Naphthalene	ND	2.0 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	0.61	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  
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*[Signature]*

4/10/15

Report Date

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# Alpha Analytical, Inc.

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

## ANALYTICAL REPORT

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

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

Alpha Analytical Number: STR15040343-02A  
Client I.D. Number: Grim W GAC1

Sampled: 04/02/15 06:15  
Received: 04/03/15  
Extracted: 04/07/15  
Analyzed: 04/07/15

### 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 Tetrachloroethene	ND	1.0 µg/L
5 Trichlorofluoromethane	ND	1.0 µg/L	30 Chlorobenzene	ND	1.0 µg/L
6 1,1-Dichloroethene	ND	1.0 µg/L	31 Ethylbenzene	ND	0.50 µg/L
7 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	32 m,p-Xylene	ND	0.50 µg/L
8 Dichloromethane	ND	2.0 µg/L	33 Bromoform	ND	1.0 µg/L
9 trans-1,2-Dichloroethene	ND	1.0 µg/L	34 o-Xylene	ND	0.50 µg/L
10 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	35 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
11 1,1-Dichloroethane	ND	1.0 µg/L	36 1,3-Dichlorobenzene	ND	1.0 µg/L
12 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	37 1,4-Dichlorobenzene	ND	1.0 µg/L
13 cis-1,2-Dichloroethene	ND	1.0 µg/L	38 1,2-Dichlorobenzene	ND	1.0 µg/L
14 Chloroform	ND	1.0 µg/L	39 Naphthalene	ND	2.0 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			

ND = Not Detected



*Roger Scholl*

*Randy Gardner*

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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.



*[Signature]*  
4/10/15

Report Date

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# Alpha Analytical, Inc.

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

## VOC Sample Preservation Report

Work Order: STR15040343

Job: Gritmit Auto

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15040343-01A	Grim W INF	Aqueous	2
15040343-02A	Grim W GAC1	Aqueous	2

4/10/15

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:  
08-Apr-15

## QC Summary Report

Work Order:  
15040343

### Method Blank

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

File ID: 15040708.D

Batch ID: MS09W0407B

Analysis Date: 04/07/2015 13:06

Sample ID: MBLK MS09W0407B

Units: µg/L

Run ID: MSD\_09\_150407A

Prep Date: 04/07/2015 13:06

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	9.49		10		95	70	130			
Surr: 4-Bromofluorobenzene	9.94		10		99	70	130			

### Laboratory Control Spike

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

File ID: 15040707.D

Batch ID: MS09W0407B

Analysis Date: 04/07/2015 12:40

Sample ID: GLCS MS09W0407B

Units: µg/L

Run ID: MSD\_09\_150407A

Prep Date: 04/07/2015 12:40

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	425	50	400		106	70	130			
Surr: 1,2-Dichloroethane-d4	10.4		10		104	70	130			
Surr: Toluene-d8	9.25		10		93	70	130			
Surr: 4-Bromofluorobenzene	10.2		10		102	70	130			

### Sample Matrix Spike

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

File ID: 15040721.D

Batch ID: MS09W0407B

Analysis Date: 04/07/2015 18:13

Sample ID: 15040344-07AGS

Units: µg/L

Run ID: MSD\_09\_150407A

Prep Date: 04/07/2015 18:13

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2620	250	2000		0 131	54	143			
Surr: 1,2-Dichloroethane-d4	55		50		110	70	130			
Surr: Toluene-d8	45.5		50		91	70	130			
Surr: 4-Bromofluorobenzene	49.3		50		99	70	130			

### Sample Matrix Spike Duplicate

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

File ID: 15040722.D

Batch ID: MS09W0407B

Analysis Date: 04/07/2015 18:37

Sample ID: 15040344-07AGSD

Units: µg/L

Run ID: MSD\_09\_150407A

Prep Date: 04/07/2015 18:37

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2240	250	2000		0 112	54	143	2623	15.9(23)	
Surr: 1,2-Dichloroethane-d4	51.5		50		103	70	130			
Surr: Toluene-d8	46.5		50		93	70	130			
Surr: 4-Bromofluorobenzene	49.1		50		98	70	130			

### Comments:

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

Reported in micrograms per Liter, per client request.



# Alpha Analytical, Inc.

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

Date:  
08-Apr-15

## QC Summary Report

Work Order:  
15040343

Method: Blank  
File ID: 15040708.D

Type: MBLK Test Code: EPA Method 624/8260  
Batch ID: MS09W0407A

Analysis Date: 04/07/2015 13:06

Sample ID: MBLK MS09W0407A

Units: µg/L

Run ID: MSD\_09\_150407A

Prep Date: 04/07/2015 13:06

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								
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	9.49		10		95	70	130			
Surr: 4-Bromofluorobenzene	9.94		10		99	70	130			

### Laboratory Control Spike

Type: LCS Test Code: EPA Method 624/8260

File ID: 15040706.D

Batch ID: MS09W0407A

Analysis Date: 04/07/2015 12:15

Sample ID: LCS MS09W0407A

Units: µg/L

Run ID: MSD\_09\_150407A

Prep Date: 04/07/2015 12:15

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	9.79	1	10		98	80	120			
Methyl tert-butyl ether (MTBE)	7.44	0.5	10		74	63	137			
Benzene	10.7	0.5	10		107	70	130			
Trichloroethene	10.6	1	10		106	68	138			
Toluene	11.2	0.5	10		112	80	120			
Chlorobenzene	10.5	1	10		105	70	130			
Ethylbenzene	11.1	0.5	10		111	80	120			
m,p-Xylene	10.1	0.5	10		101	65	139			
o-Xylene	10.1	0.5	10		101	70	130			
Surr: 1,2-Dichloroethane-d4	10.1		10		101	70	130			
Surr: Toluene-d8	9.14		10		91	70	130			
Surr: 4-Bromofluorobenzene	10		10		100	70	130			





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Date:  
08-Apr-15

## QC Summary Report

Work Order:  
15040343

### Sample Matrix Spike

File ID: 15040719.D

Type MS

Test Code: EPA Method 624/8260

Batch ID: MS09W0407A

Analysis Date: 04/07/2015 17:26

Sample ID: 15040344-07AMS

Units: µg/L

Run ID: MSD\_09\_150407A

Prep Date: 04/07/2015 17:26

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	48.9	2.5	50	0	98	62	133			
Methyl tert-butyl ether (MTBE)	46.6	1.3	50	0	93	56	140			
Benzene	58.2	1.3	50	0	116	67	134			
Trichloroethene	56.8	2.5	50	0	114	68	138			
Toluene	61.8	1.3	50	0	124	38	130			
Chlorobenzene	55.9	2.5	50	0	112	70	130			
Ethylbenzene	58.3	1.3	50	0	117	70	130			
m,p-Xylene	52.5	1.3	50	0	105	65	139			
o-Xylene	53.6	1.3	50	0	107	69	130			
Surr: 1,2-Dichloroethane-d4	59.7		50		119	70	130			
Surr: Toluene-d8	43.1		50		86	70	130			
Surr: 4-Bromofluorobenzene	46		50		92	70	130			

### Sample Matrix Spike Duplicate

File ID: 15040720.D

Type MSD

Test Code: EPA Method 624/8260

Batch ID: MS09W0407A

Analysis Date: 04/07/2015 17:50

Sample ID: 15040344-07AMSD

Units: µg/L

Run ID: MSD\_09\_150407A

Prep Date: 04/07/2015 17:50

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	50.1	2.5	50	0	100	62	133	48.86	2.6(35)	
Methyl tert-butyl ether (MTBE)	47.5	1.3	50	0	95	56	140	46.55	1.9(40)	
Benzene	57.7	1.3	50	0	115	67	134	58.19	0.8(21)	
Trichloroethene	56.5	2.5	50	0	113	68	138	56.79	0.6(20)	
Toluene	59.8	1.3	50	0	120	38	130	61.77	3.2(20)	
Chlorobenzene	56.3	2.5	50	0	113	70	130	55.93	0.6(20)	
Ethylbenzene	58.2	1.3	50	0	116	70	130	58.34	0.3(20)	
m,p-Xylene	52.6	1.3	50	0	105	65	139	52.49	0.1(20)	
o-Xylene	53.5	1.3	50	0	107	69	130	53.56	0.1(20)	
Surr: 1,2-Dichloroethane-d4	55.5		50		111	70	130			
Surr: Toluene-d8	44.3		50		89	70	130			
Surr: 4-Bromofluorobenzene	47.3		50		95	70	130			

### Comments:

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

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# CA

**WorkOrder : STR15040343**  
**Report Due By : 5:00 PM On : 10-Apr-15**

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

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

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

EDD Required : Yes

Sampled by : C. Hill

PO :  
Client's COC # : 16149 Job : Grimit Auto

<u>Cooler Temp</u>	<u>Samples Received</u>	<u>Date Printed</u>
2 °C	03-Apr-15	03-Apr-15

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests								Sample Remarks		
				TPH/P_W	VOC_W									
STR15040343-01A	Grim W INF	AQ 04/02/15 06:20	6 0 5	GAS-C	8260/OXYS/ NAPH_Cs									
STR15040343-02A	Grim W GAC1	AQ 04/02/15 06:15	6 0 5	GAS-C	8260/OXYS/ NAPH_Cs									

Comments: Security seals intact. Frozen ice. Chain split due to different TAT .:

Signature	Print Name	Company	Date/Time
	JESSICA ALVARADO	Alpha Analytical, Inc.	4/3/15 10:50

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

Company: Stratco's  
 Attn: Debra  
 Address: 3330 P. Avenue Pk Dr  
 City, State, Zip: Cameron PA  
 Phone Number: 5306766000 fax: 5306766000



**Alpha Analytical, Inc.**  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
**Satellite Service Centers:**  
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746  
 Northern NV: 1250 Lamolle Hwy., #310, Elko, NV 89801  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044  
 Fax: 775-355-0406  
 Phone: 916-366-9089  
 Phone: 714-366-2901  
 Phone: 775-388-7043  
 Phone: 702-281-4848

16149  
 Page # 1 of 1

Company: Stratco's  
 Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_

Job and Purchase Order Info:  
 Job # \_\_\_\_\_  
 Job Name: Grunt Auto  
 P.O. #: \_\_\_\_\_

Report Attention/Project Manager:  
 Name: SCD  
 Email Address: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Cell #: \_\_\_\_\_

QC Deliverable Info:  
 EDD Required? Yes / No \_\_\_\_\_ EDF Required? Yes / No \_\_\_\_\_  
 Global ID: 10600100667  
 Data Validation Packages: III or IV

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

Time Sampled (HHMM)	Date Sampled (MMDD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers* (See Key Below)	Field Filtered?		Analysis Requested						Remarks
							Yes	No	BRO	BTEX	MTBE	1,2 DCA	Mapthalene	VOC's *	
0620	4/5	AD	STR15040393-DIA	Grunt W INT	STD	6	X	X	X	X	X	X	X		
0615	4/5	AD	↓ -DIA	Grunt W GAL	STD	6	X	X	X	X	X	X	X		
0610	4/5	AD		Grunt W EFF	24	6	X	X	X	X	X	X	X		

ADDITIONAL INSTRUCTIONS:  
 \*Voc's including PCE, TCE, Vinyl chloride

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: Debra

Relinquished by: (Signature/Affiliation): <u>Debra</u>	Date:	Time:	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>4/3/15</u>	Time: <u>10:00</u>
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 WA - Waste OT - Other So-Soil \*\* L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other  
 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.

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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 : 04/03/15

Job: Grit Auto

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

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: Grim W EFF Lab ID: STR15040341-01A Date Sampled 04/02/15 06:10	TPH-P (GRO) ND	50 µg/L	04/03/15	04/03/15

Gasoline Range Organics (GRO) C4-C13

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 in any way.



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

*RS*  
4/3/15

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: Grit Auto

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

Alpha Analytical Number: STR15040341-01A  
Client I.D. Number: Grim W EFF

Sampled: 04/02/15 06:10  
Received: 04/03/15  
Extracted: 04/03/15  
Analyzed: 04/03/15

### 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 Tetrachloroethene	ND	1.0 µg/L
5 Trichlorofluoromethane	ND	1.0 µg/L	30 Chlorobenzene	ND	1.0 µg/L
6 1,1-Dichloroethene	ND	1.0 µg/L	31 Ethylbenzene	ND	0.50 µg/L
7 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	32 m,p-Xylene	ND	0.50 µg/L
8 Dichloromethane	ND	2.0 µg/L	33 Bromoform	ND	1.0 µg/L
9 trans-1,2-Dichloroethene	ND	1.0 µg/L	34 o-Xylene	ND	0.50 µg/L
10 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	35 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
11 1,1-Dichloroethane	ND	1.0 µg/L	36 1,3-Dichlorobenzene	ND	1.0 µg/L
12 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	37 1,4-Dichlorobenzene	ND	1.0 µg/L
13 cis-1,2-Dichloroethene	ND	1.0 µg/L	38 1,2-Dichlorobenzene	ND	1.0 µg/L
14 Chloroform	ND	1.0 µg/L	39 Naphthalene	ND	2.0 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			

ND = Not Detected



*Roger Scholl*

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.

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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.

*Randy Gardner*



*PS*  
4/3/15

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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## VOC Sample Preservation Report

Work Order: STR15040341

Job: Gritmit Auto

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15040341-01A	Grim W EFF	Aqueous	2

4/3/15  
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:  
07-Apr-15

## QC Summary Report

Work Order:  
15040341

**Method Blank**  
File ID: 15040304.D

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

Batch ID: MS15W0403B

Analysis Date: 04/03/2015 11:18

Sample ID: MBLK MS15W0403B

Units: µg/L

Run ID: MSD\_15\_150403B

Prep Date: 04/03/2015 11:18

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	9.32		10		93	70	130			
Surr: Toluene-d8	9.9		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.6		10		96	70	130			

**Laboratory Control Spike**

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

File ID: 15040303.D

Batch ID: MS15W0403B

Analysis Date: 04/03/2015 10:49

Sample ID: GLCS MS15W0403B

Units: µg/L

Run ID: MSD\_15\_150403B

Prep Date: 04/03/2015 10:49

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	382	50	400		96	70	130			
Surr: 1,2-Dichloroethane-d4	8.81		10		88	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	9.88		10		99	70	130			

**Sample Matrix Spike**

Type MS

Test Code: EPA Method SW8015B/C / SW8260B

File ID: 15040312.D

Batch ID: MS15W0403B

Analysis Date: 04/03/2015 14:33

Sample ID: 15040244-02AGS

Units: µg/L

Run ID: MSD\_15\_150403B

Prep Date: 04/03/2015 14:33

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2520	250	2000	0	126	54	143			
Surr: 1,2-Dichloroethane-d4	49.5		50		99	70	130			
Surr: Toluene-d8	48.2		50		96	70	130			
Surr: 4-Bromofluorobenzene	46.5		50		93	70	130			

**Sample Matrix Spike Duplicate**

Type MSD

Test Code: EPA Method SW8015B/C / SW8260B

File ID: 15040313.D

Batch ID: MS15W0403B

Analysis Date: 04/03/2015 14:57

Sample ID: 15040244-02AGSD

Units: µg/L

Run ID: MSD\_15\_150403B

Prep Date: 04/03/2015 14:57

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2470	250	2000	0	124	54	143	2522	2.0(23)	
Surr: 1,2-Dichloroethane-d4	51		50		102	70	130			
Surr: Toluene-d8	48.6		50		97	70	130			
Surr: 4-Bromofluorobenzene	46.5		50		93	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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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
07-Apr-15

## QC Summary Report

Work Order:  
15040341

### Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: 15040304.D

Batch ID: MS15W0403A

Analysis Date: 04/03/2015 11:18

Sample ID: MBLK MS15W0403A

Units: µg/L

Run ID: MSD\_15\_150403B

Prep Date: 04/03/2015 11:18

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								
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	9.32		10		93	70	130			
Surr: Toluene-d8	9.9		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.6		10		96	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: 15040302.D

Batch ID: MS15W0403A

Analysis Date: 04/03/2015 10:11

Sample ID: LCS MS15W0403A

Units: µg/L

Run ID: MSD\_15\_150403B

Prep Date: 04/03/2015 10:11

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	9.34	1	10		93	80	120			
Methyl tert-butyl ether (MTBE)	10.3	0.5	10		103	63	137			
Benzene	10	0.5	10		100	70	130			
Trichloroethene	9.92	1	10		99	68	138			
Toluene	9.5	0.5	10		95	80	120			
Chlorobenzene	9.5	1	10		95	70	130			
Ethylbenzene	9.72	0.5	10		97	80	120			
m,p-Xylene	9.92	0.5	10		99	65	139			
o-Xylene	10.2	0.5	10		102	70	130			
Surr: 1,2-Dichloroethane-d4	9.69		10		97	70	130			
Surr: Toluene-d8	9.71		10		97	70	130			
Surr: 4-Bromofluorobenzene	9.54		10		95	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:  
07-Apr-15

## QC Summary Report

Work Order:  
15040341

### Sample Matrix Spike

File ID: 15040310.D

Type MS

Test Code: EPA Method 624/8260

Batch ID: MS15W0403A

Analysis Date: 04/03/2015 13:44

Sample ID: 15040244-02AMS

Units : µg/L

Run ID: MSD\_15\_150403B

Prep Date: 04/03/2015 13:44

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	48.2	2.5	50	0	96	62	133			
Methyl tert-butyl ether (MTBE)	61.3	1.3	50	2.73	117	56	140			
Benzene	52.7	1.3	50	0	105	67	134			
Trichloroethene	51.1	2.5	50	0	102	68	138			
Toluene	51.5	1.3	50	0	103	38	130			
Chlorobenzene	50.4	2.5	50	0	101	70	130			
Ethylbenzene	51.1	1.3	50	0	102	70	130			
m,p-Xylene	54.4	1.3	50	0.66	107	65	139			
o-Xylene	55.3	1.3	50	0.61	109	69	130			
Surr: 1,2-Dichloroethane-d4	49.9		50		99.8	70	130			
Surr: Toluene-d8	48.4		50		97	70	130			
Surr: 4-Bromofluorobenzene	46.9		50		94	70	130			

### Sample Matrix Spike Duplicate

File ID: 15040311.D

Type MSD

Test Code: EPA Method 624/8260

Batch ID: MS15W0403A

Analysis Date: 04/03/2015 14:09

Sample ID: 15040244-02AMSD

Units : µg/L

Run ID: MSD\_15\_150403B

Prep Date: 04/03/2015 14:09

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	48.3	2.5	50	0	97	62	133	48.18	0.3(35)	
Methyl tert-butyl ether (MTBE)	58.7	1.3	50	2.73	112	56	140	61.28	4.3(40)	
Benzene	52	1.3	50	0	104	67	134	52.66	1.2(21)	
Trichloroethene	50.3	2.5	50	0	101	68	138	51.06	1.5(20)	
Toluene	49.7	1.3	50	0	99	38	130	51.49	3.6(20)	
Chlorobenzene	50.4	2.5	50	0	101	70	130	50.43	0.1(20)	
Ethylbenzene	50.2	1.3	50	0	100	70	130	51.08	1.8(20)	
m,p-Xylene	52.2	1.3	50	0.66	103	65	139	54.35	4.0(20)	
o-Xylene	53.6	1.3	50	0.61	106	69	130	55.26	3.1(20)	
Surr: 1,2-Dichloroethane-d4	49.3		50		99	70	130			
Surr: Toluene-d8	48.8		50		98	70	130			
Surr: 4-Bromofluorobenzene	46.1		50		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.

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# RUSH! CA

## Alpha Analytical, Inc.

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

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

WorkOrder : STR15040341

Report Due By : 5:00 PM On : 03-Apr-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 # : 16149

Job : Grit Auto

Cooler Temp

Samples Received

Date Printed

2 °C

03-Apr-15

03-Apr-15

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha	No. of Bottles Sub	TAT	Requested Tests						Sample Remarks		
						TPHP_W	VOC_W							
STR15040341-01A	Grim W EFF	AQ	04/02/15 06:10	6	0	0	GAS-C	8260/OXYS/ NAPH_Ca						

Comments: ASAP TAT. Security seals intact. Frozen ice. Chain split due to different TAT. :

Signature	Print Name	Company	Date/Time
	JESSICA ALVARADO	Alpha Analytical, Inc.	4/3/15 1050

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: Strike's  
 Attn: Debra  
 Address: 3337 Cameron Pk Dr  
 City, State, Zip: Cameron Pk  
 Phone Number: 5306766444 Fax: 5306766000



Alpha Analytical, Inc.  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
 Satellite Service Centers:  
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746  
 Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044  
 Fax: 775-355-0406  
 Phone: 916-366-9089  
 Phone: 714-386-2901  
 Phone: 775-388-7043  
 Phone: 702-281-4848

16149

Page # 1 of 1

Company: Strike's  
 Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_

Job and Purchase Order Info:  
 Job #: \_\_\_\_\_  
 Job Name: Garage Auto  
 P.O. #: \_\_\_\_\_

Report Attention/Project Manager:  
 Name: SLP  
 Email Address: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Cell #: \_\_\_\_\_

QC Deliverable Info:  
 EDD Required? Yes / No  
 EDF Required? Yes / No  
 Global ID: J06001001667  
 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?		Analysis Requested							Remarks
							Yes	No	GRD	BTEX	MTBE	1,2 DCA	Mapthalene	VOC's *		
0620	4/5	AQ		Garage W INT	STD	6	X		X	X	X	X	X	X		
0615	1	1		Garage W GAL	STD	6	X		X	X	X	X	X	X		
0610	4/5	AQ		Garage W EFF	24	6	X		X	X	X	X	X	X		

ADDITIONAL INSTRUCTIONS:  
 \* VOC's including PCE, TCE, Vinyl chloride

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: <u>Chen</u>	Date:	Time:	Received by: <u>[Signature]</u>	Date: <u>4/3/15</u>	Time: <u>950</u>
Relinquished by: <u>[Signature]</u>	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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

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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 : 05/06/15

Job: Grit Auto

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

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID : Grim W INF Lab ID : STR15050652-01A Date Sampled 05/05/15 09:20	TPH-P (GRO) ND	50 µg/L	05/11/15	05/11/15
Client ID : Grim W GAC1 Lab ID : STR15050652-02A Date Sampled 05/05/15 09:15	TPH-P (GRO) ND	50 µg/L	05/08/15	05/08/15

Gasoline Range Organics (GRO) C4-C13

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 in any way.

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



*PS*  
5/13/15

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: Gritm Auto

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

Alpha Analytical Number: STR15050652-01A  
Client I.D. Number: Grim W INF

Sampled: 05/05/15 09:20  
Received: 05/06/15  
Extracted: 05/11/15  
Analyzed: 05/11/15

### Volatiles 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	1.1	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.

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*PS*

5/13/15

Report Date

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# Alpha Analytical, Inc.

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

## ANALYTICAL REPORT

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

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

Alpha Analytical Number: STR15050652-02A  
Client I.D. Number: Grim W GAC1

Sampled: 05/05/15 09:15  
Received: 05/06/15  
Extracted: 05/08/15  
Analyzed: 05/08/15

### 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

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*PS*  
5/13/15

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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

---

## VOC Sample Preservation Report

---

Work Order: STR15050652

Job: Grit Auto

---

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15050652-01A	Grim W INF	Aqueous	2
15050652-02A	Grim W GAC1	Aqueous	2

---

5/13/15

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-May-15

## QC Summary Report

Work Order:  
15050652

### Method Blank

File ID: 15050806.D

Type MBLK

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15W0508B

Analysis Date: 05/08/2015 12:17

Sample ID: MBLK MS15W0508B

Units: µg/L

Run ID: MSD\_15\_150508A

Prep Date: 05/08/2015 12:17

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	8.51		10		85	70	130			
Surr: Toluene-d8	10.7		10		107	70	130			
Surr: 4-Bromofluorobenzene	9.46		10		95	70	130			

### Laboratory Control Spike

File ID: 15050804.D

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15W0508B

Analysis Date: 05/08/2015 11:20

Sample ID: GLCS MS15W0508B

Units: µg/L

Run ID: MSD\_15\_150508A

Prep Date: 05/08/2015 11:20

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	350	50	400		87	70	130			
Surr: 1,2-Dichloroethane-d4	8.11		10		81	70	130			
Surr: Toluene-d8	10.7		10		107	70	130			
Surr: 4-Bromofluorobenzene	9.72		10		97	70	130			

### Sample Matrix Spike

File ID: 15050829.D

Type MS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15W0508B

Analysis Date: 05/08/2015 21:39

Sample ID: 15050652-02AGS

Units: µg/L

Run ID: MSD\_15\_150508A

Prep Date: 05/08/2015 21:39

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1580	250	2000		0	79	54	143		
Surr: 1,2-Dichloroethane-d4	39.4		50		79	70	130			
Surr: Toluene-d8	54.8		50		110	70	130			
Surr: 4-Bromofluorobenzene	50.4		50		101	70	130			

### Sample Matrix Spike Duplicate

File ID: 15051110.D

Type MSD

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15W0508B

Analysis Date: 05/11/2015 14:57

Sample ID: 15050652-02AGSD

Units: µg/L

Run ID: MSD\_15\_150508A

Prep Date: 05/11/2015 14:57

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2260	250	2000		0	113	54	143	1583	35.4(23) R5
Surr: 1,2-Dichloroethane-d4	42.3		50		85	70	130			
Surr: Toluene-d8	54		50		108	70	130			
Surr: 4-Bromofluorobenzene	47.8		50		96	70	130			

### Comments:

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

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.

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-May-15

## QC Summary Report

Work Order:  
15050652

### Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: 15050806.D

Batch ID: MS15W0508A

Analysis Date: 05/08/2015 12:17

Sample ID: MBLK MS15W0508A

Units: µg/L

Run ID: MSD\_15\_150508A

Prep Date: 05/08/2015 12:17

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	8.51		10		85	70	130			
Surr: Toluene-d8	10.7		10		107	70	130			
Surr: 4-Bromofluorobenzene	9.46		10		95	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: 15050803.D

Batch ID: MS15W0508A

Analysis Date: 05/08/2015 10:51

Sample ID: LCS MS15W0508A

Units: µg/L

Run ID: MSD\_15\_150508A

Prep Date: 05/08/2015 10:51

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	9.11	1	10		91	80	120			
Methyl tert-butyl ether (MTBE)	8.94	0.5	10		89	63	137			
Benzene	9.76	0.5	10		98	70	130			
Trichloroethene	9.57	1	10		96	68	138			
Toluene	10.5	0.5	10		105	80	120			
Chlorobenzene	10.4	1	10		104	70	130			
Ethylbenzene	10.3	0.5	10		103	80	120			
m,p-Xylene	10.7	0.5	10		107	65	139			
o-Xylene	11	0.5	10		110	70	130			
Surr: 1,2-Dichloroethane-d4	8		10		80	70	130			
Surr: Toluene-d8	10.6		10		106	70	130			
Surr: 4-Bromofluorobenzene	9.89		10		99	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-May-15

## QC Summary Report

Work Order:  
15050652

### Sample Matrix Spike

File ID: 15050827.D

Type MS

Test Code: EPA Method 624/8260

Batch ID: MS15W0508A

Analysis Date: 05/08/2015 20:50

Sample ID: 15050652-02AMS

Units: µg/L

Run ID: MSD\_15\_150508A

Prep Date: 05/08/2015 20:50

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	45.3	2.5	50	0	91	62	133			
Methyl tert-butyl ether (MTBE)	51.4	1.3	50	0	103	56	140			
Benzene	51.9	1.3	50	0	104	67	134			
Trichloroethene	47.5	2.5	50	0	95	68	138			
Toluene	54	1.3	50	0	108	38	130			
Chlorobenzene	52.5	2.5	50	0	105	70	130			
Ethylbenzene	50	1.3	50	0	100	70	130			
m,p-Xylene	53.2	1.3	50	0	106	65	139			
o-Xylene	55.2	1.3	50	0	110	69	130			
Surr: 1,2-Dichloroethane-d4	38.6		50		77	70	130			
Surr: Toluene-d8	53.7		50		107	70	130			
Surr: 4-Bromofluorobenzene	51.7		50		103	70	130			

### Sample Matrix Spike Duplicate

File ID: 15050828.D

Type MSD

Test Code: EPA Method 624/8260

Batch ID: MS15W0508A

Analysis Date: 05/08/2015 21:15

Sample ID: 15050652-02AMSD

Units: µg/L

Run ID: MSD\_15\_150508A

Prep Date: 05/08/2015 21:15

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	45.5	2.5	50	0	91	62	133	45.25	0.6(35)	
Methyl tert-butyl ether (MTBE)	52.3	1.3	50	0	105	56	140	51.41	1.7(40)	
Benzene	52.2	1.3	50	0	104	67	134	51.91	0.6(21)	
Trichloroethene	48.4	2.5	50	0	97	68	138	47.48	1.8(20)	
Toluene	55	1.3	50	0	110	38	130	54	1.9(20)	
Chlorobenzene	54.7	2.5	50	0	109	70	130	52.53	4.0(20)	
Ethylbenzene	51.1	1.3	50	0	102	70	130	50.04	2.2(20)	
m,p-Xylene	54	1.3	50	0	108	65	139	53.2	1.5(20)	
o-Xylene	56.8	1.3	50	0	114	69	130	55.17	2.9(20)	
Surr: 1,2-Dichloroethane-d4	39.3		50		79	70	130			
Surr: Toluene-d8	53		50		106	70	130			
Surr: 4-Bromofluorobenzene	49.6		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.

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 : STR15050652**  
**Report Due By : 5:00 PM On : 13-May-15**

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

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

EDD Required : Yes

Sampled by : C. Hill

**PO :**  
 Client's COC # : 12207 Job : Grimit Auto

Cooler Temp	Samples Received	Date Printed
4 °C	06-May-15	06-May-15

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests							Sample Remarks	
				TPH/P_W	VOC_W							
STR15050652-01A	Grim W INF	AQ 05/05/15 09:20	8 0 5	GAS-C	8260/Oxys_C							
STR15050652-02A	Grim W GAC1	AQ 05/05/15 09:15	8 0 5	GAS-C	8260/Oxys_C							

Comments: Security seals intact. Frozen ice. Chain split due to different TAT's. :

Signature	Print Name	Company	Date/Time
	JESSICA ALVARADO	Alpha Analytical, Inc.	5/6/15 1235

Logged in by: \_\_\_\_\_

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

Company: Stark's  
 Attn: Debbie  
 Address: 3330 Canyon Pl  
 City, State, Zip: Canyon Pl  
 Phone Number: 505-266-1004 Fax: \_\_\_\_\_



Alpha Analytical, Inc.  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
 Satellite Service Centers:  
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746

Phone: 775-355-1044  
 Fax: 775-355-0406  
 Phone: 916-368-9089  
 Phone: 702-281-4848  
 Phone: 714-388-2901

12207

Page # 1 of 1

Company: Stark's Job # \_\_\_\_\_ Report Attention/Project Manager: SLOTT QC Deliverable Info:  
 Address: \_\_\_\_\_ Job Name: Grunt Auto Name: \_\_\_\_\_ EDD Required? Yes / No EDF Required? Yes / No  
 City, State, Zip: \_\_\_\_\_ P.O. #: \_\_\_\_\_ Email Address: \_\_\_\_\_ Phone #: \_\_\_\_\_ Global ID: \_\_\_\_\_  
 Data Validation Level: \_\_\_\_\_

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

Time Sampled (HHMM)	Date Sampled (MMDD)	Metric (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Filtrated?	Containers** (See Key Below)	Analysis Requested							Remarks
								CRD	BTEX	MTBE	1,2 DCA	Naphthalene	VOC's English	PEE, TCE	
0920	5/15	AR	SIK1000520	Grunt w JWF	STD	N	8	X	X	X	X	X	X	X	
0915	5/15	AR	↓	Grunt w GAEI	STD	N	8	X	X	X	X	X	X	X	
0910	5/15	AR		Grunt w EFF	24	24	N	8	X	X	X	X	X	X	

ADDITIONAL INSTRUCTIONS: 24 HR TAT ON EFF

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 448.0638 (c) (2).

Sampled By: A. Hill  
 Relinquished by: (Signature/Affiliation) Debbie Stark Date: 5/15 Time: 1345  
 Received by: (Signature/Affiliation) Meussa T Date: 5-5-15 Time: 1345  
 Relinquished by: (Signature/Affiliation) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: (Signature/Affiliation) file. Date: 5/15/15 Time: 1000

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

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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 : 05/06/15

Job: Grimit Auto

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

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID : Grim W EFF				
Lab ID : STR15050643-01A TPH-P (GRO)	ND	50 µg/L	05/06/15	05/06/15
Date Sampled 05/05/15 09:10				

Gasoline Range Organics (GRO) C4-C13

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 in any way.



*PS*

5/6/15

Report Date

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.



# 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  
Job: Grit Auto

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

Alpha Analytical Number: STR15050643-01A  
Client I.D. Number: Grim W EFF

Sampled: 05/05/15 09:10  
Received: 05/06/15  
Extracted: 05/06/15  
Analyzed: 05/06/15

### 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			

This replaces the report signed 5/6/15 due to a change in the analyte list, due to lab error.

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 in any way.

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



*VPB*

5/19/15

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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---

## VOC Sample Preservation Report

---

Work Order: STR15050643

Job: Gimit Auto

---

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15050643-01A	Grim W EFF	Aqueous	2

---

5/6/15  
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:  
11-May-15

## QC Summary Report

Work Order:  
15050643

### Method Blank

File ID: 15050605.D

Type MBLK

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15W0506B

Analysis Date: 05/06/2015 11:43

Sample ID: MBLK MS15W0506B

Units: µg/L

Run ID: MSD\_15\_150506A

Prep Date: 05/06/2015 11:43

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

ND

50

Surr: 1,2-Dichloroethane-d4

9.42

10

94

70

130

Surr: Toluene-d8

9.51

10

95

70

130

Surr: 4-Bromofluorobenzene

9.53

10

95

70

130

### Laboratory Control Spike

File ID: 15050603.D

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15W0506B

Analysis Date: 05/06/2015 10:44

Sample ID: GLCS MS15W0506B

Units: µg/L

Run ID: MSD\_15\_150506A

Prep Date: 05/06/2015 10:44

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

443

50

400

111

70

130

Surr: 1,2-Dichloroethane-d4

10.2

10

102

70

130

Surr: Toluene-d8

9.19

10

92

70

130

Surr: 4-Bromofluorobenzene

9.89

10

99

70

130

### Sample Matrix Spike

File ID: 15050720.D

Type MS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15W0506B

Analysis Date: 05/07/2015 18:15

Sample ID: 15050642-01AGS

Units: µg/L

Run ID: MSD\_15\_150506A

Prep Date: 05/07/2015 18:15

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

2240

250

2000

0

112

54

143

Surr: 1,2-Dichloroethane-d4

41.7

50

83

70

130

Surr: Toluene-d8

46.5

50

93

70

130

Surr: 4-Bromofluorobenzene

47.4

50

95

70

130

### Sample Matrix Spike Duplicate

File ID: 15050721.D

Type MSD

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15W0506B

Analysis Date: 05/07/2015 18:39

Sample ID: 15050642-01AGSD

Units: µg/L

Run ID: MSD\_15\_150506A

Prep Date: 05/07/2015 18:39

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

2120

250

2000

0

106

54

143

2237

5.5(23)

Surr: 1,2-Dichloroethane-d4

42.5

50

85

70

130

Surr: Toluene-d8

47

50

94

70

130

Surr: 4-Bromofluorobenzene

46.2

50

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.

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:  
19-May-15

## QC Summary Report

Work Order:  
15050643

### Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: 15050605.D

Batch ID: MS15W0506A

Analysis Date: 05/06/2015 11:43

Sample ID: MBLK MS15W0506A

Units: µg/L

Run ID: MSD\_15\_150506A

Prep Date: 05/06/2015 11:43

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	9.42		10		94	70	130			
Surr: Toluene-d8	9.51		10		95	70	130			
Surr: 4-Bromofluorobenzene	9.53		10		95	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: 15050602.D

Batch ID: MS15W0506A

Analysis Date: 05/06/2015 10:18

Sample ID: LCS MS15W0506A

Units: µg/L

Run ID: MSD\_15\_150506A

Prep Date: 05/06/2015 10:18

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	9.85	1	10		99	80	120			
Methyl tert-butyl ether (MTBE)	10.7	0.5	10		107	63	137			
Benzene	10.3	0.5	10		103	70	130			
Trichloroethene	10.3	1	10		103	68	138			
Toluene	8.82	0.5	10		88	80	120			
Chlorobenzene	8.9	1	10		89	70	130			
Ethylbenzene	8.91	0.5	10		89	80	120			
m,p-Xylene	9.12	0.5	10		91	65	139			
o-Xylene	9.43	0.5	10		94	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10		96	70	130			
Surr: Toluene-d8	9.32		10		93	70	130			
Surr: 4-Bromofluorobenzene	9.53		10		95	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:  
19-May-15

## QC Summary Report

Work Order:  
15050643

### Sample Matrix Spike

File ID: 15050628.D

Type MS

Test Code: EPA Method 624/8260

Sample ID: 15050642-01AMS

Units: µg/L

Run ID: MSD\_15\_150506A

Batch ID: MS15W0506A

Analysis Date: 05/06/2015 21:06

Prep Date: 05/06/2015 21:06

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	49.8	2.5	50	0	100	62	133			
Methyl tert-butyl ether (MTBE)	63.7	1.3	50	0	127	56	140			
Benzene	54.7	1.3	50	0	109	67	134			
Trichloroethene	52.1	2.5	50	0	104	68	138			
Toluene	45.1	1.3	50	0	90	38	130			
Chlorobenzene	47.5	2.5	50	0	95	70	130			
Ethylbenzene	44	1.3	50	0	88	70	130			
m,p-Xylene	46.6	1.3	50	0	93	65	139			
o-Xylene	48.4	1.3	50	0	97	69	130			
Surr: 1,2-Dichloroethane-d4	46.1		50		92	70	130			
Surr: Toluene-d8	45.1		50		90	70	130			
Surr: 4-Bromofluorobenzene	45.5		50		91	70	130			

### Sample Matrix Spike Duplicate

File ID: 15050719.D

Type MSD

Test Code: EPA Method 624/8260

Sample ID: 15050642-01AMSD

Units: µg/L

Run ID: MSD\_15\_150506A

Batch ID: MS15W0506A

Analysis Date: 05/07/2015 17:50

Prep Date: 05/07/2015 17:50

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	56.2	2.5	50	0	112	62	133	49.75	12.2(35)	
Methyl tert-butyl ether (MTBE)	68.8	1.3	50	0	138	56	140	63.7	7.6(40)	
Benzene	65.1	1.3	50	0	130	67	134	54.65	17.5(21)	
Trichloroethene	60.3	2.5	50	0	121	68	138	52.14	14.5(20)	
Toluene	51.2	1.3	50	0	102	38	130	45.07	12.7(20)	
Chlorobenzene	51.6	2.5	50	0	103	70	130	47.45	8.4(20)	
Ethylbenzene	47.9	1.3	50	0	96	70	130	44.03	8.4(20)	
m,p-Xylene	50.7	1.3	50	0	101	65	139	46.58	8.4(20)	
o-Xylene	53.6	1.3	50	0	107	69	130	48.41	10.1(20)	
Surr: 1,2-Dichloroethane-d4	40.7		50		81	70	130			
Surr: Toluene-d8	45.6		50		91	70	130			
Surr: 4-Bromofluorobenzene	46.8		50		94	70	130			

### Comments:

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

AMENDED

RUSH! Page: 1 of 1

CA

WorkOrder : STR15050643

Report Due By : 5:00 PM On : 06-May-15

Billing Information :

CHAIN-OF-CUSTODY RECORD

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

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

Table with 3 columns: Report Attention, Phone Number, EMail Address. Row 1: Scott Bittinger, (530) 676-2062 x, sbittinger@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

Table with 3 columns: Cooler Temp, Samples Received, Date Printed. Row 1: 4 °C, 06-May-15, 19-May-15

PO :
Client's COC # : 12207 Job : Grit Auto

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

Main data table with columns: Alpha Sample ID, Client Sample ID, Collection Matrix, No. of Bottles (Alpha, Sub, TAT), Requested Tests (TPH/P\_W, VOC\_W, GAS-C, 8260/Oxyg\_C), Sample Remarks. Row 1: STR15050643-01A, Grim W EFF, AQ, 05/05/15 09:10, 8, 0, 0, GAS-C, 8260/Oxyg\_C

Comments: ASAP TAT. Security seals intact. Frozen ice. Chain split due to different TAT's. Amended on 5/19/15 to add Naphthalene due to login error. JA :

Signature and Name fields. Logged in by: [Signature] JESSICA ALVARADO. Company: Alpha Analytical, Inc. Date/Time: 5/19/15 7:50

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

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# RUSH! CA

## Alpha Analytical, Inc.

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

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

WorkOrder : STR15050643

Report Due By : 5:00 PM On : 06-May-15

Client:

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

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

EDD Required : Yes

Sampled by : C. Hill

PO :

Client's COC # : 12207

Job : Grit Auto

Cooler Temp

Samples Received

Date Printed

4 °C

06-May-15

06-May-15

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles			Requested Tests						Sample Remarks			
				Alpha	Sub	TAT	TPHP_W	VOC_W								
STR15050643-01A	Grim W EFF	AQ	05/05/15 09:10	8	0	0	GAS-C	8260/OXYS Ca								

Comments:

ASAP TAT. Security seals intact. Frozen ice. Chain split due to different TAT's.

Logged in by:	Signature	Print Name	Company	Date/Time
		JESSICA ALVARADO.	Alpha Analytical, Inc.	5/4/15 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: Stark  
 Attn: Robert  
 Address: 3337 Camino Pl  
 City, State, Zip: Carson CA  
 Phone Number: 562-761-1111 Fax:



Alpha Analytical, Inc.  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
 Satellite Service Centers:  
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746

Phone: 775-355-1044  
 Fax: 775-355-0406  
 Phone: 916-366-6089  
 Phone: 702-261-4848  
 Phone: 714-366-2901

12207

Page # 1 of 1

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

Job and Purchase Order Info:  
 Job #: 3337  
 Job Name: Garrett Ave  
 P.O. #:

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

QC Deliverable Info:  
 EDD Required? Yes / No:        EDF Required? Yes / No:         
 Global ID:         
 Data Validation Level:        or       

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

Time Sampled (M/D/Y)	Date Sampled (M/D/Y)	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Lab Filtered?	# Containers** (See Key Below)	Analysis Requested										Remarks
								CRD	BAX	MTBE	1,2 DCA	Naphthalene	VOCS Includy	PEE, TCE	Volatile			
0920	5/15	HR		Gravel ✓ JWF	STD	N	8	X	X	X	X	X	X	X	X			
0915	5/15	HR		Gravel ✓ GHL	STD	N	8	X	X	X	X	X	X	X	X			
0910	5/15	HR	SR1500043-1	Gravel ✓ EFF	24	24	N	8	X	X	X	X	X	X	X			

ADDITIONAL INSTRUCTIONS:  
24 HR TAT ON EFF

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 446.0034 (c) (2).

Sampled by: <u>CHILL</u>	Date: <u>5/15</u>	Time: <u>1345</u>	Received by: (Signature/Affiliation): <u>Meysa T.</u>	Date: <u>5-15</u>	Time: <u>1345</u>
Requisitioned by: (Signature/Affiliation): <u>Robert Stark</u>	Date:	Time:	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>5/16/15</u>	Time: <u>1000</u>
Requisitioned by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date:	Time:

\* Key: AQ - Aqueous WA - Waste OT - Other \*\* L - Liter V - VOA S - Soil Jar O - Orbis T - Tedlar B - Brass P - Plastic OT - Other  
 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 CDC. 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 : 06/03/15

Job: Grit 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: STR15060303-01A Date Sampled 06/02/15 06:40	TPH-P (GRO) 160	20 mg/m <sup>3</sup>	06/03/15 16:15	06/08/15
Client ID: Grim W INF Lab ID: STR15060303-02A Date Sampled 06/02/15 06:35	TPH-P (GRO) ND	50 µg/L	06/05/15	06/05/15
Client ID: Grim W GAC1 Lab ID: STR15060303-03A Date Sampled 06/02/15 06:30	TPH-P (GRO) ND	50 µg/L	06/05/15	06/05/15

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

Note: For sample -01A concentrations of air in a Tedlar Bag are at 30 degrees Celsius and 29.90 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 in any way.



*PS*  
6/10/15

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.

**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: Grit Auto

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

Alpha Analytical Number: STR15060303-01A  
Client I.D. Number: Grim A Sys INF

Sampled: 06/02/15 06:40  
Received: 06/03/15  
Extracted: 06/03/15 16:15  
Analyzed: 06/08/15

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

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Chloromethane	ND	0.80 mg/m <sup>3</sup>	26 1,1,2-Trichloroethane	ND	0.40 mg/m <sup>3</sup>
2 Vinyl chloride	ND	0.40 mg/m <sup>3</sup>	27 Toluene	0.25	0.20 mg/m <sup>3</sup>
3 Chloroethane	ND	0.40 mg/m <sup>3</sup>	28 Dibromochloromethane	ND	0.40 mg/m <sup>3</sup>
4 Bromomethane	ND	0.80 mg/m <sup>3</sup>	29 Tetrachloroethene	ND	0.40 mg/m <sup>3</sup>
5 Trichlorofluoromethane	ND	0.40 mg/m <sup>3</sup>	30 Chlorobenzene	ND	0.40 mg/m <sup>3</sup>
6 1,1-Dichloroethene	ND	0.40 mg/m <sup>3</sup>	31 Ethylbenzene	0.36	0.20 mg/m <sup>3</sup>
7 Tertiary Butyl Alcohol (TBA)	ND	10 mg/m <sup>3</sup>	32 m,p-Xylene	0.93	0.20 mg/m <sup>3</sup>
8 Dichloromethane	ND	0.80 mg/m <sup>3</sup>	33 Bromoform	ND	0.40 mg/m <sup>3</sup>
9 trans-1,2-Dichloroethene	ND	0.40 mg/m <sup>3</sup>	34 o-Xylene	ND	0.20 mg/m <sup>3</sup>
10 Methyl tert-butyl ether (MTBE)	ND	0.20 mg/m <sup>3</sup>	35 1,1,2,2-Tetrachloroethane	ND	0.40 mg/m <sup>3</sup>
11 1,1-Dichloroethane	ND	0.40 mg/m <sup>3</sup>	36 1,3-Dichlorobenzene	ND	0.40 mg/m <sup>3</sup>
12 Di-Isopropyl Ether (DIPE)	ND	0.40 mg/m <sup>3</sup>	37 1,4-Dichlorobenzene	ND	0.40 mg/m <sup>3</sup>
13 cis-1,2-Dichloroethene	ND	0.40 mg/m <sup>3</sup>	38 1,2-Dichlorobenzene	ND	0.40 mg/m <sup>3</sup>
14 Chloroform	ND	0.40 mg/m <sup>3</sup>			
15 Ethyl Tertiary Butyl Ether (ETBE)	ND	0.40 mg/m <sup>3</sup>			
16 1,2-Dichloroethane	ND	0.40 mg/m <sup>3</sup>			
17 1,1,1-Trichloroethane	ND	0.40 mg/m <sup>3</sup>			
18 Carbon tetrachloride	ND	0.40 mg/m <sup>3</sup>			
19 Benzene	ND	0.20 mg/m <sup>3</sup>			
20 Tertiary Amyl Methyl Ether (TAME)	ND	0.40 mg/m <sup>3</sup>			
21 1,2-Dichloropropane	ND	0.40 mg/m <sup>3</sup>			
22 Trichloroethene	ND	0.40 mg/m <sup>3</sup>			
23 Bromodichloromethane	ND	0.40 mg/m <sup>3</sup>			
24 cis-1,3-Dichloropropene	ND	0.40 mg/m <sup>3</sup>			
25 trans-1,3-Dichloropropene	ND	0.40 mg/m <sup>3</sup>			

Note: Concentrations of air in a Tedlar Bag are at 30 degrees Celsius and 29.90 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

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

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

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



*PS*

6/10/15

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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

## ANALYTICAL REPORT

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

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

Alpha Analytical Number: STR15060303-02A  
Client I.D. Number: Grim WINF

Sampled: 06/02/15 06:35  
Received: 06/03/15  
Extracted: 06/05/15  
Analyzed: 06/05/15

### 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 Tetrachloroethene	ND	1.0 µg/L
5 Trichlorofluoromethane	ND	1.0 µg/L	30 Chlorobenzene	ND	1.0 µg/L
6 1,1-Dichloroethene	ND	1.0 µg/L	31 Ethylbenzene	ND	0.50 µg/L
7 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	32 m,p-Xylene	2.1	0.50 µg/L
8 Dichloromethane	ND	2.0 µg/L	33 Bromoform	ND	1.0 µg/L
9 trans-1,2-Dichloroethene	ND	1.0 µg/L	34 o-Xylene	0.50	0.50 µg/L
10 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	35 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
11 1,1-Dichloroethane	ND	1.0 µg/L	36 1,3-Dichlorobenzene	ND	1.0 µg/L
12 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	37 1,4-Dichlorobenzene	ND	1.0 µg/L
13 cis-1,2-Dichloroethene	ND	1.0 µg/L	38 1,2-Dichlorobenzene	ND	1.0 µg/L
14 Chloroform	ND	1.0 µg/L	39 Naphthalene	ND	2.0 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			

This replaces the report signed 6/10/15 due to a change in the analyte list, due to lab error.

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 in any way.

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



*[Signature]*  
7/2/15

Report Date

Page 1 of 1





# Alpha Analytical, Inc.

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

## ANALYTICAL REPORT

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

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

Alpha Analytical Number: STR15060303-03A  
Client I.D. Number: Grim W GAC1

Sampled: 06/02/15 06:30  
Received: 06/03/15  
Extracted: 06/05/15  
Analyzed: 06/05/15

### 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 Tetrachloroethene	ND	1.0 µg/L
5 Trichlorofluoromethane	ND	1.0 µg/L	30 Chlorobenzene	ND	1.0 µg/L
6 1,1-Dichloroethene	ND	1.0 µg/L	31 Ethylbenzene	ND	0.50 µg/L
7 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	32 m,p-Xylene	ND	0.50 µg/L
8 Dichloromethane	ND	2.0 µg/L	33 Bromoform	ND	1.0 µg/L
9 trans-1,2-Dichloroethene	ND	1.0 µg/L	34 o-Xylene	ND	0.50 µg/L
10 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	35 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
11 1,1-Dichloroethane	ND	1.0 µg/L	36 1,3-Dichlorobenzene	ND	1.0 µg/L
12 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	37 1,4-Dichlorobenzene	ND	1.0 µg/L
13 cis-1,2-Dichloroethene	ND	1.0 µg/L	38 1,2-Dichlorobenzene	ND	1.0 µg/L
14 Chloroform	ND	1.0 µg/L	39 Naphthalene	ND	2.0 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			

This replaces the report signed 6/10/15 due to a change in the analyte list, due to lab error.

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 in any way.

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



*PS*  
7/2/15

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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

## VOC Sample Preservation Report

Work Order: STR15060303

Job: Gritmit Auto

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15060303-02A	Grim W INF	Aqueous	2
15060303-03A	Grim W GAC1	Aqueous	2

6/10/15

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:  
10-Jun-15

## QC Summary Report

Work Order:  
15060303

### Method Blank

File ID: 15060821.D

Type MBLK

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09A0608B

Analysis Date: 06/08/2015 19:26

Sample ID: MBLK MS09A0608B

Units : mg/m<sup>3</sup>

Run ID: MSD\_09\_150608A

Prep Date: 06/08/2015 19:26

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

ND

10

Surr: 1,2-Dichloroethane-d4

1.7

2

85

70

130

Surr: Toluene-d8

2.02

2

101

70

130

Surr: 4-Bromofluorobenzene

1.85

2

93

70

130

### Laboratory Control Spike

File ID: 15060803.D

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09A0608B

Analysis Date: 06/08/2015 12:18

Sample ID: GLCS MS09A0608B

Units : mg/m<sup>3</sup>

Run ID: MSD\_09\_150608A

Prep Date: 06/08/2015 12:18

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

363

10

400

91

70

130

Surr: 1,2-Dichloroethane-d4

8.92

10

89

70

130

Surr: Toluene-d8

10

10

100

70

130

Surr: 4-Bromofluorobenzene

9.26

10

93

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:  
10-Jun-15

## QC Summary Report

Work Order:  
15060303

### Method Blank

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

File ID: C:\HPCHEM\MS10\DATA\150605\15060504.D

Batch ID: MS10W0605B

Analysis Date: 06/05/2015 13:10

Sample ID: MBLK MS10W0605B

Units: µg/L

Run ID: MSD\_10\_150605A

Prep Date: 06/05/2015 13:10

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	11.6		10		116	70	130			
Surr: Toluene-d8	9.12		10		91	70	130			
Surr: 4-Bromofluorobenzene	9.28		10		93	70	130			

### Laboratory Control Spike

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

File ID: C:\HPCHEM\MS10\DATA\150605\15060503.D

Batch ID: MS10W0605B

Analysis Date: 06/05/2015 12:47

Sample ID: GLCS MS10W0605B

Units: µg/L

Run ID: MSD\_10\_150605A

Prep Date: 06/05/2015 12:47

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	429	50	400		107	70	130			
Surr: 1,2-Dichloroethane-d4	11.7		10		117	70	130			
Surr: Toluene-d8	8.9		10		89	70	130			
Surr: 4-Bromofluorobenzene	9.57		10		96	70	130			

### Sample Matrix Spike

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

File ID: C:\HPCHEM\MS10\DATA\150605\15060517.D

Batch ID: MS10W0605B

Analysis Date: 06/05/2015 18:08

Sample ID: 15060247-21AGS

Units: µg/L

Run ID: MSD\_10\_150605A

Prep Date: 06/05/2015 18:08

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2180	250	2000	0	109	54	143			
Surr: 1,2-Dichloroethane-d4	59.5		50		119	70	130			
Surr: Toluene-d8	44.4		50		89	70	130			
Surr: 4-Bromofluorobenzene	48		50		96	70	130			

### Sample Matrix Spike Duplicate

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

File ID: C:\HPCHEM\MS10\DATA\150605\15060518.D

Batch ID: MS10W0605B

Analysis Date: 06/05/2015 18:31

Sample ID: 15060247-21AGSD

Units: µg/L

Run ID: MSD\_10\_150605A

Prep Date: 06/05/2015 18:31

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2640	250	2000	0	132	54	143	2183	19.0(23)	
Surr: 1,2-Dichloroethane-d4	59.1		50		118	70	130			
Surr: Toluene-d8	44.4		50		89	70	130			
Surr: 4-Bromofluorobenzene	47		50		94	70	130			

### Comments:

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



# Alpha Analytical, Inc.

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

Date:  
10-Jun-15

## QC Summary Report

Work Order:  
15060303

### Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: 15060821.D

Batch ID: MS09A0608A

Analysis Date: 06/08/2015 19:26

Sample ID: MBLK MS09A0608A

Units : mg/m<sup>3</sup>

Run ID: MSD\_09\_150608A

Prep Date: 06/08/2015 19:26

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								
1,2-Dichloroethane	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								
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								
1,3-Dichlorobenzene	ND	0.2								
1,4-Dichlorobenzene	ND	0.2								
1,2-Dichlorobenzene	ND	0.2								
Surr: 1,2-Dichloroethane-d4	1.7		2		85	70	130			
Surr: Toluene-d8	2.02		2		101	70	130			
Surr: 4-Bromofluorobenzene	1.85		2		93	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: 15060802.D

Batch ID: MS09A0608A

Analysis Date: 06/08/2015 11:54

Sample ID: LCS MS09A0608A

Units : mg/m<sup>3</sup>

Run ID: MSD\_09\_150608A

Prep Date: 06/08/2015 11:54

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	10.7	0.2	10		107	70	130			
Methyl tert-butyl ether (MTBE)	7.73	0.1	10		77	63	137			
Benzene	9.98	0.1	10		99.8	70	130			
Trichloroethene	11.2	0.2	10		112	68	138			
Toluene	10.2	0.1	10		102	70	130			
Chlorobenzene	10.4	0.2	10		104	70	130			
Ethylbenzene	10.4	0.1	10		104	70	130			
m,p-Xylene	9.34	0.1	10		93	65	139			
o-Xylene	9.19	0.1	10		92	70	130			
Surr: 1,2-Dichloroethane-d4	8.87		10		89	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	8.97		10		90	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:**

*10-Jun-15*

## **QC Summary Report**

**Work Order:**

15060303

**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:  
02-Jul-15

## QC Summary Report

Work Order:  
15060303

### Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: C:\HPCHEM\MS10\DATA\150605\15060504.D

Batch ID: MS10W0605A

Analysis Date: 06/05/2015 13:10

Sample ID: MBLK MS10W0605A

Units: µg/L

Run ID: MSD\_10\_150605A

Prep Date: 06/05/2015 13:10

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								
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	11.6		10		116	70	130			
Surr: Toluene-d8	9.12		10		91	70	130			
Surr: 4-Bromofluorobenzene	9.28		10		93	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: C:\HPCHEM\MS10\DATA\150605\15060502.D

Batch ID: MS10W0605A

Analysis Date: 06/05/2015 12:24

Sample ID: LCS MS10W0605A

Units: µg/L

Run ID: MSD\_10\_150605A

Prep Date: 06/05/2015 12:24

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	10.3	1	10		103	70	130			
Methyl tert-butyl ether (MTBE)	9.7	0.5	10		97	63	137			
Benzene	10	0.5	10		100	70	130			
Trichloroethene	10.3	1	10		103	68	138			
Toluene	8.84	0.5	10		88	70	130			
Chlorobenzene	9.58	1	10		96	70	130			
Ethylbenzene	9.65	0.5	10		97	70	130			
m,p-Xylene	9.55	0.5	10		96	65	139			
o-Xylene	9.88	0.5	10		99	70	130			
Surr: 1,2-Dichloroethane-d4	11.9		10		119	70	130			
Surr: Toluene-d8	8.89		10		89	70	130			
Surr: 4-Bromofluorobenzene	9.51		10		95	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:  
02-Jul-15

## QC Summary Report

Work Order:  
15060303

### Sample Matrix Spike

Type MS

Test Code: EPA Method 624/8260

File ID: C:\HPCHEMMS10\DATA\150608\15060820.D

Batch ID: MS10W0605A

Analysis Date: 06/08/2015 22:32

Sample ID: 15060247-21AMS

Units: µg/L

Run ID: MSD\_10\_150605A

Prep Date: 06/08/2015 22:32

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	60.6	2.5	50	0	121	62	133			
Methyl tert-butyl ether (MTBE)	56.9	1.3	50	0	114	56	140			
Benzene	60.6	1.3	50	0	121	67	134			
Trichloroethene	59.9	2.5	50	0	120	68	138			
Toluene	51.2	1.3	50	0	102	38	130			
Chlorobenzene	57.3	2.5	50	0	115	70	130			
Ethylbenzene	56.4	1.3	50	0	113	70	130			
m,p-Xylene	55.1	1.3	50	0	110	65	139			
o-Xylene	57.8	1.3	50	0	116	69	130			
Surr: 1,2-Dichloroethane-d4	62.7		50		125	70	130			
Surr: Toluene-d8	43.9		50		88	70	130			
Surr: 4-Bromofluorobenzene	47		50		94	70	130			

### Sample Matrix Spike Duplicate

Type MSD

Test Code: EPA Method 624/8260

File ID: C:\HPCHEMMS10\DATA\150608\15060821.D

Batch ID: MS10W0605A

Analysis Date: 06/08/2015 22:55

Sample ID: 15060247-21AMSD

Units: µg/L

Run ID: MSD\_10\_150605A

Prep Date: 06/08/2015 22:55

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	51.5	2.5	50	0	103	62	133	60.6	16.2(35)	
Methyl tert-butyl ether (MTBE)	51.1	1.3	50	0	102	56	140	56.93	10.8(40)	
Benzene	53.8	1.3	50	0	108	67	134	60.63	12.0(21)	
Trichloroethene	51.8	2.5	50	0	104	68	138	59.93	14.5(20)	
Toluene	45.1	1.3	50	0	90	38	130	51.21	12.6(20)	
Chlorobenzene	50.4	2.5	50	0	101	70	130	57.27	12.7(20)	
Ethylbenzene	49	1.3	50	0	98	70	130	56.4	14.0(20)	
m,p-Xylene	48.1	1.3	50	0	96	65	139	55.14	13.7(20)	
o-Xylene	50.9	1.3	50	0	102	69	130	57.82	12.7(20)	
Surr: 1,2-Dichloroethane-d4	60.2		50		120	70	130			
Surr: Toluene-d8	44.3		50		89	70	130			
Surr: 4-Bromofluorobenzene	47.9		50		96	70	130			

### Comments:

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



Billing Information :

# CHAIN-OF-CUSTODY RECORD **AMENDED** **CA**

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

**WorkOrder : STR15060303**  
**Report Due By : 5:00 PM On : 10-Jun-15**

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

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

EDD Required : Yes

Sampled by : C. Hill

**PO :**  
Client's COC # : 16151, 16150

Job : Grimit Auto

Cooler Temp	Samples Received	Date Printed
0 °C	03-Jun-15	02-Jul-15

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles			Requested Tests						Sample Remarks			
				Alpha	Sub	TAT	TPHP_A	TPHP_W	VOC_A	VOC_W						
STR15060303-01A	Grim A Sys INF	AR	06/02/15 06:40	1	0	5	GAS-N/C		8260/OXYS S							TEDLAR
STR15060303-02A	Grim W INF	AQ	06/02/15 06:35	6	0	5		GAS-C		8260/OXYS/ NAPH_Cs						
STR15060303-03A	Grim W GAC1	AQ	06/02/15 06:30	6	0	5		GAS-C		8260/OXYS/ NAPH_Cs						

**Comments:** Security seals intact. Frozen ice. Chains combined by job name and split by TATs for reporting purposes. Amended on 7/2/15 to add Naphalene to samples -02A and -03A due to login error. JA :

Signature	Print Name	Company	Date/Time
	JESSICA ALVARADO	Alpha Analytical, Inc.	7/2/15 1220

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

# CHAIN-OF-CUSTODY RECORD

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

# CA

**WorkOrder : STR15060303**

**Report Due By : 5:00 PM On : 10-Jun-15**

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

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

EDD Required : Yes

Sampled by : C. Hill


**PO :**  
 Client's COC # : 16151, 16150      Job : Grituit Auto

Cooler Temp	Samples Received	Date Printed
0 °C	03-Jun-15	03-Jun-15

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles			Requested Tests						Sample Remarks			
				Alpha	Sub	TAT	TPH/P_A	TPH/P_W	VOC_A	VOC_W						
STR15060303-01A	Grim A Sys INF	AR	06/02/15 06:40	1	0	5	GAS-N/C		8260/OXYS_S							TEDLAR
STR15060303-02A	Grim W INF	AQ	06/02/15 06:35	6	0	5		GAS-C		8260/OXYS_Cs						
STR15060303-03A	Grim W GAC1	AQ	06/02/15 06:30	6	0	5		GAS-C		8260/OXYS_Cs						

**Comments:**      Security seals intact. Frozen ice. Chains combined by job name and split by TATs for reporting purposes. :

Signature	Print Name	Company	Date/Time
	Morgan Sawyer	Alpha Analytical, Inc.	6/3/15 1029

**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

Company: Sparks  
 Attn: Debbie  
 Address: 3330 Carnegie Plz DR  
 City, State, Zip: CAROLINA NH  
 Phone Number: \_\_\_\_\_ Fax: \_\_\_\_\_



**Alpha Analytical, Inc.**  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
 Satellite Service Centers:  
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746  
 Northern NV: 1250 Lamolle Hwy., #310, Elko, NV 89801  
 Southern NV: 8255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044  
 Fax: 775-355-0406  
 Phone: 916-366-9089  
 Phone: 714-386-2901  
 Phone: 775-388-7043  
 Phone: 702-281-4848

16151

Page # 1 of 1

**Consistent Client Info:** Company: Sparks  
**Job and Purchase Order Info:** Job #: \_\_\_\_\_ Job Name: GRAIN F A/C P.O. #: \_\_\_\_\_  
**Report Attention/Project Manager:** Name: SLD/H Email Address: \_\_\_\_\_ Phone #: \_\_\_\_\_ Cell #: \_\_\_\_\_  
**QC Deliverable Info:** EDD Required? Yes / No \_\_\_\_\_ EDF Required? Yes / No \_\_\_\_\_  
 Global ID: T0600100667  
 Data Validation Packages: III or IV

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

Time Sampled (HH:MM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered?		Analysis Requested						Remarks
							Yes	No	GRD	BULK	MTSL	VOC's	PCP	TCE	
0640	0215	AR	STRIS060303010	Grm A SYS INF	STD	1	X	X	X	X	X	X	X		
0643	0215	AR	029	Grm A EFF	24	1	X	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: PHILIP STARKER Date: 0215 Time: 1150  
 Relinquished by: (Signature/Affiliation): Maryssa T Morgan - alpha Date: 0215 Time: 1150  
 Relinquished by: (Signature/Affiliation): \_\_\_\_\_ Date: 02/15 Time: 1017

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

Company: States 5  
 Attn: Dubois  
 Address: 3370 Camerlin Pl NE  
 City, State, Zip: Cambridge PA  
 Phone Number: \_\_\_\_\_ Fax: \_\_\_\_\_



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 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044  
 Fax: 775-355-0406  
 Phone: 916-366-9089  
 Phone: 714-386-2901  
 Phone: 775-388-7043  
 Phone: 702-281-4848

16150

Page # 1 of 1

**Consultant/Client Info:** States 5  
**Job and Purchase Order Info:** Job #: \_\_\_\_\_ Job Name: GRIMT 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: 70600100667  
 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 Filled?		Analysis Required				Remarks
							Yes	No	GRO	BKX	MTBE	1,2 DCA	
0635	6/9	AQ	SR15060303-00A	GRIM W INK STD	STO	10	X	X	X	X	X	X	
0630	)	)	03A01A	GRIM W GME1 STD	STO	10	X	X	X	X	X	X	
0625	)	AQ		GRIM W EFF 24	24	10	X	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: EMILL  
 Relinquished by: (Signature/Affiliation): Charles Strider Date: 6/2/15 Time: 11:50  
 Received by: (Signature/Affiliation): Maryssa Date: 6-2-15 Time: 1150  
 Relinquished by: (Signature/Affiliation): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: (Signature/Affiliation): Morgan Sawyer - Alpha Date: 6/3/15 Time: 1017  
 Relinquished by: (Signature/Affiliation): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

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

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 : 06/03/15

Job: Gritmit 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 : STR15060342-01A Date Sampled 06/02/15 06:43	TPH-P (GRO) ND	20 mg/m <sup>3</sup>	06/03/15 10:45	06/03/15
Client ID : Grim W EFF Lab ID : STR15060342-02A Date Sampled 06/02/15 06:25	TPH-P (GRO) ND	50 µg/L	06/03/15	06/03/15

Gasoline Range Organics (GRO) C4-C13

Note: For sample -01A concentrations of air in a Tedlar Bag are at 29 degrees Celsius and 25.52 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 in any way.

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



*AS*

6/3/15

Report Date



# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

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

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

Alpha Analytical Number: STR15060342-01A  
Client I.D. Number: Grim A EFF

Sampled: 06/02/15 06:43  
Received: 06/03/15  
Extracted: 06/03/15 10:45  
Analyzed: 06/03/15

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

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

Note: Concentrations of air in a Tedlar Bag are at 29 degrees Celsius and 25.52 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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*[Signature]*  
6/3/15

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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

## ANALYTICAL REPORT

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

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

Alpha Analytical Number: STR15060342-02A  
Client I.D. Number: Grim W EFF

Sampled: 06/02/15 06:25  
Received: 06/03/15  
Extracted: 06/03/15  
Analyzed: 06/03/15

### 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

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*RS*  
6/3/15

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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

## VOC Sample Preservation Report

Work Order: STR15060342

Job: Gritmit Auto

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15060342-02A	Grim W EFF	Aqueous	2

6/3/15  
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:  
08-Jun-15

## QC Summary Report

Work Order:  
15060342

### Method Blank

File ID: 15060305.D

Type MBLK

Test Code: EPA Method SW8015B/C / SW8260B

Sample ID: MBLK MS08A0603B

Units : mg/m<sup>3</sup>

Run ID: MSD\_08\_150603A

Batch ID: MS08A0603B

Analysis Date: 06/03/2015 11:58

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

ND

10

Surr: 1,2-Dichloroethane-d4

1.56

2

78

70

130

Surr: Toluene-d8

2.31

2

116

70

130

Surr: 4-Bromofluorobenzene

1.67

2

84

70

130

### Laboratory Control Spike

File ID: 15060303.D

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

Sample ID: GLCS MS08A0603B

Units : mg/m<sup>3</sup>

Run ID: MSD\_08\_150603A

Batch ID: MS08A0603B

Analysis Date: 06/03/2015 11:05

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

417

10

400

104

70

130

Surr: 1,2-Dichloroethane-d4

8.03

10

80

70

130

Surr: Toluene-d8

9.85

10

99

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.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
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Date:  
08-Jun-15

## QC Summary Report

Work Order:  
15060342

### Method Blank

File ID: 15060304.D

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

Batch ID: MS09W0603B

Analysis Date: 06/03/2015 13:33

Sample ID: MBLK MS09W0603B

Units: µg/L

Run ID: MSD\_09\_150603A

Prep Date: 06/03/2015 13:33

Analyte

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	8.05		10		81	70	130			
Surr: Toluene-d8	9.57		10		96	70	130			
Surr: 4-Bromofluorobenzene	9.7		10		97	70	130			

### Laboratory Control Spike

File ID: 15060303.D

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

Batch ID: MS09W0603B

Analysis Date: 06/03/2015 13:09

Sample ID: GLCS MS09W0603B

Units: µg/L

Run ID: MSD\_09\_150603A

Prep Date: 06/03/2015 13:09

Analyte

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	422	50	400		105	70	130			
Surr: 1,2-Dichloroethane-d4	8.3		10		83	70	130			
Surr: Toluene-d8	9.07		10		91	70	130			
Surr: 4-Bromofluorobenzene	10.2		10		102	70	130			

### Sample Matrix Spike

File ID: 15060329.D

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

Batch ID: MS09W0603B

Analysis Date: 06/03/2015 23:40

Sample ID: 15060341-01AGS

Units: µg/L

Run ID: MSD\_09\_150603A

Prep Date: 06/03/2015 23:40

Analyte

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1930	250	2000		97	54	143			
Surr: 1,2-Dichloroethane-d4	40.9		50		82	70	130			
Surr: Toluene-d8	45.9		50		92	70	130			
Surr: 4-Bromofluorobenzene	51.6		50		103	70	130			

### Sample Matrix Spike Duplicate

File ID: 15060330.D

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

Batch ID: MS09W0603B

Analysis Date: 06/04/2015 00:04

Sample ID: 15060341-01AGSD

Units: µg/L

Run ID: MSD\_09\_150603A

Prep Date: 06/04/2015 00:04

Analyte

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2100	250	2000		105	54	143	1935	8.2(23)	
Surr: 1,2-Dichloroethane-d4	38.3		50		77	70	130			
Surr: Toluene-d8	46.4		50		93	70	130			
Surr: 4-Bromofluorobenzene	50.6		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.

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:  
08-Jun-15

## QC Summary Report

Work Order:  
15060342

### Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: 15060305.D

Batch ID: MS08A0603A

Analysis Date: 06/03/2015 11:58

Sample ID: MBLK MS08A0603A

Units : mg/m<sup>3</sup>

Run ID: MSD\_08\_150603A

Prep Date: 06/03/2015 11:58

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								
1,2-Dichloroethane	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								
Tetrachloroethane	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								
1,3-Dichlorobenzene	ND	0.2								
1,4-Dichlorobenzene	ND	0.2								
1,2-Dichlorobenzene	ND	0.2								
Surr: 1,2-Dichloroethane-d4	1.56		2		78	70	130			
Surr: Toluene-d8	2.31		2		116	70	130			
Surr: 4-Bromofluorobenzene	1.67		2		84	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: 15060302.D

Batch ID: MS08A0603A

Analysis Date: 06/03/2015 10:05

Sample ID: LCS MS08W0603A

Units : mg/m<sup>3</sup>

Run ID: MSD\_08\_150603A

Prep Date: 06/03/2015 10:05

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	9.15	0.2	10		92	70	130			
Methyl tert-butyl ether (MTBE)	8.99	0.1	10		90	63	137			
Benzene	9.95	0.1	10		100	70	130			
Trichloroethene	10.6	0.2	10		106	68	138			
Toluene	11	0.1	10		110	70	130			
Chlorobenzene	9.96	0.2	10		99.6	70	130			
Ethylbenzene	9.66	0.1	10		97	70	130			
m,p-Xylene	9.94	0.1	10		99	65	139			
o-Xylene	10.1	0.1	10		101	70	130			
Surr: 1,2-Dichloroethane-d4	8.4		10		84	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	12.9		10		129	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:

08-Jun-15

## QC Summary Report

Work Order:

15060342

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:  
08-Jun-15

## QC Summary Report

Work Order:  
15060342

### Method Blank

File ID: 15060304.D

Type MBLK Test Code: EPA Method 624/8260

Batch ID: MS09W0603A

Analysis Date: 06/03/2015 13:33

Sample ID: MBLK MS09W0603A

Units: µg/L

Run ID: MSD\_09\_150603A

Prep Date: 06/03/2015 13:33

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	8.05		10		81	70	130			
Surr: Toluene-d8	9.57		10		96	70	130			
Surr: 4-Bromofluorobenzene	9.7		10		97	70	130			

### Laboratory Control Spike

File ID: 15060302.D

Type LCS

Test Code: EPA Method 624/8260

Batch ID: MS09W0603A

Analysis Date: 06/03/2015 12:45

Sample ID: LCS MS09W0603A

Units: µg/L

Run ID: MSD\_09\_150603A

Prep Date: 06/03/2015 12:45

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	11.4	1	10		114	70	130			
Methyl tert-butyl ether (MTBE)	9.84	0.5	10		98	63	137			
Benzene	11.4	0.5	10		114	70	130			
Trichloroethene	12.1	1	10		121	68	138			
Toluene	11.5	0.5	10		115	70	130			
Chlorobenzene	11.1	1	10		111	70	130			
Ethylbenzene	11.5	0.5	10		115	70	130			
m,p-Xylene	9.65	0.5	10		97	65	139			
o-Xylene	9.51	0.5	10		95	70	130			
Surr: 1,2-Dichloroethane-d4	8.37		10		84	70	130			
Surr: Toluene-d8	9.06		10		91	70	130			
Surr: 4-Bromofluorobenzene	9.41		10		94	70	130			



# Alpha Analytical, Inc.

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Date:  
08-Jun-15

## QC Summary Report

Work Order:  
15060342

### Sample Matrix Spike

File ID: 15060327.D

Type MS

Test Code: EPA Method 624/8260

Batch ID: MS09W0603A

Analysis Date: 06/03/2015 22:52

Sample ID: 15052601-09AMS

Units : µg/L

Run ID: MSD\_09\_150603A

Prep Date: 06/03/2015 22:52

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDReVal	%RPD(Limit)	Qual
1,1-Dichloroethene	50.6	2.5	50	0	101	62	133			
Methyl tert-butyl ether (MTBE)	42.1	1.3	50	0	84	56	140			
Benzene	52.4	1.3	50	0	105	67	134			
Trichloroethene	53.9	2.5	50	0	108	68	138			
Toluene	53.9	1.3	50	0	108	38	130			
Chlorobenzene	49.9	2.5	50	0	99.8	70	130			
Ethylbenzene	51.9	1.3	50	0	104	70	130			
m,p-Xylene	43	1.3	50	0	86	65	139			
o-Xylene	43.4	1.3	50	0	87	69	130			
Surr: 1,2-Dichloroethane-d4	42.7		50		85	70	130			
Surr: Toluene-d8	44.1		50		88	70	130			
Surr: 4-Bromofluorobenzene	48.4		50		97	70	130			

### Sample Matrix Spike Duplicate

File ID: 15060328.D

Type MSD

Test Code: EPA Method 624/8260

Batch ID: MS09W0603A

Analysis Date: 06/03/2015 23:15

Sample ID: 15052601-09AMSD

Units : µg/L

Run ID: MSD\_09\_150603A

Prep Date: 06/03/2015 23:15

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDReVal	%RPD(Limit)	Qual
1,1-Dichloroethene	56.7	2.5	50	0	113	62	133	50.56	11.5(35)	
Methyl tert-butyl ether (MTBE)	45.9	1.3	50	0	92	56	140	42.12	8.7(40)	
Benzene	57.1	1.3	50	0	114	67	134	52.35	8.7(21)	
Trichloroethene	59.4	2.5	50	0	119	68	138	53.9	9.8(20)	
Toluene	58.2	1.3	50	0	116	38	130	53.89	7.6(20)	
Chlorobenzene	54.6	2.5	50	0	109	70	130	49.91	9.0(20)	
Ethylbenzene	56.6	1.3	50	0	113	70	130	51.89	8.7(20)	
m,p-Xylene	46.3	1.3	50	0	93	65	139	43	7.3(20)	
o-Xylene	47.2	1.3	50	0	94	69	130	43.37	8.4(20)	
Surr: 1,2-Dichloroethane-d4	41.7		50		83	70	130			
Surr: Toluene-d8	44.1		50		88	70	130			
Surr: 4-Bromofluorobenzene	49.6		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.

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# RUSH! CA

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

WorkOrder : STR15060342  
Report Due By : 5:00 PM On : 03-Jun-15

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

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

EDD Required : Yes

Sampled by : C. Hill

PO :  
Client's COC # : 16151, 16150 Job : Gritmit Auto

Cooler Temp	Samples Received	Date Printed
0 °C	03-Jun-15	03-Jun-15

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles			Requested Tests						Sample Remarks		
				Alpha	Sub	TAT	TPHP_A	TPHP_W	VOC_A	VOC_W					
STR15060342-01A	Grim A EFF	AR	06/02/15 06:43	1	0	0	GAS-N/C		8260/Oxya_S						Tedlar.
STR15060342-02A	Grim W EFF	AQ	06/02/15 06:25	6	0	0		GAS-C	8260/Oxya_C						

Comments: ASAP TAT. Security seals intact. Frozen ice. Chains combined by job name and split by TATs for reporting purposes. :

Signature	Print Name	Company	Date/Time
	JESSICA ALVARADO	Alpha Analytical, Inc.	6/3/15 10:15

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

Company: St. John's  
 Attn: Debbie  
 Address: 3330 Carnegie Plz DR  
 City, State, Zip: Carroll VA  
 Phone Number: \_\_\_\_\_ Fax: \_\_\_\_\_



Alpha Analytical, Inc.  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
 Satellite Service Centers:  
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746  
 Northern NV: 1250 Lamolle Hwy., #310, Elko, NV 89601  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044  
 Fax: 775-355-0406  
 Phone: 916-366-9089  
 Phone: 714-386-2901  
 Phone: 775-388-7043  
 Phone: 702-281-4848

16151  
 Page # 1 of 1

Client/Client Info: St. John's  
 Job and Purchase Order Info: Job # \_\_\_\_\_ Job Name: GRUNT AVE  
 Report Attention/Project Manager: Name: SCOTT  
 QC Deliverable Info: EDD Required? Yes / No \_\_\_\_\_ EDF Required? Yes / No \_\_\_\_\_  
 Address: \_\_\_\_\_ P.O. #: \_\_\_\_\_ Email Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_ Phone #: \_\_\_\_\_ Cell #: \_\_\_\_\_  
 Samples Collected from which State? (circle one) AR CA KS NV OR WA DOD Site Other \_\_\_\_\_  
 Global ID: T2600100667  
 Data Validation Packages: III or IV \_\_\_\_\_

Time Sampled (HH:MM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers* (See Key Below)	Field Filtered?		Analysis Requested						Remarks
							Yes	No	GRD	BXX	MTBE	VOC's	PCE	TCE	
0640	6/25	AR		GRM A SYS INT	510	1	X		X		X	X	X	X	
0643	6/25	AR	100342-DIA	GRM A EFF	24	1	X		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: <u>PHILLIPS</u>	Date: <u>6/25</u>	Time: <u>1150</u>	Received by: (Signature/Affiliation): <u>Maryssa T</u>	Date: <u>6-2-15</u>	Time: <u>1150</u>
Relinquished by: (Signature/Affiliation): <u>St. John's</u>	Date: _____	Time: _____	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>6/3/15</u>	Time: <u>1000</u>
Relinquished by: (Signature/Affiliation): _____	Date: _____	Time: _____	Received by: (Signature/Affiliation): _____	Date: _____	Time: _____

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



Company: Starks  
 Attn: Debbie  
 Address: 3377 Cameron Rd  
 City, State, Zip: Camden NJ  
 Phone Number: \_\_\_\_\_ Fax: \_\_\_\_\_



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 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
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 Northern NV: 1250 Lemoille Hwy., #310, Elko, NV 89801  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-356-1044  
 Fax: 775-356-0406  
 Phone: 916-386-9089  
 Phone: 714-386-2901  
 Phone: 775-388-7043  
 Phone: 702-281-4848

16150

Page # 1 of 1

Company: Starks Job and Purchase Order Info: Job #: \_\_\_\_\_ Job Name: CRIMINAL Report Attention/Project Manager: SCOTT  
 Address: \_\_\_\_\_ P.O. #: \_\_\_\_\_ Name: \_\_\_\_\_ Email Address: \_\_\_\_\_ Phone #: \_\_\_\_\_ Cell #: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_ QC Deliverable Info: EDD Required? Yes / No \_\_\_\_\_ EDF Required? Yes / No \_\_\_\_\_  
 Global ID: T0600100667  
 Data Validation Packages: III or IV

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

Time Sampled (HH:MM)	Date Sampled (MM/DD)	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers* (See Key Below)	Field Filtered?		Analysis Requested							Remarks
							Yes	No	GRO	BTEX	MTBE	1,2 DCA	Naphthalene	VOC's PCF TOL	Vinyltoluene	
0635	6/15	AQ		Grim W INF STD	24	1	X	X	X	X	X	X	X			
0630				Grim W GAC1 STD	24	1	X	X	X	X	X	X	X			
0625		AQ		Grim W EFF 24	24	1	X	X	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: EMIL  
 Relinquished by: (Signature/Affiliation): [Signature] Date: 6/2/15 Time: 11:50  
 Relinquished by: (Signature/Affiliation): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: (Signature/Affiliation): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: (Signature/Affiliation): Meryssa Date: 6-2-15 Time: 1150  
 Received by: (Signature/Affiliation): [Signature] Date: 6/3/15 Time: 1000

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

## **APPENDIX C**

### **PHOTOS OF REVISED FLOW TOTALIZER LOCATION**

**Former Gritmit Auto Repair and Service**

**Photos of Revised Flow Totalizer Location**



Photo 1: Standing over totalizer in revised location (after lag GAC just prior to discharge).



Photo 2: Looking upon the location of the GACs, flow totalizer, and discharge location.