

RECEIVED

11:49 am, Feb 21, 2012

Alameda County
Environmental Health

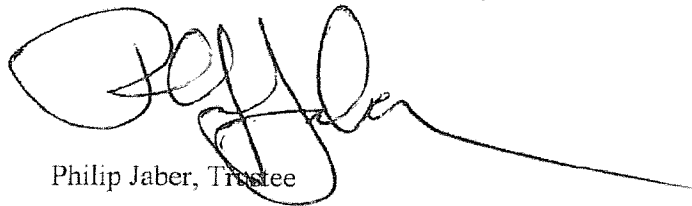
Mr. Mark Detterman
Alameda County Environmental Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: Former Olympic Service Station
1436 Grant Avenue
San Lorenzo, California
ACEHD Case No. RO0000373, GeoTacker No. T0600102256

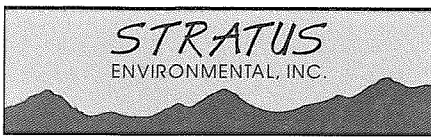
Dear Mr. Detterman:

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

Sincerely,
George and Frida Jaber 1989 Family Trust

A handwritten signature in black ink, appearing to read 'Philip Jaber', with a long horizontal line extending to the right.

Philip Jaber, Trustee



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

February 17, 2012
Project No. 2115-1436-01

Mr. Mark Detterman
Alameda County Health Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

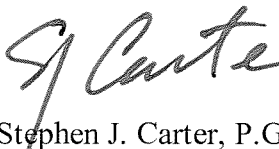
Re: **Quarterly Groundwater Monitoring Report – Fourth Quarter 2011**
Former Olympic Station
1436 Grant Avenue
San Lorenzo, California
ACEHD Case No. RO0000373, GeoTracker No. T0600102256

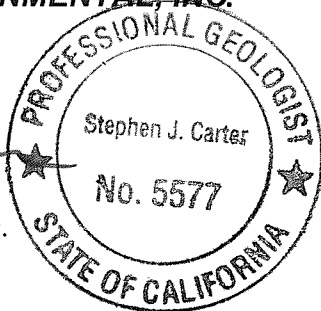
Dear Mr. Detterman:

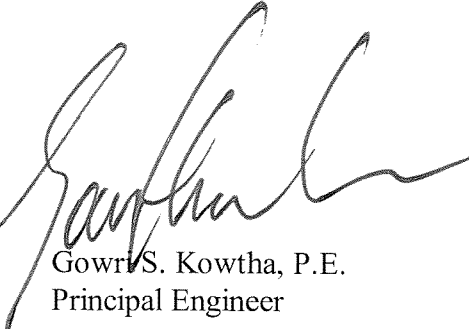
Stratus Environmental, Inc. (Stratus), on behalf of Mr. Philip Jaber and the George and Frida Jaber 1989 Family Trust, is submitting the attached report, for the former Olympic Station located at 1436 Grant Avenue in San Lorenzo, California (Figure 1). If you have any questions or comments concerning this report, please contact Steve Carter at scarter@stratusinc.net or (530) 676-6008.

Sincerely,

STRATUS ENVIRONMENTAL, INC.


Stephen J. Carter, P.G.
Project Manager




Gowri S. Kowtha, P.E.
Principal Engineer

Attachment: Quarterly Groundwater Monitoring Report, Fourth Quarter 2011

cc: Mr. Philip Jaber
Ms. Cherie McCaulou, RWQCB

FORMER OLYMPIC STATION QUARTERLY GROUNDWATER MONITORING REPORT

Facility Address: 1436 Grant Avenue, San Lorenzo, CA
 Consulting Co. / Contact Person: Stratus Environmental, Inc. / Steve Carter, P.G.
 Consultant Project No: 2115-1436-01
 Primary Agency/Regulatory ID No: Mark Detterman, Alameda County Environmental Health Department (ACEHD) / Case No. RO0000373

WORK PERFORMED THIS QUARTER (Fourth Quarter 2011):

1. Stratus prepared and submitted a *Dual Phase Extraction Pilot Test Report* (dated November 3, 2011) to ACEHD. The report details the installation of remediation wells (EX-1, EX-2, EX-3, IW-1 and IW-2), field activities associated with the Dual Phase Extraction (DPE) pilot test, and analytical findings associated with the DPE pilot test conducted at the site during May and June 2011.
2. On December 12, 2011, Stratus conducted quarterly groundwater monitoring and sampling activities. During this event, wells MW-1 through MW-4 and EX-1 through EX-3 were gauged for depth to water and evaluated for the presence of free product. Following gauging, wells MW-4 and EX-1 through EX-3 were purged and groundwater samples were collected. Groundwater samples were analyzed at a state-certified analytical laboratory. Well construction details and tabulated historical groundwater elevation and analytical data are summarized in Tables 1 and 2. Field data sheets, sampling procedures and laboratory analytical reports are included as Attachments A, B, and C respectively.

WORK PROPOSED FOR NEXT QUARTER (First Quarter 2012):

1. Stratus submitted a letter (dated January 9, 2012) discussing the findings of the utility lateral survey.
2. In accordance with the ACEHD letter of January 28, 2011, all wells will be gauged for depth to water, evaluated for the presence of free product, purged, and sampled during first quarter 2012.
3. Stratus will prepare and submit an ozone injection report of the findings from the ozone sparge pilot study.

Current Phase of Project:	Monitoring / Assessment
Frequency of Groundwater Monitoring:	All Wells = Quarterly
Frequency of Groundwater Monitoring and Sampling:	Wells = MW-4, EX-1, EX-2 & EX-3 (Quarterly) Wells MW-1 through MW-3 (Semi-Annual 1 st and 3 rd)
Groundwater Sampling Date:	December 12, 2011
Is Free Product (FP) Present on Site:	No; Sheen noted in MW-4 (4Q11)
Approximate Depth to Groundwater:	7.12 to 7.81 ft bgs
Groundwater Flow Direction:	West-southwest
Groundwater Gradient:	0.005 ft/ft

DISCUSSION:

On December 12, 2011, fourth quarter 2011 groundwater monitoring and sampling activities were conducted at the site. During this event, all wells were gauged for depth to water and evaluated for the presence of free product; sheen was noted in well MW-4. Following gauging, wells MW-4, and EX-1 through EX-3 were purged and sampled. Well MW-4 purged dry before three casing volumes were removed. Groundwater samples were analyzed at a state-certified analytical laboratory for gasoline range organics (GRO) by EPA Method SW/8015B and for benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA Method SW8260B. Well construction details are summarized in Table 1 and historical groundwater elevation and analytical data are summarized in Table 2. Field data sheets, sampling procedures and laboratory analytical reports are included as Attachments A, B and C. GeoWell and analytical data has been uploaded to the GeoTracker database and confirmation is included in Attachment D.

At the time of the fourth quarter 2011 monitoring event, depth-to-water was measured between 7.12 and 7.81 feet below ground surface. Groundwater elevations decreased between 0.29 and 0.35 feet in all monitoring wells since the previous monitoring event (August 2, 2011). Depth-to-water measurements were converted to feet above mean sea level (MSL) and used to construct a groundwater elevation contour map (Figure 2). The groundwater flow direction was to the west-southwest with a calculated gradient of 0.005 ft/ft. This is consistent with historical data.

GRO and benzene were reported in all wells sampled during the fourth quarter 2011 at concentrations of 3,800 micrograms per liter ($\mu\text{g/L}$) and 300 $\mu\text{g/L}$, respectively (MW-4), 520 $\mu\text{g/L}$ and 32 $\mu\text{g/L}$, respectively (EX-1), 590 $\mu\text{g/L}$ and 5.6 $\mu\text{g/L}$, respectively (EX-2), and 100 and 2.4 $\mu\text{g/L}$, respectively (EX-3). MTBE was reported in all wells sampled with a maximum concentration of 1,200 $\mu\text{g/L}$. Maximum GRO, benzene, and MTBE concentrations were all reported in well MW-4. Figure 3 presents GRO, benzene and MTBE analytical results from the fourth quarter 2011 sampling event.

PROJECT STATUS:

The allocated fiscal year 2011/2012 budget for this site was \$50,000. Spending during this fiscal year included a report for the dual phase extraction (DPE) pilot test report, the ozone pilot test, and the ozone pilot test report. The fiscal year 2011/2012 budget has enough remaining funds to complete the mandated first quarter 2012 quarterly monitoring and sampling and to prepare an interim remedial action plan (IRAP).

ATTACHMENTS:

- Table 1 Well Construction Details
- Table 2 Groundwater Elevation and Analytical Summary
- Figure 1 Site Location Map
- Figure 2 Groundwater Elevation Contour Map (Fourth Quarter 2011)
- Figure 3 Groundwater Analytical Summary (Fourth Quarter 2011)
- Appendix A Field Data Sheets
- Appendix B Sampling and Analyses Procedures
- Appendix C Laboratory Analytical Reports and Chain-of-Custody Documentation
- Appendix D GeoTracker Electronic Submittal Confirmations

**TABLE 1
WELL CONSTRUCTION DETAILS**

Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

Boring/Well I.D.	Date	Boring Depth (feet)	Boring Diameter (inches)	Well Diameter (inches)	Well Depth (feet)	Screen Interval (feet bgs)	Slot Size (inches)	Drilling Method	Consultant
<i>Groundwater Monitoring Wells</i>									
MW-1	09/24/99	26.5	8	2	26.5	5 - 26.5	0.020	HSA	Conestoga-Rovers & Associates
MW-2	09/24/99	20.0	8	2	20	5-20	0.020	HSA	Conestoga-Rovers & Associates
MW-3	09/24/99	21.5	8	2	21	5-21	0.020	HSA	Conestoga-Rovers & Associates
MW-4	02/09/10	10.0	10	4	10	5-10	0.020	Air Knife	Conestoga-Rovers & Associates
<i>Extraction Wells</i>									
EX-1	05/19/11	20.0	10	4	20	5-20	0.020	HSA	Stratus Environmental
EX-2	05/19/11	20.0	10	4	20	5-20	0.020	HSA	Stratus Environmental
EX-3	05/19/11	20.0	10	4	20	5-20	0.020	HSA	Stratus Environmental
Notes: HSA = Hollow Stem Auger									

TABLE 2
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)*	Groundwater Elevation (ft msl)	TPHmo (µg/L)	TPHd (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	
MW-1	10/06/99	8.35	15.00	6.65	--	84	3,900	<25	<25	<25	<25	3,500	--	--	--	--	--	--	--	
	01/13/00	7.90		7.10	--	<50	<1,300	18	<13	<13	<13	1,700	--	--	--	--	--	--	--	
	04/12/00	7.08		7.92	--	56	<1,000	66	<10	<10	<10	1,600	--	--	--	--	--	--	--	
	07/19/00	7.66		7.34	--	52	<1,000	<10	<10	<10	<10	1,200	--	--	--	--	--	--	--	
	10/25/00	7.91		7.09	--	76	4,100	120	<25	<25	<25	6,100	--	--	--	--	--	--	--	
	02/16/07	6.32		8.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	03/01/07	5.88		9.12	<250	<50	<50	<1.2	<1.2	<1.2	<1.2	78	<1.2	<1.2	<1.2	<12	<120	<1.2	<1.2	
	05/01/07	7.24	15.71	8.47	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	250	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0	
	08/01/07	7.77		7.94	--	<50	<50	<25	<25	<25	<25	520	<25	<25	<25	<250	<2,500	<25	<25	
	11/01/07	7.71		8.00	--	<50	<50	<12	<12	<12	<12	460	<12	<12	<12	<120	<1,200	<12	<12	
	02/01/08	5.71		10.00	--	<50	<50	<2.5	<2.5	<2.5	<2.5	110	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5	
	05/02/08	7.52		8.19	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	240	<5.0	<5.0	<5.0	<20	<500	<5.0	<5.0	
	08/01/08	8.02		7.69	--	<50	<50	<10	<10	<10	<10	500	<10	<10	<10	<40	<1,000	<10	<10	
	11/04/08	7.28		8.43	--	<50	<50	<5.0	<5.0	<5.0	<5.0	260	<5.0	<5.0	<5.0	26	<500	<5.0	<5.0	
	08/11/09	8.08		7.63	--	<50	<50	<5.0	<5.0	<5.0	<5.0	270	<5.0	<5.0	<5.0	<20	<500	<5.0	<5.0	
	02/03/10	6.14		9.57	--	--	<50	<0.5	<0.5	<0.5	<0.5	39	--	--	--	--	--	--	--	
	05/18/10	7.09		8.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/05/10	7.65		8.06	--	--	<50	<0.5	<0.5	<0.5	<0.5	350	--	--	--	--	--	--	--	--
	02/04/11	7.20		8.51	--	--	<50	0.90	<0.5	<0.5	<0.5	62	--	--	--	--	--	--	--	--
	06/03/11	7.28	18.60	11.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/02/11	7.47		11.13	--	--	120	<0.50	<0.50	<0.50	<0.50	160	--	--	--	--	--	--	--	--	
09/29/11	7.83		10.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
10/12/11	7.03		11.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
11/09/11	7.55		11.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/12/11	7.81		10.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	10/06/99	7.87	14.46	6.59	<500	<50	70	<0.5	<0.5	<0.5	<0.5	11	--	--	--	--	--	--	--	
	01/13/00	7.46		7.00	<500	<50	<50	<0.5	<0.5	<0.5	<0.5	6.2	--	--	--	--	--	--	--	
	04/12/00	6.67		7.79	<500	<50	<50	<0.5	<0.5	<0.5	<0.5	39	--	--	--	--	--	--	--	
	07/19/00	7.23		7.23	<500	<50	<1,000	<10	<10	<10	<10	990	--	--	--	--	--	--	--	
	10/25/00	7.52		6.94	<500	<50	370	<2.5	<2.5	<2.5	<2.5	690	--	--	--	--	--	--	--	
	02/16/07	5.89		8.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	03/01/07	5.45		9.01	<250	<50	<50	<0.5	<0.5	<0.5	<0.5	9.8	<0.5	<0.5	<0.5	<5.0	<50	<0.5	<0.5	
	05/01/07	6.83	15.17	8.34	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	120	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0	
	08/01/07	7.35		7.82	--	<50	<50	<5.0	<5.0	<5.0	<5.0	130	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0	
	11/01/07	7.27		7.90	--	<50	<50	<0.5	<0.5	<0.5	<0.5	19	<0.5	<0.5	<0.5	<5.0	<50	<0.5	<0.5	
	02/01/08	5.25		9.92	--	<50	<50	<0.5	<0.5	<0.5	<0.5	3.3	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5	
	05/02/08	7.12		8.05	--	<50	<50	<2.5	<2.5	<2.5	<2.5	83	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5	
	08/01/08	7.59		7.58	--	<50	<50	<1.0	<1.0	<1.0	<1.0	52	<1.0	<1.0	<1.0	<4.0	<100	<1.0	<1.0	
	11/04/08	6.84		8.33	--	80	<50	<0.5	<0.5	<0.5	<0.5	5.9	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5	
	08/11/09	7.65		7.52	--	<50	<50	<0.5	<0.5	<0.5	<0.5	9.4	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5	
	02/03/10	5.75		9.42	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.86	--	--	--	--	--	--	--	
	05/18/10	6.67		8.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/05/10	7.25		7.92	--	--	<50	<0.5	<0.5	<0.5	<0.5	57	--	--	--	--	--	--	--	--
	02/04/11	6.79		8.38	--	--	<50	<0.50	<0.50	<0.50	<0.50	4.4	--	--	--	--	--	--	--	--
	06/03/11	6.82	18.00	11.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/02/11	7.06		10.94	--	--	<50	<0.50	<0.50	<0.50	<0.50	46	--	--	--	--	--	--	--	--	
09/29/11	7.39		10.61	--	--	<50	<0.50	<0.50	<0.50	<0.50	41	<1.0	<1.0	<1.0	<10	--	--	<1.0	<1.0	
10/12/11	6.62		11.38	--	--	<50	<0.50	<0.50	<0.50	<0.50	37	<1.0	<1.0	<1.0	<10	--	--	<1.0	<1.0	
11/09/11	7.11		10.89	--	--	<50	<0.50	<0.50	<0.50	<0.50	33	<1.0	<1.0	<1.0	<10	--	--	<1.0	<1.0	
12/12/11	7.35		10.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 2
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)*	Groundwater Elevation (ft msl)	TPHmo (µg/L)	TPHd (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
MW-3	10/06/99	7.90	14.41	6.51	--	300	3,900	900	89	160	560	790	--	--	--	--	--	--	--
	01/13/00	7.50		6.91	--	210	740	110	4.8	35	18	290	--	--	--	--	--	--	--
	04/12/00	6.61		7.80	--	640	2,200	650	9.7	180	24	140	--	--	--	--	--	--	--
	07/19/00	7.24		7.17	--	270	2,700	420	<2.5	160	<2.5	99	--	--	--	--	--	--	--
	10/25/00	7.52		6.89	--	150	710	180	<2.5	24	<2.5	71	--	--	--	--	--	--	--
	02/16/07	5.90		8.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/01/07	5.44		8.97	<250	<50	82	20	<1.7	<1.7	<1.7	100	<1.7	<1.7	<1.7	<17	<170	<1.7	<1.7
	05/01/07	6.87	15.13	8.26	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	88	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0
	08/01/07	7.40		7.73	--	<50	130	12	<2.5	<2.5	<2.5	98	<2.5	<2.5	<2.5	<25	<250	<2.5	<2.5
	11/01/07	7.35		7.78	--	<50	77	<2.5	<2.5	<2.5	<2.5	68	<2.5	<2.5	<2.5	<25	<250	<2.5	<2.5
	02/01/08	5.28		9.85	--	<50	<50	<2.5	<2.5	<2.5	<2.5	97	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5
	05/02/08	7.15		7.98	--	<50	68	2.3	<1.7	<1.7	<1.7	86	<1.7	<1.7	<1.7	7.2	<170	<1.7	<1.7
	08/01/08	7.66		7.47	--	<50	85	3.5	<1.0	<1.0	<1.0	66	<1.0	<1.0	<1.0	7.2	<100	<1.0	<1.0
	11/04/08	6.96		8.17	--	<50	<50	<1.0	<1.0	<1.0	<1.0	40	<1.0	<1.0	<1.0	<4.0	<100	<1.0	<1.0
	08/11/09	7.72		7.41	--	<50	110	33	<0.50	<0.50	<0.50	28	<0.50	<0.50	<0.50	<2.0	<50	<0.50	<0.50
	02/03/10	5.72		9.41	--	--	<50	0.55	<0.50	<0.50	<0.50	25	--	--	--	--	--	--	--
	05/18/10	6.73		8.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/05/10	7.31		7.82	--	--	450	110	2.2	0.76	0.64	32	--	--	--	--	--	--	--
	02/04/11	6.80		8.33	--	--	220[1]	64	1.6	<0.5	<0.5	36	--	--	--	--	--	--	--
	06/03/11	6.87	17.95	11.08	--	--	200	26	<0.50	<0.50	<0.50	34	--	--	--	--	--	--	--
	08/02/11	7.07		10.88	--	--	<50	2.5	<0.50	<0.50	<0.50	36	--	--	--	--	--	--	--
	09/29/11	7.43		10.52	--	--	<50	<0.50	<0.50	<0.50	<0.50	28	<1.0	<1.0	<1.0	<10	--	--	<1.0
10/12/11	6.67		11.28	--	--	<50	0.91	<0.50	<0.50	<0.50	32	<1.0	<1.0	<1.0	<10	--	--	<1.0	
11/09/11	7.16		10.79	--	--	<50	1.8	<0.50	<0.50	<0.50	31	<1.0	<1.0	<1.0	<10	--	--	<1.0	
12/12/11	7.42		10.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	05/18/10	6.68	15.15	8.47	--	--	13,000	620	36	170	12	1,200	--	--	--	--	--	--	--
	08/05/10	7.25		7.90	--	--	9,200	780	13	230	4.3	1,800	--	--	--	--	--	--	--
	02/04/11	6.71		8.44	--	--	4,800[1]	350	7.1	23	<2.5	440	--	--	--	--	--	--	
	06/03/11	6.78	17.99	11.21	--	--	4,700	350	2.6	19	<2.5[2]	670	--	--	--	--	--	--	
	08/02/11	7.01		10.98	--	--	4,700	290	<2.5[2]	12	<2.5[2]	970	--	--	--	--	--	--	
	09/29/11	7.37		10.62	--	--	8,700	590	<5.0[2]	34	<5.0[2]	1,500	<10[2]	28	<10[2]	<100[2]	--	--	<10[2]
	10/12/11	6.61		11.38	--	--	1,500	160	<1.0[2]	1.8	<1.0[2]	1,300	<2.0[2]	8.6	<2.0[2]	42	--	--	<2.0[2]
	11/09/11	7.18		10.81	--	--	2,800	190	1.4	9.6	1.3	720	<2.0[2]	3.6	<2.0[2]	270	--	--	<2.0[2]
12/12/11	7.36		10.63	--	--	3,800	300	2.4	11	2.5	1,200	--	--	--	--	--	--		

TABLE 2
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

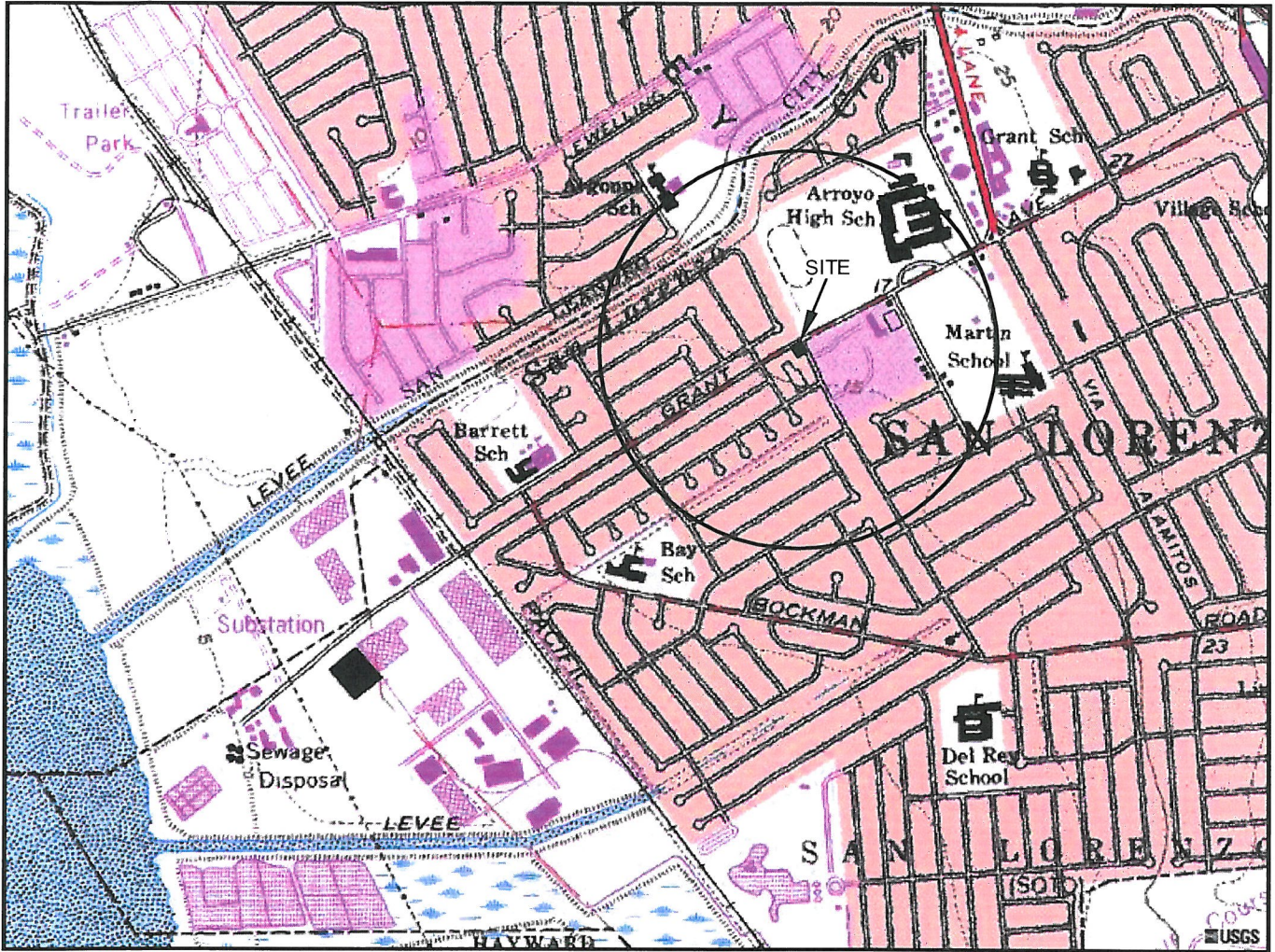
Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)*	Grouwater Elevation (ft msl)	TPHmo (µg/L)	TPHd (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
EX-1	06/03/11	6.96	18.14	11.18	--	--	76	8.3	<0.50	<0.50	0.99	37	--	--	--	--	--	--	--
	08/02/11	7.20		10.94	--	--	420	37	0.65	3.5	2.9	32	--	--	--	--	--	--	--
	09/29/11	7.53		10.61	--	--	150	13	<0.50	3.2	1.1	23	<1.0	1.2	<1.0	<10	--	--	<1.0
	10/12/11	6.63		11.51	--	--	180	23	0.51	2.8	0.97	27	<1.0	1.0	<1.0	<10	--	--	<1.0
	11/09/11	7.28		10.86	--	--	<50	4.3	<0.50	<0.50	<0.50	34	<1.0	<1.0	<1.0	<10	--	--	<1.0
	12/12/11	7.50		10.64	--	--	520	32	1.3	13	5.58	20	--	--	--	--	--	--	--
EX-2	06/03/11	6.81	18.14	11.33	--	--	760	<1.5[2]	<1.5[2]	<1.5[2]	<1.5[2]	1,100	--	--	--	--	--	--	--
	08/02/11	7.03		11.11	--	--	920	8.7	<1.0[2]	<1.0[2]	<1.0[2]	920	--	--	--	--	--	--	--
	09/29/11	7.37		10.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/11	6.65		11.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/09/11	7.08		11.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/11	7.35		10.79	--	--	590	5.6	<1.0[2]	<1.0[2]	<1.0[2]	920	--	--	--	--	--	--	--
EX-3	06/03/11	6.55	17.63	11.08	--	--	95	0.93	<0.50	<0.50	<0.50	78	--	--	--	--	--	--	--
	08/02/11	6.82		10.81	--	--	130	1.5	<0.50	<0.50	<0.50	150	--	--	--	--	--	--	--
	09/29/11	7.15		10.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/11	6.37		11.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/19/11	6.89		10.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/11	7.12		10.51	--	--	100	2.4	<0.50	<0.50	<0.50	84	--	--	--	--	--	--	--

Legend/Key:

NM = Not measured
GRO = Gasoline Range Organics C6-C12
MTBE = Methyl tertiary butyl ether
[1] Weakly modified or unmodified gasoline is significant.
[2] = Reporting limits were increased due to high concentrations of target analytes.
ft msl = feet above mean sea level
µg/L = micrograms per liter
*Well elevations and locations surveyed by Morrow Surveying on June 15, 2011.

Analytical Methods:

GRO and BTEX analyzed according to EPA Method 8021B/8015Bm.
MTBE analyzed according to EPA Method SW8260B



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



APPROXIMATE SCALE



QUADRANGLE LOCATION

STRATUS
 ENVIRONMENTAL, INC.

FORMER OLYMPIC SERVICE STATION
 1436 GRANT AVENUE
 SAN LORENZO, CALIFORNIA

FIGURE

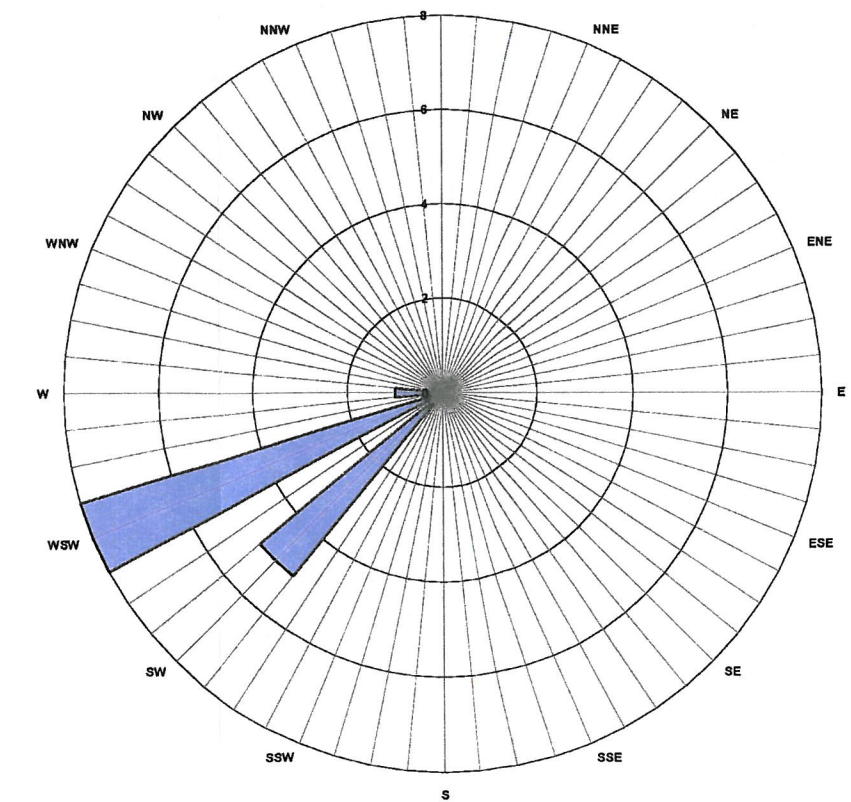
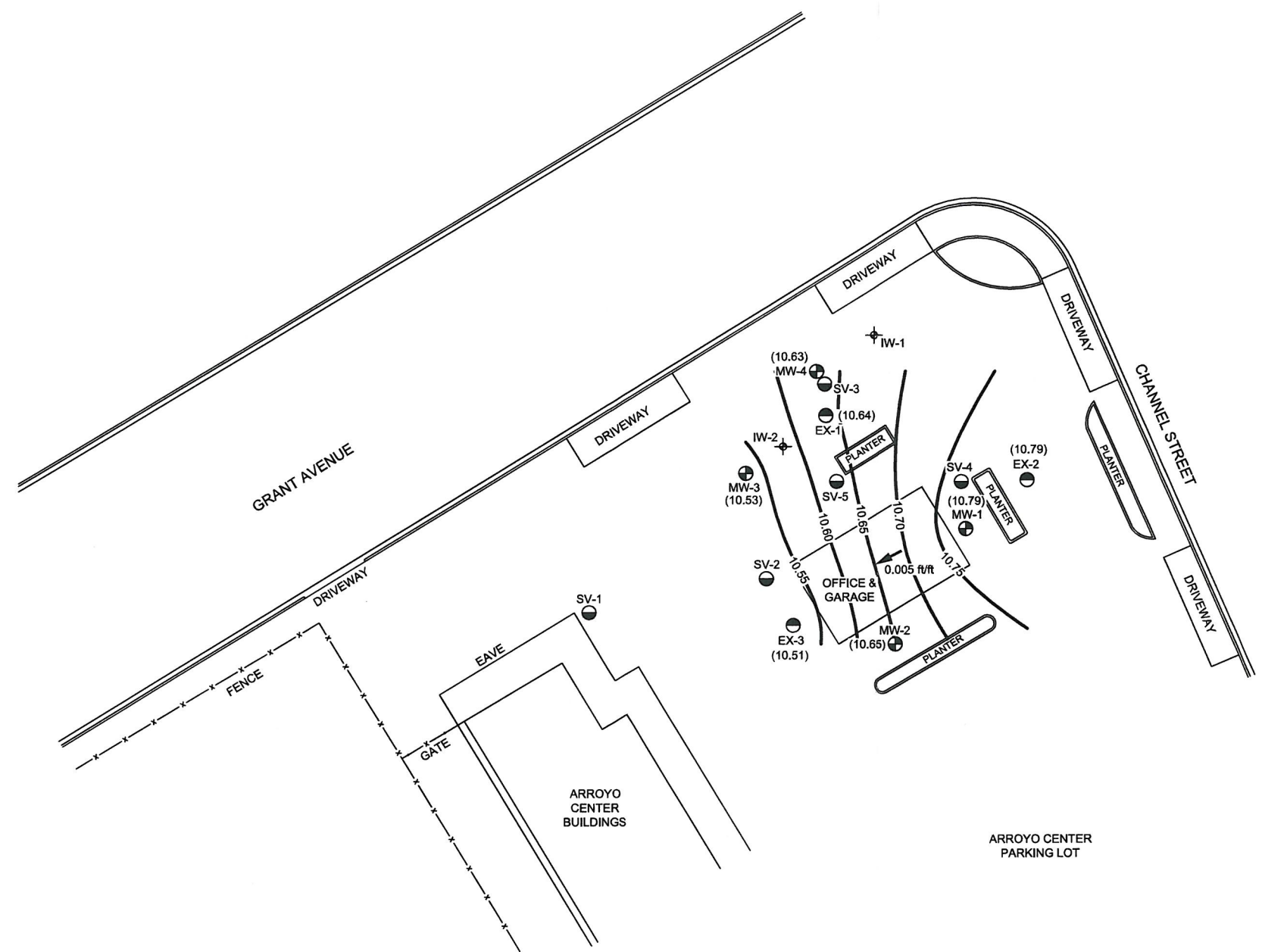
1

PROJECT NO.
 2115-1436-01

SITE LOCATION MAP

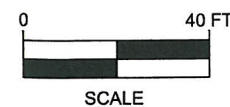
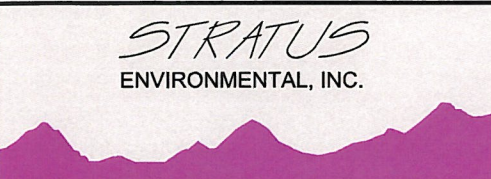


- LEGEND
- ⊕ MW-1 MONITORING WELL LOCATION
 - ⊖ SV-1 VAPOR EXTRACTION WELL LOCATION
 - ⊖ EX-1 EXTRACTION WELL LOCATION
 - ⊕ IW-1 OZONE INJECTION WELL LOCATION
 - (10.79) GROUNDWATER ELEVATION IN FEET RELATIVE TO MSL
 - 10.65— GROUNDWATER ELEVATION CONTOUR IN FEET RELATIVE TO MSL
 - ➔ INFERRED GROUNDWATER FLOW DIRECTION
- WELLS MEASURED ON 12/12/11
MSL = MEAN SEA LEVEL



REV August 12, 2011 Olympic Quarterly Figures
JMP

BASED ON SURVEY PREPARED BY MORROW SURVEYING 8/15/11



FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP
4th QUARTER 2011

FIGURE
2
PROJECT NO.
2115-1436-01

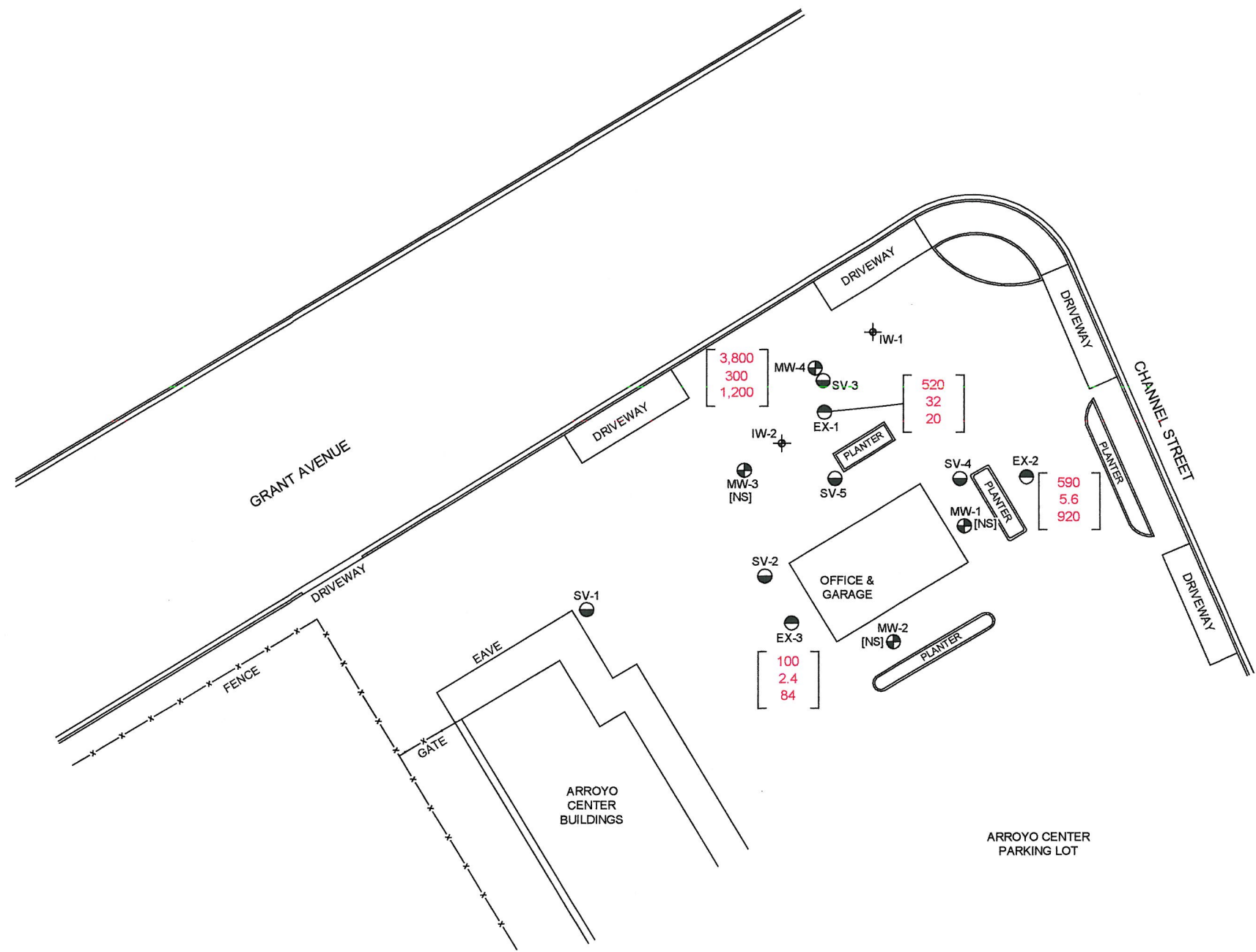


LEGEND

- MW-1 MONITORING WELL LOCATION
- SV-1 VAPOR EXTRACTION WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- IW-1 OZONE INJECTION WELL LOCATION

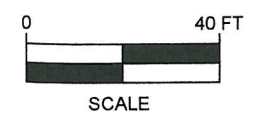
- 520 GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN $\mu\text{g/L}$
- 32 BENZENE CONCENTRATION IN $\mu\text{g/L}$
- 20 METHYL TERTIARY BUTYL ETHER (MTBE) IN $\mu\text{g/L}$

WELLS SAMPLED ON 12/12/11
 GRO ANALYZED BY EPA METHOD 8015B
 MTBE & BENZENE ANALYZED BY EPA METHOD 8260B
 [NS] = NOT SAMPLED



REV August 12, 2011 Olympic Quarterly Figures
 JWP
 Olympic Quarterly

BASED ON SURVEY PREPARED BY MORROW SURVEYING 6/15/11



FORMER OLYMPIC SERVICE STATION
 1436 GRANT AVENUE
 SAN LORENZO, CALIFORNIA

GROUNDWATER ANALYTICAL SUMMARY
 4th QUARTER 2011

FIGURE
3
 PROJECT NO.
 2115-1436-01

APPENDIX A
FIELD DATA SHEETS



Site Address 1436 Grant Avenue
 City San Lorenzo
 Sampled by: Vince Zalutka
 Signature [Signature]

Site Number Olympic Jaber
 Project Number 2115-1436-01
 Project PM Steve Carter
 DATE 12-12-11

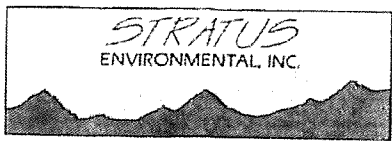
Water Level Data					Purge Volume Calculations					Purge Method				Sample Record			Field Data
Well ID	Time	Depth to Product (feet)	Depth to Water (feet)	Total Depth (feet)	Water column (feet)	Diameter (inches)	Multiplier	3 casing volumes (gallons)	Actual water purged (gallons)	No Purge	Bailer	Pump	other	DTW at sample time (feet)	Sample I.D	Sample Time	DO (mg/L)
MW-1	0845		7.81	24.20											MW-1		
1	2 0853		7.35	18.50											1 2		
3	0836		7.42	18.85											2 3		
4	0900	Shreen	7.36	9.30	1.94	4	2	3.88	2.00		X		Dry	7.66	4	1058	1.70
EW-1	0856		7.50	19.80	12.30	4	2	24.60	25.00		X			7.86	EW-1	0941	1.52
2	0849		7.35	18.60	11.25	4	2	22.50	22.50		X		Low	7.42	1 2	1050	2.01
3	0841		7.12	19.75	12.63	4	2	25.26	25.50		X			7.35	2 3	1007	4.30

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

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

gc

CALIBRATION DATE
 pH VJ 12-12-11
 Conductivity [Signature]
 DO [Signature]



Site Address 1436 Grant Ave
 City San Lorenzo
 Sampled By: V. Zalutka
 Signature VZ

Site Number Olympic Jaber
 Project Number 2115-1436-01
 Project PM S. Carter
 DATE 12-12-11

Well ID <u>MW-4</u> <u>sheet</u>					Well ID <u>EX-1</u>				
Purge start time <u>0904</u>			Odor <u>(Y)</u> N		Purge start time <u>0920</u>			Odor Y <u>(N)</u>	
<u>Bail</u>	Temp C	pH	cond	gallons	<u>Bail</u>	Temp C	pH	cond	gallons
time <u>0904</u>	<u>17.5</u>	<u>6.70</u>	<u>756</u>	<u>2</u>	time <u>0920</u>	<u>19.0</u>	<u>7.16</u>	<u>965</u>	<u>2</u>
time <u>0909</u>	<u>Dry @</u>		<u>2 gal</u>		time <u>0930</u>	<u>19.2</u>	<u>7.25</u>	<u>990</u>	<u>12.5</u>
time <u>1058</u>	<u>18.8</u>	<u>7.03</u>	<u>688</u>	<u>(2.0)</u>	time <u>0941</u>	<u>18.9</u>	<u>7.30</u>	<u>992</u>	<u>25.0</u>
time					time				
purge stop time <u>0909</u>			ORP <u>35</u>		purge stop time <u>0941</u>			ORP <u>-71</u>	
Well ID <u>EX-3</u>					Well ID <u>EX-2</u>				
Purge start time <u>0948</u>			Odor <u>(Y)</u> N		Purge start time <u>1019</u>			Odor Y <u>(N)</u>	
<u>Bail</u>	Temp C	pH	cond	gallons	<u>Bail</u>	Temp C	pH	cond	gallons
time <u>0948</u>	<u>18.3</u>	<u>7.23</u>	<u>891</u>	<u>2</u>	time <u>1019</u>	<u>18.1</u>	<u>7.11</u>	<u>929</u>	<u>2</u>
time <u>0958</u>	<u>18.5</u>	<u>7.37</u>	<u>950</u>	<u>12.5</u>	time <u>1026</u>	<u>19.1</u>	<u>7.16</u>	<u>915</u>	<u>12</u>
time <u>1007</u>	<u>18.2</u>	<u>7.51</u>	<u>946</u>	<u>25.5</u>	time <u>1033</u>	<u>LOW @</u>		<u>22.5</u>	
time					time <u>1050</u>	<u>18.0</u>	<u>7.45</u>	<u>897</u>	<u>(22.5)</u>
purge stop time <u>1007</u>			ORP <u>-25</u>		purge stop time <u>1033</u>			ORP <u>14</u>	
Well ID					Well ID				
Purge start time			Odor Y N		Purge start time			Odor Y N	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time			ORP		purge stop time			ORP	
Well ID					Well ID				
Purge start time			Odor Y N		Purge start time			Odor Y N	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time			ORP		purge stop time			ORP	

sc

APPENDIX B
SAMPLING AND ANALYSES PROCEDURES

SAMPLING AND ANALYSIS PROCEDURES

The sampling and analysis procedures as well as the quality assurance plan are contained in this appendix. The procedures and adherence to the quality assurance plan will provide for consistent and reproducible sampling methods; proper application of analytical methods; accurate and precise analytical results; and finally, these procedures will provide guidelines so that the overall objectives of the monitoring program are achieved.

Ground Water and Liquid-Phase Petroleum Hydrocarbon Depth Assessment

A water/hydrocarbon interface probe is used to assess the liquid-phase petroleum hydrocarbon (LPH) thickness, if present, and a water level indicator is used to measure the ground water depth in monitoring wells that do not contain LPH. Depth to ground water or LPH is measured from a datum point at the top of each monitoring well casing. The datum point is typically a notch cut in the north side of the casing edge. If a water level indicator is used, the tip is subjectively analyzed for hydrocarbon sheen.

Subjective Analysis of Ground Water

Prior to purging, a water sample is collected from the monitoring well for subjective assessment. The sample is retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating LPH and the appearance of a LPH sheen.

Monitoring Well Purging and Sampling

Monitoring wells are purged using a pump or bailer until pH, temperature, and conductivity of the purge water has stabilized and a minimum of three well volumes of water have been removed. If three well volumes can not be removed in one half hour's time the well is allowed to recharge to 80% of original level. After recharging, a ground water sample is then removed from each of the wells using a disposable bailer.

A Teflon bailer, electric submersible or bladder pump will be the only equipment used for well sampling. When samples for volatile organic analysis are being collected, the pump flow will be regulated at approximately 100 milliliters per minute to minimize pump effluent turbulence and aeration. Glass bottles of at least 40-milliliters volume and fitted with Teflon-lined septa will be used in sampling for volatile organics. These bottles will be filled completely to prevent air from remaining in the bottle. A positive meniscus forms when the bottle is completely full. A convex Teflon septum will be placed over the positive meniscus to eliminate air. After the bottle is capped, it is inverted and tapped to verify that it contains no air bubbles. The sample containers for other parameters will be filled, filtered as required, and capped.

The water sample is collected, labeled, and handled according to the Quality Assurance Plan. Water generated during the monitoring event is disposed of according to regulatory accepted method pertaining to the site.

QUALITY ASSURANCE PLAN

Procedures to provide data quality should be established and documented so that conditions adverse to quality, such as deficiencies, deviations, nonconformants, defective material, services, and/or equipment, can be promptly identified and corrected.

General Sample Collection and Handling Procedures

Proper collection and handling are essential to ensure the quality of a sample. Each sample is collected in a suitable container, preserved correctly for the intended analysis, and stored prior to analysis for no longer than the maximum allowable holding time. Details on the procedures for collection and handling of samples used on this project can be found in this section.

Soil and Water Sample Labeling and Preservation

Label information includes a unique sample identification number, job identification number, date, and time. After labeling all soil and water samples are placed in a Ziploc[®] type bag and placed in an ice chest cooled to approximately 4° Celsius. Upon arriving at Stratus' office the samples are transferred to a locked refrigerator cooled to approximately 4° Celsius. Chemical preservation is controlled by the required analysis and is noted on the chain-of-custody form. Trip blanks supplied by the laboratory accompany the groundwater sample containers and groundwater samples.

Upon recovery, the sample container is sealed to minimize the potential of volatilization and cross-contamination prior to chemical analysis. Soil sampling tubes are typically closed at each end with Teflon[®] sheeting and plastic caps. The sample is then placed in a Ziploc[®] type bag and sealed. The sample is labeled and refrigerated at approximately 4° Celsius for delivery, under strict chain-of-custody, to the analytical laboratory.

Sample Identification and Chain-of-Custody Procedures

Sample identification and chain-of-custody procedures document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis has a label affixed to identify the job number, sampler, date and time of sample collection, and a sample number unique to that sample. This information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel, and any other pertinent field observations, is recorded on the borehole log or in the field records. The samples are analyzed by a California-certified laboratory.

A chain-of-custody form is used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples are shipped, the person in custody of them relinquishes the samples by signing the chain-of-custody form and

noting the time. The sample-control officer at the laboratory verifies sample integrity and confirms that the samples are collected in the proper containers, preserved correctly, and contain adequate volumes for analysis. These conditions are noted on a Laboratory Sample Receipt Checklist that becomes part of the laboratory report upon request.

If these conditions are met, each sample is assigned a unique log number for identification throughout analysis and reporting. The log number is recorded on the chain-of-custody form and in the legally-required log book maintained by the laboratory. The sample description, date received, client's name, and other relevant information is also recorded.

Equipment Cleaning

Sample bottles, caps, and septa used in sampling for volatile and semivolatile organics will be triple rinsed with high-purity deionized water. After being rinsed, sample bottles will be dried overnight at a temperature of 200°C. Sample caps and septa will be dried overnight at a temperature of 60°C. Sample bottles, caps, and septa will be protected from solvent contact between drying and actual use at the sampling site. Sampling containers will be used only once and discarded after analysis is complete.

Plastic bottles and caps used in sampling for metals will be soaked overnight in a 1-percent nitric acid solution. Next, the bottles and caps will be triple rinsed with deionized water. Finally, the bottles and caps will be air dried before being used at the site. Plastic bottles and caps will be constructed of linear polyethylene or polypropylene. Sampling containers will be used only once and discarded after analysis is complete. Glass and plastic bottles used by Stratus to collect groundwater samples are supplied by the laboratory.

Before the sampling event is started, equipment that will be placed in the well or will come in contact with groundwater will be disassembled and cleaned thoroughly with detergent water, and then steam cleaned with deionized water. Any parts that may absorb contaminants, such as plastic pump valves, etc. will be cleaned as described above or replaced.

During field sampling, equipment surfaces that are placed in the well or contact groundwater will be steam cleaned with deionized water before the next well is purged or sampled. Equipment blanks will be collected and analyzed from non-disposable sampling equipment that is used for collecting groundwater samples at the rate of one blank per twenty samples collected.

Internal Quality Assurance Checks

Internal quality assurance procedures are designed to provide reliability of monitoring and measurement of data. Both field and laboratory quality assurance checks are necessary to evaluate the reliability of sampling and analysis results. Internal quality assurance procedures generally include:

- Laboratory Quality Assurance

- Documentation of instrument performance checks
- Documentation of instrument calibration
- Documentation of the traceability of instrument standards, samples, and data
- Documentation of analytical and QC methodology (QC methodology includes use of spiked samples, duplicate samples, split samples, use of reference blanks, and check standards to check method accuracy and precision)

- Field Quality Assurance

- Documentation of sample preservation and transportation
- Documentation of field instrument calibration and irregularities in performance

Internal laboratory quality assurance checks will be the responsibility of the contract laboratories. Data and reports submitted by field personnel and the contract laboratory will be reviewed and maintained in the project files.

Types of Quality Control Checks

Samples are analyzed using analytical methods outlined in EPA Manual SW 846 and approved by the California Regional Water Quality Control Board-Central Valley Region in the Leaking Underground Fuel Tanks (LUFT) manual and appendices. Standard contract laboratory quality control may include analysis or use of the following:

- Method blanks – reagent water used to prepare calibration standards, spike solutions, etc. is analyzed in the same manner as the sample to demonstrate that analytical interferences are under control.
- Matrix spiked samples – a known amount of spike solution containing selected constituents is added to the sample at concentrations at which the accuracy of the analytical method is to satisfactorily monitor and evaluate laboratory data quality.
- Split samples – a sample is split into two separate aliquots before analysis to assess the reproducibility of the analysis.
- Surrogate samples – samples are spiked with surrogate constituents at known concentrations to monitor both the performance of the analytical system and the effectiveness of the method in dealing with the sample matrix.
- Control charts – graphical presentation of spike or split sample results used to track the accuracy or precision of the analysis.
- Quality control check samples – when spiked sample analysis indicates atypical instrument performance, a quality check sample, which is prepared independently of the calibration standards and contains the constituents of interest, is analyzed to confirm that measurements were performed accurately.

- Calibration standards and devices – traceable standards or devices to set instrument response so that sample analysis results represent the absolute concentration of the constituent.

Field QA samples will be collected to assess sample handling procedures and conditions. Standard field quality control may include the use of the following, and will be collected and analyzed as outlined in EPA Manual SW 846.

- Field blanks – reagent water samples are prepared at the sampling location by the same procedure used to collect field groundwater samples and analyzed with the groundwater samples to assess the impact of sampling techniques on data quality. Typically, one field blank per twenty groundwater samples collected will be analyzed per sampling event.
- Field replicates – duplicate or triplicate samples are collected and analyzed to assess the reproducibility of the analytical data. One replicate groundwater sample per twenty samples collected will be analyzed per sampling event, unless otherwise specified. Triplicate samples will be collected only when specific conditions warrant and generally are sent to an alternate laboratory to confirm the accuracy of the routinely used laboratory.
- Trip blanks – reagent water samples are prepared before field work, transported and stored with the samples and analyzed to assess the impact of sample transport and storage for data quality. In the event that any analyte is detected in the field blank, a trip blank will be included in the subsequent groundwater sampling event.

Data reliability will be evaluated by the certified laboratory and reported on a cover sheet attached to the laboratory data report. Analytical data resulting from the testing of field or trip blanks will be included in the laboratory's report. Results from matrix spike, surrogate, and method blank testing will be reported, along with a statement of whether the samples were analyzed within the appropriate holding time.

Stratus will evaluate the laboratory's report on data reliability and note significant QC results that may make the data biased or unacceptable. Data viability will be performed as outlined in EPA Manual SW 846. If biased or unacceptable data is noted, corrective actions (including re-sample/re-analyze, etc.) will be evaluated on a site-specific basis.

APPENDIX C

**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: Steve Carter
Phone: (530) 676-6008
Fax: (530) 676-6005
Date Received : 12/13/11

Job: Olympic

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

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	MW-4				
Lab ID :	STR11121301-01A	TPH-P (GRO)	3,800	400 µg/L	12/16/11
Date Sampled	12/12/11 10:58	Methyl tert-butyl ether (MTBE)	1,200	2.0 µg/L	12/16/11
		Benzene	300	2.0 µg/L	12/16/11
		Toluene	2.4	2.0 µg/L	12/16/11
		Ethylbenzene	11	2.0 µg/L	12/16/11
		m,p-Xylene	ND	V	2.0 µg/L
		o-Xylene	2.5	2.0 µg/L	12/16/11
Client ID :	EX-1				
Lab ID :	STR11121301-02A	TPH-P (GRO)	520	50 µg/L	12/16/11
Date Sampled	12/12/11 09:41	Methyl tert-butyl ether (MTBE)	20	0.50 µg/L	12/16/11
		Benzene	32	0.50 µg/L	12/16/11
		Toluene	1.3	0.50 µg/L	12/16/11
		Ethylbenzene	13	0.50 µg/L	12/16/11
		m,p-Xylene	4.8	0.50 µg/L	12/16/11
		o-Xylene	0.78	0.50 µg/L	12/16/11
Client ID :	EX-2				
Lab ID :	STR11121301-03A	TPH-P (GRO)	590	200 µg/L	12/16/11
Date Sampled	12/12/11 10:50	Methyl tert-butyl ether (MTBE)	920	1.0 µg/L	12/16/11
		Benzene	5.6	1.0 µg/L	12/16/11
		Toluene	ND	V	1.0 µg/L
		Ethylbenzene	ND	V	1.0 µg/L
		m,p-Xylene	ND	V	1.0 µg/L
		o-Xylene	ND	V	1.0 µg/L
Client ID :	EX-3				
Lab ID :	STR11121301-04A	TPH-P (GRO)	100	50 µg/L	12/16/11
Date Sampled	12/12/11 10:07	Methyl tert-butyl ether (MTBE)	84	0.50 µg/L	12/16/11
		Benzene	2.4	0.50 µg/L	12/16/11
		Toluene	ND	0.50 µg/L	12/16/11
		Ethylbenzene	ND	0.50 µg/L	12/16/11
		m,p-Xylene	ND	0.50 µg/L	12/16/11
		o-Xylene	ND	0.50 µg/L	12/16/11



Alpha Analytical, Inc.

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

Gasoline Range Organics (GRO) C4-C13

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

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl

Randy Gardner

Walter Hinchman

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

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

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

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

[Signature]
12/20/11

Report Date



Alpha Analytical, Inc.

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

VOC Sample Preservation Report

Work Order: STR11121301

Job: Olympic

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11121301-01A	MW-4	Aqueous	2
11121301-02A	EX-1	Aqueous	2
11121301-03A	EX-2	Aqueous	2
11121301-04A	EX-3	Aqueous	2



Alpha Analytical, Inc.

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

Date:
20-Dec-11

QC Summary Report

Work Order:
11121301

Method Blank

Type: MBLK Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\111216\11121604.D

Batch ID: MS10W1216B

Analysis Date: 12/16/2011 10:19

Sample ID: MBLK MS10W1216B

Units: µg/L

Run ID: MSD_10_111216A

Prep Date: 12/16/2011 10:19

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		10		100	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	10		10		100	70	130			

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\111216\11121603.D

Batch ID: MS10W1216B

Analysis Date: 12/16/2011 09:57

Sample ID: GLCS MS10W1216B

Units: µg/L

Run ID: MSD_10_111216A

Prep Date: 12/16/2011 09:57

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	357	50	400		89	70	130			
Surr: 1,2-Dichloroethane-d4	10.3		10		103	70	130			
Surr: Toluene-d8	10.6		10		106	70	130			
Surr: 4-Bromofluorobenzene	10.5		10		105	70	130			

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\111216\11121614.D

Batch ID: MS10W1216B

Analysis Date: 12/16/2011 14:30

Sample ID: 11121301-04AGS

Units: µg/L

Run ID: MSD_10_111216A

Prep Date: 12/16/2011 14:30

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1590	250	2000	104	74	51	144			
Surr: 1,2-Dichloroethane-d4	51.8		50		104	70	130			
Surr: Toluene-d8	52.3		50		105	70	130			
Surr: 4-Bromofluorobenzene	53.7		50		107	70	130			

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\111216\11121615.D

Batch ID: MS10W1216B

Analysis Date: 12/16/2011 14:52

Sample ID: 11121301-04AGSD

Units: µg/L

Run ID: MSD_10_111216A

Prep Date: 12/16/2011 14:52

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1910	250	2000	104	90	51	144	1588	18.2(29)	
Surr: 1,2-Dichloroethane-d4	52.3		50		105	70	130			
Surr: Toluene-d8	53.3		50		107	70	130			
Surr: 4-Bromofluorobenzene	53.6		50		107	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:
20-Dec-11

QC Summary Report

Work Order:
11121301

Method Blank

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

File ID: C:\HPCHEM\MS10\DATA\111216\11121604.D

Batch ID: **MS10W1216A**

Analysis Date: **12/16/2011 10:19**

Sample ID: **MBLK MS10W1216A**

Units: **µg/L**

Run ID: **MSD_10_111216A**

Prep Date: **12/16/2011 10:19**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	10		10		100	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	10		10		100	70	130			

Laboratory Control Spike

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

File ID: C:\HPCHEM\MS10\DATA\111216\11121602.D

Batch ID: **MS10W1216A**

Analysis Date: **12/16/2011 09:35**

Sample ID: **LCS MS10W1216A**

Units: **µg/L**

Run ID: **MSD_10_111216A**

Prep Date: **12/16/2011 09:35**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.2	0.5	10		92	65	140			
Benzene	9.87	0.5	10		99	70	130			
Toluene	9.5	0.5	10		95	80	120			
Ethylbenzene	8.89	0.5	10		89	80	120			
m,p-Xylene	9.25	0.5	10		93	70	130			
o-Xylene	9.09	0.5	10		91	70	130			
Surr: 1,2-Dichloroethane-d4	11		10		110	70	130			
Surr: Toluene-d8	10.8		10		108	70	130			
Surr: 4-Bromofluorobenzene	10.5		10		105	70	130			

Sample Matrix Spike

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

File ID: C:\HPCHEM\MS10\DATA\111216\11121612.D

Batch ID: **MS10W1216A**

Analysis Date: **12/16/2011 13:45**

Sample ID: **11121301-04AMS**

Units: **µg/L**

Run ID: **MSD_10_111216A**

Prep Date: **12/16/2011 13:45**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	150	1.3	50	84.28	132	47	150			
Benzene	57.9	1.3	50	2.37	111	59	138			
Toluene	52.5	1.3	50	0	105	68	130			
Ethylbenzene	49.2	1.3	50	0	98	68	130			
m,p-Xylene	50.6	1.3	50	0	101	68	131			
o-Xylene	50.9	1.3	50	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	58		50		116	70	130			
Surr: Toluene-d8	53		50		106	70	130			
Surr: 4-Bromofluorobenzene	54.7		50		109	70	130			

Sample Matrix Spike Duplicate

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

File ID: C:\HPCHEM\MS10\DATA\111216\11121613.D

Batch ID: **MS10W1216A**

Analysis Date: **12/16/2011 14:08**

Sample ID: **11121301-04AMSD**

Units: **µg/L**

Run ID: **MSD_10_111216A**

Prep Date: **12/16/2011 14:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	149	1.3	50	84.28	128	47	150	150.4	1.2(40)	
Benzene	54.2	1.3	50	2.37	104	59	138	57.87	6.5(21)	
Toluene	49.5	1.3	50	0	99	68	130	52.48	5.8(20)	
Ethylbenzene	46.2	1.3	50	0	92	68	130	49.21	6.2(20)	
m,p-Xylene	47.8	1.3	50	0	96	68	131	50.63	5.9(20)	
o-Xylene	48.2	1.3	50	0	96	70	130	50.93	5.5(20)	
Surr: 1,2-Dichloroethane-d4	56.8		50		114	70	130			
Surr: Toluene-d8	54		50		108	70	130			
Surr: 4-Bromofluorobenzene	54.9		50		110	70	130			

Comments:

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

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

CA
WorkOrder : STR11121301
Report Due By : 5:00 PM On : 20-Dec-11

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

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

EDD Required : Yes

Sampled by : Vince Z.

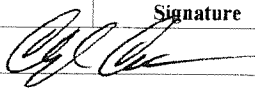
PO :
 Client's COC # : 55705 Job : Olympic

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

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests				Sample Remarks		
				Alpha	Sub	TAT	TPH/P_W	VOC_W					
STR11121301-01A	MW-4	AQ	12/12/11 10:58	5	0	5	GAS-C	BTXE/M_C					
STR11121301-02A	EX-1	AQ	12/12/11 09:41	5	0	5	GAS-C	BTXE/M_C					
STR11121301-03A	EX-2	AQ	12/12/11 10:50	5	0	5	GAS-C	BTXE/M_C					
STR11121301-04A	EX-3	AQ	12/12/11 10:07	5	0	5	GAS-C	BTXE/M_C					

Comments: Security seals intact. Frozen Ice. :

Logged in by:	Signature	Print Name	Company	Date/Time
		Cheryl Gamble	Alpha Analytical, Inc.	12/13/11 10:08

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

Billing Information:

Company Name Stratus Env.
 Attn: Steve Carter
 Address 3330 Cameron Park Dr #550
 City, State, Zip Cameron Park CA
 Phone Number 530-676-6004 Fax 530-676-6005



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

Samples Collected From Which State?

AZ ___ CA NV ___ WA ___ DOD Site ___
 ID ___ OR ___ OTHER ___ Page # 1 of 1

Time Sampled		Date Sampled	Matrix* See Key Below	PO #	Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Analyses Required						Data Validation Level: III or IV	
										Report Attention / Project Manager						EDD / EDF? YES <input checked="" type="checkbox"/> NO ___	
										Name: <u>Steve Carter</u>						Global ID # <u>20600182256</u>	
										Email: _____						REMARKS	
										Phone: _____ Mobile: _____							
1058	12/12		AQ		STR11121301-01A	MW-4	Std		5V	X	X	X					
0941	2		AQ		FOR -02A	EX-1	2		2	X	X	X					
1050	2		AQ		-03A	2 2	2		2	X	X	X					
1007	2		AQ		-04A	2 3	2		2	X	X	X					
LAB USE ONLY																	

ADDITIONAL INSTRUCTIONS:

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

Relinquished by: (Signature/Affiliation) <u>Vivie Zolubra</u>	Received by: (Signature/Affiliation) <u>Wade Delva</u>	Date: <u>12-12-11</u>	Time: <u>14:00</u>
Relinquished by: (Signature/Affiliation) <u>Wade Delva</u> 12-12-11 1500	Received by: (Signature/Affiliation) <u>[Signature]</u> Alpha	Date: <u>12/13/11</u>	Time: <u>09:48</u>
Relinquished by: (Signature/Affiliation) _____	Received by: (Signature/Affiliation) _____	Date: _____	Time: _____

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

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

APPENDIX D

**GEOTRACKER ELECTRONIC SUBMITTAL
CONFIRMATIONS**

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

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

<u>Submittal Type:</u>	GEO_WELL
<u>Submittal Title:</u>	GeoWell 12-12-11
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	GEO_WELL.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	12.186.106.98
<u>Submittal Date/Time:</u>	12/21/2011 8:16:04 AM
<u>Confirmation Number:</u>	8173596978

Copyright © 2011 State of California

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

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

<u>Submittal Type:</u>	EDF - Monitoring Report - Quarterly
<u>Submittal Title:</u>	Analytical 12-12-11
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	11121301_EDF.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	12.186.106.98
<u>Submittal Date/Time:</u>	12/28/2011 9:31:31 AM
<u>Confirmation Number:</u>	5846663713

[VIEW QC REPORT](#)

[VIEW DETECTIONS REPORT](#)

Copyright © 2011 State of California