

RECEIVED

2:06 pm, Jan 31, 2008

Alameda County
Environmental Health

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

January 29, 2008
Project No. 2007-0057-01

Mr. Barney Chan
Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502
(via GeoTracker)

Re: Quarterly Groundwater Monitoring Report, Fourth Quarter 2007, for former USA Service Station No. 57, located at 10700 MacArthur Boulevard, Oakland, CA (LOP No. RO0000232)


Dear Mr. Chan:

Stratus Environmental, Inc. (Stratus), on behalf of Moller Investment Group, Inc. (MIGI), is submitting the attached report, which presents the results of fourth quarter 2007 quarterly monitoring and sampling program, and an update on remediation efforts at the former USA Service Station No. 57, located at 10700 MacArthur Boulevard, Oakland, California (Figure 1). This report has been prepared in compliance with Alameda County Department of Environmental Health (ACDEH) requirements for underground storage tank (UST) investigations.

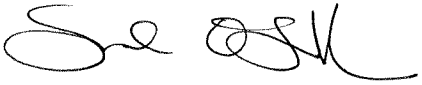
If you have any questions regarding this report, please contact Scott Bittinger at (530) 676-2062.

Sincerely,

STRATUS ENVIRONMENTAL, INC.


Gowri S. Kowtha, P.E.
Principal Engineer




Scott G. Bittinger, P.G. FOR
Project Manager

Attachment: Quarterly Groundwater Monitoring Report, Fourth Quarter 2007

cc: Mr. Charles Miller, Moller Investment Group, Inc.
Mr. John Jay, Jay-Phares Corporation
Mr. Peter McIntyre, AEI Consultants

Date January 29, 2008

FORMER USA GASOLINE QUARTERLY GROUNDWATER MONITORING REPORT

Facility No: 57 Address: 10700 MacArthur Blvd., Oakland, California
MIGI Project Supervisor: Charles Miller
Consulting Co./Contact Person: Stratus Environmental, Inc./ Scott Bittinger, P.G.
Consultant Project No: 2007-0057-01
Primary Agency/Regulatory ID No: Barney Chan, Alameda County Department of Environmental Health / RO0000232

WORK PERFORMED THIS QUARTER (Fourth 2007):

1. Stratus measured groundwater elevations and collected groundwater samples from wells S-1, S-2, MW-3 through MW-5, MW-7, and MW-8 on October 15, 2007. Wells EX-1 through EX-4 are currently being used for extraction and therefore were not monitored or sampled during this monitoring event.
2. Stratus submitted a *Well Installation and Destruction Report* (dated October 15, 2007) summarizing the field activities and analytical results associated with the installation of wells AS-1 and AS-2 and the destruction of well MW-6.
3. Combined DPE and AS was conducted between September 4, 2007 and November 14, 2007. Six site visits were conducted to operate and maintain system, collect field data, and to collect samples.
4. Stratus prepared and submitted a letter (*Notification of DPE Event Extension*, dated November 12, 2007) to the Bay Area Air Quality Management District (BAAQMD) to notify them regarding an extension of the dual phase extraction (DPE) and air sparge (AS) event at the site for an additional two months.
5. The seventh DPE-AS petroleum hydrocarbon mass removal event (start-up on September 4, 2007) was discontinued on November 14, 2007, due to equipment malfunction and has since not been restarted.
6. The oxygen injection (iSOC™) system was shutdown on September 4, 2007.
7. Stratus compiled and evaluated groundwater monitoring data.

WORK PROPOSED FOR NEXT QUARTER (First 2008):

1. The next sampling event is tentatively scheduled for January 2008. Groundwater samples will be collected for laboratory analysis from wells S-1, S-2, MW-3 through MW-5, MW-7, MW-8, and EX-1 through EX-4.
2. Groundwater samples will be analyzed for gasoline range organics (GRO) using U.S. Environmental Protection Agency Method (EPA) Method SW8015B/DHS Luft Manual, and for benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tertiary butyl ether (MTBE), tertiary butyl alcohol (TBA), ethyl tertiary butyl ether (ETBE), di-isopropyl ether (DIPE), tertiary amyl methyl ether (TAME), 1,2-dichloroethane (1,2-DCA), and 1,2-dibromoethane (EDB) using EPA Method SW8260B.
3. Stratus will prepare and submit a *Self-Monitoring Report for July 2007 to December 2007* to the East Bay Municipal Utilities District (EBMUD).

4. Stratus will prepare and submit a report summarizing the findings of the seventh DPE-AS petroleum hydrocarbon mass removal event to the ACHCSA.
5. Stratus will likely conduct an additional DPE-AS event once an alternative power supply can be obtained at the site. Stratus has requested electrical service for the site from PG&E.

Current Phase of Project:	Monitoring / Interim Remediation
Frequency of Groundwater Sampling:	All Wells = Quarterly
Frequency of Groundwater Monitoring:	Quarterly
Groundwater Sampling Date:	October 15, 2007
Is Free Product (FP) Present on Site:	No
FP Recovered This Quarter:	NA
Cumulative FP Recovered to Date:	NA
Approximate Depth to Groundwater:	10.90 to 21.32 feet below top of well casing
Groundwater Flow Direction:	South-southeast
Groundwater Gradient:	0.04 ft/ft

INTERIM REMEDIATION SYSTEM OPERATION AND PERFORMANCE

Equipment Inventory:	Oxygen Injection System (iSOC™-Manufactured by inVentures Technologies, Inc.)
System Status:	System shutdown on September 4, 2007
Reporting Period:	September 18, 2007 through October 15, 2007
Historical Highest GRO Concentration:	160,000 µg/L (S-2, 1998)
Historical Highest Benzene Concentration:	13,000 µg/L (EX-2, 2005)
Historical Highest MTBE Concentration:	820 µg/L (MW-3, 1995)
Highest GRO Concentration this Period:	2,000 µg/L (MW-3)
Highest Benzene Concentration this Period:	470 µg/L (MW-3)
Highest MTBE Concentration this Period:	610 µg/L (MW-3)

DISCUSSION:

At the time of the fourth quarter 2007 monitoring event, groundwater elevations had decreased between 0.80 and 2.01 feet in all wells since the previous monitoring event (July 23, 2007). 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 elevation measured in well MW-3 appeared to be anomalous and this well was not used in contour construction. The groundwater flow direction was generally to the south-southeast at an average gradient of approximately 0.04 ft/ft. South-southeast, south, and radial groundwater flow patterns have been observed during previous monitoring events.

GRO, benzene, and MTBE were reported in wells S-2 and MW-3. GRO and MTBE were reported in well MW-7, and MTBE was reported in S-1. The maximum concentrations of GRO (2,000 µg/L), benzene (470 µg/L), and MTBE (610 µg/L) were reported in well MW-3. TBA was reported in wells S-2 (22 µg/L) and MW-3 (840 µg/L). 1,2-DCA was reported in wells S-1 (1.8 µg/L), S-2 (3.5 µg/L), and MW-3 (110 µg/L).

No concentrations of DIPE, ETBE, TAME, or EDB were reported in any of the wells. These results are generally consistent with historical analytical data. Analytical results of GRO, benzene, and MTBE for groundwater samples collected on October 15, 2007, are presented in Figure 3.

REMEDIATION SYSTEM STATUS

System Description

The iSOC™ oxygen injection system is a bioremediation technology that produces high levels of dissolved oxygen for in-situ biodegradation of petroleum hydrocarbon constituents. The iSOC™ system consists of individual injection units (1.62 inches in diameter and approximately 15 inches in length) made of stainless steel, and an industrial grade oxygen cylinder. The individual injections units contain a micro-flow controller that regulates the flow based on the static head and pressure setting at the oxygen cylinder. The injection units also contain micro-porous hollow fibers, which provide a significant mass transfer area and create an ultra saturation zone when oxygen gas pressure is maintained lower than the static groundwater pressure. Each individual injection unit is placed in a monitoring well and connected to a 250 cubic centimeter (cc) oxygen cylinder using a single run ¼-inch diameter tubing.

Operational History and Monitoring Plan

From startup on January 11, 2006 through December 18, 2006, the individual injection units were placed in wells S-1, S-2, and MW-3. During that period, wells EX-1 through EX-3 were used as observation wells to monitor the performance of the remediation system. In December 2006, the iSOC™ units were moved from wells S-1 and MW-3 to wells EX-1 and EX-2. Between December 2006 and September 2007, oxygen injection at wells S-2, EX-1, and EX-2 was continued and wells S-1, MW-3, and EX-3 were used as observation wells. Monitoring wells MW-7 and MW-8 are used as background wells to monitor natural changes in groundwater geochemistry. In September 2007, the oxygen injection system was shutdown to facilitate DPE using wells EX-1 through EX-4 and AS using wells AS-1 and AS-2. The following field and laboratory parameters were monitored periodically (till October 2007) to evaluate and optimize the performance of the oxygen injection system.

Field Parameters: Depth to water, pH, dissolved oxygen (DO), oxidation/reduction potential (ORP), specific conductivity, and temperature.

Laboratory Parameters: GRO, BTEX, oxygenates, BOD, total and ferrous iron, heterotrophic plate counts, total organic carbon, total dissolved solids, nitrates, nitrites, ammonia, sulfates, sulfides, total phosphorus and orthophosphate.

Since system start-up until October 2007, field parameters were collected on a bi-monthly basis, and samples for laboratory analyses were collected on a quarterly basis. A summary of sampling frequencies, field and laboratory parameters, and the potential significance of both are presented as Table 3.

Results

A summary of current and historical field data and laboratory results are presented in Tables 4 and 5, respectively. Graphs illustrating DO levels over time from December 2006 to September 2007 in injection wells (S-2, EX-1, and EX-2) and in observation and background wells (S-1, MW-3, MW-7, and MW-8) are presented as Figures 4 and 5, respectively. Graphs illustrating DO levels over time from January to December 2006 in historic injection wells (S-1, S-2, and MW-3) and in observation and background wells (EX-1, EX-2, MW-7, and MW-8) are presented in Appendix E.

During the fourth quarter 2007, the oxygen injection system remained shutdown to facilitate the ongoing DPE-AS event (initiated on September 4, 2007) at the site. Field parameters were measured on October 2 and October 15, 2007 and samples for laboratory analyses were collected on October 15, 2007.

Graphs illustrating concentrations of GRO, benzene, MTBE, and depth to water variations with time at wells S-1, S-2, and MW-3 are presented in Figures 6 through 8. The dissolved petroleum hydrocarbon concentrations generally appear to be influenced by the groundwater elevation fluctuations. A consistent declining trend in petroleum hydrocarbon concentrations has not been observed in the monitoring wells during the operation of the oxygen injection system.

A combined DPE and AS petroleum hydrocarbon mass removal event was conducted at the site between September 4 and November 14, 2007, using extraction wells EX-1 through EX-4, and air sparge wells AS-1 and AS-2. Between September 4 and November 14, 2007 an applied vacuum in the range of 8" to 15" inches of mercury (Hg) produced influent soil vapor flow rates in the range of 93.3 to 132.6 cubic feet per minute (cfm) and an average groundwater extraction rate of 0.08 gallons per minute (gpm). A total of 690 gallons of extracted groundwater has been treated using the carbon vessels and discharged to the sanitary sewer between September 4 and November 14, 2007.

ATTACHMENTS:

- Table 1 Groundwater Elevation and Analytical Summary
- Table 2 Groundwater Analytical Results for Oxygenates and Additional Compounds
- Table 3 Monitoring Plan Summary
- Table 4 Physical Parameter Summary
- Table 5 Analytical Parameter Summary
- Figure 1 Site Location Map
- Figure 2 Groundwater Elevation Contour Map (Fourth Quarter 2007)
- Figure 3 Groundwater Analytical Summary (Fourth Quarter 2007)
- Figure 4 DO Variation with Time at Injection Wells
- Figure 5 DO Variation with Time at Observation and Background Wells
- Figure 6 GRO, Benzene, MTBE, and Depth to Water Variation with Time at S-1
- Figure 7 GRO, Benzene, MTBE, and Depth to Water Variation with Time at S-2
- Figure 8 GRO, Benzene, MTBE, and Depth to Water Variation with Time at MW-3
- Appendix A Field Data Sheets
- Appendix B Sampling and Analysis Procedures
- Appendix C Certified Analytical Reports and Chain-of-Custody Documentation
- Appendix D GeoTracker Electronic Submittal Information
- Appendix E Historical DO Variation with Time at Injection Wells, and at Observation and Background Wells

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater							
				Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
S-1	02/12/87						630	4.4	3.5	37	NA
	03/03/95	13.10	74.74	61.64	910	5,900	260	7.6	16	14	NA
	07/24/95	12.35		62.39	NA	NA	NA	NA	NA	NA	NA
	11/22/95	19.30	78.68	59.38	460	6,100	13	0.69	0.99	1.1	460*
	12/06/95	19.59		59.09	NA	NA	NA	NA	NA	NA	NA
	01/04/96	19.52		59.16	NA	NA	NA	NA	NA	NA	NA
	01/31/97	15.07		63.61	1,100	200	11	6	3	6	200*
	10/10/97	18.90		59.78	530	2,000	<0.5	2.1	<0.5	<2	230*
	01/20/98	16.79		61.89	1,800	200	<0.5	<0.5	1.5	10	87*
	04/28/98	8.37		70.31	130	7,300	1.9	3.2	<0.5	<0.5	310*
	07/31/98	11.61		67.07	310	2,000	0.54	4.6	3.8	0.82	280*
	06/10/99	14.35		64.33	660	150	0.99	<0.5	<0.5	2.4	80*[1]
	10/18/00	17.56		61.12	<50	330	<0.5	0.93	<0.5	<0.5	44
	03/12/02	16.29		62.39	500	<50	2.8	4.8	0.79	4.4	63
	11/19/02	19.53		59.15	190	NA	<0.50	<0.50	<0.50	<0.50	190
	01/09/03	18.14		60.54	510	NA	1.1	<0.50	0.52	<0.50	11
	04/14/03	18.04		60.64	300	NA	<1.0[2]	<1.0[2]	<1.0[2]	<1.0[2]	27
	07/21/03	20.31		58.37	300	NA	<0.50	<0.50	<0.50	<0.50	11
	10/09/03	19.46		59.22	390	NA	<0.50	<0.50	<0.50	<0.50	8.8
	01/15/04	18.21	79.66	61.45	200	NA	<0.50	<0.50	<0.50	<0.50	6.0
	04/08/04	19.29		60.37	140	NA	<0.50	<0.50	<0.50	<0.50	12
	08/10/04	18.86		60.80	110	NA	4.6	<0.50	<0.50	0.51	73
	11/11/04	19.81		59.85	160	NA	<0.50	<0.50	<0.50	<0.50	150
	01/19/05	18.12		61.54	440	NA	<0.50	<0.50	1.4	<0.50	140
	04/14/05	13.94		65.72	320	NA	<0.50	<0.50	<0.50	<0.50	120
	07/19/05	14.11		65.55	240	NA	6.1	<0.50	0.60	<0.50	60
	10/24/05	16.53		63.13	320	NA	5.0	<0.50	1.1	<0.50	37

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
 10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
S-1	02/02/06	15.27		64.39	<50	NA	<0.50	<0.50	<0.50	<0.50	45
Cont.	04/27/06	9.59		70.07	<50	NA	<0.50	<0.50	<0.50	<0.50	7.7
	07/12/06	11.00		68.66	<50	NA	<0.50	<0.50	<0.50	<0.50	12
	10/17/06	14.54		65.12	<50	NA	<0.50	<0.50	<0.50	<0.50	1.6
	01/08/07	15.87		63.79	260	NA	4.6	<0.50	<0.50	<0.50	15
	04/09/07	16.06		63.60	300	NA	<0.50	<0.50	<0.50	<0.50	22
	04/23/07	16.31		63.35	NA	NA	NA	NA	NA	NA	NA
	07/23/07	17.86		61.80	110	NA	<0.50	<0.50	<0.50	<0.50	52
	10/15/07	19.22		60.44	<50	NA	<0.50	<0.50	<0.50	<0.50	50

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
S-2	02/12/87		Sheen				3,400	3,800	1,300	11,000	NA
	03/03/95	15.39	76.86	61.47	24,000	6,000	1,900	440	600	2,500	NA
	07/24/95	14.47		62.39	NA	NA	NA	NA	NA	NA	NA
Sheen	11/22/95	21.52	80.93	59.41	NA	NA	NA	NA	NA	NA	NA
	12/06/95	21.78		59.15	NA	NA	NA	NA	NA	NA	NA
	01/04/96	21.75		59.18	NA	NA	NA	NA	NA	NA	NA
	01/31/97	17.25		63.68	NA	NA	NA	NA	NA	NA	NA
Sheen	10/10/97	21.21		59.72	13,000	<50	260	38	190	280	600*
Sheen	01/20/98	19.07		61.86	1,900	2,300	4.6	6.3	<0.5	4.6	190*
	04/28/98	10.47		70.46	22,000	<100	980	160	320	680	570*
	07/31/98	13.71		67.22	160,000	<50	950	290	550	1,700	550*
	11/02/98	17.31		63.62	14,000	<500	170	70	170	230	490*
	06/10/99	16.48		64.45	17,000	<50	650	230	<25	750	490*[1]
	10/18/00	19.70		61.23	4,400	<50	2	64	5.1	12	270
	03/12/02	18.56		62.37	5,100	660	62	44	52	78	430
	11/19/02	21.70		59.23	26,000	NA	1,400	180	520	340	750
	01/09/03	20.37		60.56	16,000	NA	120	32	76	214	270
	04/14/03	19.93		61.00	16,000	NA	160	76	210	290	400
	07/21/03	22.00		58.93	9,700	NA	270	90	200	277	410
	10/09/03	21.58		59.35	10,000	NA	39	9.2	52	26.5	180
	01/15/04	20.44	81.90	61.46	6,300	NA	21	<2.0 [3]	20	3.1	130
	04/08/04	17.15		64.75	13,000	NA	160	76	170	231	430
	08/10/04	20.98		60.92	10,000	NA	76	13	<5.0[3]	500	92
	11/11/04	21.95		59.95	20,000	NA	530	240	370	1,730	420
	01/19/05	20.33		61.57	17,000	NA	590	150	250	990	580
	04/14/05	16.17		65.73	20,000	NA	830	230	570	1,980	510
	07/19/05	16.25		65.65	970	NA	48	13	16	57	72
	10/24/05	18.07		63.83	1,200	NA	100	13	52	41	69

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
 10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
S-2	02/02/06	17.26		64.64	2,000	NA	17	12	26	108	340
Cont.	04/27/06	11.55		70.35	130	NA	5.1	1.1	2.8	8.8	81
	07/12/06	12.98		68.92	140	NA	<0.50	<0.50	<0.50	0.77	180
	10/17/06	16.59		65.31	130	NA	0.98	<0.50	1.1	2.20	160
	01/08/07	18.21		63.69	69	NA	<0.50	<0.50	<0.50	<0.50	64
	04/09/07	18.29		63.61	360	NA	1.4	1.5	2.2	9.8	270
	07/23/07	20.00		61.90	<50	NA	<0.50	<0.50	<0.50	<0.50	7.7
	10/15/07	21.32		60.58	260	NA	53	0.92	<0.50	1.0	86

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater							
				Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-3	03/03/95	13.99	76.30	62.31	2,500	1,600	540	92	36	200	NA
	07/24/95	13.33		62.97	NA	NA	NA	NA	NA	NA	NA
	11/22/95	20.94	80.32	59.38	14,000	5,400	5,700	230	430	650	820*
	12/06/95	17.48		62.84	NA	NA	NA	NA	NA	NA	NA
	01/04/96	20.01		60.31	NA	NA	NA	NA	NA	NA	NA
	01/31/97	16.63		63.69	1,100	<50	130	8	5	5	NA
	10/10/97	20.62		59.70	3,400	1,100	830	4	100	<10	160*
	01/20/98	15.40		64.92	3,900	550	7.9	4.1	<0.5	3.7	<5.0*
	04/28/98	10.51		69.81	800	1,000	82	5.2	5.7	5.4	240*
	07/31/98	13.46		66.86	2,200	610	510	7.6	16	5.27	310*
	11/02/98	17.11		63.21	4,900	1,600	220	16	13	13.7	180*
	06/10/99	15.24		65.08	1,000	120	<0.5	<0.5	<0.5	1.1	120*[1]
	10/18/00	15.41		64.91	<50	<50	<0.5	<0.5	<0.5	<0.5	12
	04/08/04	13.70		66.62	<50	NA	<0.50	<0.50	<0.50	<0.50	19
	08/10/04	16.96		63.36	580	NA	19	<1.0[3]	<1.0[3]	3.3	300
	11/11/04	17.40		62.92	3,000	NA	810	<5.0[3]	43	<5.0[3]	690
	01/19/05	13.28		67.04	92	NA	18	<0.50	0.77	<0.50	17
	04/14/05	8.73		71.59	<50	NA	0.52	<0.50	<0.50	<0.50	11
	07/19/05	11.94		68.38	390	NA	82	2.3	1.8	9.2	200
	10/24/05	14.70	77.27	62.57	2,100	NA	460	6.9	7.7	11.9	300
	02/02/06	16.48		60.79	530	NA	11	<0.50	1.2	1.1	560
	04/27/06	7.85		69.42	<300[3]	NA	<1.5[3]	<1.5[3]	<1.5[3]	<1.5[3]	180
	07/12/06	10.08		67.19	250	NA	5.5	<1.0[3]	<1.0[3]	<1.0[3]	190
	10/17/06	12.80		64.47	93	NA	8.8	<0.50	<0.50	<0.50	100
	01/08/07	21.68		55.59	200	NA	14	<0.50	0.89	0.95	85
	04/09/07	12.24		65.03	1,400	NA	380	6.6	22	12.5	600
	04/23/07	12.53		64.74	NA	NA	NA	NA	NA	NA	NA
	07/23/07	14.44		62.83	1,600	NA	420	<2.5[3]	27	<2.5[3]	630
	10/15/07	16.45		60.82	2,000	NA	470	2.7	23	<2.5[3]	610

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to	Well	Groundwater							
		Water (feet)	Elevation (ft msl)	Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-4	11/22/95	14.99	76.42	61.43	<50	200	<0.5	1.5	<0.5	1.7	6.4*
	12/06/95	11.21		65.21	NA	NA	NA	NA	NA	NA	NA
	01/04/96	14.62		61.80	NA	NA	NA	NA	NA	NA	NA
	01/31/97	8.18		68.24	<50	<50	<0.5	2	<0.5	2	11*
	10/10/97	14.14		62.28	<50	<50	<0.5	<0.5	<0.5	<2	<5.0*
	01/20/98	7.05		69.37	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	04/28/98	5.88		70.54	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	07/31/98	8.40		68.02	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	11/02/98	16.08		60.34	NA	NA	NA	NA	NA	NA	NA
	06/10/99	14.81		61.61	NA	NA	NA	NA	NA	NA	NA
	10/18/00	12.71		63.71	<50	<50	<0.5	0.59	0.82	0.53	<5.0*
	03/12/02	8.92		67.50	<50	<50	<0.5	0.61	0.72	2.5	1.8
	11/19/02	13.24		-13.24	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/09/03	11.00		-11.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/14/03	11.03		-11.03	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/21/03	13.10		-13.10	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/09/03	13.33		-13.33	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/15/04	12.14		-12.14	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/08/04	10.76		65.66	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	08/10/04	12.62		63.80	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
11/11/04	11.93		64.49	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
01/19/05	10.34		66.08	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
04/14/05	5.66	[4]	NM	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
07/19/05	7.55	[4]	NM	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
10/24/05	10.12	76.26	66.14	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
 10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-4	02/02/06	6.99		69.27	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
Cont.	04/27/06	NM		NM			Well Not Monitored or Sampled - Covered				
	07/12/06	6.05		70.21	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/17/06	NM		NM			Well Not Monitored or Sampled - Covered				
	01/08/07	8.82		67.44	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/09/07	8.52		67.74	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/23/07	10.10		66.16	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/15/07	10.90		65.36	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-5	11/22/95	19.56	80.52	60.96	<50	280	<0.5	1.8	<0.5	3	2.2*
	12/06/95	15.84		64.68	NA	NA	NA	NA	NA	NA	NA
	01/04/96	19.36		61.16	NA	NA	NA	NA	NA	NA	NA
	01/31/97	13.31		67.21	80	<50	<0.5	0.6	<0.5	2	6*
	10/10/97	17.80		62.72	<50	<50	<0.5	<0.5	<0.5	<2	<5*
	01/20/98	12.58		67.94	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	04/28/98	9.45		71.07	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	07/31/98	7.38		73.14	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	11/02/98	15.98		64.54	<50	<500	<0.5	<0.5	<0.5	<0.5	<5.0*
	06/10/99	14.60		65.92	NA	NA	NA	NA	NA	NA	NA
	10/18/00	17.77		62.75	<50	<50	<0.5	0.75	<0.5	0.79	28
	03/12/02	15.72		64.80	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	11/19/02	NM		NM							
	01/09/03	NM		NM							
	04/14/03	NM		NM							
	07/21/03	NM		NM							
	10/09/03	NM		NM							
	01/15/04	NM		NM							
	04/08/04	16.80		63.72	<100	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	08/10/04	18.58		61.94	89	NA	<0.50	<0.50	<0.50	<0.50	<0.50
11/11/04	NM		NM								
01/19/05	NM		NM								
04/14/05	10.57	[4]	NM	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
07/19/05	11.77	[4]	NM	<100[2]	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
10/24/05	14.29	80.78	66.49	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
02/02/06	NM		NM								
04/27/06	7.42		73.36	<100[2]	NA	<0.50	<0.50	<0.50	<0.50	<0.50	

Well Not Monitored or Sampled - Under Soil Pile

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
 10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-5	07/12/06	NM		NM							
Cont.	10/17/06	NM		NM							
	01/08/07	NM		NM							
	04/09/07	NM		NM							
	04/23/07	11.90		68.88	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/23/07	13.98		66.80	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/15/07	14.97		65.81	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
MW-6	10/15/07	NM		NM							
											Well Destroyed

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater							Total	
				Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	
MW-7	11/22/95	19.38	78.86	59.48	<50	180	<0.5	0.57	<0.5	0.62	0.73*	
	12/06/95	19.72		59.14	NA	NA	NA	NA	NA	NA	NA	
	01/04/96	19.76		59.10	NA	NA	NA	NA	NA	NA	NA	
	01/31/97	15.25		63.61	70	<50	0.7	1	<0.5	<1	8*	
	10/10/97	19.03		59.83	<50	<50	<0.5	<0.5	<0.5	<2	15*	
	01/20/98	17.11		61.75	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	
	04/28/98	8.22		70.64	<50	<50	<0.5	<0.5	<0.5	<0.5	9.3*	
	07/31/98	11.53		67.33	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	
	11/02/98	15.15		63.71	NA	NA	NA	NA	NA	NA	NA	
	06/10/99	14.23		64.63	NA	NA	NA	NA	NA	NA	NA	
	10/18/00	17.59		61.27	NA	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	
	03/12/02	16.54		62.32	<50	<50	<0.5	<0.5	<0.5	<0.5	2.9	
	11/19/02	19.59		-19.59	<50	NA	<0.50	<0.50	<0.50	<0.50	3.8	
	01/09/03	18.38		-18.38	<50	NA	<0.50	<0.50	<0.50	<0.50	2.7	
	04/14/03	18.17		-18.17	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
	07/21/03	20.29		-20.29	<50	NA	<0.50	<0.50	<0.50	<0.50	1.8	
	10/09/03	19.48		-19.48	<50	NA	<0.50	<0.50	<0.50	<0.50	2.9	
	01/15/04	18.45	79.81	61.36	<50	NA	<0.50	<0.50	<0.50	<0.50	2.6	
	04/08/04	17.28		62.53	<50	NA	<0.50	<0.50	<0.50	<0.50	0.81	
	08/10/04	18.85		60.96	<50	NA	<0.50	<0.50	<0.50	<0.50	2.1	
11/11/04	19.85		59.96	<50	NA	<0.50	<0.50	<0.50	<0.50	1.0		
01/19/05	19.59		60.22	<50	NA	<0.50	<0.50	<0.50	<0.50	1.5		
04/14/05	14.17		65.64	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50		
07/19/05	14.16		65.65	<50	NA	<0.50	<0.50	<0.50	<0.50	1.9		
10/24/05	16.65		63.16	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50		

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
 10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-7	02/02/06	15.39		64.42	<50	NA	<0.50	<0.50	<0.50	<0.50	1.3
Cont.	04/27/06	8.51		71.30	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/12/06	9.94		69.87	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/17/06	13.46		66.35	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/08/07	15.03		64.78	<50	NA	<0.50	<0.50	<0.50	<0.50	0.99
	04/09/07	15.27		64.54	<50	NA	<0.50	<0.50	<0.50	<0.50	0.54
	07/23/07	16.96		62.85	<50	NA	<0.50	<0.50	<0.50	<0.50	1.7
	10/15/07	18.29		61.52	750	NA	<0.50	<0.50	<0.50	<0.50	0.81

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
 10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater							
				Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-8	11/22/95	33.33	79.55	46.22	<50	360	<0.5	1.3	<0.5	2.1	2.1*
	12/06/95	17.57		61.98	NA	NA	NA	NA	NA	NA	NA
	01/04/96	20.08		59.47	NA	NA	NA	NA	NA	NA	NA
	01/31/97	18.72		60.83	80	<50	0.6	1	<0.5	1	8*
	10/10/97	20.26		59.29	50	<50	<0.5	<0.5	<0.5	<2	<5*
	01/20/98	15.91		63.64	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	04/28/98	10.39		69.16	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	07/31/98	12.93		66.62	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	11/02/98	16.90		62.65	<50	<500	<0.5	<0.5	<0.5	<0.5	<5.0*
	06/10/99	14.98		64.57	NA	NA	NA	NA	NA	NA	NA
	10/18/00	16.27		63.28	<50	<50	<0.5	<0.5	1.1	6.3	8.6*
	03/12/02	14.56		64.99	<50	<50	<0.5	0.63	0.55	1.7	0.94
	11/19/02	21.14		-21.14	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/09/03	17.90		-17.90	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/14/03	17.84		-17.84	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/21/03	19.79	-19.79	<50	<100[2]	NA	<0.50	<0.50	<0.50	<0.50	
	10/09/03	21.02	-21.02	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
	01/15/04	18.10	80.50	62.40	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/08/04	17.51		62.99	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	08/10/04	20.76		59.74	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	11/11/04	21.38		59.12	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/19/05	17.20		63.30	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/14/05	12.68		67.82	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
07/19/05	15.78	64.72		<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
10/24/05	18.68	61.82		<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
 10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater							
				Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-8	02/02/06	14.57		65.93	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
Cont.	04/27/06	10.48		70.02	<100[2]	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/12/06	13.08		67.42	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/17/06	15.96		64.54	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/08/07	16.70		63.80	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/09/07	16.25		64.25	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/23/07	18.66		61.84	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/15/07	20.36		60.14	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
 10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater							
				Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
EX-1	10/24/05	14.37	77.72	63.35	5,000	NA	140	8.4	20	195	360
	02/02/06	1.68		76.04	3,000	NA	3.6	<0.50	14	55.5	0.63
	04/27/06	1.76		75.96	130	NA	0.98	<0.50	<0.50	2.42	<0.50
	07/12/06	6.88		70.84	2,600	NA	760	15	34	104	200
	10/17/06	9.79		67.93	3,300	NA	810	<5.0[3]	32	68	170
	01/08/07	5.47		72.25	910	NA	9.1	<0.50	2.7	5.9	1.6
	04/09/07	4.88		72.84	140	NA	1.3	<0.50	1.2	0.93	<0.50
	07/23/07	12.17		65.55	220	NA	7.4	<0.50	1.7	<0.50	0.55
	10/15/07	NM		NM				Not Sampled			
EX-2	10/24/05	16.00	76.96	60.96	42,000	NA	13,000	1,300	1,300	2,580	410
	02/02/06	8.18		68.78	28,000	NA	9,000	1,300	1,100	3,340	200
	04/27/06	5.22		71.74	24,000	NA	4,000	1,800	650	3,900	86
	07/12/06	7.32		69.64	22,000	NA	6,000	1,300	810	3,280	190
	10/17/06	9.22		67.74	31,000	NA	10,000	1,800	1,200	3,400	230
	01/08/07	10.35		66.61	14,000	NA	4,100	440	440	1,140	90
	04/09/07	9.67		67.29	620	NA	160	17	24	58	6.0
	07/23/07	11.46		65.50	610	NA	150	7.5	29	38	5.2
	10/15/07	NM		NM				Not Sampled			
EX-3	10/24/05	14.85	78.87	63.02	20,000	NA	220	21	660	3,110	<10[3]
	02/02/06	NM		NM			Well Not Monitored or Sampled - Under Soil Pile				
	04/27/06	NM		NM			Well Not Monitored or Sampled - Covered				
	07/12/06	9.01		68.86	5,700	NA	79	19	120	657	<2.5[3]
	10/17/06	NM		NM			Well Not Monitored or Sampled - Covered				
	01/08/07	12.31		66.56	970	NA	8.3	0.81	19	19.8	<0.50
	04/09/07	10.78		68.09	700	NA	8.9	<0.50	11	6.5	<0.50
	07/23/07	12.82		66.05	1,500	NA	14	<0.50	21	8.9	<0.50
	10/15/07	NM		NM			Not Sampled				

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
 10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
EX-4	10/24/05	14.93	77.96	63.03	1,900	NA	390	69	8.8	90	11
	02/02/06	NM		NM		Well Not Monitored or Sampled - Under Soil Pile					
	04/27/06	NM		NM		Well Not Monitored or Sampled - Covered					
	07/12/06	7.37		70.59	6,400	NA	1,400	400	120	1,220	35
	10/17/06	NM		NM		Well Not Monitored or Sampled - Covered					
	01/08/07	12.92		65.04	3,500	NA	840	51	22	162	25
	04/09/07	12.43		65.53	4,600	NA	730	78	83	410	6.5
	07/23/07	14.20		63.76	7,200	NA	2,600	180	100	560	29
	10/15/07	NM		NM		Not Sampled					

Note:

* = MTBE analyzed using EPA Method 8020/8021B

MTBE = Methyl tert-butyl ether

TPHD = Total petroleum hydrocarbons as diesel

GRO = Gasoline Range Organics C4-C13

GRO analyzed using EPA Method 8015B and the remaining analytes using EPA Method 8260B

msl = Mean sea level

µg/L = micrograms per liter

NA = Not analyzed

NM = Not measured

[1] Laboratory indicates the chromatogram does not match the diesel hydrocarbon range pattern.

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

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

[4] Casing elevation invalid - well casing modified (cut) on April 12, 2005.

[5] Reported as total petroleum hydrocarbons as gasoline (TPHG C3-C14+) prior to second quarter 2006.

Monitoring wells surveyed by Morrow Surveying on February 10, 2004, and again on November 29, 2005.

Data prior to November 19, 2002 provided by GHH Engineering.

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
S-1	11/19/02	190	<10	<1.0	<1.0	<1.0	NA	NA	NA	NA
	01/09/03	11	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	04/14/03	27	<20[2]	<2.0[2]	<2.0[2]	<2.0[2]	NA	NA	NA	NA
	07/21/03	11	<10[2]	<1.0	<1.0	<1.0	NA	NA	NA	NA
	10/09/03	8.8	6.4	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	01/15/04	6.0	10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	04/08/04	12	8.5	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	08/10/04	73	28	<1.0	<1.0	<1.0	16	<2.0	<5,000	<5,000
	11/11/04	150	14	<1.0	<1.0	<1.0	7.3	<2.0	<5,000	<5,000
	01/19/05	140	14	<1.0	<1.0	<1.0	3.8	<2.0	<5,000	<5,000
	04/14/05	120	10	<1.0	<1.0	<1.0	1.4	<2.0	<5,000	<5,000
	07/19/05	60	11	<1.0	<1.0	<1.0	9.6	<2.0	<5,000	<5,000
	10/24/05	37	<10	<1.0	<1.0	<1.0	2.2	<2.0	<5,000	<5,000
	02/02/06	45	<10	<1.0	<1.0	<1.0	1.2	<2.0	<5,000	<5,000
	04/27/06	7.7	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/12/06	12	<10	<1.0	<1.0	<1.0	7.9	<2.0	<5,000	<5,000
	10/17/06	1.6	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/08/07	15	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/09/07	22	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/23/07	52	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
10/15/07	50	<10	<1.0	<1.0	<1.0	<1.0	1.8	<2.0	NA	NA

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
S-2	11/19/02	750	<200[1]	<20[1]	<20[1]	<20[1]	NA	NA	NA	NA
	01/09/03	270	<100[1]	<10[1]	<10[1]	<10[1]	NA	NA	NA	NA
	04/14/03	400	95	<5.0[1]	<5.0[1]	<5.0[1]	NA	NA	NA	NA
	07/21/03	410	110	<5.0[1]	<5.0[1]	<5.0[1]	NA	NA	NA	NA
	10/09/03	180	57	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	<20[1]	NA	NA
	01/15/04	130	48	<4.0[1]	<4.0[1]	<4.0[1]	<4.0[1]	<16[1]	NA	NA
	04/08/04	430	130	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	<20[1]	<5,000	<5,000
	08/10/04	92	<100[1]	<10[1]	<10[1]	<10[1]	74	<40[1]	<5,000	<5,000
	11/11/04	420	<200[1]	<20[1]	<20[1]	<20[1]	<20[1]	<80[1]	<5,000	<5,000
	01/19/05	580	200	<5.0[1]	<5.0[1]	<5.0[1]	8.2	<20[1]	<5,000	<5,000
	04/14/05	510	150	<10[1]	<10[1]	<10[1]	<10[1]	<40[1]	<5,000	<5,000
	07/19/05	72	37	<1.0	<1.0	<1.0	38	<2.0	<5,000	<5,000
	10/24/05	69	33	<1.0	<1.0	<1.0	35	<4.0[1]	<5,000	<5,000
	02/02/06	340	150	<1.0	<1.0	<1.0	3.2	<4.0[1]	<5,000	<5,000
	04/27/06	81	<10	<1.0	<1.0	<1.0	1.3	<2.0	<5,000	<5,000
	07/12/06	180	42	<1.0	<1.0	<1.0	5.8	<2.0	<5,000	<5,000
	10/17/06	160	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/08/07	64	<10	<1.0	<1.0	<1.0	2.6	<2.0	<5,000	<5,000
	04/09/07	270	32	<1.0	<1.0	<1.0	1.3	<2.0	<5,000	<5,000
	07/23/07	7.7	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	10/15/07	86	22	<1.0	<1.0	<1.0	3.5	<2.0	NA	NA

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-3	04/08/04	19	7.6	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	08/10/04	300	2,000	2.2	<2.0[1]	<2.0[1]	270	<8.0[1]	<5,000	<5,000
	11/11/04	690	1,400	<10[1]	<10[1]	<10[1]	140	<40[1]	<5,000	<5,000
	01/19/05	17	19	<1.0	<1.0	<1.0	1.4	<2.0	<5,000	<5,000
	04/14/05	11	25	<1.0	<1.0	<1.0	6.2	<2.0	<5,000	<5,000
	07/19/05	200	1,000	<2.0[1]	<2.0[1]	<2.0[1]	240	<8.0[1]	<5,000	<5,000
	10/24/05	300	750	<5.0[1]	<5.0[1]	<5.0[1]	210	<20[1]	<5,000	<5,000
	02/02/06	560	1,300	2.7	<1.0	<1.0	98	<4.0[1]	<5,000	<5,000
	04/27/06	180	330	<3.0[1]	<3.0[1]	<3.0[1]	220	<12[1]	<5,000	<5,000
	07/12/06	190	24	<2.0[1]	<2.0[1]	<2.0[1]	210	<8.0[1]	<5,000	<5,000
	10/17/06	100	50	<1.0	<1.0	<1.0	21	<2.0	<5,000	<5,000
	01/08/07	85	30	<1.0	<1.0	<1.0	22	<2.0	<5,000	<5,000
	04/09/07	600	510	<5.0[1]	<5.0[1]	<5.0[1]	67	<20[1]	<5,000	<5,000
	07/23/07	630	920	<5.0[1]	<5.0[1]	<5.0[1]	99	<20[1]	NA	NA
	10/15/07	610	840	<5.0[1]	<5.0[1]	<5.0[1]	110	<20[1]	NA	NA

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-4	11/19/02	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	01/09/03	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	04/14/03	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	07/21/03	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	10/09/03	<0.50	<5.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	01/15/04	<0.50	7.8	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	04/08/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	08/10/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	11/11/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/19/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/14/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/19/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	10/24/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	02/02/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/27/06				Well Not Monitored or Sampled - Covered					
	07/12/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	10/17/06				Well Not Monitored or Sampled - Covered					
	01/08/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/09/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/23/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	10/15/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-5	11/19/02									
	01/09/03									
	04/14/03									
	07/21/03									
	10/09/03									
	01/15/04									
	04/08/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<4.0[2]	<5,000	<5,000
	08/10/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	11/11/04									
	01/19/05									
	04/14/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/19/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<4.0[2]	<5,000	<5,000
	10/24/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	02/02/06									
	04/27/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<4.0[2]	<5,000	<5,000
	07/12/06									
	10/17/06									
	01/08/07									
	04/09/07									
	04/23/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA
07/23/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
10/15/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-6	10/15/07									

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-7	11/19/02	3.8	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	01/09/03	2.7	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	04/14/03	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	07/21/03	1.8	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	10/09/03	2.9	<5.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	01/15/04	2.6	7.9	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	04/08/04	0.81	9.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	08/10/04	2.1	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	11/11/04	1.0	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/19/05	1.5	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/14/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/19/05	1.9	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	10/24/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	02/02/06	1.3	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/27/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/12/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	10/17/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/08/07	0.99	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/09/07	0.54	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/23/07	1.7	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	10/15/07	0.81	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-8	11/19/02	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	01/09/03	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	04/14/03	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	07/21/03	<0.50	<10[2]	<1.0	<1.0	<1.0	NA	NA	NA	NA
	10/09/03	<0.50	<5.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	01/15/04	<0.50	9.9	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	04/08/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	08/10/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	11/11/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/19/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/14/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/19/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	10/24/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	02/02/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/27/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<4.0[2]	<5,000	<5,000
	07/12/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	10/17/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/08/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/09/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/23/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
10/15/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA	

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
EX-1	10/24/05	360	120	<1.0	<1.0	<1.0	<1.0	<4.0[1]	<5,000	<5,000
	02/02/06	0.63	<10	<1.0	<1.0	<1.0	<1.0	<4.0[1]	<5,000	<5,000
	04/27/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/12/06	200	110	<10[1]	<10[1]	<10[1]	<10[1]	<40[1]	<5,000	<5,000
	10/17/06	170	<100[1]	<10[1]	<10[1]	<10[1]	30	<40[1]	<5,000	<5,000
	01/08/07	1.6	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/09/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/23/07	0.55	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	10/15/07						Not Sampled			
EX-2	10/24/05	410	<2,000[1]	<200[1]	<200[1]	<200[1]	<200[1]	<800[1]	<5,000	<5,000
	02/02/06	200	<1,000[1]	<100[1]	<100[1]	<100[1]	<100[1]	<400[1]	<5,000	<5,000
	04/27/06	86	<500[1]	<50[1]	<50[1]	<50[1]	<50[1]	<200[1]	<5,000	<5,000
	07/12/06	190	<500[1]	<50[1]	<50[1]	<50[1]	<50[1]	<200[1]	<5,000	<5,000
	10/17/06	230	<1,000[1]	<100[1]	<100[1]	<100[1]	400	<400[1]	<5,000	<5,000
	01/08/07	90	<400[1]	<40[1]	<40[1]	<40[1]	<40[1]	<160[1]	<5,000	<5,000
	04/09/07	6.0	<20[1]	<2.0[1]	<2.0[1]	<2.0[1]	<2.0[1]	<8.0[1]	<5,000	<5,000
	07/23/07	5.2	<10	<1.0	<1.0	<1.0	<1.0	<4.0[1]	NA	NA
	10/15/07						Not Sampled			

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
EX-3	10/24/05	<10[1]	<200[1]	<20[1]	<20[1]	<20[1]	<20[1]	<80[1]	<5,000	<5,000
	02/02/06				Well Not Monitored or Sampled - Under Soil Pile					
	04/27/06				Well Not Monitored or Sampled - Covered					
	07/12/06	<2.5[1]	<50[1]	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	<20[1]	<5,000	<5,000
	10/17/06				Well Not Monitored or Sampled - Covered					
	01/08/07	<0.50	12	<1.0	<1.0	<1.0	1.1	<2.0	<5,000	<5,000
	04/09/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/23/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	10/15/07				Not Sampled					
EX-4	10/24/05	11	51	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	<20[1]	<5,000	<5,000
	02/02/06				Well Not Monitored or Sampled - Under Soil Pile					
	04/27/06				Well Not Monitored or Sampled - Covered					
	07/12/06	35	<200[1]	<10[1]	<10[1]	<10[1]	<10[1]	<40[1]	<5,000	<5,000
	10/17/06				Well Not Monitored or Sampled - Covered					
	01/08/07	25	<100[1]	<10[1]	<10[1]	<10[1]	<10[1]	<40[1]	<5,000	<5,000
	04/09/07	6.5	<100[1]	<10[1]	<10[1]	<10[1]	<10[1]	<40[1]	<5,000	<5,000
	07/23/07	29	<200[1]	<20[1]	<20[1]	<20[1]	<20[1]	<80[1]	NA	NA
	10/15/07				Not Sampled					

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
 10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
<p>Note:</p> <p>Oxygenates analyzed using EPA Method 8260B</p> <p>µg/L = micrograms per liter</p> <p>NA = Not analyzed</p> <p>[1] Reporting limits were increased due to high concentrations of target analytes</p> <p>[2] Reporting limits were increased due to sample foaming</p> <p style="text-align: right;"> MTBE = Methyl tertiary butyl ether TBA = Tertiary butyl alcohol DIPE = Di-isopropyl ether ETBE = Ethyl tertiary butyl ether TAME = Tertiary amyl methyl ether 1,2-DCA = 1,2-Dichloroethane EDB = 1,2-Dibromoethane </p>										

Table 3
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California
Monitoring Plan Summary

Parameter	Sampling Frequency	Parameter Significance	Sampling Locations
<u>Field Parameters</u>			
pH	Monthly	Optimum pH range for microbial activity is 6.5 to 7.5.	S-1, MW-3, EX-3, MW-7 MW-8, and all injection wells
Dissolved Oxygen (DO)	Monthly	Oxygen serves as electron acceptor during biodegradation and the microbial activity is directly related to the availability of electron acceptors.	S-1, MW-3, EX-3, MW-7 MW-8, and all injection wells
<u>Laboratory Parameters</u>			
Heterotrophic plate counts	Quarterly	Typical bacterial counts for groundwater range from 10^3 to 10^8 counts per liter and in counts below 10^3 for contaminated groundwater.	S-1, MW-3, EX-3, MW-7 MW-8, and all injection wells
Biochemical Oxygen Demand (BOD)	Quarterly	BOD determines the amount of oxygen required due to biochemical oxidation of organic matter. Increase in BOD is an indication of high oxygen demand (lack of oxygen). A decrease in BOD, accompanied by an increase in DO levels, can be a good indicator of microbial activity in the subsurface.	S-1, MW-3, EX-3, MW-7 MW-8, and all injection wells
Total Iron & Ferrous iron	Quarterly	Oxygen, a by-product of ozone degradation can react with dissolved iron in groundwater to form ferric oxide, a soluble precipitate.	S-1, MW-3, EX-3, MW-7 MW-8, and all injection wells
Petroleum Hydrocarbons & Oxygenates	Quarterly	Chemicals of concern. Baseline and operational concentration levels will be compared in evaluating performance of oxygen injection system.	S-1, MW-3, EX-3, MW-7 MW-8, and all injection wells
Total Organic Carbon (TOC)	Quarterly	TOC is a measure of total concentration of organic carbon that may be available for biodegradation. Carbon from the petroleum hydrocarbons is the primary energy source for microbes.	S-1, MW-3, EX-3, MW-7 MW-8, and all injection wells
Bioparameters (Nitrates, sulfates, & phosphates)	Quarterly	Nitrates, sulfates and phosphates are nutrients required for microbial growth and reproduction.	S-1, MW-3, EX-3, MW-7 MW-8, and all injection wells
Total dissolved solids (TDS)	Quarterly	TDS is a measure of dissolved inorganic constituents and small amounts of organic matter. Precipitation of inorganic constituents in groundwater due to oxygen injection can result in scaling.	S-1, MW-3, EX-3, MW-7 MW-8, and all injection wells

TABLE 4

Physical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen	
S-1	07/19/05	Injection well	14.11	0.44	6.89	NM	681	
	10/24/05	Injection well	16.53	0.95	7.05	NM	503	
	01/11/06	Injection well	16.32	NM	NM	NM	NM	
	01/20/06	Injection well	15.85	61.1	7.04	155	919	
	02/02/06	Injection well	15.27	3.02	7.06	151	1,069	
	02/15/06	Injection well	14.47	26.5	7.08	87	887	
	03/03/06	Injection well	14.20	18	6.69	96	1,004	
	03/24/06	Injection well	13.10	8.8[1]	7.50	322	924	
	04/17/06	Injection well	10.40	18.2	7.10	533	916	
	04/27/06	Injection well	9.59	15.15	7.27	NM	822	
	05/04/06	Injection well	9.55	10.8	7.50	230	808	
	05/16/06	Injection well	9.63	15.1	7.60	133	950	
	06/09/06	Injection well	9.86	34.5	8.09	315	1,100	
	06/30/06	Injection well	10.61	20.8	7.91	183	1,070	
	07/10/06	Injection well	10.82	29.6	8.03	173	949	
	07/12/06	Injection well	11.00	NM	7.48	NM	799	
	08/03/06	Injection well	11.95	18.3	8.60	144	857	
	08/25/06	Injection well	12.73	55	7.79	143	766	
	09/13/06	Injection well	13.44	OR	7.11	NM	NM	
	09/27/06	Injection well	14.03	OR	7.73	184	683	
	10/12/06	Injection well	14.43	OR	7.22	239	1,198	
	10/17/06	Injection well	14.54	11[2]	7.28	NM	1,241	
	11/03/06	Injection well	15.19	14.71[2]	6.43	113	1,225	
	11/20/06	Injection well	15.49	6.5	8.60	381	706	
	[5]	12/18/06	21 feet (to EX-1)	15.89	15.12[2]	6.66	148	1,132
		01/08/07	21 feet (to EX-1)	15.87	1.8	7.39	119	1,156
		01/16/07	21 feet (to EX-1)	15.87	1.8	7.30	119	1,156
		03/14/07	21 feet (to EX-1)	14.68	2.0	7.23	74	985
		03/29/07	21 feet (to EX-1)	15.89	3.1	7.20	80	971
		04/09/07	21 feet (to EX-1)	16.06	1.57	7.72	0	1,076
		04/16/07	21 feet (to EX-1)	16.15	2.5	7.30	147	992
		04/23/07	21 feet (to EX-1)	16.31	6.9	7.30	121	968
		04/26/07	21 feet (to EX-1)	16.24	2.7	7.20	102	953
	05/02/07	21 feet (to EX-1)	16.34	0.26	7.02	139	1,020	
	05/21/07	21 feet (to EX-1)	16.78	0.36	7.06	40	923	
	06/09/07	21 feet (to EX-1)	16.96	0.35	7.11	24	1,002	

TABLE 4**Physical Parameter Summary**

Former USA Service Station No. 57
 10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
S-1	07/09/07	21 feet (to EX-1)	17.64	0.77	7.03	18	1,272
Cont.	07/23/07	21 feet (to EX-1)	17.86	1.09	7.38	162	795
	08/08/07	21 feet (to EX-1)	18.19	6.21	7.07	47	1,293
	08/22/07	21 feet (to EX-1)	18.30	1.0	7.16	38	1,182
[6]	09/04/07	21 feet (to EX-1)	18.57	0.72	7.14	36	1,084
	09/18/07	21 feet (to EX-1)	18.80	1.18	7.23	70	1,096
	10/02/07	21 feet (to EX-1)	19.12	0.54	7.34	11	1,143
	10/15/07	21 feet (to EX-1)	19.22	1.62	7.60	158	980

TABLE 4

Physical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
S-2 (injection well)	07/19/05	Injection well	16.25	0.74	7.24	NM	669
	10/24/05	Injection well	18.07	NM	6.88	NM	490
	01/11/06	Injection well	18.52	NM	NM	NM	NM
	01/20/06	Injection well	18.05	30.1	6.55	166	917
	02/02/06	Injection well	17.26	16.66	6.97	120	2.97
	02/15/06	Injection well	16.61	32.6	7.45	93	850
	03/03/06	Injection well	16.30	23.0	6.79	120	875
	03/24/06	Injection well	14.68	2.8[1]	7.75	283	1,050
	04/17/06	Injection well	12.38	19.0	7.11	521	790
	04/27/06	Injection well	11.55	4.17	7.17	NM	794
	05/04/06	Injection well	11.04	11.2	7.65	192	901
	05/16/06	Injection well	11.47	14.4	7.61	119	933
	06/09/06	Injection well	11.76	33.6	8.10	379	757
	06/30/06	Injection well	12.53	18.5	8.17	168	760
	07/10/06	Injection well	12.77	32.6	8.34	158	727
	07/12/06	Injection well	12.98	NM	7.57	NM	648
	08/03/06	Injection well	13.90	10.3	8.70	126	814
	08/25/06	Injection well	14.73	47.8	7.73	149	679
	09/13/06	Injection well	15.45	OR	6.87	NM	NM
	09/27/06	Injection well	16.03	OR	7.20	193	549
	10/12/06	Injection well	16.45	OR	6.67	241	1,176
	10/17/06	Injection well	16.59	2.71[2]	7.10	NM	1,154
	11/03/06	Injection well	17.21	OR	6.55	120	1,221
	11/20/06	Injection well	17.55	7.1	8.46	428	682
	12/18/06	Injection well	17.97	10.01[2]	6.43	149	1,111
	01/08/07	Injection well	18.21	2.19	7.47	142	1,095
	01/16/07	Injection well	18.21	2.1	7.40	142	1,095
	03/14/07	Injection well	17.95	23.68	7.60	225	976
	03/29/07	Injection well	18.15	25.47	7.70	212	558
	04/09/07	Injection well	18.29	OR	7.73	173	1,079
04/16/07	Injection well	18.34	14.18	7.50	220	962	
04/26/07	Injection well	18.41	15.98	7.50	240	956	
05/02/07	Injection well	18.50	OR	7.29	283	1,009	
05/21/07	Injection well	18.97	OR	7.23	155	901	
06/09/07	Injection well	19.10	OR	7.23	160	957	

TABLE 4**Physical Parameter Summary**

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
S-2	07/09/07	Injection well	19.79	1.14	7.17	145	1,164
Cont.	07/23/07	Injection well	20.00	3.73	7.49	178	756
	08/08/07	Injection well	20.33	OR	7.30	136	1,133
	08/22/07	Injection well	20.44	OR	7.26	111	1,135
[6]	09/04/07	Injection well	20.69	OR	7.28	136	1,115
	09/18/07	Injection well	20.94	0.41	7.10	86	1,043
	10/02/07	Injection well	21.33	0.89	7.35	35	1,050
	10/15/07	Injection well	21.32	2.19	7.49	135	1,111

TABLE 4

Physical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen	
MW-3	07/19/05	Injection well	11.94	0.53	7.20	NM	784	
	10/24/05	Injection well	14.70	1.33	6.66	NM	561	
	01/11/06	Injection well	12.57	NM	NM	NM	NM	
	01/20/06	Injection well	12.37	30.5	6.14	179	1,855	
	02/02/06	Injection well	16.48	11.34	6.91	125	1,898	
	02/15/06	Injection well	10.79	34.6	6.67	96	1,760	
	03/03/06	Injection well	11.55	31.0	6.47	147	1,712	
	03/24/06	Injection well	10.73	9.8[1]	7.20	314	1,540	
	04/17/06	Injection well	7.91	17.5	6.83	567	1,442	
	04/27/06	Injection well	7.85	19.35	7.10	NM	1,230	
	05/04/06	Injection well	8.85	10.2	7.15	259	1,357	
	05/16/06	Injection well	9.45	15.6	7.28	147	1,611	
	06/09/06	Injection well	9.09	25.1	6.91	325	1,329	
	06/30/06	Injection well	9.92	18.8	7.53	152	1,596	
	07/10/06	Injection well	9.88	29.5	7.79	155	NM	
	07/12/06	Injection well	10.08	NM	7.28	NM	880	
	08/03/06	Injection well	11.66	16.1	8.50	159	1,104	
	08/25/06	Injection well	11.53	33	7.22	143	941	
	09/13/06	Injection well	11.46	OR	4.04	NM	NM	
	09/27/06	Injection well	12.47	OR	7.75	181	3,421	
	10/12/06	Injection well	12.10	OR	7.19	242	3,457	
	10/17/06	Injection well	12.80	0.0	7.34	NM	3.23	
	[3]	11/03/06	Injection well	NM	NM	NM	NM	NM
		11/20/06	Injection well	13.72	4.4	8.28	380	851
	[5]	12/18/06	15 feet (to EX-2)	13.47	OR	6.79	84	2,122
		01/08/07	15 feet (to EX-2)	21.68	10.04	7.19	247	262
		01/16/07	15 feet (to EX-2)	21.68	10.04	7.10	247	262
		03/14/07	15 feet (to EX-2)	10.97	4.6	8.00	133	521
		03/29/07	15 feet (to EX-2)	11.85	4.7	7.90	120	612
		04/09/07	15 feet (to EX-2)	12.24	0.19	7.80	118	993
		04/16/07	15 feet (to EX-2)	12.38	3.3	7.20	203	2.55
		04/23/07	15 feet (to EX-2)	12.53	9.9	7.50	161	683
		04/26/07	15 feet (to EX-2)	12.39	5.5	7.60	216	730
	05/02/07	15 feet (to EX-2)	12.35	4.42	7.68	217	1,011	
	05/21/07	15 feet (to EX-2)	12.82	5.19	8.01	110	714	
	06/09/07	15 feet (to EX-2)	13.37	3.92	7.36	209	1,104	

TABLE 4**Physical Parameter Summary**

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
MW-3	07/09/07	15 feet (to EX-2)	14.32	0.79	7.38	106	1,369
Cont.	07/23/07	15 feet (to EX-2)	14.44	1.91	7.05	154	1,478
	08/08/07	15 feet (to EX-2)	14.98	1.8	6.84	95	3.54
	08/22/07	15 feet (to EX-2)	15.06	0.59	6.84	88	3.41
[6]	09/04/07	15 feet (to EX-2)	15.43	0.44	6.79	89	2.94
	09/18/07	15 feet (to EX-2)	16.10	0.90	6.88	153	2.95
	10/02/07	15 feet (to EX-2)	16.40	0.35	7.12	73	2.78
	10/15/07	15 feet (to EX-2)	16.45	2.87	7.04	67	3.21

TABLE 4

Physical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
MW-7	07/19/05	70 feet (to S-1)	14.16	NM	7.46	NM	651
	10/24/05	70 feet (to S-1)	16.65	NM	7.41	NM	493
	01/11/06	70 feet (to S-1)	17.05	NM	NM	NM	NM
	01/20/06	70 feet (to S-1)	16.20	2.0	6.49	105	841
	02/02/06	70 feet (to S-1)	15.39	2.04	7.30	38	763
	02/15/06	70 feet (to S-1)	13.74	2.9	6.91	8	828
	03/03/06	70 feet (to S-1)	13.26	8.2	7.19	97	853
	03/24/06	70 feet (to S-1)	11.99	2.6[1]	8.20	202	844
	04/17/06	70 feet (to S-1)	9.40	7.2	7.68	429	876
	04/27/06	70 feet (to S-1)	8.51	2.01	8.02	NM	878
	05/04/06	70 feet (to S-1)	8.37	5.4	8.29	88	855
	05/16/06	70 feet (to S-1)	8.43	9.8	7.51	72	856
	06/09/06	70 feet (to S-1)	8.74	4.6	7.68	376	777
	06/30/06	70 feet (to S-1)	9.50	4.6	8.26	162	787
	07/10/06	70 feet (to S-1)	9.77	4.7	8.56	135	796
	07/12/06	70 feet (to S-1)	9.94	1.82	7.92	12	759
	08/03/06	70 feet (to S-1)	10.83	3.5	8.70	34	760
	08/25/06	70 feet (to S-1)	11.71	6.6	7.50	130	728
	09/13/06	70 feet (to S-1)	12.44	4.34	6.90	NM	NM
	09/27/06	70 feet (to S-1)	13.01	3.95	7.79	137	1,261
	10/12/06	70 feet (to S-1)	13.46	2.96	7.01	244	1,194
	10/17/06	70 feet (to S-1)	13.46	1.69[2]	7.33	NM	1,179
	11/03/06	70 feet (to S-1)	14.21	5.11[2]	6.86	210	1,185
	11/20/06	70 feet (to S-1)	14.54	6.7	9.10	170	740
	12/18/06	80 feet (to EX-1)	14.95	2.94[2]	6.93	142	656
	01/08/07	80 feet (to EX-1)	15.03	1.88	7.73	144	770
	01/16/07	80 feet (to EX-1)	15.03	1.8	7.70	144	770
	03/14/07	80 feet (to EX-1)	14.99	2.9	7.63	193	1,021
	03/29/07	80 feet (to EX-1)	15.13	6.4	7.80	149	935
	04/09/07	80 feet (to EX-1)	15.27	0.47	8.27	200	765
	04/16/07	80 feet (to EX-1)	15.32	2.7	7.60	174	981
	04/26/07	80 feet (to EX-1)	15.40	5.3	7.60	214	911
	05/02/07	80 feet (to EX-1)	15.49	0.97	7.49	303	978
	05/21/07	80 feet (to EX-1)	15.81	2.84	7.67	202	780
	06/09/07	80 feet (to EX-1)	16.00	4.65	7.56	210	757

TABLE 4

Physical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
MW-7	07/09/07	80 feet (to EX-1)	16.72	0.94	7.86	159	816
Cont.	07/23/07	80 feet (to EX-1)	16.96	5.65	7.61	141	1,349
	08/08/07	80 feet (to EX-1)	17.64	6.59	7.63	100	905
	08/22/07	80 feet (to EX-1)	17.36	4.33	7.68	57	1,021
[6]	09/04/07	80 feet (to EX-1)	17.60	5.69	7.91	23	809
	09/18/07	80 feet (to EX-1)	17.78	4.22	7.68	130	843
	10/02/07	80 feet (to EX-1)	18.11	0.30	7.46	29	992
	10/15/07	80 feet (to EX-1)	18.29	0.61	7.95	85	843

TABLE 4**Physical Parameter Summary**

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
MW-8	07/09/07	63 feet (to EX-2)	18.28	0.94	6.84	166	8.99
Cont.	07/23/07	63 feet (to EX-2)	18.66	6.92	7.07	177	8.42
	08/08/07	63 feet (to EX-2)	19.05	6.23	6.33	108	8.35
	08/22/07	63 feet (to EX-2)	19.20	5.85	7.15	101	8.27
[6]	09/04/07	63 feet (to EX-2)	19.55	5.96	6.97	99	7.94
	09/18/07	63 feet (to EX-2)	23.69	5.74	7.04	179	7.63
	10/02/07	63 feet (to EX-2)	20.24	5.52	7.28	109	7.68
	10/15/07	63 feet (to EX-2)	20.36	5.49	7.29	192	7.99

TABLE 4

Physical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
EX-1	10/24/05	20 feet (to S-1)	14.37	1.15	6.56	NM	585
	01/11/06	20 feet (to S-1)	3.11	NM	NM	NM	NM
	01/20/06	20 feet (to S-1)	2.13	2.50	6.79	116	631
	02/02/06	20 feet (to S-1)	1.68	5.84	7.65	128	463
	02/15/06	20 feet (to S-1)	2.27	2.00	7.10	4	646
	03/03/06	20 feet (to S-1)	NM	NM	NM	NM	NM
	03/24/06	20 feet (to S-1)	NM	NM	NM	NM	NM
	04/17/06	20 feet (to S-1)	1.15	7.1	7.40	542	542
	04/27/06	20 feet (to S-1)	1.76	2.4	7.39	NM	609
	05/04/06	20 feet (to S-1)	NM	NM	NM	NM	NM
	05/16/06	20 feet (to S-1)	NM	NM	NM	NM	NM
	06/09/06	20 feet (to S-1)	6.77	2.2	7.62	326	807
	06/30/06	20 feet (to S-1)	6.64	5.2	7.95	183	817
	07/10/06	20 feet (to S-1)	6.71	2.5	8.02	163	767
	07/12/06	20 feet (to S-1)	6.88	0.80	7.48	-10	944
	08/03/06	20 feet (to S-1)	NM	NM	NM	NM	NM
	08/25/06	20 feet (to S-1)	9.14	5.4	7.34	121	690
	09/13/06	20 feet (to S-1)	8.82	3.09	7.01	NM	NM
	09/27/06	20 feet (to S-1)	9.25	3.73	7.23	205	1,104
	10/12/06	20 feet (to S-1)	9.67	2.84	6.93	238	1,145
	10/17/06	20 feet (to S-1)	9.79	1.97[2]	6.90	NM	1,624
	11/03/06	20 feet (to S-1)	10.91	2.19[2]	6.50	170	1,198
	11/20/06	20 feet (to S-1)	10.58	4.4	8.61	398	654
	12/18/06	Injection well	5.63	2.74[2]	6.81	149	741
	01/08/07	Injection well	5.47	3.1	7.56	191	708
	01/16/07	Injection well	5.47	3.1	7.50	191	708
	03/14/07	Injection well	3.07	14.84	7.60	231	692
	03/29/07	Injection well	4.47	11.89	7.69	216	700
	04/09/07	Injection well	4.88	6.81	7.87	167	812
	04/16/07	Injection well	4.37	14.17	7.70	202	703
	04/26/07	Injection well	4.59	15.63	7.80	239	674
	05/02/07	Injection well	5.34	OR	7.73	309	734
	05/21/07	Injection well	5.74	6.49	7.38	208	673
	06/09/07	Injection well	6.18	2.33	7.42	72	714

TABLE 4**Physical Parameter Summary**

Former USA Service Station No. 57
 10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
EX-1	07/09/07	Injection well	11.67	1.04	7.35	154	910
Cont.	07/23/07	Injection well	12.17	8.32	7.70	189	667
	08/08/07	Injection well	13.26	13.22	7.22	92	996
	08/22/07	Injection well	12.90	17.43	7.32	132	985
[6]	09/04/07	Injection well	12.42	OR	7.26	113	988
	09/18/07	Injection well	NM	NM	NM	NM	NM
	10/02/07	Injection well	NM	NM	NM	NM	NM
	10/15/07	Injection well	NM	NM	NM	NM	NM

TABLE 4

Physical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
EX-2	10/24/05	15 feet (to MW-3)	16.00	2.83	6.85	NM	588
	01/11/06	15 feet (to MW-3)	10.22	NM	NM	NM	NM
	01/20/06	15 feet (to MW-3)	8.98	2.90	5.93	157	1,570
	02/02/06	15 feet (to MW-3)	8.18	15.60	6.87	138	18.99
	02/15/06	15 feet (to MW-3)	7.74	2.20	6.49	58	1,472
	03/03/06	15 feet (to MW-3)	NM	NM	NM	NM	NM
	03/24/06	15 feet (to MW-3)	NM	NM	NM	NM	NM
	04/17/06	15 feet (to MW-3)	5.74	5.6	6.86	555	1,223
	04/27/06	15 feet (to MW-3)	5.22	2.48	7.17	NM	1,184
	05/04/06	15 feet (to MW-3)	NM	NM	NM	NM	NM
	05/16/06	15 feet (to MW-3)	NM	NM	NM	NM	NM
	06/09/06	15 feet (to MW-3)	8.00	4.6	7.51	374	1,190
	06/30/06	15 feet (to MW-3)	7.37	2.0	7.52	9	1,286
	07/10/06	15 feet (to MW-3)	7.16	1.8	7.69	44	1,210
	07/12/06	15 feet (to MW-3)	7.32	1.0	7.43	-4	1,169
	08/03/06	15 feet (to MW-3)	NM	NM	NM	NM	NM
	08/25/06	15 feet (to MW-3)	8.69	1.4	7.08	127	937
	09/13/06	15 feet (to MW-3)	8.51	1.25	6.58	NM	NM
	09/27/06	15 feet (to MW-3)	8.96	1.41	6.78	11	2,114
	10/12/06	15 feet (to MW-3)	9.10	0.63	6.64	38	2,062
	10/17/06	15 feet (to MW-3)	9.22	1.97[2]	6.97	NM	1,896
	11/03/06	15 feet (to MW-3)	9.78	0.72[2]	6.45	84	1,903
	11/20/06	15 feet (to MW-3)	9.87	3.6	8.10	388	887
	12/18/06	Injection well	9.70	1.28[2]	6.60	93	1,875
	01/08/07	Injection well	10.35	4.83	7.26	70	1,717
	01/16/07	Injection well	10.35	4.8	7.20	70	1,717
	03/14/07	Injection well	8.83	8.8	7.50	143	1,229
	03/29/07	Injection well	9.41	7.5	7.50	103	1,322
	04/09/07	Injection well	9.67	8.03	7.78	173	1,365
	04/16/07	Injection well	9.96	1.6	7.40	143	1,397
	04/26/07	Injection well	10.02	12.7	7.50	142	1,278
	05/02/07	Injection well	10.09	9.32	7.34	312	1,348
05/21/07	Injection well	10.40	4.06	7.22	207	1,238	
06/09/07	Injection well	10.73	3.93	7.21	171	1,346	

TABLE 4

Physical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
EX-2	07/09/07	Injection well	11.25	1.13	7.46	169	1,684
Cont.	07/23/07	Injection well	11.46	15.95	7.68	196	1,031
	08/08/07	Injection well	11.65	9.89	7.25	150	1,611
	08/22/07	Injection well	11.71	1.02	7.24	129	1,610
[6]	09/04/07	Injection well	10.98	1.04	7.19	127	1,558
	09/18/07	Injection well	NM	NM	NM	NM	NM
	10/02/07	Injection well	NM	NM	NM	NM	NM
	10/15/07	Injection well	NM	NM	NM	NM	NM

TABLE 4

Physical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
EX-3	10/24/05	45 feet (to S-2)	14.93	NM	7.06	NM	676
	01/11/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	01/20/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	02/02/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	02/15/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	03/03/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	03/24/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	04/17/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	04/27/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	05/04/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	05/16/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	06/09/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	06/30/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	07/10/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	07/12/06	45 feet (to S-2)	9.01	0.5	7.40	0	894
	08/03/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	08/25/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	09/13/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	09/27/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	10/12/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	10/17/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	11/03/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	11/20/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	12/18/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	01/08/07	45 feet (to S-2)	12.31	2.42	7.15	-40	1,234
	01/16/07	45 feet (to S-2)	12.31	2.4	7.10	-40	1,234
	03/14/07	45 feet (to S-2)	NM	NM	NM	NM	NM
	03/29/07	45 feet (to S-2)	NM	NM	NM	NM	NM
	04/09/07	45 feet (to S-2)	10.78	0.53	7.90	93	813
	04/16/07	45 feet (to S-2)	6.00	1.9	7.40	176	525
	04/26/07	45 feet (to S-2)	9.65	2.3	7.40	165	723
	05/02/07	45 feet (to S-2)	10.20	0.83	7.21	-3	1,012
	05/21/07	45 feet (to S-2)	11.00	0.42	7.11	13	987
06/09/07	45 feet (to S-2)	11.40	0.46	7.13	-13	1,190	

TABLE 4**Physical Parameter Summary**

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
EX-3	07/09/07	45 feet (to S-2)	12.41	0.77	7.05	35	1,291
Cont.	07/23/07	45 feet (to S-2)	12.82	8.75	7.08	12	1,342
	08/08/07	45 feet (to S-2)	13.29	2.4	7.05	76	1,260
	08/22/07	45 feet (to S-2)	13.43	1.0	7.05	56	1,265
[6]	09/04/07	45 feet (to S-2)	13.73	0.52	7.06	61	1,374
	09/18/07	45 feet (to S-2)	NM	NM	NM	NM	NM
	10/02/07	45 feet (to S-2)	NM	NM	NM	NM	NM
	10/15/07	45 feet (to S-2)	NM	NM	NM	NM	NM

TABLE 4

Physical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
NOTES: pH, specific conductivity, ORP and DO were measured on site using field instruments NM = Not Measured OR = Over the range of the field instrument [1] DO instrument appears to have malfunctioned [2] DO was originally measured in % and then converted to mg/L [DO in mg/L = 0.10* DO in %] [3] Not measured since well was hidden under dirt pile [4] Not measured due to well blocked off by spools [5] Removed iSOC unit from well [6] iSOC was discontinued. Start-up of DPE using wells EX-1 through EX-4.							

TABLE 5

Analytical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard, Oakland, California

Well Number	Date	Distance to nearest injection well	BOD ¹ µg/L	Heterotrophic plate count ² CFU/ml	TOC ³ µg/L	Ferrous iron ⁴ µg/L	Total iron ⁴ µg/L	Nitrite as NO ₂ ⁵ µg/L	Nitrate as NO ₃ ⁵ µg/L	Ammonia Nitrogen ⁶ µg/L	Sulfate as SO ₄ ⁵ µg/L	Sulfide ⁷ µg/L	Total Ortho-phosphates ⁸ µg/L	TDS ⁹ µg/L	Total Phosphorus ⁸ µg/L
S-1	01/11/06	Injection well	<3,000	3,000	7,800	<50	690	<250	<250	<100	32,000	<100	190	NA	120
	04/23/07	21	<3,000	110[3]	6,700	<50	5,400	<250	<250	<100	44,000	<100	<100	650,000	<100
	07/23/07	21	<3,000	9	6,500	57	1,600	<250	<250	<100	24,000	<100	<100	780,000	<100
	10/15/07	21	<3,000	5	5,600	76	1,800	<250	<250	<100	19,000	<100	<100	870,000	NA
S-2	01/11/06	Injection well	19,000	18,000	6,600	<50	<300	<250	<250	<100	2,500	<100	120	NA	<100
MW-3	01/11/06	Injection well	<3,000	23,000	3,400	<50	420	<250	<250	<100	15,000	<100	130	NA	120
	04/23/07	15	<3,000	27,000[3]	11,000	<50	1,000	<250	<250	<100	20,000	<100	100	1,700,000	<100
	07/23/07	15	4,100	4,400	10,000	900	19,000	<250	<250	180	9,100	130	<100	1,600,000	850
	10/15/07	15	<3,000	2,800	13,000	1,900	50,000	<250	<250	<100	7,400	<500[5]	<100	1,600,000	NA
MW-7	01/11/06	70	<3,000	19,000	3,900	<50	<300	<250	600	<100	21,000	<100	180	NA	180
	04/27/06	70	<3,000	24	2,300	<50	<300	<250	2,400	<100	50,000	<100	210	660,000	150
	07/12/06	70	<3,000	33	2,500	<50	<300	<250	2,600	<100	56,000	<100	130	670,000	<100
	10/17/06	70	<3,000	8	3,400	<50	1,300	<250	2,200	<100	55,000	<100	<100	650,000	<100
	01/08/07	80	<3,000	100	2,400	<50	1,000	<250	2,400	<100	59,000	<100	110	630,000	120
	04/09/07	80	<3,000	64	2,000	<50	430	<250	2,400	<100	53,000	<100	120	630,000	380
	07/23/07	80	<3,000	170	2,400	<50	<300	<250	1,200	<100	52,000	<100	110	600,000	<100
	10/15/07	80	<3,000	390	2,400	<50	<300	330	430	<100	49,000	<100	<100	560,000	NA
	MW-8	01/11/06	47	<3,000	380	1,500	<50	1,500	<250	4,100	<100	62,000	<100	190	NA
04/27/06		47	<3,000	660	1,000	<50	3,200	<250	4,200	<100	66,000	120	230	5,900,000	140
07/12/06		47	<3,000	S[1]	2,100	<50	5,300	<250	4,800	<100	79,000	<100	180	2,400,000	170
10/17/06		47	<3,000	3,500	1,900	<50	3,600	<250	4,500	<100	79,000	<100	<100	5,400,000	130
01/08/07		63	<3,000	600	2,200	<50	7,300	8,500	4,300	<100	84,000	<100	230	5,600,000	160
04/09/07		63	<3,000	590	1,800	<50	4,000	<250	2,500	<100	83,000	<100	120	5,700,000	120
07/23/07		63	<3,000	790	1,500	<50	25,000	<1,300[4]	1,600	<100	80,000	<100	140	4,400,000	220
10/15/07		63	<3,000	2,700	1,700	<50	88,000	<1,300[4]	2,800	<100	75,000	<100	150	4,500,000	NA

TABLE 5

Analytical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard, Oakland, California

Well Number	Date	Distance to nearest injection well	BOD ¹ µg/L	Heterotrophic plate count ² CFU/ml	TOC ³ µg/L	Ferrous iron ⁴ µg/L	Total iron ⁴ µg/L	Nitrite as NO ₂ ⁵ µg/L	Nitrate as NO ₃ ⁵ µg/L	Ammonia Nitrogen ⁶ µg/L	Sulfate as SO ₄ ⁵ µg/L	Sulfide ⁷ µg/L	Total Ortho-phosphates ⁸ µg/L	TDS ⁹ µg/L	Total Phosphorus ⁸ µg/L
EX-1	01/11/06	20	<3,000	4,500	9,500	<50	540	<250	1,400	<100	69,000	<100	220	NA	200
	04/27/06	20	<3,000	9,800	6,800	<50	6,000	<250	260	<100	69,000	<100	160	400,000	290
	07/12/06	20	25,000	19,000	26,000	230	7,400	<250	<250	1,200	8,600	<100	300	1,100,000	220
	10/17/06	20	32,000	11,000	30,000	60	53,000	<250	<250	1,800	4,700	<100	<100	1,000,000	330
	01/08/07	Injection well	4,100	11,000[2]	6,300	<50	5,500	<250	850	<100	60,000	<100	170	390,000	120
	04/09/07	Injection well	<3,000	780	6,400	<50	930	<250	1,400	<100	87,000	<100	120	480,000	170
EX-2	01/11/06	15	48,000	85,000	17,000	<50	1,200	<250	<250	120	21,000	<100	230	NA	140
	04/27/06	15	22,000	82,000	17,000	<50	770	<250	<250	<100	22,000	<100	140	1,200,000	240
	07/12/06	15	23,000	41,000	17,000	<50	2,000	<250	<250	<100	6,700	<100	220	1,200,000	150
	10/17/06	15	38,000	3,600	18,000	<50	37,000	<250	<250	<100	<500	<100	<100	1,200,000	<100
	01/08/07	Injection well	14,000	41,000	14,000	<50	20,000	420	<250	<100	5,000	<100	140	960,000	250
	04/09/07	Injection well	<3,000	8,200	7,000	<50	14,000	<250	<250	<100	11,000	<100	<100	790,000	180
EX-3	07/12/06	45	9,400	15,000	14,000	<50	14,000	<250	<250	<100	32,000	220	320	930,000	250
	10/17/06	45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/08/07	45	9,900	6,600	11,000	130	54,000	<250	<250	<100	31,000	<100	160	840,000	370
	04/09/07	45	8,400	13,000	12,000	420	3,800	<250	<250	<100	69,000	630	<100	800,000	210
	07/23/07	45	10,000	30,000	9,900	<50	210,000	<250	<250	<100	45,000	590	<100	740,000	400

TABLE 5

Analytical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard, Oakland, California

Well Number	Date	Distance to nearest injection well	BOD ¹ µg/L	Heterotrophic plate count ² CFU/ml	TOC ³ µg/L	Ferrous iron ⁴ µg/L	Total iron ⁴ µg/L	Nitrite as NO ₂ ⁵ µg/L	Nitrate as NO ₃ ⁵ µg/L	Ammonia Nitrogen ⁶ µg/L	Sulfate as SO ₄ ⁵ µg/L	Sulfide µg/L	Total Ortho-phosphates ⁸ µg/L	TDS ⁹ µg/L	Total Phosphorus ⁸ µg/L
-------------	------	------------------------------------	--------------------------	--	--------------------------	-----------------------------------	---------------------------------	---	---	---------------------------------------	---	-----------------	---	--------------------------	---------------------------------------

NOTES:

¹ Biochemical oxygen demand (BOD) was analyzed using EPA Method 405.1

² Heterotrophic plate count (HPC) was conducted using SM 9215

³ Total organic carbon (TOC) was analyzed using EPA Method 415.1

⁴ Ferrous iron & Total iron was analyzed using SM3500-Fe D

⁵ Nitrite, nitrate and sulfates were analyzed using EPA Method 300.0

⁶ Ammonia nitrogen was analyzed using EPA Method 350.3

⁷ Sulfide was analyzed using EPA Method 376.2

⁸ Total orthophosphate and total phosphorus were analyzed by EPA Method 365.2

⁹ Total dissolved solids (TDS) analyzed using EPA Method 160.1

µg/L = micrograms per liter

NA = Not analyzed

NS = Not sampled

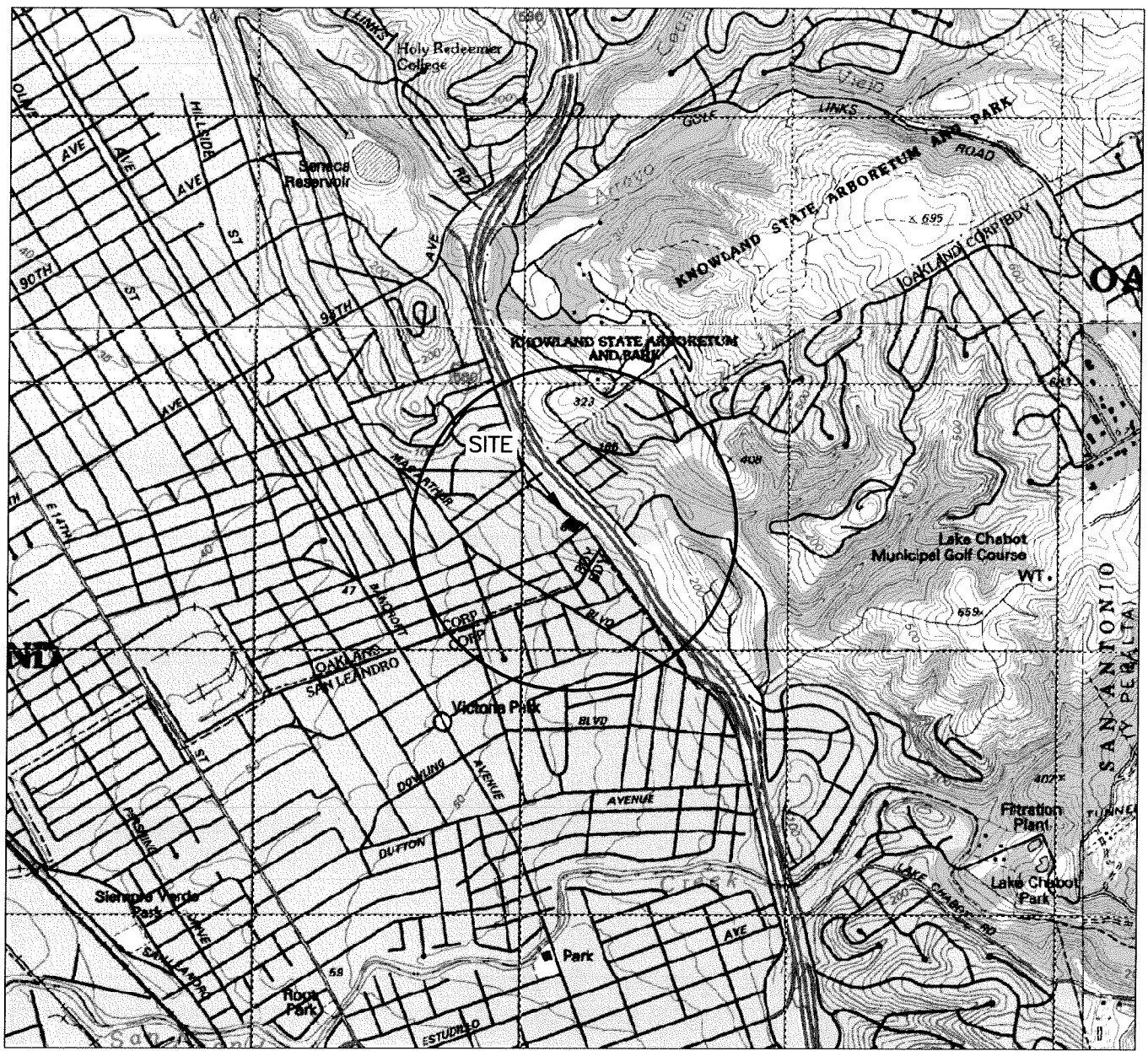
S[1] = Spreaders frequently cover more than half the plate and interfere with obtaining a reliable plate count.

[2] = This sample was extracted/analyzed outside the EPA recommended holding time.

[3] = The sample was received outside of the EPA recommended holding time.

[4] = Reporting limits were increased due to high concentrations of non-target analytes.

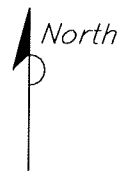
[5] = Reporting limits were increased due to sample matrix interferences.



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



QUADRANGLE LOCATION

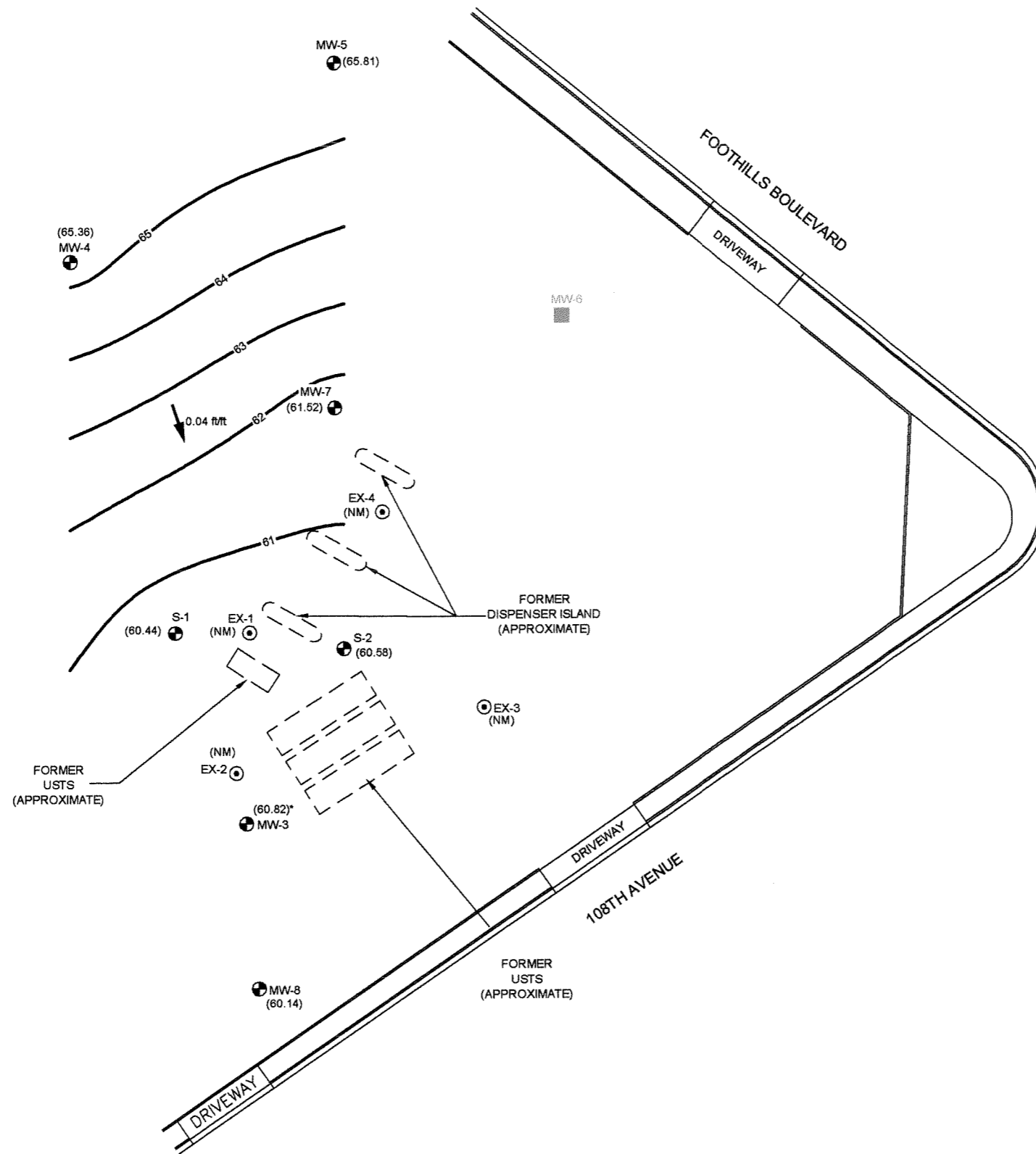


SCALE 1:24,000

STRATUS
 ENVIRONMENTAL, INC.

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

FIGURE
1
 PROJECT NO.
 2007-0057-01

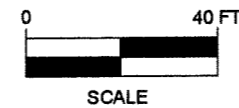


LEGEND

- MW-3 MONITORING WELL LOCATION
- ⊙ EX-1 EXTRACTION WELL LOCATION
- MW-6 ABANDONED MONITORING WELL LOCATION
- (60.44) GROUND WATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL
- 64— WATER TABLE CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL
- ➔ INFERRED DIRECTION OF GROUND WATER FLOW
- WELLS MEASURED: 10/15/07
- * NOT USED FOR CONTOURING

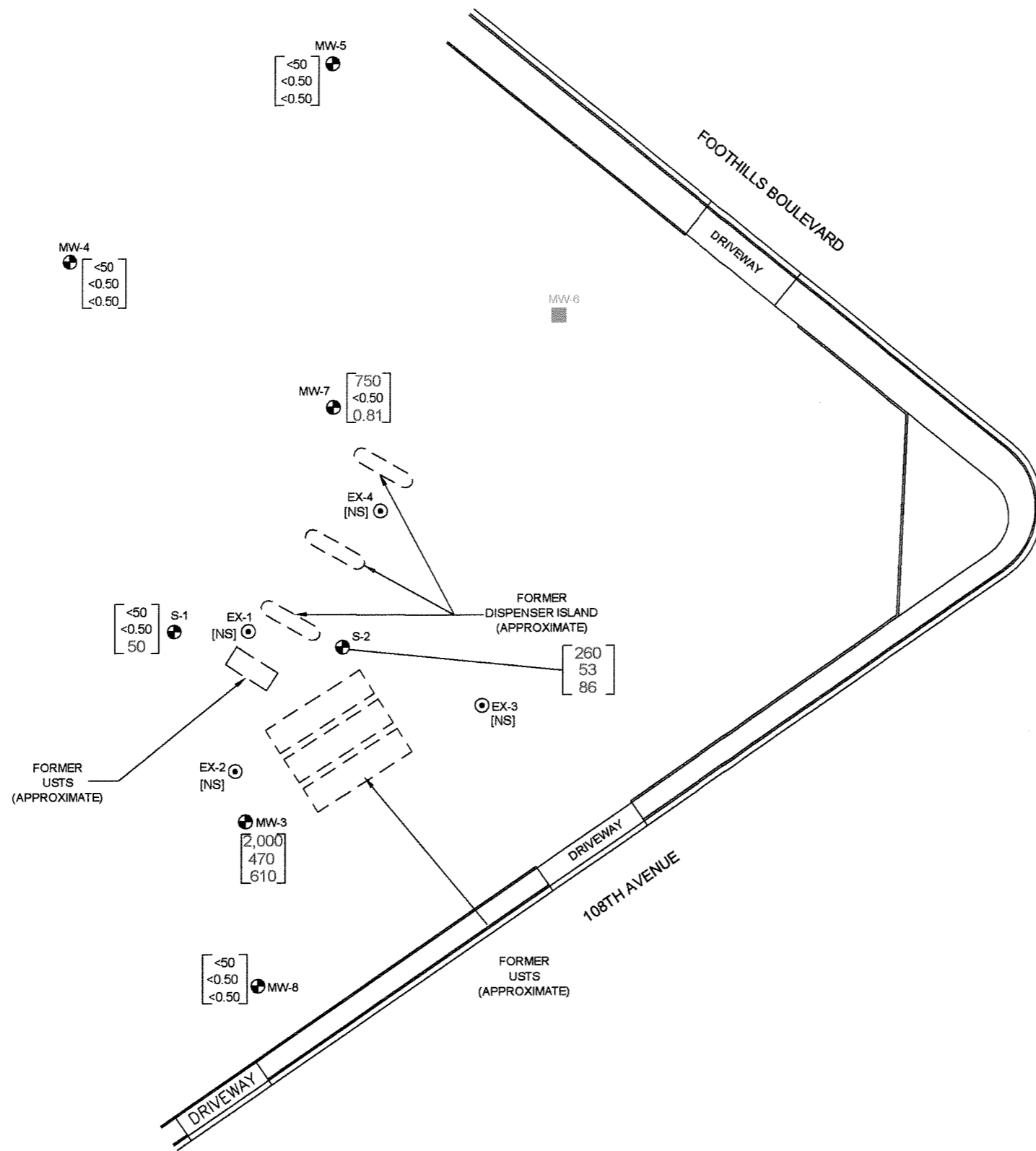
USA57/Quarterly
JMP
REV November 12, 2007 USA 57 Quarterly Figures

STRATUS
ENVIRONMENTAL, INC.



FORMER USA SERVICE STATION NO. 57
10700 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA
GROUNDWATER ELEVATION CONTOUR MAP
4th QUARTER 2007

FIGURE
2
PROJECT NO.
2007-0057-01



LEGEND

- MW-3 MONITORING WELL LOCATION
- ⊙ EX-1 EXTRACTION WELL LOCATION
- MW-6 ABANDONED MONITORING WELL LOCATION
- [<50] GASOLINE RANGE ORGANICS (GRO) IN µg/L
- [<0.50] BENZENE CONCENTRATION IN µg/L
- [<0.50] METHYL TERTIARY BUTYL ETHER (MTBE) IN µg/L

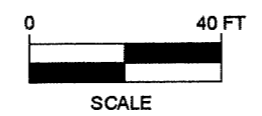
SAMPLES COLLECTED ON 10/15/07

GRO ANALYZED BY EPA METHOD 8015B

BENZENE & MTBE ANALYZED BY EPA METHOD 8260B

[NS] = NOT SAMPLED

USA57 Quarterly Figures REV November 12, 2007 USA 57 Quarterly Figures



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

GROUNDWATER ANALYTICAL SUMMARY
4th QUARTER 2007

FIGURE
3
PROJECT NO.
2007-0057-01

Figure 4
DO Variation with Time at Injection Wells
 Former USA Service Station No. 57
 10700 MacArthur Boulevard
 Oakland, California

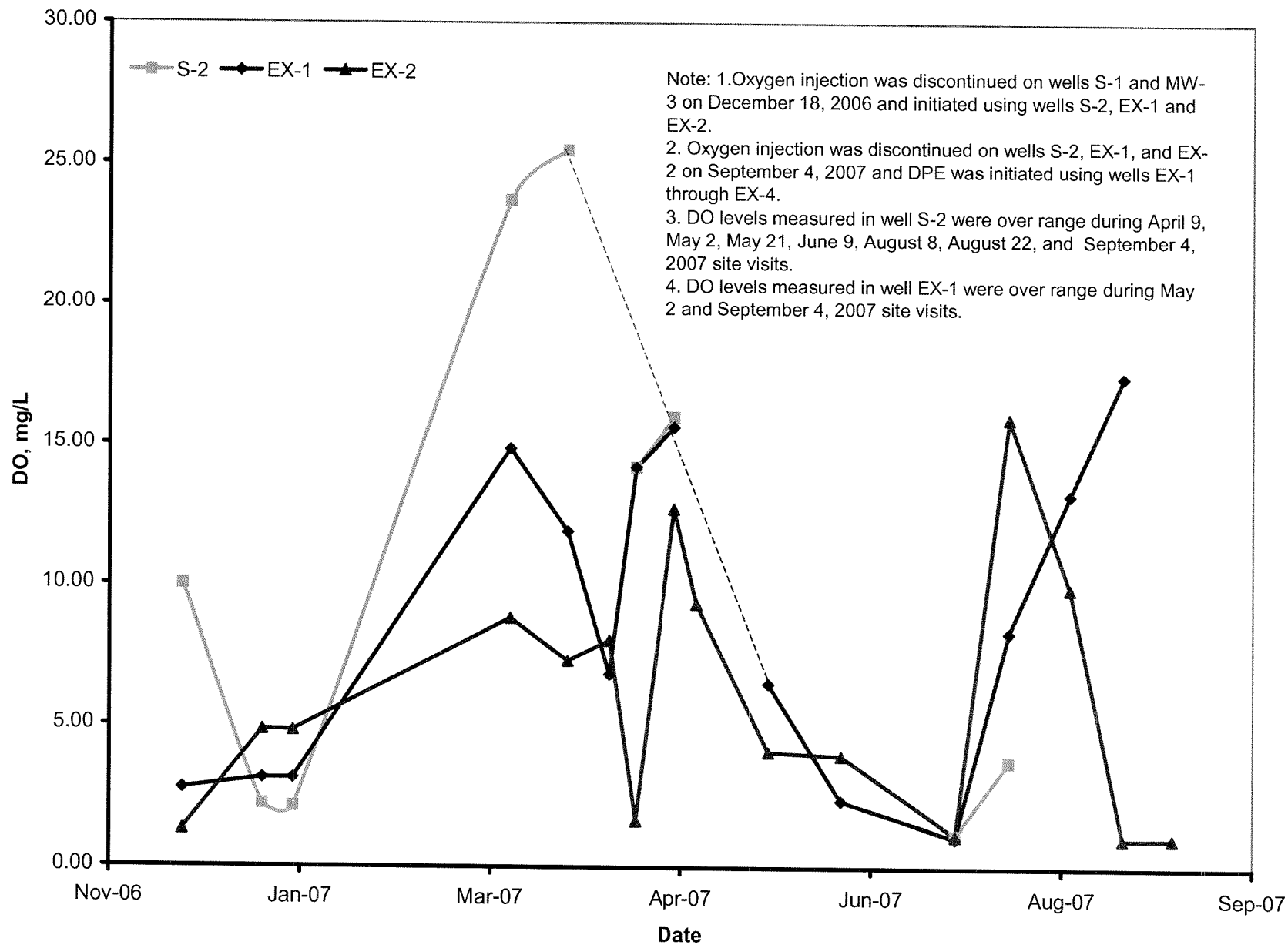


Figure 5
DO Variation with Time at Observation and Background Wells
 Former USA Service Station No. 57
 10700 MacArthur Boulevard
 Oakland, California

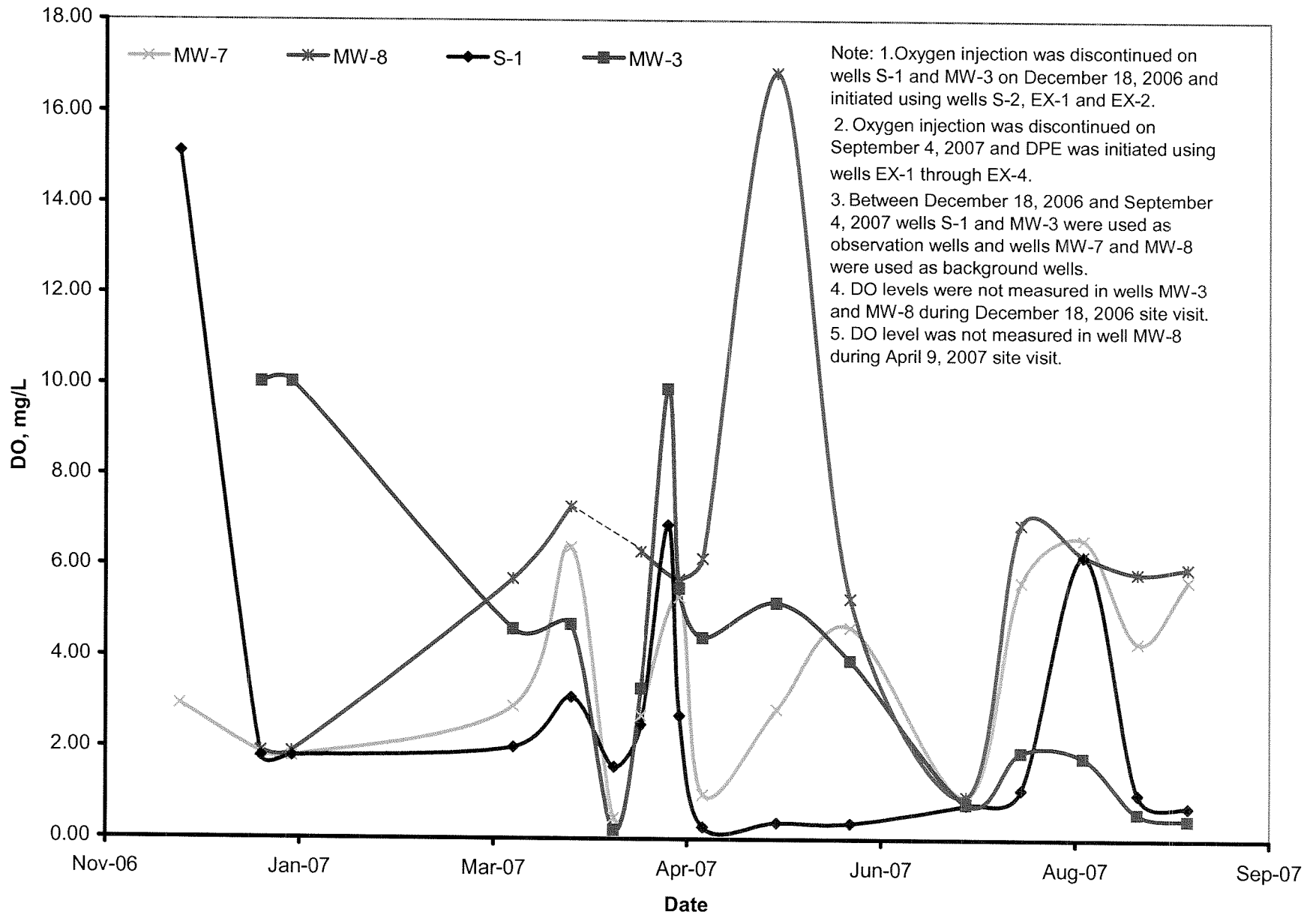


Figure 6
GRO, Benzene, MTBE, and Depth to Water Variation with Time at S-1
 Former USA Service Station No. 57
 10700 MacArthur Boulevard
 Oakland, California

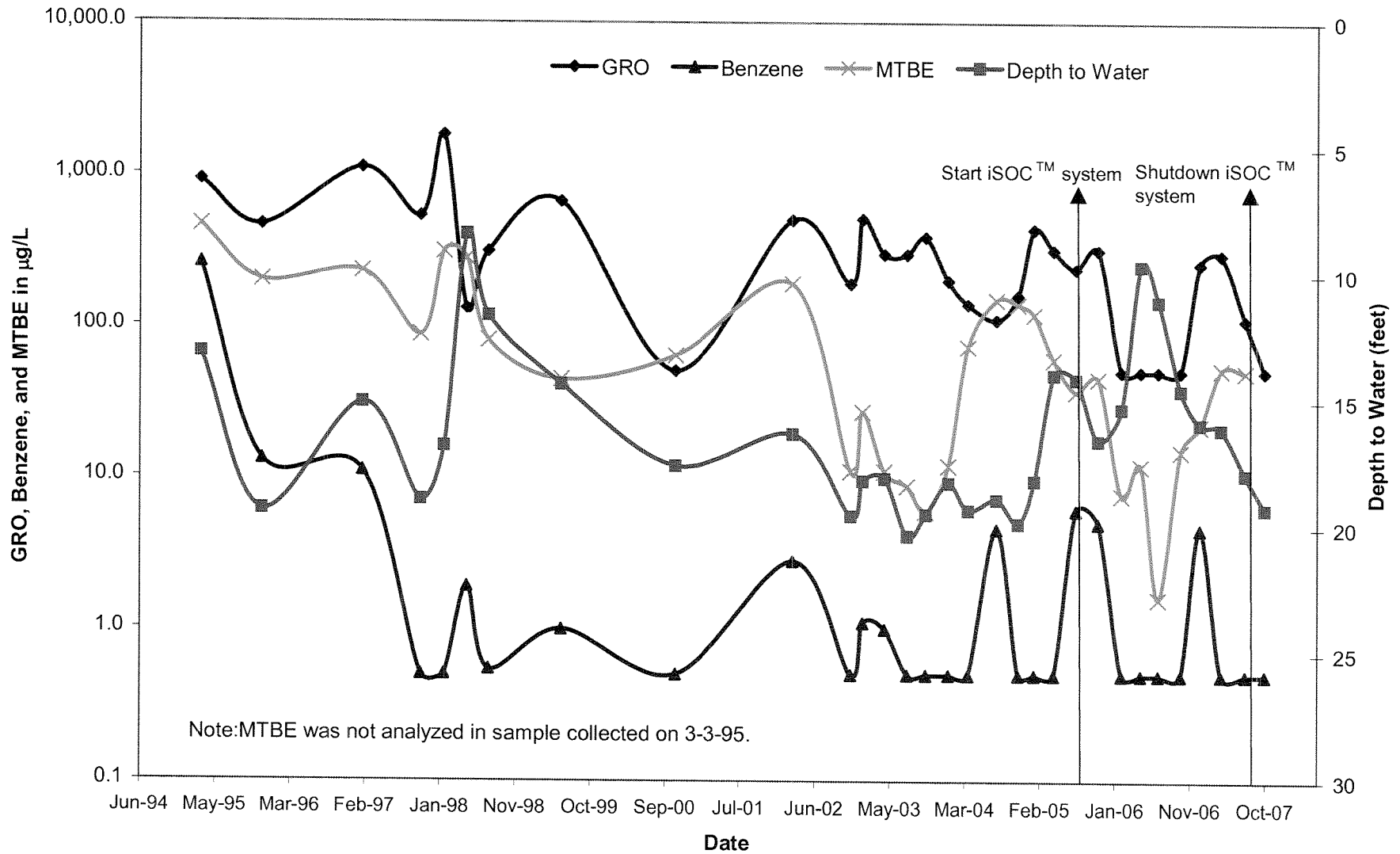


Figure 7
GRO, Benzene, MTBE, and Depth to Water Variation with Time at S-2
 Former USA Service Station No. 57
 10700 MacArthur Boulevard
 Oakland, California

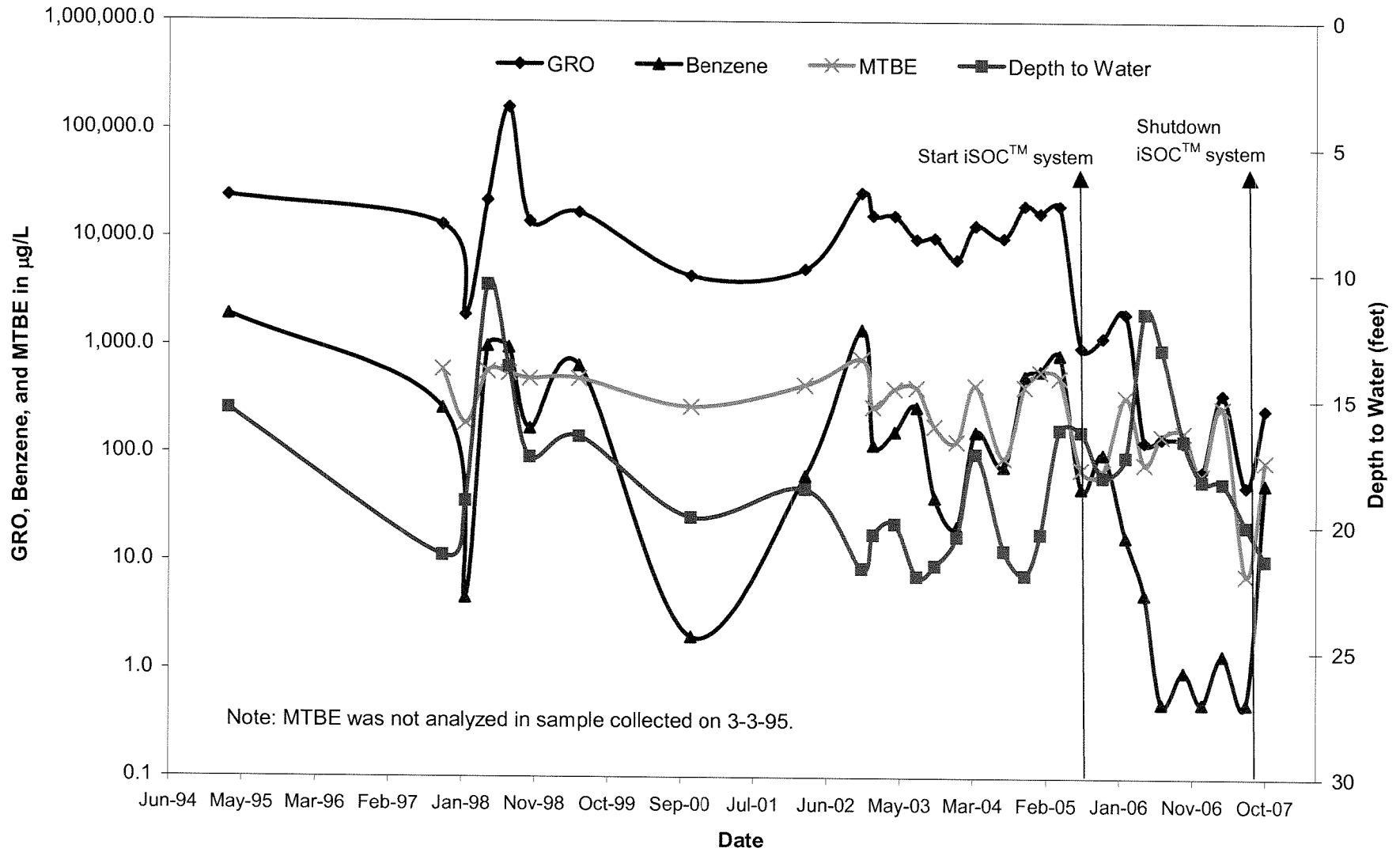
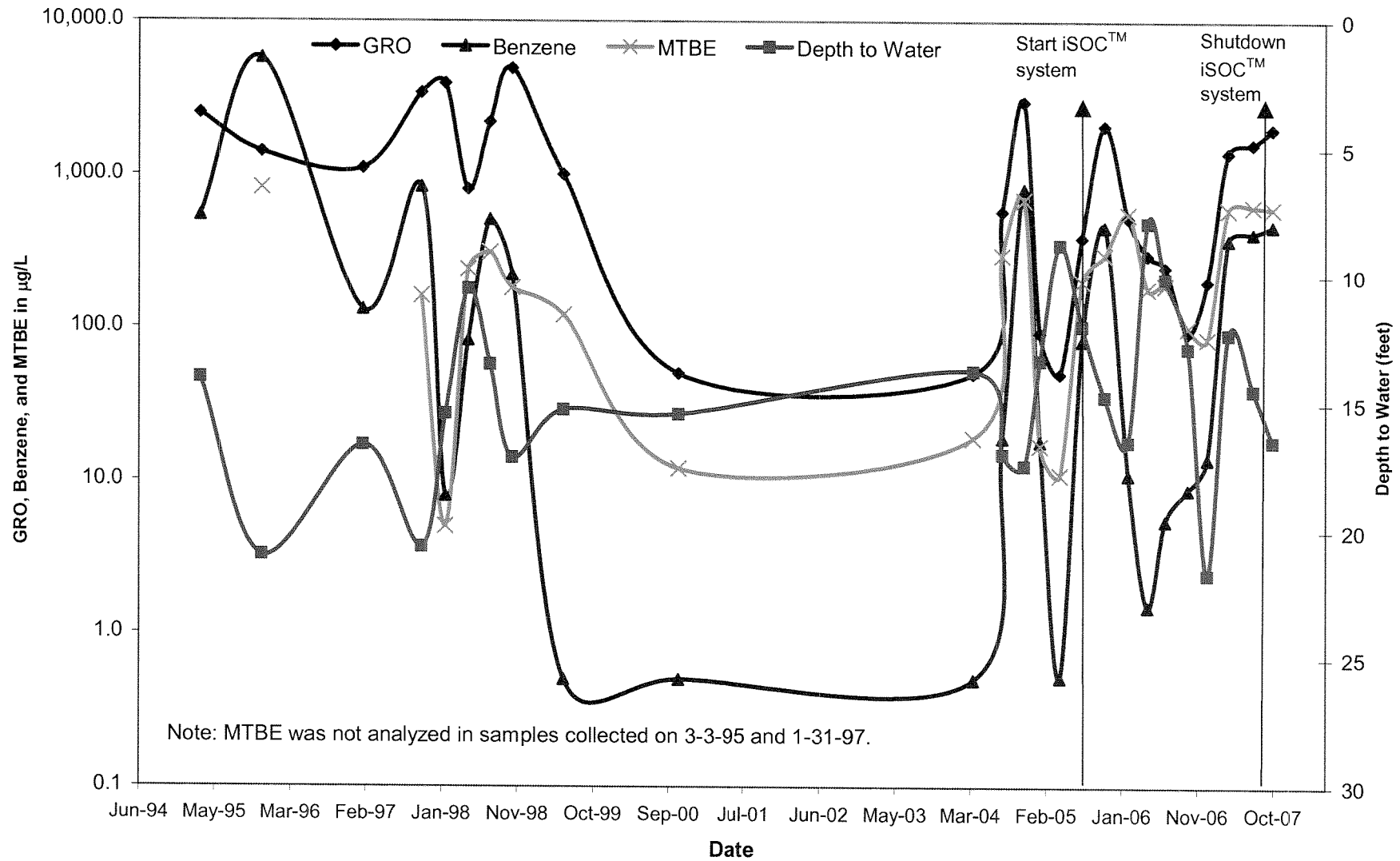


Figure 8
GRO, Benzene, MTBE, and Depth to Water Variation with Time at MW-3
 Former USA Service Station No. 57
 10700 MacArthur Boulevard
 Oakland, California



APPENDIX A
FIELD DATA SHEETS



10700 MacArthur Bl
 City Oakland, CA
 Site Sampled by DD, VZ

USA 57
 Project No. 2007-0057-01
 Project PM Gowri Kowtha
 Date Sampled 10-15-07

ORIGINAL

Page 1 of 2

Well ID	<u>MW-5 0547</u>				Well ID				
purge start time	<u>0520 No Odor</u>				purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>19.5</u>	<u>7.38</u>	<u>4.11</u>	<u>Q</u>	time				
time	<u>Dry @ 10 gal</u>				time				
time	<u>19.6</u>	<u>8.14</u>	<u>3.98</u>	<u>(10)</u>	time				
time					time				
purge stop time	<u>ORP (72)</u>				purge stop time				
Well ID	<u>MW-4 0727</u>				Well ID				
purge start time	<u>0703 No Odor</u>				purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>20.0</u>	<u>7.66</u>	<u>925</u>	<u>Q</u>	time				
time	<u>21.8</u>	<u>7.66</u>	<u>819</u>	<u>20</u>	time				
time	<u>19.7</u>	<u>7.60</u>	<u>944</u>	<u>55</u>	time				
time					time				
purge stop time	<u>0717 ORP (93)</u>				purge stop time				
Well ID	<u>MW-7 0811</u>				Well ID				
purge start time	<u>0741 DOR</u>				purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>19.3</u>	<u>7.95</u>	<u>843</u>	<u>Q</u>	time				
time	<u>19.2</u>	<u>7.84</u>	<u>871</u>	<u>16</u>	time				
time	<u>18.7</u>	<u>7.73</u>	<u>927</u>	<u>(22)</u>	time				
time	<u>Dry @ 22 gal</u>				time				
purge stop time	<u>ORP (85)</u>				purge stop time				
Well ID	<u>MW-3 0954</u>				Well ID				
purge start time	<u>0920 ODR</u>				purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>19.3</u>	<u>7.04</u>	<u>321_m</u>	<u>Q</u>	time				
time	<u>19.5</u>	<u>7.12</u>	<u>278_m</u>	<u>22</u>	time				
time	<u>19.1</u>	<u>7.24</u>	<u>328_m</u>	<u>35</u>	time				
time	<u>Dry @ 35 gal</u>				time				
purge stop time	<u>ORP (67)</u>				purge stop time				



10700 MacArthur Bl
 City Oakland, CA
 Site Sampled by DD/JZ

USA 57
 Project No. 2007-0057-01
 Project PM Ladwari Kowtha
 Date Sampled 10/15/07

ORIGINAL

Pg 2 of 2

25

Well ID <u>S-1 0815</u>					Well ID <u>S-2 0650</u>				
purge start time <u>0717 020R</u>					purge start time <u>0623 No 020R</u>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>20.9</u>	<u>7.60</u>	<u>980</u>	<u>0</u>	time	<u>20.0</u>	<u>7.49</u>	<u>1111</u>	<u>0</u>
time	<u>20.5</u>	<u>7.55</u>	<u>1214</u>	<u>7.5</u>	time	<u>20.2</u>	<u>7.49</u>	<u>1087</u>	<u>10</u>
time	<u>18.5</u>	<u>7.32</u>	<u>1399</u>	<u>15</u>	time	<u>18.5</u>	<u>7.39</u>	<u>1088</u>	<u>25</u>
time					time				
purge stop time <u>0800 ORP (158)</u>					purge stop time <u>0639 ORP (135)</u>				
Well ID <u>MW-8 0915</u>					Well ID				
purge start time <u>0837 No 020R</u>					purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>20.2</u>	<u>7.38</u>	<u>7.69ms</u>	<u>0</u>	time				
time	<u>20.2</u>	<u>7.32</u>	<u>7.82ms</u>	<u>15</u>	time				
time	<u>18.7</u>	<u>7.29</u>	<u>7.99ms</u>	<u>35</u>	time				
time					time				
purge stop time <u>0853 ORP (192)</u>					purge stop time				
Well ID					Well ID				
purge start time					purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time					purge stop time				
Well ID					Well ID				
purge start time					purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time					purge stop time				

Former USA Service Station No. 57
 10700 McArthur Boulevard
 Oakland, CA
 Oxygen Injection System Using iSOC

Date: 10-02-07
 Onsite Time: 0500
 Offsite Time: 0645

Technician: Vince Z
 Project Engineer: Gowri
 Weather Conditions: clear
 Ambient Temperature: 55°

iSOC™ Panel:

No. of iSOC Panels: Three 3-Injection Well Panels

No. of Oxygen Cylinders On Site: 6

No. of Cylinders Connected to Panels: 0

No. of Empty Cylinders: 0

} OFF Line

ORIGINAL

N/A

Field Measurements (Monthly)								
Well ID	Time	DTW	pH	DO	Temp	Cond	ORP	(KPA) VAC
S-1	0556	19.12	7.34	.54	19.3	1143	11	0
S-2	0605	21.33	7.35	.89	18.5	1050	35	0
MW-3	0533	16.40	7.12	.35	19.3	2.78 _m	73	0
EX-1	on system							
EX-2	[scribble]							
EX-3	[scribble]							
MW-7	0525	18.11	7.46	.30	20.1	992	29	0
MW-8	0541	20.24	7.28	5.52	18.5	7.68 _m	109	0
Control Temp	50		Stack Temp	1600				
EFF Temp	48							
HRS	11730.0							
GAL								
INS-H ₂ O			IN Hg					

Connected Cylinders	
O ₂ Cylinder	Pressure
1	
2	
3	
4	
5	
6	

System Down

16

Lab Parameters	Sampling Frequency	Sample Locations	Analytical Method
Bio-chemical oxygen demand	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	EPA 405.1
Total Iron & Ferrous Iron	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	SM3500
Heterotrophic Plate Counts	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	SM 9215B
Total Organic Carbon	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	EPA 415.1
Total Dissolved Solids	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	EPA 160.1
Nitrates, nitrites and ammonia	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	EPA 350.3
Sulfide and Sulfates	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	EPA 376.2 & EPA 300.0
Total Phosphorus & orthophosphates	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	EPA 365.2

Former USA Service Station No. 57
 10700 McArthur Boulevard
 Oakland, CA
 Oxygen Injection System Using iSOC

Date: 10-15-07
 Onsite Time: 0450
 Offsite Time: 1030

Technician: Vince Z
 Project Engineer: Gowri
 Weather Conditions: clouds high
 Ambient Temperature: 60's

iSOC™ Panel:

No. of iSOC Panels: Three 3-Injection Well Panels

No. of Oxygen Cylinders On Site: 6

No. of Cylinders Connected to Panels: 2

No. of Empty Cylinders: 2

} OFF LINE *

* N/A

19.22 Field Measurements (Monthly)									KPA
Well ID	Time	DTW	pH	DO	Temp	Cond.	OPP	VAC	
S-1	0815	19.22	7.60	1.62	20.9	980	158	2	
S-2	0650	21.32	7.49	2.19	20.0	1111	135	2	
MW-3	0954	16.45	7.04	2.87	19.3	3.21m	67	2	
EX-1			ON	SYSTEM					
EX-2								2	
EX-3								2	
MW-7	0811	18.29	7.95	.61	19.3	843	85	.03	
MW-8	0915	20.36	7.29	5.49	20.2	7.99m	192	2	
Control Temp	1446		Gals. →	199830					
EFF Temp	1346								
ins. H ₂ O	.30 IN. 2200 FPM		IN. Hg (-9.0)				H ₂ O	16	
Temp	130°F						psi	15	
HRS.	11960.3								

Connected Cylinders	
O ₂ Cylinder	Pressure
1	
2	
3	
4	
5	
6	

Lab Parameters	Sampling Frequency	Sample Locations	Analytical Method
Bio-chemical oxygen demand	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	EPA 405.1
Total Iron & Ferrous Iron	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	SM3500
Heterotrophic Plate Counts	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	SM 9215B
Total Organic Carbon	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	EPA 415.1
Total Dissolved Solids	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	EPA 160.1
Nitrates, nitrites and ammonia	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	EPA 350.3
Sulfide and Sulfates	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	EPA 376.2 & EPA 300.0
Total Phosphorus & orthophosphates	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	EPA 365.2

ORIGINAL

Site Name & Address Former USA Station 57
10700 MacArthur Boulevard, Oakland
 Test Well ID Extracting from EX-1 through EX-4

Date 9-11-07
 Test Operators CHILL-GOWRIE
VINCE

ORIGINAL

Equipment Model and Serial Nos. _____
 PID Model MILWAUKEE

Date & Time	DPE System Parameters											199300 Start Totalizer Comments/Notes	
	Hour Meter Reading hrs	System Applied Vacuum "Hg	System Inf Air Flow Rate ¹ (lpm/cfm)	System Inf Air Temp deg F	Dilution Air Flow Rate ² fpm/cfm	Dilution Air Temp deg F	Control Temp deg F	Effluent Air Temp deg F	System Influent PID ppmv	Effluent PID ppmv	Totalizer Reading gallons		
	11489.3												
09:40		15	1900	139	6	0							
10:00	SHUT	AIR	SPARGE	OFF									1.8 CFM TO A2-1 GUAGE PRES. = 3.4 PSI
10:15	11490.5	15	2000	134	2	2	1490	1370	230	2	199320	199320	
11:15	11491.4	14"	2100	140	2	2	1450	1337	140	2	199340	199340	SYSTEM AIR 1115 EFF AIR 1120
9-11-07 0900	onsite	System Down		Generator off									
10:15	11524.0	12"	2500	130	2	2	1450	1374	160	2	199410		
04:10:07 0500	UNIT	Unit Down		Air Pressure Always Present									
0545	11592.6	10" Hg	2500	130	2	2	1483	1359	139	2	199550		

¹ Diameter of the system influent air flow pipe is _____ inches

² Diameter of the dilution air flow pipe is _____ inches

Site Name & Address Former USA Station 57

10700 MacArthur Boulevard, Oakland

Test Well ID Extracting from EX-1 through EX-4

Date 9-19-07

Test Operators CHILL

Equipment Model and Serial Nos. _____

PID Model _____

Date & Time	DPE System Parameters											Comments/Notes
	Hour Meter Reading hrs	System Applied Vacuum "Hg	System Inf Air Flow Rate ¹ fpm/cfm	System Inf Air Temp deg F	Dilution Air Flow Rate ² fpm/cfm	Dilution Air Temp deg F	Control Temp deg F	Effluent Air Temp deg F	System Influent PID ppmv	Effluent PID ppmv	Totalizer Reading gallons	
9-19-07 0700	out of propane will come back 92007 Restart											
9-20-07 0500	11640.0		2000	125	-	-	1538	1404	418	0	199550	Restart
	A/S 40 PSI		2.8 scfm to wells			AS-2 38 PSI		AS-1 30 PSI			A well Head	
9-25-07 900	11668.1	14	2100	134	0	0	1527	1414	400	0	199630	
	A/S	32 PSI	4 scfm to both wells			AS-2 28 PSI		AS-1 18 PSI				
10/3/07 0530	11762.2	8	2700	128	0	0	1480	1396	1060	0	199690	Air Samples Water Samples
10-5-07 0500	Install New compression - SUE system down here Propane											
	11808.8	A/S	up	3.4 scfm to both wells					AS-2 30 PSI		AT well	
									AS-1 30 PSI		AT well	
											199690	

¹ Diameter of the system influent air flow pipe is 3 inches

² Diameter of the dilution air flow pipe is 2 inches

Site Name & Address: Former USA Station 57
 10700 MacArthur Boulevard, Oakland
 Test Well ID: Extracting from EX-1 through EX-4

Date: 103007
 Test Operators: CHILL

Equipment Model and Serial Nos.: 200T CAT LR
 M1294
 PID Model: Mini-Rite

Date & Time	DPE System Parameters											
	Hour Meter Reading hrs	System Applied Vacuum "Hg	System Inf Air Flow Rate ¹ fpm/cfm	System Inf Air Temp deg F	Dilution Air Flow Rate ² fpm/cfm	Dilution Air Temp deg F	Control Temp deg F	Effluent Air Temp deg F	System Influent PID ppmv	Effluent PID ppmv	Totalizer Reading gallons	Comments/Notes
103007 0800												
	Restart system		DPE									
0850	12101	14.5	2400	120	⊗	⊗	1450	1311	69	⊗	199920	
	System was shut off 103007 need inspection											
110700 11007	12108	12	2400	125	⊗	⊗	1485	1379	347	⊗	199990	00057 A SYS INF 0722 00057 A SYS EFF 0720
111407 0600	12269		Generator stop -	Restart			No Readings					00057 W INF 0733 00057 W LTR 0730

¹ Diameter of the system influent air flow pipe is 3 inches

² Diameter of the dilution air flow pipe is 2 inches

APPENDIX B

SAMPLING AND ANALYSIS 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

**CERTIFIED 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

FILE COPY

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 10/15/07

NOV 26 2007

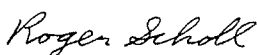

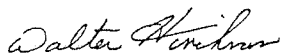
Job#: 2007-0057-01/USA 57

Anions by IC
EPA Method 300.0 / 9056

Parameter	Concentration	Reporting Limit	Date / Time Sampled	Date / Time Analyzed
Client ID : MW-3 Lab ID : STR07101529-01A Nitrite (NO2) - N	ND	250 µg/L	10/15/07 09:54	10/16/07 13:14
Client ID : MW-7 Lab ID : STR07101529-04A Nitrite (NO2) - N	330	250 µg/L	10/15/07 08:11	10/16/07 13:51
Client ID : MW-8 Lab ID : STR07101529-05A Nitrite (NO2) - N	ND D	1,300 µg/L	10/15/07 09:15	10/16/07 17:33
Client ID : S-1 Lab ID : STR07101529-06A Nitrite (NO2) - N	ND	250 µg/L	10/15/07 08:15	10/16/07 15:05

D = Reporting Limits were increased due to high concentrations of non-target analytes.

ND = Not Detected
Reported in micrograms per Liter, per client request.




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

11/15/07
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:
15-Nov-07

QC Summary Report

Work Order:
07101529

Method Blank

File ID: 13	Type MBLK	Test Code: EPA Method 300.0 / 9056									
Sample ID: MB-18524	Units : $\mu\text{g/L}$	Run ID: IC_2_071016A			Batch ID: 18524A					Analysis Date: 10/16/2007 10:28	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Nitrite (NO ₂) - N	ND	250									
Nitrate (NO ₃) - N	ND	250									

Laboratory Fortified Blank

File ID: 14	Type LFB	Test Code: EPA Method 300.0 / 9056									
Sample ID: LFB-18524	Units : $\mu\text{g/L}$	Run ID: IC_2_071016A			Batch ID: 18524A					Analysis Date: 10/16/2007 10:46	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Nitrite (NO ₂) - N	1290	250	1250		104	90	110				
Nitrate (NO ₃) - N	1250	250	1250		100	90	110				

Sample Matrix Spike

File ID: 29	Type LFM	Test Code: EPA Method 300.0 / 9056									
Sample ID: 07101534-01ALFM	Units : $\mu\text{g/L}$	Run ID: IC_2_071016A			Batch ID: 18524A					Analysis Date: 10/16/2007 15:24	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Nitrite (NO ₂) - N	1320	250	1250		0 106	80	120				
Nitrate (NO ₃) - N	2100	250	1250		923.6 94	80	120				

Sample Matrix Spike Duplicate

File ID: 30	Type LFMD	Test Code: EPA Method 300.0 / 9056									
Sample ID: 07101534-01ALFMD	Units : $\mu\text{g/L}$	Run ID: IC_2_071016A			Batch ID: 18524A					Analysis Date: 10/16/2007 15:42	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Nitrite (NO ₂) - N	1270	250	1250		0 102	80	120	1322	3.9(10)		
Nitrate (NO ₃) - N	2140	250	1250		923.6 97	80	120	2100	1.7(10)		

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 :

AMENDED

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 : STR07101529
Report Due By : 5:00 PM On : 24-Oct-07

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

Report Attention	Phone Number	E-Mail Address
Gowri Kowtha	(530) 676-6001 x	gkowtha@stratusinc.net

EDD Required : Yes

Sampled by : David D/Vince Z

PO :
 Client's COC # : 18675 Job : 2007-0057-01/USA 57

Cooler Temp Samples Received Date Printed
 4 °C 15-Oct-07 14-Nov-07

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	3500FE_2O S_W	3500FE_TO T_W	AMMONIA W	ANIONS(A) _W	ANIONS(B) _W	BOD	HETEROTR OPIC	ORTHOPH OS_W	
STR07101529-01A	MW-3	AQ	10/15/07 09:54	13	2	6	FE+2	FE.Total	NH3	NO3.SO4,N O2	NO3.SO4,NO 2	BOD	SUB	Ortho	HPC and BOD subbed to CLS.
STR07101529-02A	MW-4	AQ	10/15/07 07:27	5	0	6									
STR07101529-03A	MW-5	AQ	10/15/07 05:47	5	0	6									
STR07101529-04A	MW-7	AQ	10/15/07 08:11	13	2	6	FE+2	FE.Total	NH3	NO3.SO4,N O2	NO3.SO4,NO 2	BOD	SUB	Ortho	HPC and BOD subbed to CLS.
STR07101529-05A	MW-8	AQ	10/15/07 09:15	13	2	6	FE+2	FE.Total	NH3	NO3.SO4,N O2	NO3.SO4,NO 2	BOD	SUB	Ortho	HPC and BOD subbed to CLS.
STR07101529-06A	S-1	AQ	10/15/07 08:15	13	2	6	FE+2	FE.Total	NH3	NO3.SO4,N O2	NO3.SO4,NO 2	BOD	SUB	Ortho	HPC and BOD subbed to CLS.
STR07101529-07A	S-2	AQ	10/15/07 06:50	5	0	6									

Comments: Chain prelogged 10/15/07 in order for Sac office to sub HPC and BOD to CLS, rest of samples rec'd 10/16/07. Security seals intact. Frozen ice. TOC pH=2. Send copy of receipt checklist with final report. Amended 11/14/07 13:10 to add Nitrite to samples : -01A, -04A, -05A and -06A, per Sonia.KM

Signature	Print Name	Company	Date/Time
<i>K Murray</i>	K Murray	Alpha Analytical, Inc.	11/14/07 1310

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 :

AMENDED

CHAIN-OF-CUSTODY RECORD

CA

Page: 2 of 2

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

WorkOrder : STR07101529

Report Due By : 5:00 PM On : 24-Oct-07

Client:

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

Report Attention	Phone Number	EEmail Address
Gowri Kowtha	(530) 676-6001 x	gkowtha@stratusinc.net

EDD Required : Yes

Sampled by : David D/Vince Z

PO :

Client's COC # : 18675

Job : 2007-0057-01/USA 57

Cooler Temp	Samples Received	Date Printed
4 °C	15-Oct-07	14-Nov-07

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Date Alpha Sub TAT	Requested Tests						Sample Remarks		
				SULFIDE	TDS	TOC_W	TPH/P_W	VOC_W				
STR07101529-01A	MW-3	AQ	10/15/07 09:54	13	2	6	Sulfide	X	TOC	GAS-C	BTEX/OXY/ EDB/1,2- DCA_C	HPC and BOD subbed to CLS.
STR07101529-02A	MW-4	AQ	10/15/07 07:27	5	0	6				GAS-C	BTEX/OXY/ EDB/1,2- DCA_C	
STR07101529-03A	MW-5	AQ	10/15/07 05:47	5	0	6				GAS-C	BTEX/OXY/ EDB/1,2- DCA_C	
STR07101529-04A	MW-7	AQ	10/15/07 08:11	13	2	6	Sulfide	X	TOC	GAS-C	BTEX/OXY/ EDB/1,2- DCA_C	HPC and BOD subbed to CLS.
STR07101529-05A	MW-8	AQ	10/15/07 09:15	13	2	6	Sulfide	X	TOC	GAS-C	BTEX/OXY/ EDB/1,2- DCA_C	HPC and BOD subbed to CLS.
STR07101529-06A	S-1	AQ	10/15/07 08:15	13	2	6	Sulfide	X	TOC	GAS-C	BTEX/OXY/ EDB/1,2- DCA_C	HPC and BOD subbed to CLS.
STR07101529-07A	S-2	AQ	10/15/07 06:50	5	0	6				GAS-C	BTEX/OXY/ EDB/1,2- DCA_C	

Comments: Chain prelogged 10/15/07 in order for Sac office to sub HPC and BOD to CLS, rest of samples rec'd 10/16/07. Security seals intact. Frozen ice. TOC pH=2. Send copy of receipt checklist with final report. Amended 11/14/07 13:10 to add Nitrite to samples : -01A, -04A, -05A and -06A, per Sonia.KM

Signature	Print Name	Company	Date/Time
<i>K Murray</i>	K Murray	Alpha Analytical, Inc.	11/14/07 1310

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



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: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 10/15/07

Job#: 2007-0057-01/USA 57

Anions by IC
EPA Method 300.0 / 9056

	Parameter	Concentration	Reporting Limit	Date / Time Sampled	Date / Time Analyzed
Client ID : MW-3 Lab ID : STR07101529-01A	Nitrite (NO ₂) - N	ND	250 µg/L	10/15/07 09:54	10/16/07 13:14
Client ID : MW-7 Lab ID : STR07101529-04A	Nitrite (NO ₂) - N	330	250 µg/L	10/15/07 08:11	10/16/07 13:51
Client ID : MW-8 Lab ID : STR07101529-05A	Nitrite (NO ₂) - N	ND D	1,300 µg/L	10/15/07 09:15	10/16/07 17:33
Client ID : S-1 Lab ID : STR07101529-06A	Nitrite (NO ₂) - N	ND	250 µg/L	10/15/07 08:15	10/16/07 15:05

D = Reporting Limits were increased due to high concentrations of non-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 / info@alpha-analytical.com

11/15/07

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

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 10/15/07

Job#: 2007-0057-01/USA 57

Iron by Spectrophotometer
SM3500-Fe D

Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID : MW-3 Lab ID : STR07101529-01A	Iron, Ferrous (+2) Iron, Total	1,900 50,000	50 µg/L 3,000 µg/L	10/15/07 10/16/07 10/15/07 10/19/07
Client ID : MW-7 Lab ID : STR07101529-04A	Iron, Ferrous (+2) Iron, Total	ND ND	50 µg/L 300 µg/L	10/15/07 10/16/07 10/15/07 10/19/07
Client ID : MW-8 Lab ID : STR07101529-05A	Iron, Ferrous (+2) Iron, Total	ND 88,000	50 µg/L 3,000 µg/L	10/15/07 10/16/07 10/15/07 10/19/07
Client ID : S-1 Lab ID : STR07101529-06A	Iron, Ferrous (+2) Iron, Total	76 1,800	50 µg/L 300 µg/L	10/15/07 10/16/07 10/15/07 10/19/07

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 / info@alpha-analytical.com

PS
10/23/07
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

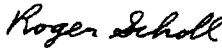

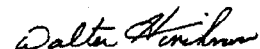
Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 10/15/07

Job#: 2007-0057-01/USA 57

Ammonia as Nitrogen SM4500-NH3D

Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID : MW-3 Lab ID : STR07101529-01A Nitrogen, Ammonia (As N)	ND	100 µg/L	10/15/07	10/19/07
Client ID : MW-7 Lab ID : STR07101529-04A Nitrogen, Ammonia (As N)	ND	100 µg/L	10/15/07	10/19/07
Client ID : MW-8 Lab ID : STR07101529-05A Nitrogen, Ammonia (As N)	ND	100 µg/L	10/15/07	10/19/07
Client ID : S-1 Lab ID : STR07101529-06A Nitrogen, Ammonia (As N)	ND	100 µg/L	10/15/07	10/19/07

ND = Not Detected
Reported in micrograms per Liter, per client request.




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


 10/23/07
 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

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 10/15/07

Job#: 2007-0057-01/USA 57

Total Organic Carbon as NonPurgeable Organic Carbon
EPA Method SW9060/415.1/SM-5310C

	Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID : MW-3 Lab ID : STR07101529-01A	Total Organic Carbon	13,000	4,000 µg/L	10/15/07	10/16/07
Client ID : MW-7 Lab ID : STR07101529-04A	Total Organic Carbon	2,400	1,000 µg/L	10/15/07	10/16/07
Client ID : MW-8 Lab ID : STR07101529-05A	Total Organic Carbon	1,700	1,000 µg/L	10/15/07	10/23/07
Client ID : S-1 Lab ID : STR07101529-06A	Total Organic Carbon	5,600	1,000 µg/L	10/15/07	10/16/07

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 / info@alpha-analytical.com

WJ
10/23/07
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

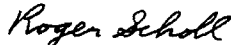


Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 10/15/07

Job#: 2007-0057-01/USA 57

Total Dissolved Solids (TDS) SM2540C

Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID : MW-3 Lab ID : STR07101529-01A Solids, Total Dissolved (TDS)	1,600,000	10,000 µg/L	10/15/07	10/23/07
Client ID : MW-7 Lab ID : STR07101529-04A Solids, Total Dissolved (TDS)	560,000	10,000 µg/L	10/15/07	10/19/07
Client ID : MW-8 Lab ID : STR07101529-05A Solids, Total Dissolved (TDS)	4,500,000	25,000 µg/L	10/15/07	10/22/07
Client ID : S-1 Lab ID : STR07101529-06A Solids, Total Dissolved (TDS)	870,000	10,000 µg/L	10/15/07	10/19/07

Reported in micrograms per Liter, per client request.




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


 10/23/07
 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

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 10/15/07

Job#: 2007-0057-01/USA 57

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

	Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	TPH-P (GRO)	2,000	500 µg/L	10/15/07	10/19/07
MW-3	Tertiary Butyl Alcohol (TBA)	840	50 µg/L	10/15/07	10/19/07
Lab ID :	Methyl tert-butyl ether (MTBE)	610	2.5 µg/L	10/15/07	10/19/07
STR07101529-01A	Di-isopropyl Ether (DIPE)	ND	5.0 µg/L	10/15/07	10/19/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	5.0 µg/L	10/15/07	10/19/07
	1,2-Dichloroethane	110	5.0 µg/L	10/15/07	10/19/07
	Benzene	470	2.5 µg/L	10/15/07	10/19/07
	Tertiary Amyl Methyl Ether (TAME)	ND	5.0 µg/L	10/15/07	10/19/07
	Toluene	2.7	2.5 µg/L	10/15/07	10/19/07
	1,2-Dibromoethane (EDB)	ND	20 µg/L	10/15/07	10/19/07
	Ethylbenzene	23	2.5 µg/L	10/15/07	10/19/07
	m,p-Xylene	ND	2.5 µg/L	10/15/07	10/19/07
	o-Xylene	ND	2.5 µg/L	10/15/07	10/19/07
Client ID :	TPH-P (GRO)	ND	50 µg/L	10/15/07	10/19/07
MW-4	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	10/15/07	10/19/07
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	10/15/07	10/19/07
STR07101529-02A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	10/15/07	10/19/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	10/15/07	10/19/07
	1,2-Dichloroethane	ND	1.0 µg/L	10/15/07	10/19/07
	Benzene	ND	0.50 µg/L	10/15/07	10/19/07
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	10/15/07	10/19/07
	Toluene	ND	0.50 µg/L	10/15/07	10/19/07
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	10/15/07	10/19/07
	Ethylbenzene	ND	0.50 µg/L	10/15/07	10/19/07
	m,p-Xylene	ND	0.50 µg/L	10/15/07	10/19/07
	o-Xylene	ND	0.50 µg/L	10/15/07	10/19/07
Client ID :	TPH-P (GRO)	ND	50 µg/L	10/15/07	10/19/07
MW-5	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	10/15/07	10/19/07
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	10/15/07	10/19/07
STR07101529-03A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	10/15/07	10/19/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	10/15/07	10/19/07
	1,2-Dichloroethane	ND	1.0 µg/L	10/15/07	10/19/07
	Benzene	ND	0.50 µg/L	10/15/07	10/19/07
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	10/15/07	10/19/07
	Toluene	ND	0.50 µg/L	10/15/07	10/19/07
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	10/15/07	10/19/07
	Ethylbenzene	ND	0.50 µg/L	10/15/07	10/19/07
	m,p-Xylene	ND	0.50 µg/L	10/15/07	10/19/07
	o-Xylene	ND	0.50 µg/L	10/15/07	10/19/07



Alpha Analytical, Inc.

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

Client ID :	TPH-P (GRO)	750	50 µg/L	10/15/07	10/19/07
MW-7	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	10/15/07	10/19/07
Lab ID :	Methyl tert-butyl ether (MTBE)	0.81	0.50 µg/L	10/15/07	10/19/07
STR07101529-04A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	10/15/07	10/19/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	10/15/07	10/19/07
	1,2-Dichloroethane	ND	1.0 µg/L	10/15/07	10/19/07
	Benzene	ND	0.50 µg/L	10/15/07	10/19/07
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	10/15/07	10/19/07
	Toluene	ND	0.50 µg/L	10/15/07	10/19/07
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	10/15/07	10/19/07
	Ethylbenzene	ND	0.50 µg/L	10/15/07	10/19/07
	m,p-Xylene	ND	0.50 µg/L	10/15/07	10/19/07
	o-Xylene	ND	0.50 µg/L	10/15/07	10/19/07
Client ID :	TPH-P (GRO)	ND	50 µg/L	10/15/07	10/19/07
MW-8	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	10/15/07	10/19/07
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	10/15/07	10/19/07
STR07101529-05A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	10/15/07	10/19/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	10/15/07	10/19/07
	1,2-Dichloroethane	ND	1.0 µg/L	10/15/07	10/19/07
	Benzene	ND	0.50 µg/L	10/15/07	10/19/07
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	10/15/07	10/19/07
	Toluene	ND	0.50 µg/L	10/15/07	10/19/07
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	10/15/07	10/19/07
	Ethylbenzene	ND	0.50 µg/L	10/15/07	10/19/07
	m,p-Xylene	ND	0.50 µg/L	10/15/07	10/19/07
	o-Xylene	ND	0.50 µg/L	10/15/07	10/19/07
Client ID :	TPH-P (GRO)	ND	50 µg/L	10/15/07	10/19/07
S-1	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	10/15/07	10/19/07
Lab ID :	Methyl tert-butyl ether (MTBE)	50	0.50 µg/L	10/15/07	10/19/07
STR07101529-06A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	10/15/07	10/19/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	10/15/07	10/19/07
	1,2-Dichloroethane	1.8	1.0 µg/L	10/15/07	10/19/07
	Benzene	ND	0.50 µg/L	10/15/07	10/19/07
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	10/15/07	10/19/07
	Toluene	ND	0.50 µg/L	10/15/07	10/19/07
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	10/15/07	10/19/07
	Ethylbenzene	ND	0.50 µg/L	10/15/07	10/19/07
	m,p-Xylene	ND	0.50 µg/L	10/15/07	10/19/07
	o-Xylene	ND	0.50 µg/L	10/15/07	10/19/07
Client ID :	TPH-P (GRO)	260	50 µg/L	10/15/07	10/19/07
S-2	Tertiary Butyl Alcohol (TBA)	22	10 µg/L	10/15/07	10/19/07
Lab ID :	Methyl tert-butyl ether (MTBE)	86	0.50 µg/L	10/15/07	10/19/07
STR07101529-07A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	10/15/07	10/19/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	10/15/07	10/19/07
	1,2-Dichloroethane	3.5	1.0 µg/L	10/15/07	10/19/07
	Benzene	53	0.50 µg/L	10/15/07	10/19/07
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	10/15/07	10/19/07
	Toluene	0.92	0.50 µg/L	10/15/07	10/19/07
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	10/15/07	10/19/07
	Ethylbenzene	ND	0.50 µg/L	10/15/07	10/19/07
	m,p-Xylene	ND	0.50 µg/L	10/15/07	10/19/07
	o-Xylene	1.0	0.50 µg/L	10/15/07	10/19/07



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 / info@alpha-analytical.com

WJG
10/23/07

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: STR07101529

Project: 2007-0057-01/USA 57

Alpha's Sample ID	Client's Sample ID	Matrix	pH
07101529-01A	MW-3	Aqueous	2
07101529-02A	MW-4	Aqueous	2
07101529-03A	MW-5	Aqueous	2
07101529-04A	MW-7	Aqueous	2
07101529-05A	MW-8	Aqueous	2
07101529-06A	S-1	Aqueous	2
07101529-07A	S-2	Aqueous	2

10/23/07

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

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 10/15/07

Job#: 2007-0057-01/USA 57

Orthophosphate in Water EPA Method 365.3 / SM4500PE

	Parameter	Concentration	Reporting Limit	Date / Time Sampled	Date / Time Analyzed
Client ID : MW-3 Lab ID : STR07101529-01A	Total Orthophosphate	ND	100 µg/L	10/15/07 09:54	10/16/07 11:00
Client ID : MW-7 Lab ID : STR07101529-04A	Total Orthophosphate	ND	100 µg/L	10/15/07 08:11	10/16/07 11:03
Client ID : MW-8 Lab ID : STR07101529-05A	Total Orthophosphate	150	100 µg/L	10/15/07 09:15	10/16/07 11:04
Client ID : S-1 Lab ID : STR07101529-06A	Total Orthophosphate	ND	100 µg/L	10/15/07 08:15	10/16/07 11:04

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 / info@alpha-analytical.com

10/23/07

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

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 10/15/07

Job#: 2007-0057-01/USA 57

Anions by IC EPA Method 300.0 / 9056

	Parameter	Concentration	Reporting Limit	Date / Time Sampled	Date / Time Analyzed
Client ID: MW-3 Lab ID: STR07101529-01A	Nitrate (NO3) - N	ND	250 µg/L	10/15/07 09:54	10/16/07 13:14
Client ID: MW-7 Lab ID: STR07101529-04A	Nitrate (NO3) - N	430	250 µg/L	10/15/07 08:11	10/16/07 13:51
Client ID: MW-8 Lab ID: STR07101529-05A	Nitrate (NO3) - N	2,800	1,300 µg/L	10/15/07 09:15	10/16/07 17:33
Client ID: S-1 Lab ID: STR07101529-06A	Nitrate (NO3) - N	ND	250 µg/L	10/15/07 08:15	10/16/07 15:05

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 / info@alpha-analytical.com


10/23/07
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

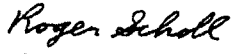
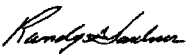
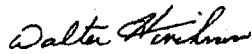
Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job#: 2007-0057-01/USA 57


Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005

Anions by Ion Chromatography (IC) EPA Method 300.0 / SW9056

	Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID: MW-3 Lab ID: STR07101529-01A	Sulfate (SO4)	7,400	1,000 µg/L	10/15/07	10/16/07
Client ID: MW-7 Lab ID: STR07101529-04A	Sulfate (SO4)	49,000	2,000 µg/L	10/15/07	10/16/07
Client ID: MW-8 Lab ID: STR07101529-05A	Sulfate (SO4)	75,000	5,000 µg/L	10/15/07	10/16/07
Client ID: S-1 Lab ID: STR07101529-06A	Sulfate (SO4)	19,000	1,000 µg/L	10/15/07	10/16/07

Reported in micrograms per Liter, per client request.




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


10/23/07

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

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 10/15/07

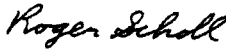

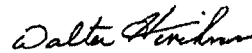
Job#: 2007-0057-01/USA 57

Sulfide
SM4500-S D

Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID: MW-3 Lab ID: STR07101529-01A Sulfide	ND X	500 µg/L	10/15/07	10/17/07
Client ID: MW-7 Lab ID: STR07101529-04A Sulfide	ND	100 µg/L	10/15/07	10/17/07
Client ID: MW-8 Lab ID: STR07101529-05A Sulfide	ND	100 µg/L	10/15/07	10/17/07
Client ID: S-1 Lab ID: STR07101529-06A Sulfide	ND	100 µg/L	10/15/07	10/17/07

X = Reporting Limits were increased due to sample matrix interferences.

ND = Not Detected
Reported in micrograms per Liter, per client request.




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

10/23/07
Report Date



Alpha Analytical, Inc.

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

Date:
23-Oct-07

QC Summary Report

Work Order:
07101529

Method Blank

File ID:	Type MBLK	Test Code: SM3500-Fe D	Batch ID: W1016FR	Analysis Date: 10/16/2007 00:00						
Sample ID: MBLK-W1016FR	Units : µg/L	Run ID: WETLAB_071016D	Prep Date: 10/16/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	ND	50								

Laboratory Control Spike

File ID:	Type LCS	Test Code: SM3500-Fe D	Batch ID: W1016FR	Analysis Date: 10/16/2007 00:00						
Sample ID: LCS-W1016FR	Units : µg/L	Run ID: WETLAB_071016D	Prep Date: 10/16/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1470	50	1500		98	85	115			

Sample Matrix Spike

File ID:	Type MS	Test Code: SM3500-Fe D	Batch ID: W1016FR	Analysis Date: 10/16/2007 00:00						
Sample ID: 07101529-01AMS	Units : µg/L	Run ID: WETLAB_071016D	Prep Date: 10/16/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	3300	50	1500	1882	95	70	130			

Sample Matrix Spike Duplicate

File ID:	Type MSD	Test Code: SM3500-Fe D	Batch ID: W1016FR	Analysis Date: 10/16/2007 00:00						
Sample ID: 07101529-01AMSD	Units : µg/L	Run ID: WETLAB_071016D	Prep Date: 10/16/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	3320	50	1500	1882	96	70	130	3303	0.5(20)	

Comments:

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

Reported in micrograms per 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:
23-Oct-07

QC Summary Report

Work Order:
07101529

Method Blank

File ID:	Type	MBLK	Test Code:	SM3500-Fe D	Batch ID:	W1019FT	Analysis Date:	10/19/2007 00:00		
Sample ID:	Units :	µg/L	Run ID:	WETLAB_071019G	Prep Date:	10/19/2007				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Total	ND		300							

Laboratory Control Spike

File ID:	Type	LCS	Test Code:	SM3500-Fe D	Batch ID:	W1019FT	Analysis Date:	10/19/2007 00:00		
Sample ID:	Units :	µg/L	Run ID:	WETLAB_071019G	Prep Date:	10/19/2007				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Total	9470	300	10000		95	85	115			

Sample Matrix Spike

File ID:	Type	MS	Test Code:	SM3500-Fe D	Batch ID:	W1019FT	Analysis Date:	10/19/2007 00:00		
Sample ID:	Units :	µg/L	Run ID:	WETLAB_071019G	Prep Date:	10/19/2007				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Total	9070	300	10000		0	91	70	130		

Sample Matrix Spike Duplicate

File ID:	Type	MSD	Test Code:	SM3500-Fe D	Batch ID:	W1019FT	Analysis Date:	10/19/2007 00:00		
Sample ID:	Units :	µg/L	Run ID:	WETLAB_071019G	Prep Date:	10/19/2007				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Total	9240	300	10000		0	92	70	130	9074	1.8(20)

Comments:

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

Reported in micrograms per 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:
23-Oct-07

QC Summary Report

Work Order:
07101529

Method Blank

File ID:	Type MBLK	Test Code: SM4500-NH3D	Batch ID: W1019AM	Analysis Date: 10/19/2007 00:00						
Sample ID: MBLK-W1019AM	Units : µg/L	Run ID: WETLAB_071019D	Prep Date: 10/19/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	ND	100								

Laboratory Control Spike

File ID:	Type LCS	Test Code: SM4500-NH3D	Batch ID: W1019AM	Analysis Date: 10/19/2007 00:00						
Sample ID: LCS-W1019AM	Units : µg/L	Run ID: WETLAB_071019D	Prep Date: 10/19/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	5050	100	5000		101	70	130			

Sample Matrix Spike

File ID:	Type MS	Test Code: SM4500-NH3D	Batch ID: W1019AM	Analysis Date: 10/19/2007 00:00						
Sample ID: 07101529-01AMS	Units : µg/L	Run ID: WETLAB_071019D	Prep Date: 10/19/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	5240	100	5000		0	105	65	138		

Sample Matrix Spike Duplicate

File ID:	Type MSD	Test Code: SM4500-NH3D	Batch ID: W1019AM	Analysis Date: 10/19/2007 00:00						
Sample ID: 07101529-01AMSD	Units : µg/L	Run ID: WETLAB_071019D	Prep Date: 10/19/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	5260	100	5000		0	105	65	138	5240	0.4(20)

Comments:

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

Reported in micrograms per 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:
23-Oct-07

OC Summary Report

Work Order:
07101529

Method Blank

File ID:	Type MBLK	Test Code: EPA Method SW9060/415.1/SM-5310C	Batch ID: TOC1016	Analysis Date: 10/16/2007 15:25						
Sample ID: MBLK-TOC1016	Units : µg/L	Run ID: TOC_071016A	Prep Date: 10/16/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	ND	1000								

Laboratory Control Spike

File ID:	Type LCS	Test Code: EPA Method SW9060/415.1/SM-5310C	Batch ID: TOC1016	Analysis Date: 10/16/2007 15:03						
Sample ID: LCS-TOC1016	Units : µg/L	Run ID: TOC_071016A	Prep Date: 10/16/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	4930	1000	5000	99	74	126				

Sample Matrix Spike

File ID:	Type MS	Test Code: EPA Method SW9060/415.1/SM-5310C	Batch ID: TOC1016	Analysis Date: 10/16/2007 20:38						
Sample ID: 07101222-05AMS	Units : µg/L	Run ID: TOC_071016A	Prep Date: 10/16/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	6820	1000	5000	2958	77	56	137			

Sample Matrix Spike Duplicate

File ID:	Type MSD	Test Code: EPA Method SW9060/415.1/SM-5310C	Batch ID: TOC1016	Analysis Date: 10/16/2007 21:05						
Sample ID: 07101222-05AMSD	Units : µg/L	Run ID: TOC_071016A	Prep Date: 10/16/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	7100	1000	5000	2958	83	56	137	6825	3.9(20)	

Comments:

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

Reported in micrograms per 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:
23-Oct-07

QC Summary Report

Work Order:
07101529

Method Blank

File ID:	Type MBLK	Test Code: SM2540C	Batch ID: W1016DS	Analysis Date: 10/18/2007 00:00						
Sample ID: MBLK-W1016DS	Units : µg/L	Run ID: WETLAB_071016F	Prep Date: 10/18/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Solids, Total Dissolved (TDS)	ND	10000								

Laboratory Control Spike

File ID:	Type LCS	Test Code: SM2540C	Batch ID: W1016DS	Analysis Date: 10/18/2007 00:00						
Sample ID: LCS-W1016DS	Units : µg/L	Run ID: WETLAB_071016F	Prep Date: 10/18/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Solids, Total Dissolved (TDS)	196000	10000	200000		98	80	120			

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:
23-Oct-07

QC Summary Report

Work Order:
07101529

Method Blank

File ID: D:\MSDCHEM\MS12\DATA\071019\07101905.D

Type **MBLK** Test Code: EPA Method SW8015B

Batch ID: MS12W1019B

Analysis Date: 10/19/2007 10:09

Sample ID: **MBLK MS12W1019B**

Units: $\mu\text{g/L}$

Run ID: MSD_12_071018A

Prep Date: 10/19/2007

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

ND

50

Surr: 1,2-Dichloroethane-d4

9.38

10

94

75

128

Surr: Toluene-d8

10.4

10

104

80

120

Surr: 4-Bromofluorobenzene

10.7

10

107

80

120

Laboratory Control Spike

File ID: D:\MSDCHEM\MS12\DATA\071019\07101904.D

Type **LCS** Test Code: EPA Method SW8015B

Batch ID: MS12W1019B

Analysis Date: 10/19/2007 09:46

Sample ID: **GLCS MS12W1019B**

Units: $\mu\text{g/L}$

Run ID: MSD_12_071018A

Prep Date: 10/19/2007

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

449

50

400

112

70

130

Surr: 1,2-Dichloroethane-d4

10.4

10

104

75

128

Surr: Toluene-d8

9.63

10

96

80

120

Surr: 4-Bromofluorobenzene

10.3

10

103

80

120

Sample Matrix Spike

File ID: D:\MSDCHEM\MS12\DATA\071019\07101914.D

Type **MS** Test Code: EPA Method SW8015B

Batch ID: MS12W1019B

Analysis Date: 10/19/2007 13:31

Sample ID: **07101529-02AGS**

Units: $\mu\text{g/L}$

Run ID: MSD_12_071018A

Prep Date: 10/19/2007

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

1570

250

2000

0

79

60

131

Surr: 1,2-Dichloroethane-d4

46.9

50

94

75

128

Surr: Toluene-d8

50

50

99.9

80

120

Surr: 4-Bromofluorobenzene

50.9

50

102

80

120

Sample Matrix Spike Duplicate

File ID: D:\MSDCHEM\MS12\DATA\071019\07101915.D

Type **MSD** Test Code: EPA Method SW8015B

Batch ID: MS12W1019B

Analysis Date: 10/19/2007 13:54

Sample ID: **07101529-02AGSD**

Units: $\mu\text{g/L}$

Run ID: MSD_12_071018A

Prep Date: 10/19/2007

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

1590

250

2000

0

79

60

131

1572

1.0(20)

Surr: 1,2-Dichloroethane-d4

47

50

94

75

128

Surr: Toluene-d8

51.3

50

103

80

120

Surr: 4-Bromofluorobenzene

51.6

50

103

80

120

Comments:

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



Alpha Analytical, Inc.

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

Date:
23-Oct-07

QC Summary Report

Work Order:
07101529

Method Blank

File ID: D:\MSDCHEM\MS12\DATA\071019\07101905.D

Type MBLK Test Code: EPA Method SW8260B

Batch ID: MS12W1019A

Analysis Date: 10/19/2007 10:09

Sample ID: MBLK MS12W1019A

Units: µg/L

Run ID: MSD_12_071018A

Prep Date: 10/19/2007

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	10								
Methyl tert-butyl ether (MTBE)	ND	0.5								
Di-isopropyl Ether (DIPE)	ND	1								
Ethyl Tertiary Butyl Ether (ETBE)	ND	1								
1,2-Dichloroethane	ND	1								
Benzene	ND	0.5								
Tertiary Amyl Methyl Ether (TAME)	ND	1								
Toluene	ND	0.5								
1,2-Dibromoethane (EDB)	ND	2								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	9.38		10		94	75	128			
Surr: Toluene-d8	10.4		10		104	80	120			
Surr: 4-Bromofluorobenzene	10.7		10		107	80	120			

Laboratory Control Spike

File ID: D:\MSDCHEM\MS12\DATA\071019\07101903.D

Type LCS

Test Code: EPA Method SW8260B

Batch ID: MS12W1019A

Analysis Date: 10/19/2007 09:23

Sample ID: LCS MS12W1019A

Units: µg/L

Run ID: MSD_12_071018A

Prep Date: 10/19/2007

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	10.4	0.5	10		104	70	130			
Benzene	10.5	0.5	10		105	70	130			
Toluene	9.36	0.5	10		94	80	120			
Ethylbenzene	10.1	0.5	10		101	80	120			
m,p-Xylene	10.8	0.5	10		108	70	130			
o-Xylene	9.84	0.5	10		98	70	130			
Surr: 1,2-Dichloroethane-d4	11.4		10		114	75	128			
Surr: Toluene-d8	9.52		10		95	80	120			
Surr: 4-Bromofluorobenzene	9.51		10		95	80	120			

Sample Matrix Spike

File ID: D:\MSDCHEM\MS12\DATA\071019\07101912.D

Type MS

Test Code: EPA Method SW8260B

Batch ID: MS12W1019A

Analysis Date: 10/19/2007 12:46

Sample ID: 07101529-02AMS

Units: µg/L

Run ID: MSD_12_071018A

Prep Date: 10/19/2007

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	40.2	1.3	50	0	80	62	139			
Benzene	39.3	1.3	50	0	79	70	130			
Toluene	36.5	1.3	50	0	73	67	130			
Ethylbenzene	38.8	1.3	50	0	78	70	130			
m,p-Xylene	41.5	1.3	50	0	83	69	130			
o-Xylene	37.5	1.3	50	0	75	70	130			
Surr: 1,2-Dichloroethane-d4	52.8		50		106	75	128			
Surr: Toluene-d8	47.9		50		96	80	120			
Surr: 4-Bromofluorobenzene	48.8		50		98	80	120			

Sample Matrix Spike Duplicate

File ID: D:\MSDCHEM\MS12\DATA\071019\07101913.D

Type MSD

Test Code: EPA Method SW8260B

Batch ID: MS12W1019A

Analysis Date: 10/19/2007 13:09

Sample ID: 07101529-02AMSD

Units: µg/L

Run ID: MSD_12_071018A

Prep Date: 10/19/2007

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	44.9	1.3	50	0	90	62	139	40.16	11.0(20)	
Benzene	40.5	1.3	50	0	81	70	130	39.25	3.2(20)	
Toluene	37.1	1.3	50	0	74	67	130	36.52	1.5(20)	
Ethylbenzene	38.9	1.3	50	0	78	70	130	38.84	0.2(20)	
m,p-Xylene	42.1	1.3	50	0	84	69	130	41.51	1.5(20)	
o-Xylene	39.4	1.3	50	0	79	70	130	37.53	5.0(20)	
Surr: 1,2-Dichloroethane-d4	52.7		50		105	75	128			
Surr: Toluene-d8	48.1		50		96	80	120			
Surr: 4-Bromofluorobenzene	49.6		50		99	80	120			



Alpha Analytical, Inc.

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

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

Date:

23-Oct-07

OC Summary Report

Work Order:

07101529

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:
16-Oct-07

OC Summary Report

Work Order:
07101529

Method Blank

File ID:	Type	MBLK	Test Code:	EPA Method 365.3 / SM4500PE							
Sample ID:	MBLK-W1016OP	Units : mg/L	Batch ID:	W1016OP	Analysis Date:	10/16/2007 00:00					
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Orthophosphate		ND	0.1								

Laboratory Control Spike

File ID:	Type	LCS	Test Code:	EPA Method 365.3 / SM4500PE							
Sample ID:	LCS-W1016OP	Units : mg/L	Batch ID:	W1016OP	Analysis Date:	10/16/2007 00:00					
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Orthophosphate		1.06	0.1	1	106	73	127				

Sample Matrix Spike

File ID:	Type	MS	Test Code:	EPA Method 365.3 / SM4500PE							
Sample ID:	07101529-01AMS	Units : mg/L	Batch ID:	W1016OP	Analysis Date:	10/16/2007 00:00					
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Orthophosphate		1.09	0.1	1	0	109	73	127			

Sample Matrix Spike Duplicate

File ID:	Type	MSD	Test Code:	EPA Method 365.3 / SM4500PE							
Sample ID:	07101529-01AMSD	Units : mg/L	Batch ID:	W1016OP	Analysis Date:	10/16/2007 00:00					
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Orthophosphate		1.08	0.1	1	0	108	73	127	1.086	0.6(20)	

Comments:

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

Reported in micrograms per 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:
18-Oct-07

QC Summary Report

Work Order:
07101529

Method Blank

File ID: 13 Type MBLK Test Code: EPA Method 300.0 / 9056
Batch ID: 18524B Analysis Date: 10/16/2007 10:28
Sample ID: MB-18524 Units : µg/L Run ID: IC_2_071016A Prep Date: 10/16/2007
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Sulfate (SO4) ND 500

Laboratory Fortified Blank

File ID: 14 Type LFB Test Code: EPA Method 300.0 / 9056
Batch ID: 18524B Analysis Date: 10/16/2007 10:48
Sample ID: LFB-18524 Units : µg/L Run ID: IC_2_071016A Prep Date: 10/16/2007
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Sulfate (SO4) 10200 500 10000 102 90 110

Sample Matrix Spike

File ID: 29 Type LFM Test Code: EPA Method 300.0 / 9056
Batch ID: 18524B Analysis Date: 10/16/2007 15:24
Sample ID: 07101534-01ALFM Units : µg/L Run ID: IC_2_071016A Prep Date: 10/16/2007
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Sulfate (SO4) 21900 500 10000 12380 95 80 120

Sample Matrix Spike Duplicate

File ID: 30 Type LFMD Test Code: EPA Method 300.0 / 9056
Batch ID: 18524B Analysis Date: 10/16/2007 15:42
Sample ID: 07101534-01ALFMD Units : µg/L Run ID: IC_2_071016A Prep Date: 10/16/2007
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Sulfate (SO4) 22200 500 10000 12380 98 80 120 21920 1.3(10)

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:
18-Oct-07

QC Summary Report

Work Order:
07101529

Method Blank

File ID:	Type MBLK	Test Code: SM4500-S D	Batch ID: W1017SU	Analysis Date: 10/17/2007 00:00						
Sample ID: MBLK-W1017SU	Units: µg/L	Run ID: WETLAB_071017A	Prep Date: 10/17/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	ND	100								

Laboratory Control Spike

File ID:	Type LCS	Test Code: SM4500-S D	Batch ID: W1017SU	Analysis Date: 10/17/2007 00:00						
Sample ID: LCS-W1017SU	Units: µg/L	Run ID: WETLAB_071017A	Prep Date: 10/17/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	1120	100	1000		112	75	130			

Sample Matrix Spike

File ID:	Type MS	Test Code: SM4500-S D	Batch ID: W1017SU	Analysis Date: 10/17/2007 00:00						
Sample ID: 07101529-04AMS	Units: µg/L	Run ID: WETLAB_071017A	Prep Date: 10/17/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	1300	100	1000		0	130	65	150		

Sample Matrix Spike Duplicate

File ID:	Type MSD	Test Code: SM4500-S D	Batch ID: W1017SU	Analysis Date: 10/17/2007 00:00						
Sample ID: 07101529-04AMSD	Units: µg/L	Run ID: WETLAB_071017A	Prep Date: 10/17/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	1370	100	1000		0	137	65	150	1303	5.2(20)

Comments:

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

Reported in micrograms per 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:
15-Nov-07

QC Summary Report

Work Order:
07101529

Method Blank

Type **MBLK** Test Code: **EPA Method 300.0 / 9056**

File ID: **13**

Batch ID: **18524A**

Analysis Date: **10/16/2007 10:28**

Sample ID: **MB-18524**

Units : **µg/L**

Run ID: **IC_2_071016A**

Prep Date: **10/16/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	ND	250								
Nitrate (NO3) - N	ND	250								

Laboratory Fortified Blank

Type **LFB** Test Code: **EPA Method 300.0 / 9056**

File ID: **14**

Batch ID: **18524A**

Analysis Date: **10/16/2007 10:46**

Sample ID: **LFB-18524**

Units : **µg/L**

Run ID: **IC_2_071016A**

Prep Date: **10/16/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	1290	250	1250		104	90	110			
Nitrate (NO3) - N	1250	250	1250		100	90	110			

Sample Matrix Spike

Type **LFM** Test Code: **EPA Method 300.0 / 9056**

File ID: **29**

Batch ID: **18524A**

Analysis Date: **10/16/2007 15:24**

Sample ID: **07101534-01ALFM**

Units : **µg/L**

Run ID: **IC_2_071016A**

Prep Date: **10/16/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	1320	250	1250		0	106	80	120		
Nitrate (NO3) - N	2100	250	1250		923.6	94	80	120		

Sample Matrix Spike Duplicate

Type **LFMD** Test Code: **EPA Method 300.0 / 9056**

File ID: **30**

Batch ID: **18524A**

Analysis Date: **10/16/2007 15:42**

Sample ID: **07101534-01ALFMD**

Units : **µg/L**

Run ID: **IC_2_071016A**

Prep Date: **10/16/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	1270	250	1250		0	102	80	120	1322	3.9(10)
Nitrate (NO3) - N	2140	250	1250		923.6	97	80	120	2100	1.7(10)

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.

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

October 29, 2007

CLS Work Order #: CQJ0595
COC #:

Reyna Vallejo
Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project Name: STR07101529

Enclosed are the results of analyses for samples received by the laboratory on 10/15/07 14:15. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

10/29/07 10:33

Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks NV, 89431

Project: STR07101529
Project Number: STR0710529
Project Manager: Reyna Vallejo

CLS Work Order #: CQJ0595
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STR07101529-01A (MW-3) (CQJ0595-01) Water Sampled: 10/15/07 09:54 Received: 10/15/07 14:15									
Biochemical Oxygen Demand	3.6	3.0	mg/L	1	CQ08762	10/22/07	10/27/07	SM5210B	A-COM
STR07101529-04A (MW-7) (CQJ0595-02) Water Sampled: 10/15/07 08:11 Received: 10/15/07 14:15									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CQ08582	10/16/07	10/21/07	SM5210B	
STR07101529-05A (MW-8) (CQJ0595-03) Water Sampled: 10/15/07 09:15 Received: 10/15/07 14:15									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CQ08582	10/16/07	10/21/07	SM5210B	
STR07101529-06A (S-1) (CQJ0595-04) Water Sampled: 10/15/07 08:15 Received: 10/15/07 14:15									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CQ08582	10/16/07	10/21/07	SM5210B	

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com 916-638-7301 Fax: 916-638-4510

CALIFORNIA LABORATORY SERVICES

10/29/07 10:33

Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks NV, 89431

Project: STR07101529
Project Number: STR0710529
Project Manager: Reyna Vallejo

CLS Work Order #: CQJ0595
COC #:

Microbiological Parameters by APHA Standard Methods

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
STR07101529-01A (MW-3) (CQJ0595-01) Water Sampled: 10/15/07 09:54 Received: 10/15/07 14:15									
Plate Count	2800	100	CFU/mL	100	CQ08565	10/15/07	10/17/07	SM 9215	
STR07101529-04A (MW-7) (CQJ0595-02) Water Sampled: 10/15/07 08:11 Received: 10/15/07 14:15									
Plate Count	390	10	CFU/mL	10	CQ08565	10/15/07	10/17/07	SM 9215	
STR07101529-05A (MW-8) (CQJ0595-03) Water Sampled: 10/15/07 09:15 Received: 10/15/07 14:15									
Plate Count	2700	100	CFU/mL	100	CQ08565	10/15/07	10/17/07	SM 9215	
STR07101529-06A (S-1) (CQJ0595-04) Water Sampled: 10/15/07 08:15 Received: 10/15/07 14:15									
Plate Count	5	1	CFU/mL	1	CQ08565	10/15/07	10/17/07	SM 9215	

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com 916-638-7301 Fax: 916-638-4510

CALIFORNIA LABORATORY SERVICES

10/29/07 10:33

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks NV, 89431	Project: STR07101529 Project Number: STR0710529 Project Manager: Reyna Vallejo	CLS Work Order #: CQJ0595 COC #:
--	--	-------------------------------------

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CQ08582 - General										
Blank (CQ08582-BLK1)				Prepared: 10/16/07 Analyzed: 10/21/07						
Biochemical Oxygen Demand	ND	3.0	mg/L							
LCS (CQ08582-BS1)				Prepared: 10/16/07 Analyzed: 10/21/07						
Biochemical Oxygen Demand	171	3.0	mg/L	200		85.5	55-125			
LCS Dup (CQ08582-BSD1)				Prepared: 10/16/07 Analyzed: 10/21/07						
Biochemical Oxygen Demand	174	3.0	mg/L	200		87.0	55-125	1.74	24	
Batch CQ08762 - General										
Blank (CQ08762-BLK1)				Prepared: 10/22/07 Analyzed: 10/27/07						
Biochemical Oxygen Demand	ND	3.0	mg/L							
LCS (CQ08762-BS1)				Prepared: 10/22/07 Analyzed: 10/27/07						
Biochemical Oxygen Demand	168	3.0	mg/L	200		84.0	55-125			
LCS Dup (CQ08762-BSD1)				Prepared: 10/22/07 Analyzed: 10/27/07						
Biochemical Oxygen Demand	168	3.0	mg/L	200		84.0	55-125	0.00	24	

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com 916-638-7301 Fax: 916-638-4510

CALIFORNIA LABORATORY SERVICES

10/29/07 10:33

Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks NV, 89431

Project: STR07101529
Project Number: STR0710529
Project Manager: Reyna Vallejo

CLS Work Order #: CQJ0595
COC #:

Notes and Definitions

- A-COM Sample was initially analyzed within holding time yet did not deplete. Sample was re analyzed using larger sample size outside of holding time.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

Page: 1 of 2

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

WorkOrder : STR07101529
Report Due By : 5:00 PM On : 24-Oct-07

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

Report Attention	Phone Number	Email Address
Gowri Kowtha	(530) 676-6001 x	gkowtha@stratusinc.net

EDD Required : Yes

Sampled by : David D/Vince Z

PO :
 Client's COC # : 18675 Job : 2007-0057-01/USA 57

Cooler Temp	Samples Received	Date Printed
4 °C	15-Oct-07	14-Nov-07

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	3500FE_20 S_W	3500FE_TO T_W	AMMONIA_W	ANIONS(A)_W	ANIONS(B)_W	BOD		HETEROTR OPIC	ORTHOPH OS_W
STR07101529-01A	MW-3	AQ	10/15/07 09:54	13	2	6	FE+2	FE.Total	NH3	NO3,SO4,N O2	NO3,SO4,NO 2	BOD	SUB	Ortho	HPC and BOD subbed to CLS.
STR07101529-02A	MW-4	AQ	10/15/07 07:27	5	0	6									
STR07101529-03A	MW-5	AQ	10/15/07 05:47	5	0	6									
STR07101529-04A	MW-7	AQ	10/15/07 08:11	13	2	6	FE+2	FE.Total	NH3	NO3,SO4,N O2	NO3,SO4,NO 2	BOD	SUB	Ortho	HPC and BOD subbed to CLS.
STR07101529-05A	MW-8	AQ	10/15/07 09:15	13	2	6	FE+2	FE.Total	NH3	NO3,SO4,N O2	NO3,SO4,NO 2	BOD	SUB	Ortho	HPC and BOD subbed to CLS.
STR07101529-06A	S-1	AQ	10/15/07 08:15	13	2	6	FE+2	FE.Total	NH3	NO3,SO4,N O2	NO3,SO4,NO 2	BOD	SUB	Ortho	HPC and BOD subbed to CLS.
STR07101529-07A	S-2	AQ	10/15/07 06:50	5	0	6									

Comments: Chain prelogged 10/15/07 in order for Sac office to sub HPC and BOD to CLS, rest of samples rec'd 10/16/07. Security seals intact. Frozen ice. TOC pH=2. Send copy of receipt checklist with final report. Amended 11/14/07 13:10 to add Nitrite to samples : -01A, -04A, -05A and -06A, per Sonia.KM

Signature	Print Name	Company	Date/Time
<i>K Murray</i>	K Murray	Alpha Analytical, Inc.	11/14/07 13:10

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

CA

Page: 2 of 2

Amended

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

WorkOrder : STR07101529
Report Due By : 5:00 PM On : 24-Oct-07

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

Report Attention	Phone Number	EEmail Address
Gowri Kowtha	(530) 676-6001 x	gkowtha@stratusinc.net

EDD Required : Yes

Sampled by : David D/Vince Z

PO :
 Client's COC # : 18675 Job : 2007-0057-01/USA 57

Cooler Temp 4 °C Samples Received 15-Oct-07 Date Printed 14-Nov-07

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	SULFIDE	TDS	TOC_W	TPH/P_W	VOC_W				
STR07101529-01A	MW-3	AQ	10/15/07 09:54	13	2	6	Sulfide	X	TOC	GAS-C	BTEX/OXY/ EDB/1,2- DCA_C				HPC and BOD subbed to CLS.
STR07101529-02A	MW-4	AQ	10/15/07 07:27	5	0	6				GAS-C	BTEX/OXY/ EDB/1,2- DCA_C				
STR07101529-03A	MW-5	AQ	10/15/07 05:47	5	0	6				GAS-C	BTEX/OXY/ EDB/1,2- DCA_C				
STR07101529-04A	MW-7	AQ	10/15/07 08:11	13	2	6	Sulfide	X	TOC	GAS-C	BTEX/OXY/ EDB/1,2- DCA_C				HPC and BOD subbed to CLS.
STR07101529-05A	MW-8	AQ	10/15/07 09:15	13	2	6	Sulfide	X	TOC	GAS-C	BTEX/OXY/ EDB/1,2- DCA_C				HPC and BOD subbed to CLS.
STR07101529-06A	S-1	AQ	10/15/07 08:15	13	2	6	Sulfide	X	TOC	GAS-C	BTEX/OXY/ EDB/1,2- DCA_C				HPC and BOD subbed to CLS.
STR07101529-07A	S-2	AQ	10/15/07 06:50	5	0	6				GAS-C	BTEX/OXY/ EDB/1,2- DCA_C				

Comments: Chain prelogged 10/15/07 in order for Sac office to sub HPC and BOD to CLS, rest of samples rec'd 10/16/07. Security seals intact. Frozen ice. TOC pH=2. Send copy of receipt checklist with final report. Amended 11/14/07 13:10 to add Nitrite to samples : -01A, -04A, -05A and -06A, per Sonia.KM

Signature	Print Name	Company	Date/Time
<i>K Murray</i>	K Murray	Alpha Analytical, Inc.	11/14/07 1310

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

Page: 1 of 2

Alpha Analytical, Inc.

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

CA

WorkOrder : STR07101529
 Report Due By : 5:00 PM On : 24-Oct-07

Client:

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

Report Attention	Phone Number	E-Mail Address
Gowri Kowtha	(530) 676-6001 x	gkowtha@stratusinc.net

EDD Required : Yes

Sampled by : David D/Vince Z

PO :

Client's COC # : 18675

Job : 2007-0057-01/USA 57

Cooler Temp	Samples Received	Date Printed
4 °C	15-Oct-07	16-Oct-07

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	3500FE_20 S_W	3500FE_TO T_W	AMMONIA W	ANIONS(A) _W	ANIONS(B) _W	BOD	HETEROTR OPIC	ORTHO PH OS_W		
STR07101529-01A	MW-3	AQ	10/15/07 09:54	13	2	6	FE+2	FE>Total	NH3	NO3,S04	NO3,S04	BOD	SUB	Ortho	HPC and BOD subbed to CLS.	
STR07101529-02A	MW-4	AQ	10/15/07 07:27	5	0	6										
STR07101529-03A	MW-5	AQ	10/15/07 05:47	5	0	6										
STR07101529-04A	MW-7	AQ	10/15/07 08:11	13	2	6	FE+2	FE>Total	NH3	NO3,S04	NO3,S04	BOD	SUB	Ortho	HPC and BOD subbed to CLS.	
STR07101529-05A	MW-8	AQ	10/15/07 09:15	13	2	6	FE+2	FE>Total	NH3	NO3,S04	NO3,S04	BOD	SUB	Ortho	HPC and BOD subbed to CLS.	
STR07101529-06A	S-1	AQ	10/15/07 08:15	13	2	6	FE+2	FE>Total	NH3	NO3,S04	NO3,S04	BOD	SUB	Ortho	HPC and BOD subbed to CLS.	
STR07101529-07A	S-2	AQ	10/15/07 06:50	5	0	6										

Comments:

Chain prelogged 10/15/07 in order for Sac office to sub HPC and BOD to CLS, rest of samples rec'd 10/16/07. Security seals intact. Frozen ice. TOC pH=2. Send copy of receipt checklist with final report.

Signature	Print Name	Company	Date/Time
<i>K Murray</i>	K Murray	Alpha Analytical, Inc.	10/16/07 0940

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

CA

Page: 2 of 2

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

WorkOrder : STR07101529
Report Due By : 5:00 PM On : 24-Oct-07

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

Report Attention	Phone Number	E-Mail Address
Gowri Kowtha	(530) 676-6001 x	gkowtha@stratusinc.net

EDD Required : Yes

Sampled by : David D/Vince Z

PO :

Cooler Temp	Samples Received	Date Printed
4 °C	15-Oct-07	16-Oct-07

Client's COC # : 18675

Job : 2007-0057-01/USA 57

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	SULFIDE	TDS	TOC_W	TPHP_W	VOC_W				
STR07101529-01A	MW-3	AQ	10/15/07 09:54	13	2	6	Sulfide	X	TOC	GAS-C	BTEX/OXY/EDB/1,2-DCA_C				HPC and BOD subbed to CLS.
STR07101529-02A	MW-4	AQ	10/15/07 07:27	5	0	6				GAS-C	BTEX/OXY/EDB/1,2-DCA_C				
STR07101529-03A	MW-5	AQ	10/15/07 05:47	5	0	6				GAS-C	BTEX/OXY/EDB/1,2-DCA_C				
STR07101529-04A	MW-7	AQ	10/15/07 08:11	13	2	6	Sulfide	X	TOC	GAS-C	BTEX/OXY/EDB/1,2-DCA_C				HPC and BOD subbed to CLS.
STR07101529-05A	MW-8	AQ	10/15/07 09:15	13	2	6	Sulfide	X	TOC	GAS-C	BTEX/OXY/EDB/1,2-DCA_C				HPC and BOD subbed to CLS.
STR07101529-06A	S-1	AQ	10/15/07 08:15	13	2	6	Sulfide	X	TOC	GAS-C	BTEX/OXY/EDB/1,2-DCA_C				HPC and BOD subbed to CLS.
STR07101529-07A	S-2	AQ	10/15/07 06:50	5	0	6				GAS-C	BTEX/OXY/EDB/1,2-DCA_C				

Comments: Chain prelogged 10/15/07 in order for Sac office to sub HPC and BOD to CLS, rest of samples rec'd 10/16/07. Security seals intact. Frozen ice. TOC pH=2. Send copy of receipt checklist with final report.

Signature	Print Name	Company	Date/Time
<i>K Murray</i>	K Murray	Alpha Analytical, Inc.	10/16/07 0940

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

Billing Information:

Name STRATUS ENVIRONMENTAL INC.
 Address 3330 CAMDEN PARK DR
 City, State, Zip CAMDEN, PA
 Phone Number (530) 676-6001 Fax # _____



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

Samples Collected From Which State?
 AZ _____ CA NV _____ WA _____
 ID _____ OR _____ OTHER _____

Client Name		PO.#	Job #		Analyses Required							Required QC Level?				
USA 57			2007-0057-01		Geo/TPHG	BTEX	5 OLY'S	EDB	1,2-DCA	SEE SIDE COLUMN FOR	ADDITIONAL	I	II	III	IV	
Address 10700 MacARTHUR		E-Mail Address		EDD / EDF? YES X NO _____								Global ID # <u>T060001808</u>				
City, State, Zip OAKLAND, CA		Phone #		Fax #		REMARKS										
Time Sampled	Date Sampled	Matrix See Key Below	Sampled by	Report Attention	Lab ID Number	Sample Description	TAT	Field Filtered	Total and type of containers							
			DAVID VONCEZ	GOWRI				** See below								
0954	10/15	AQ			STR07101529-01	MW-3	SEE LAB		15-HCL-V	X	X	X	X	X	X	* TOTAL IRON - MnO3
0727					02	MW-4	STD		5-HCL-V							* TOC - H2SO4
0547					03	MW-5	STD		5-HCL-V							* SULFIDE - ZINC - Acetate
0811					04	MW-7	SEE LAB		15					X		HEAVY METALS
0915					05	MW-8	SEE LAB		15					X		BOD
0815					06	S-1	SEE LAB		15					X		TDS Sulfate
0650					07	S-2	STD		5-HCL-V							NITRATE - OUTLET
										* HOC And BOD			NOTE: Some Analysis			
										Sub To CLS			STATE 24 & on			
										07101529			48 Hr Holds			

ADDITIONAL INSTRUCTIONS:

Signature	Print Name	Company	Date	Time
<i>David Dello</i>	David Dello	STRATUS ENVIRONMENTAL	10-15-07	1255
<i>Lisa de Silva</i>	Lisa de Silva	ALPHA	10-15-07	1255
<i>K. Murray</i>	K. Murray	AAI	10/16/07	0920

*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 INFORMATION**

Electronic Submittal Information

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

UPLOADING A GEO_WELL FILE

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

Submittal Title:	USA 57, GEO_WELL, Fourth Quarter 2007
Facility Global ID:	T0600101808
Facility Name:	USA PETROLEUM
Submittal Date/Time:	11/2/2007 1:07:49 PM
Confirmation Number:	2219435751

[Back to Main Menu](#)

Logged in as STRATUS NOCAL (AUTH_RP)

[CONTACT SITE ADMINISTRATOR.](#)

Electronic Submittal Information

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Your EDF file has been successfully uploaded!

Confirmation Number: 9578913033

Date/Time of Submittal: 11/9/2007 3:03:46 PM

Facility Global ID: T0600101808

Facility Name: USA PETROLEUM

Submittal Title: GW Analytical Report Fourth Quarter 07

Submittal Type: GW Monitoring Report

USA 57

Electronic Submittal Information

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Your EDF file has been successfully uploaded!

Confirmation Number: 3213383555

Date/Time of Submittal: 11/20/2007 4:14:35 PM

Facility Global ID: T0600101808

Facility Name: USA PETROLEUM

Submittal Title: GW Analytical Report Fourth Quarter 07-II

Submittal Type: GW Monitoring Report

APPENDIX E

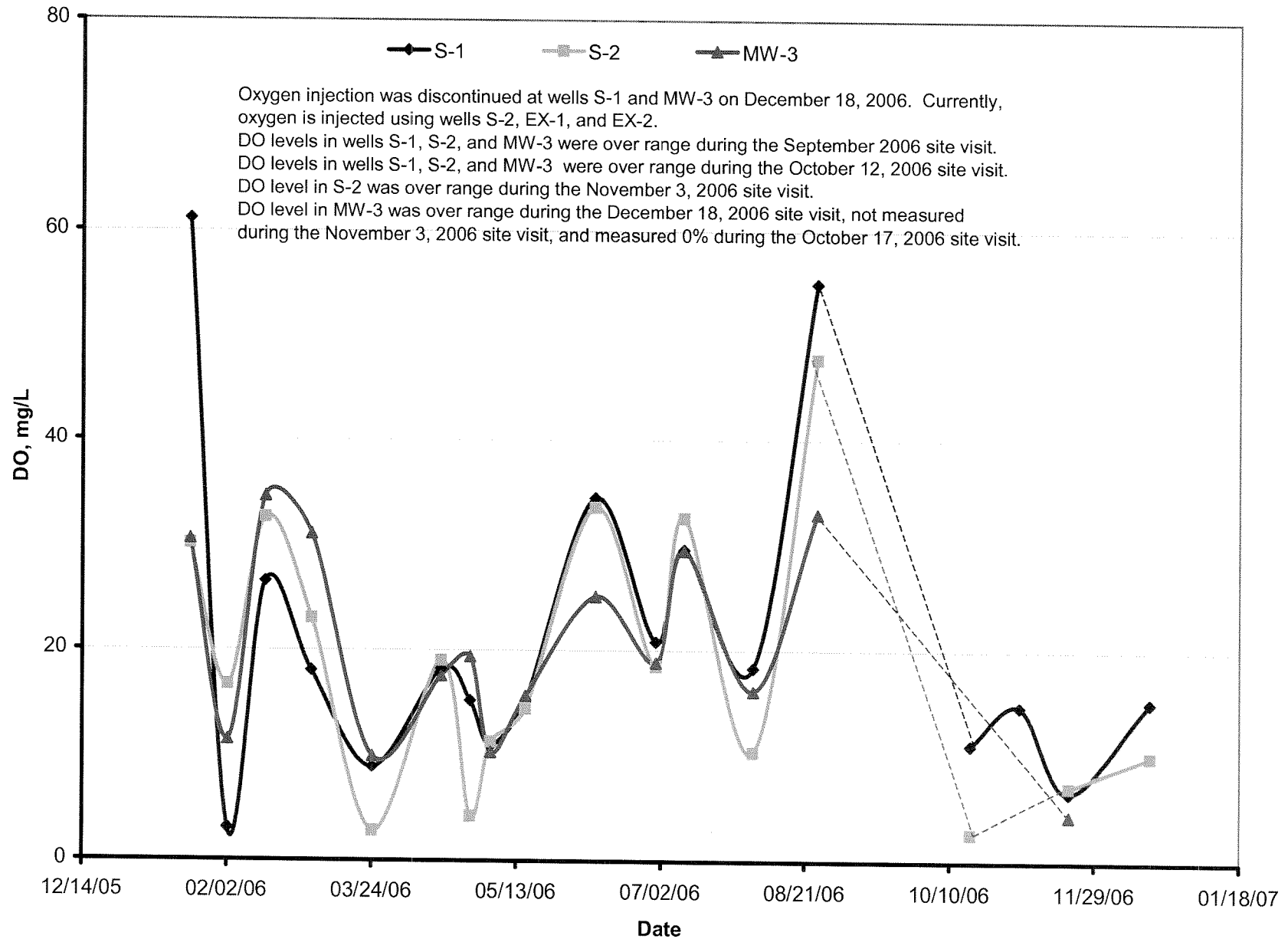
HISTORICAL DO VARIATION WITH TIME AT INJECTION WELLS, AND AT OBSERVATION AND BACKGROUND WELLS

Historical DO Variation with Time at Injection Wells

Former USA Service Station No. 57

10700 MacArthur Boulevard

Oakland, California



Historical DO Variation with Time at Observation and Background Wells

Former USA Service Station No. 57

10700 MacArthur Boulevard

Oakland, California

