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Alameda County
Environmental Health

Declaration from the Responsible Party

Letter Report
Groundwater Monitoring Conducted 8 March 2010
2440 East Eleventh Street
Oakland CA
RO No. 29

Prepared by Streamborn, Dated 20 April 2010

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

Jeffrey Eandi
Vice President
Eandi Metal Works
976 Twenty-Third Avenue
Oakland CA 94606

Signed



Dated 20 April 2010

Jeffrey M. Eandi
Eandi Metal Works
976 Twenty-Third Avenue
Oakland CA 94606

20 April 2010

Project No. P279

Letter Report
Groundwater Monitoring Conducted 8 March 2010
2440 East Eleventh Street
Oakland CA
RO No. 29

Dear Mr. Eandi (hardcopy):

This letter report documents the results of groundwater monitoring conducted 8 March 2010 for monitoring wells MW1, MW2, MW3, MW4, and MW5 at/near the subject property. The results of our work are summarized in the following:

- Table 1 provides a chronology of environmental activities.
- Table 2 provides a bibliography.
- Table 3 summarizes groundwater level and gradient data.
- Table 4 summarizes well purging and sampling information since 2001. Purge water generated during sampling was containerized in labeled drums and stored onsite.
- Table 5 summarizes groundwater analytical data from monitoring wells.
- Figure 1 provides a location map (USGS).
- Figure 2 provides a vicinity map.
- Figure 3 provides a site plan.
- Figure 4 shows the groundwater levels and gradient (8 March 2010).
- Figure 5 shows temporal concentrations of TPH-gasoline in the monitoring wells.
- Figure 6 shows temporal concentrations of benzene in the monitoring wells.
- Attachment 1 contains the groundwater sampling forms.
- Attachment 2 contains the laboratory reports and chain-of-custody forms.

In general, the March 2010 monitoring results were consistent with historic results - contaminant concentrations continue to decrease with time or remain stable with time (Table 5, Figures 5-6).

TPH-gasoline and benzene are the contaminants in groundwater that exceed candidate environmental screening levels (Table 5).

Streamborn has completed a draft of a Feasibility Study/Corrective Action Plan. Before finalizing the document, we recommend that soilgas sampling be conducted in areas of greatest groundwater contamination. Subject to approval from Alameda County, we will prepare a workplan detailing the proposed soilgas sampling.

During the soilgas fieldwork, it may be cost-effective to install one additional monitoring well at the Eandi property at 976 23rd Avenue. The potential well location is shown on Figure 3. Subject to approval from Alameda County, we will detail this monitoring well in the soilgas sampling workplan.

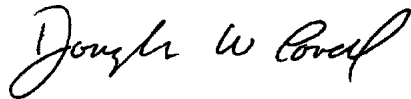
Given the consistent nondetect monitoring results obtained from well MW4, we recommend that monitoring be terminated for this well.

The next groundwater-monitoring event is scheduled circa September/October 2010.

Please contact us with any questions or comments.

Sincerely,

STREAMBORN



Douglas W. Lovell, PE
Geoenvironmental Engineer

Attachments



Electronic Submission: This report, the water levels, and the laboratory EDF were uploaded to Geotracker (<http://geotracker.swrcb.ca.gov/>). This report was also uploaded to the Alameda County server.

Table 1 (Page 1 of 2)
Environmental Chronology
2440 East Eleventh Street
Oakland CA

Date	Performed By	Event
Unknown	Unknown	<ul style="list-style-type: none"> 1,000-gallon underground leaded gasoline tank was installed.
15 August 1991	Eandi Metal Works	<ul style="list-style-type: none"> The 1,000-gallon tank was emptied of product. Use of the tank was discontinued.
11 May 1992	Unknown	<ul style="list-style-type: none"> The 1,000-gallon tank was removed and soil and groundwater contamination was discovered.
10 July 1995	AGI Technologies	<ul style="list-style-type: none"> Five soil borings were drilled. Soil samples were collected and analyzed for TPH-gasoline, BTEX, MtBE, and total metals. Three of the borings were completed as monitoring wells (MW1, MW2, and MW3). The other two borings (E1 and E2) were grouted. Water levels were measured in wells MW1, MW2, and MW3. Wells MW1, MW2, and MW3 were developed and groundwater samples were collected. Samples were analyzed for TPH-gasoline, BTEX, MtBE, and total lead. An elevation survey was conducted for wells MW1, MW2, and MW3.
17 July 1995	AGI Technologies	<ul style="list-style-type: none"> Groundwater levels were measured in wells MW1, MW2, and MW3. Groundwater samples were collected from wells MW1, MW2, and MW3. Samples were analyzed for TPH-gasoline, BTEX, MtBE, and total lead.
20 October 1995	AGI Technologies	<ul style="list-style-type: none"> Groundwater levels were measured in wells MW1, MW2, and MW3. Groundwater samples were collected from wells MW1, MW2, and MW3. Samples were analyzed for TPH-gasoline, BTEX, and total lead.
25 January 1996	AGI Technologies	<ul style="list-style-type: none"> Groundwater levels were measured in wells MW1, MW2, and MW3. Groundwater samples were collected from wells MW1, MW2, and MW3. Samples were analyzed for TPH-gasoline, BTEX, MtBE, and total lead.
25 April 1996	AGI Technologies	<ul style="list-style-type: none"> Groundwater levels were measured in wells MW1, MW2, and MW3. Groundwater samples were collected from wells MW1, MW2, and MW3. Samples were analyzed for TPH-gasoline, BTEX, MtBE, and total lead.
11 - 12 June 2001	Kleinfelder	<ul style="list-style-type: none"> Groundwater levels were measured in wells MW1, MW2, and MW3. Groundwater samples were collected from wells MW1, MW2, and MW3. Samples were analyzed for TPH-gasoline, BTEX, and total lead.
5 February 2002	Kleinfelder	<ul style="list-style-type: none"> Groundwater levels were measured in wells MW1, MW2, and MW3. Groundwater samples were collected from wells MW1, MW2, and MW3. Samples were analyzed for TPH-gasoline, BTEX, MtBE, and total lead.
9 June 2004	Streamborn	<ul style="list-style-type: none"> Using a backhoe, the excavation for the former tank was partially re-excavated. Soil samples were collected from the base (7.5-8 feet below ground surface) and each of the four sidewalls (5-5.5 feet below ground surface) by exposing native soil and driving a brass liner into the exposed soil. Soil samples were analyzed for TPH-diesel/kerosene/stoddard solvent, TPH-gasoline, BTEX, fuel oxygenates, and total lead.
12 August 2004	Streamborn	<ul style="list-style-type: none"> Groundwater levels were measured in wells MW1, MW2, and MW3. Groundwater samples were collected from wells MW1, MW2, and MW3. Samples were analyzed for TPH-gasoline, BTEX, fuel oxygenates, and total lead. Seven geoprobe borings (B1-B7) were drilled to depths between 20 and 32 feet. Soil samples were collected continuously in the borings. Two soil samples were retained from each of the borings for chemical analysis. One soil sample approximately coincided with the depth of groundwater observed during drilling and the other soil sample coincided with the bottom of the boring. Soil samples were analyzed for TPH-gasoline, BTEX, fuel oxygenates, and total lead. Temporary casings were installed in the borings and water levels allowed to stabilize for at least one hour. Water levels were measured. Purged groundwater samples were collected from the temporary casings. Samples were analyzed for TPH-gasoline, BTEX, fuel oxygenates, and total lead. The temporary casings were removed from the borings and the borings were grouted.
17-23 September 2004	Streamborn	<ul style="list-style-type: none"> Using a backhoe, the excavation for the former tank was completely re-excavated. The excavated soil was air-dried and replaced in the excavation using ± 2-foot lifts. Each lift was compacted using a whacker. 6 inches of imported Class II aggregate base was placed as the final lift of soil. The pavement and sidewalk were repaved with reinforced concrete. The concrete thickness was 8 inches. The reinforcement was #5 rebar on 12-inch centers.
2 March 2005	Streamborn	<ul style="list-style-type: none"> Groundwater levels were measured in wells MW1, MW2, and MW3. Groundwater samples were collected from wells MW1, MW2, and MW3. Samples were analyzed for TPH-gasoline, BTEX, and fuel oxygenates.

Table 1 (Page 2 of 2)
Environmental Chronology
2440 East Eleventh Street
Oakland CA

Date	Performed By	Event
28 September 2006	Streamborn	<ul style="list-style-type: none"> • Two direct push borings were drilled to 17 feet. Soil samples were collected continuously during drilling and selected samples were analyzed for TPH-gasoline, BTEX, fuel oxygenates, total lead, and lead scavengers (1,2-dichloroethane and ethylene dibromide). • Each boring was subsequently overdrilled using a hollow-stem auger and completed as a two-inch diameter, 17-foot deep monitoring well (MW4 and MW5). • The elevations of wells MW4 and MW5 were surveyed.
2 October 2006	Streamborn	<ul style="list-style-type: none"> • Wells MW4 and MW5 were developed. • Groundwater levels were measured in wells MW1, MW2, MW3, MW4, and MW5. • Groundwater samples were collected from wells MW1, MW2, MW3, MW4, and MW5. Samples were analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA Method 8260), total lead, and lead scavengers (1,2-dichloroethane and ethylene dibromide).
20 March 2007	Streamborn	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, MW3, MW4, and MW5. • Groundwater samples were collected from wells MW1, MW2, MW3, MW4, and MW5. Samples were analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA Method 8260).
10 September 2007	Streamborn	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, MW3, MW4, and MW5. • Groundwater samples were collected from wells MW1, MW2, MW3, MW4, and MW5. Samples were analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA Method 8260).
10 March 2008	Streamborn	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, MW3, MW4, and MW5. • Groundwater samples were collected from wells MW1, MW2, MW3, MW4, and MW5. Samples were analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA Method 8260).
8 September 2008	Streamborn	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, MW3, MW4, and MW5. • Groundwater samples were collected from wells MW1, MW2, MW3, MW4, and MW5. Samples were analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA Method 8260).
3 March 2009	Streamborn	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, MW3, MW4, and MW5. • Groundwater samples were collected from wells MW1, MW2, MW3, MW4, and MW5. Samples were analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA Method 8260).
28 August 2009	Streamborn	<ul style="list-style-type: none"> • Virgil Chavez Land Surveying (Vallejo CA) surveyed wells MW1 through MW5 to the NAD83 horizontal datum and the NAVD88 vertical datum.
1 September 2009	Streamborn	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, MW3, MW4, and MW5. • Groundwater samples were collected from wells MW1, MW2, MW3, MW4, and MW5. Samples were analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA Method 8260).
8 March 2010	Streamborn	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, MW3, MW4, and MW5. • Groundwater samples were collected from wells MW1, MW2, MW3, MW4, and MW5. Samples were analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA Method 8260).

General Notes

- (a) TPH = total petroleum hydrocarbons.
- (b) BTEX = benzene, toluene, xylenes, and total xylenes.
- (c) MtBE = methyl tert-butyl ether.

Table 2 (Page 1 of 2)
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Oakland CA

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Table 2 (Page 2 of 2)
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2440 East Eleventh Street
Oakland CA

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Table 3
Groundwater Level and Gradient Data
2440 East Eleventh Street
Oakland CA

Location	MW1		MW2		MW3		MW4		MW5		Groundwater Gradient	
Ground Surface Elevation	24.51		24.21		23.06		23.12		22.59			
Casing Diameter (inches)	2		2		2		2		2			
Surveyed Latitude and Longitude (NAD83)	37.7801530 -122.2358181		37.7800499 -122.2358522		37.7800410 -122.2361722		37.7799066 -122.2361136		37.7800613 -122.2363355			
Measuring Point	TOC N Side Elev = 24.14		TOC N Side Elev = 23.92		TOC N Side Elev = 22.69		TOC N Side Elev = 22.45		TOC N Side Elev = 21.94			
Intercepted Interval	Depth	Elev	Depth	Elev	Depth	Elev	Depth	Elev	Depth	Elev	Direction	Magnitude
	9 to 20	4.5 to 15.5	9 to 20	4.2 to 15.2	9 to 20	3.1 to 14.1	6 to 17	6.1 to 17.1	6 to 17	5.6 to 16.6		
14 July 1995	9.72	14.42	10.74	13.18	10.95	11.74						
17 July 1995	11.11	13.03	10.93	12.99	11.04	11.65						
20 October 1995	11.96	12.18	11.92	12.00	12.11	10.58						
25 January 1996	8.14	16.00	8.23	15.69	8.83	13.86						
11-12 June 2001	10.35	13.79	11.50	12.42	11.08	11.61						
5 February 2002	11.00	13.14	11.10	12.82	11.30	11.39						
12 August 2004	10.95	13.19	11.17	12.75	11.77	10.92					N 115° W	0.02
2 March 2005	8.25	15.89	8.44	15.48	9.36	13.33					N 120° W	0.03
2 October 2006	11.08	13.06	11.15	12.77	11.79	10.90	11.48	10.97	11.28	10.66	N 126° W	0.02
20 March 2007	10.96	13.18	10.78	13.14	10.91	11.78	10.57	11.88	10.41	11.53	N 127° W	0.01
10 September 2007	11.24	12.90	11.54	12.38	12.20	10.49	11.91	10.54	11.68	10.26	N 128° W	0.02
10 March 2008	10.74	13.40	10.89	13.03	10.60	12.09	10.28	12.17	10.16	11.78	N 114° W	0.01
8 September 2008	11.73	12.41	11.42	12.50	12.09	10.60	11.77	10.68	11.57	10.37	N 124° W	0.01
3 March 2009	8.31	15.83	8.22	15.70	9.30	13.39	8.98	13.47	8.93	13.01	N 117° W	0.02
1 September 2009	10.99	13.15	11.29	12.63	11.97	10.72	11.68	10.77	11.45	10.49	N 114° W	0.02
8 March 2010	9.00	15.14	8.98	14.94	9.84	12.85	9.48	12.97	9.43	12.51	N 116° W	0.02
Total Depth (Last Measurement)	19.8		19.8		19.6		17.3		17.2			

General Notes

- (a) Elevations are cited in units of feet, relative to the NAVD88 datum (NOT Mean Sea Level).
- (b) TOC = top of PVC casing. N = north. Measuring points were the top of the PVC casing, north side.
- (c) The intercepted intervals correspond to the sand pack interval. The depths of the intercepted intervals were measured relative to ground surface.
- (d) On 28 August 2009, Virgil Chavez Land Surveying (Vallejo CA) surveyed wells MW1 through MW5. Horizontal coordinates were surveyed relative to the NAD83 datum. Elevations were surveyed relative to the NAVD88 datum. According to Virgil Chavez Land Surveying, subtract 2.726 feet from the NAVD88 elevations to convert to NGVD29 (Mean Sea Level) datum. Previous surveys had been conducted by HTT Engineering (Oakland CA) and Streamborn; however, the data in this table are based solely on the survey by Virgil Chavez Land Surveying.

Table 4
Well Purging and Sampling Information Since 2001
2440 East Eleventh Street
Oakland CA

Well No.	Sample Date	Sample Type	Purge Method	Purge Duration (minutes)	Approximate Volume Purged (gallons)	Volume Purged (static water casing volumes)	Purged Dry?	Dissolved Oxygen (mg/L)	pH	Specific Conductance (µS/cm)	Temp (°C)	ORP (mV)	Turbidity/Color
MW1	11 Jun 01	Grab	SPP	NM	20	NC	no	NM	6.8	310	21.4	NM	NM
	5 Feb 02	Grab	SPP	NM	4	NC	no	NM	6.6	290	18.8	NM	NM
	12 Aug 04	Grab	SPP	4	5	±3	no	1.1	7.0	230	18.8	-130	Clear/none
	2 Mar 05	Grab	SPP	7	6	±3	no	2.2	6.9	230	17.1	-160	Clear/none
	2 Oct 06	Grab	SPP	7	5	±3	no	1.0	6.6	380	17.7	-130	Translucent/gray
	20 Mar 07	Grab	SPP	25	5	±3	no	0.8	6.8	410	16.1	-130	Clear/none
	10 Sep 07	Grab	SPP	8	5	±3	no	0.9	6.7	480	18.0	-100	Clear/none
	10 Mar 08	Grab	SPP	11	5	±3	no	0.7	6.9	410	16.6	-110	Clear/none
	8 Sep 08	Grab	SPP	6	4	±3	no	1.0	6.9	530	18.4	-80	Clear/none
	3 Mar 09	Grab	SPP	11	6	±3	no	0.8	6.8	480	15.8	-60	Clear/none
1 Sep 09	Grab	SPP	15	5	±3	no	0.8	6.8	500	19.2	-80	Clear/none	
8 Mar 10	Grab	SPP	23	7	±4	no	0.7	6.8	450	17.4	-90	Clear/none	
MW2	12 Jun 01	Grab	SPP	NM	15	NC	no	NM	7.1	430	17.2	NM	NM
	5 Feb 02	Grab	SPP	NM	4	NC	no	NM	6.6	400	16.8	NM	NM
	12 Aug 04	Grab	SPP	4	5	±3	no	2.0	6.8	510	18.9	-170	Turbid/gray
	2 Mar 05	Grab	SPP	7	6	±3	no	2.2	6.7	490	17.7	-220	Clear/none
	2 Oct 06	Grab	SPP	7	5	±3	no	1.0	6.7	490	18.0	-110	Clear/none
	20 Mar 07	Grab	SPP	20	5	±3	no	1.0	6.9	490	16.7	-170	Clear/none
	10 Sep 07	Grab	SPP	7	4	±3	no	0.7	6.8	560	19.6	-110	Clear/none
	10 Mar 08	Grab	SPP	11	5	±3	no	0.9	7.1	520	17.1	-90	Clear/none
	8 Sep 08	Grab	SPP	7	5	±3	no	1.5	7.5	670	19.0	-50	Clear/none
	3 Mar 09	Grab	SPP	11	6	±3	no	0.9	6.9	690	15.9	-50	Clear/none
1 Sep 09	Grab	SPP	14	5	±3	no	0.7	6.9	670	21.1	-60	Translucent/gray	
8 Mar 10	Grab	SPP	24	7	±4	no	0.8	6.8	630	17.4	-70	Clear/none	
MW3	12 Jun 01	Grab	SPP	NM	12	NC	no	NM	7.4	440	17.2	NM	NM
	5 Feb 02	Grab	SPP	NM	4	NC	no	NM	6.6	410	17.8	NM	NM
	12 Aug 04	Grab	SPP	8	4	±3	no	1.7	6.6	440	19.0	-150	Clear/none
	2 Mar 05	Grab	SPP	6	5	±3	no	2.3	6.8	500	18.1	-200	Clear/none
	2 Oct 06	Grab	SPP	6	4	±3	no	1.0	6.8	490	18.8	-60	Clear/none
	20 Mar 07	Grab	SPP	25	4	±3	no	1.6	6.7	540	16.8	-60	Clear/none
	10 Sep 07	Grab	SPP	7	4	±3	no	0.9	6.7	530	18.8	-120	Clear/none
	10 Mar 08	Grab	SPP	10	5	±3	no	0.7	7.1	510	17.5	-100	Clear/none
	8 Sep 08	Grab	SPP	6	4	±3	no	1.0	7.0	600	19.3	-50	Clear/none
	3 Mar 09	Grab	SPP	7	5	±3	no	0.9	6.8	620	16.7	-50	Clear/none
1 Sep 09	Grab	SPP	12	4	±3	no	0.8	6.8	570	19.6	-60	Clear/none	
8 Mar 10	Grab	SPP	15	5	±3	no	0.7	6.8	540	16.9	-70	Clear/none	
MW4	2 Oct 06	Grab	SPP	24	14	±16	no	4.6	7.1	630	18.5	180	Translucent/brown
	20 Mar 07	Grab	SPP	15	3	±3	no	1.2	6.5	470	15.7	170	Clear/none
	10 Sep 07	Grab	SPP	7	3	±3	no	1.4	6.4	490	18.1	120	Translucent/gray
	10 Mar 08	Grab	SPP	9	4	±3	no	1.4	6.6	480	15.9	120	Clear/none
	8 Sep 08	Grab	SPP	4	3	±3	no	1.3	6.6	560	18.1	140	Clear/none
	3 Mar 09	Grab	SPP	7	4	±3	no	2.0	6.6	590	15.8	280	Clear/none
	1 Sep 09	Grab	SPP	9	3	±3	no	0.9	6.6	530	18.3	130	Clear/none
8 Mar 10	Grab	SPP	10	4	±3	no	1.1	6.6	460	16.0	170	Clear/none	
MW5	2 Oct 06	Grab	SPP	35	22	±24	no	3.4	7.0	600	19.1	30	Translucent/brown
	20 Mar 07	Grab	SPP	23	3	±3	no	0.9	6.9	580	16.6	-70	Clear/none
	10 Sep 07	Grab	SPP	7	3	±3	no	0.8	6.8	630	19.5	-90	Clear/none
	10 Mar 08	Grab	SPP	11	4	±3	no	1.0	7.1	570	16.6	-100	Clear/none
	8 Sep 08	Grab	SPP	4	3	±3	no	1.0	7.1	730	20.4	-80	Clear/none
	3 Mar 09	Grab	SPP	8	4	±3	no	0.8	6.9	670	16.1	-80	Clear/none
	1 Sep 09	Grab	SPP	9	3	±3	no	0.9	6.8	660	19.9	-70	Clear/none
8 Mar 10	Grab	SPP	8	4	±3	no	0.7	6.9	570	15.9	-90	Clear/none	

General Notes

- (a) NM = not measured.
- (b) NC = not calculated.
- (c) ORP = oxidation-reduction potential.
- (d) SPP = submersible purge pump.
- (d) Measurements cited in this table correspond to the end of purging (time of sampling).

Table 5 (Page 1 of 2)
Groundwater Analytical Data from Monitoring Wells
2440 East Eleventh Street
Oakland CA

Location	Sample Date	Sample Type	Total Lead (µg/L)	TPH-Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	1,2-Dichloroethane (µg/L)	Ethylene Dibromide (µg/L)	MtBE (µg/L)	Other Fuel Oxygenates (EPA Method 8260) (µg/L)
MW1	17 Jul 1995	Grab	<40	22,000	390	2,000	800	5,300	NM	NM	<125	NM
	20 Oct 1995	Grab	<40	14,000	270	540	360	1,800	NM	NM	NM	NM
	25 Jan 1996	Grab	<40	16,000	740	1,300	490	2,700	NM	NM	<500	NM
	25 Apr 1996	Grab	<40	4,600	180	450	190	1,000	NM	NM	<250	NM
	11 Jun 2001	Grab	14	7,100	14	35	240	720	NM	NM	NM	NM
	5 Feb 2002	Grab	3.7	9,300	6.3	11	230	560	NM	NM	<0.70	NM
	12 Aug 2004	Grab	<5.0	2,900	9.1	6.0	130	160	NM	NM	0.72	<0.50 to <50
	2 Mar 2005	Grab	NM	950	1.9	0.60	19	4.0	NM	NM	0.80	<0.50 to <50
	2 Oct 2006	Grab	<100	830	4.1	0.80	44	7.8	<0.50	<0.50	<0.50	<0.50 to <100
	20 Mar 2007	Grab	NM	470	2.1	<0.50	8.5	1.8	<0.50	NM	0.63	<0.50 to <100
	10 Sep 2007	Grab	NM	3,400	18	6.4	170	43	<0.50	NM	1.1	<0.50 to <100
	10 Mar 2008	Grab	NM	950	2.9	0.66	19	1.9	<0.50	NM	0.72	<0.50 to <100
	8 Sep 2008	Grab	NM	3,600	14	6.5	200	19	<0.50	NM	0.62	<0.50 to <100
	3 Mar 2009	Grab	NM	1,600	5.2	2.1	68	9.7	NM	NM	0.56	<0.50 to <5.0
1 Sep 2009	Grab	NM	1,700	7.0	2.2	64	4.2	NM	NM	<0.50	<0.50 to <5.0	
8 Mar 2010	Grab	NM	400	1.0	<0.50	17	1.2	NM	NM	<0.50	<0.50 to <4.0	
MW2	17 Jul 1995	Grab	56.4	21,000	370	1,700	930	5,100	NM	NM	<125	<0.50 to <5.0
	20 Oct 1995	Grab	<40	730	18	27	26	7.9	NM	NM	NM	NM
	25 Jan 1996	Grab	<40	14,000	74	660	1,000	2,600	NM	NM	670	NM
	25 Apr 1996	Grab	<40	13,000	370	440	1,000	2,900	NM	NM	<500	NM
	12 Jun 2001	Grab	7.7	3,200	11	6.2	170	270	NM	NM	NM	NM
	5 Feb 2002	Grab	3.5	2,900	7.6	3.8	220	160	NM	NM	<0.70	NM
	12 Aug 2004	Grab	<5.0	3,100	2.6	1.8	<0.50	13	NM	NM	<0.50	<0.50 to <5.0
	2 Mar 2005	Grab	NM	3,700	<5.0	<2.5	340	22	NM	NM	<2.5	<2.5 to <25
	2 Oct 2006	Grab	<100	7,200	<2.5	3.0	380	30	<2.5	<2.5	<2.5	<2.5 to <500
	20 Mar 2007	Grab	NM	7,000	<5.0	<5.0	370	34	<5.0	NM	<5.0	<5.0 to <1,000
	10 Sep 2007	Grab	NM	9,300	<2.5	3.8	530	38	<2.5	NM	<2.5	<2.5 to <500
	10 Mar 2008	Grab	NM	6,500	<2.5	<2.5	200	13	<2.5	NM	<2.5	<2.5 to <500
	8 Sep 2008	Grab	NM	7,300	<2.5	<2.5	290	12	<2.5	NM	<2.5	<2.5 to <500
	3 Mar 2009	Grab	NM	3,700	<0.50	1.1	<0.50	4.7	NM	NM	<0.50	<0.50 to <5.0
1 Sep 2009	Grab	NM	5,100	1.4	1.8	140	9.2	NM	NM	<1.0	<1.0 to <10	
8 Mar 2010	Grab	NM	2,400	1.7	2.3	100	7.7	NM	NM	<1.0	<1.0 to <8.0	
MW3	17 Jul 1995	Grab	153	8,400	1,200	150	1,000	1,700	NM	NM	<125	NM
	20 Oct 1995	Grab	<40	5,800	600	590	43	340	NM	NM	NM	NM
	25 Jan 1996	Grab	<40	10,000	1,200	290	870	1,300	NM	NM	<250	NM
	25 Apr 1996	Grab	<40	8,900	830	140	1,000	1,000	NM	NM	400	NM
	12 Jun 2001	Grab	7.4	1,800	37	4.5	98	19	NM	NM	NM	NM
	5 Feb 2002	Grab	4.4	1,100	32	2.1	76	9.5	NM	NM	<0.50	NM
	12 Aug 2004	Grab	<50	1,100	4.5	<0.50	6.0	1.8	NM	NM	1.4	<0.50 to <5.0
	2 Mar 2005	Grab	NM	3,000	27	3.0	76	22	NM	NM	<2.5	<2.5 to <25
	2 Oct 2006	Grab	<100	1,500	6.6	<0.50	5.0	2.5	<0.50	<0.50	<0.50	<0.50 to <100
	20 Mar 2007	Grab	NM	2,200	15	1.6	14	12	<0.50	NM	0.52	<0.50 to <100
	10 Sep 2007	Grab	NM	1,000	4.2	<0.50	<0.50	0.82	<0.50	NM	0.53	<0.50 to <100
	10 Mar 2008	Grab	NM	4,000	13	1.1	7.0	7.4	<0.50	NM	<0.50	TAME = 0.53 Others <0.50 to <100
	8 Sep 2008	Grab	NM	1,100	9.7	0.75	7.7	5.9	<0.50	NM	0.59	<0.50 to <100
	3 Mar 2009	Grab	NM	2,100	14	1.6	16	14	NM	NM	<0.50	<0.50 to <5.0
1 Sep 2009	Grab	NM	1,400	4.7	<0.50	0.52	1.7	NM	NM	<0.50	<0.50 to <5.0	
8 Mar 2010	Grab	NM	2,500	13	1.1	6.8	15	NM	NM	<0.50	<0.50 to <4.0	
MW4	2 Oct 2006	Grab	<100	<50	<0.50	<0.50	0.96	<0.50	<0.50	<0.5	<0.5	<0.50 to <100
	20 Mar 2007	Grab	NM	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NM	<0.5	<0.50 to <100
	10 Sep 2007	Grab	NM	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NM	<0.5	<0.50 to <100
	10 Mar 2008	Grab	NM	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NM	<0.5	<0.50 to <100
	8 Sep 2008	Grab	NM	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NM	<0.5	<0.50 to <100
	3 Mar 2009	Grab	NM	<50	<0.50	<0.50	<0.50	<1.0	NM	NM	<0.5	<0.50 to <5.0
	1 Sep 2009	Grab	NM	<50	<0.50	<0.50	<0.50	<1.0	NM	NM	<0.5	<0.50 to <5.0
8 Mar 2010	Grab	NM	<50	<0.50	<0.50	<0.50	<1.0	NM	NM	<0.50	<0.50 to <4.0	

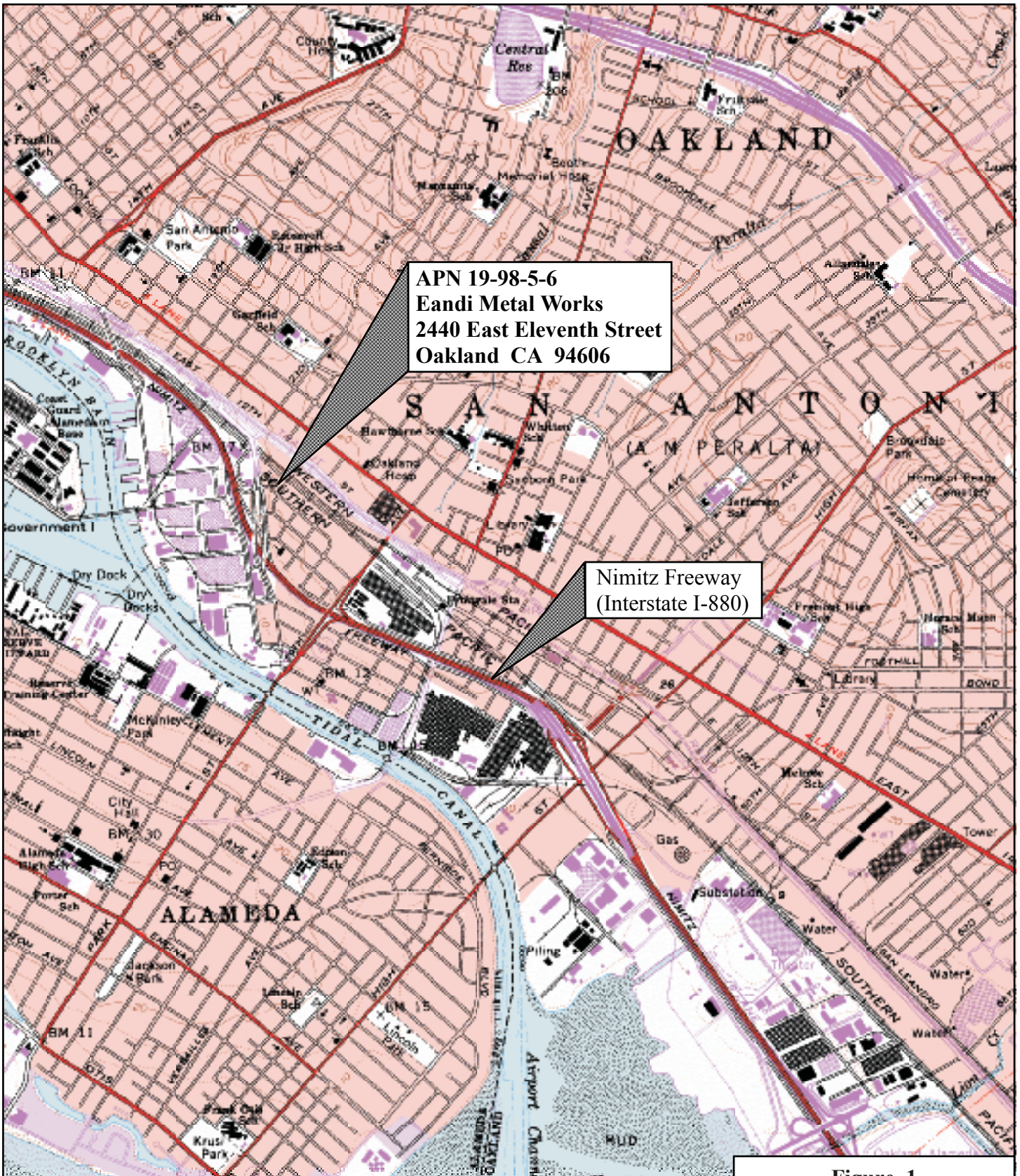
Table 5 (Page 2 of 2)
Groundwater Analytical Data from Monitoring Wells
2440 East Eleventh Street
Oakland CA

Location	Sample Date	Sample Type	Total Lead (µg/L)	TPH-Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	1,2-Dichloroethane (µg/L)	Ethylene Dibromide (µg/L)	MtBE (µg/L)	Other Fuel Oxygenates (EPA Method 8260) (µg/L)
MW5	2 Oct 2006	Grab	<100	3,000	20	0.97	69	130	<0.50	<0.50	2.6	<0.50 to <100
	20 Mar 2007	Grab	NM	2,800	13	1.5	27	35	<0.50	NM	1.6	<0.50 to <100
	10 Sep 2007	Grab	NM	1,900	11	0.78	10	9.2	<0.50	NM	2.5	<0.50 to <100
	10 Mar 2008	Grab	NM	4,900	7.8	1.4	13	12	<0.50	NM	1.2	<0.50 to <100
	8 Sep 2008	Grab	NM	2,300	9.7	0.75	7.7	5.9	<0.50	NM	2.3	<0.50 to <100
	3 Mar 2009	Grab	NM	2,600	11	4	60	30	NM	NM	<2.5	<2.5 to <25
	1 Sep 2009	Grab	NM	1,800	5.5	0.68	5.5	2.5	NM	NM	0.98	<0.50 to <5.0
	8 Mar 2010	Grab	NM	2,100	6.0	1.8	14	9.4	NM	NM	<0.50	<0.50 to <4.0

Environmental Screening Level - California Maximum Contaminant Levels (drinking water criteria)	15		1.0	150	300	1,750	0.5	0.050				
Environmental Screening Level - Risk-Based Drinking Water Equivalent for Carcinogens, 10-6 Excess Cancer Risk (drinking water criteria)			0.35		3.2		0.38	0.0097				
Environmental Screening Level - California Office of Environmental Health Hazard Assessment (OEHHA), Public Health Goal (PHG) (drinking water criteria)	2.0		0.15	150	300	1,800	0.4					
Environmental Screening Level - Taste and Odor Threshold (drinking water criteria)	50,000	100	170	40	30	20	700	50,000				
Environmental Screening Level - Volatilization from Groundwater and Subsequent Vapor Intrusion, Residential Use		Measure Soilgas	540	380,000	170,000	160,000	200	150				
Environmental Screening Level - Volatilization from Groundwater and Subsequent Vapor Intrusion, Commercial Use		Measure Soilgas	1,800	530,000	170,000	160,000	690	510				
Environmental Screening Level - Gross Contamination Ceiling Value for Groundwater (nuisance odors, etc.)	50,000	5,000	20,000	400	300	5,300	50,000	50,000				
Environmental Screening Level - Estuarine Surface Water - Chronic Habitat Aquatic Toxicity	2.5	210	46	130	43	100	2,000	1,400				
Environmental Screening Level - Estuarine Surface Water - Bioaccumulation/Human Consumption			71	200,000	29,000		99					

General Notes

- (a) TPH = total petroleum hydrocarbons. MtBE = methyl tert-butyl ether. TAME = tert-amyl methyl ether.
- (b) NM = not measured.
- (c) Samples were collected using a Teflon bailer fitted with a bottom-emptying device.
- (d) Environmental Screening Levels from: *Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (Interim Final - November 2007, Revised May 2008)*. Prepared by San Francisco Bay Regional Water Quality Control Board, Oakland CA. 27 May 2008. www.waterboards.ca.gov/sanfranciscobay/esl.shtml



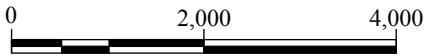
APN 19-98-5-6
Eandi Metal Works
2440 East Eleventh Street
Oakland CA 94606

Nimitz Freeway
(Interstate I-880)

Figure 1
Location Map
2440 East Eleventh Street
Oakland CA



Approximate Scale in Miles



Approximate Scale in Feet

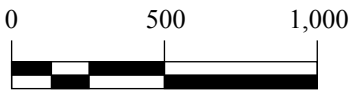


Basemap: U.S. Geological Survey, 7.5 Minute Quadrangle, Oakland East CA. 1959 (Photorevised 1980)



APN 19-98-5-6
Eandi Metal Works
2440 East Eleventh Street
Oakland CA 94606

Nimitz Freeway
(Interstate I-880)



Approximate Scale in Feet



Basemap: Aerial photograph, flown 24 August 1998, photograph ALA-AV-6100-11-38. Pacific Aerial Surveys, Oakland CA.

Figure 2

Vicinity Map

2440 East Eleventh Street
Oakland CA

Legend

-  Existing monitoring well
-  Proposed monitoring well

Location of former 1,000-gallon underground gasoline tank

APN 19-98-5-6
Eandi Metal Works
2440 East Eleventh Street
Oakland CA

Eandi Metal Works
976 23rd Avenue
Oakland CA

MW5

MW3

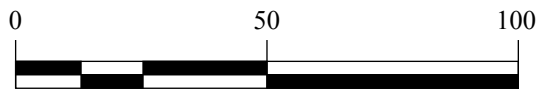
MW2

MW1

MW4

East Eleventh Street

25th Avenue



Approximate Scale in Feet

Basemap: Aerial photograph, flown 24 August 1998, photograph number ALA-AV-6100-11-38, original scale 1:12,000. Pacific Aerial Surveys, Oakland CA

Figure 3

Site Plan

**2440 East Eleventh Street
Oakland CA**

Legend



Location of former 1,000-gallon underground gasoline tank

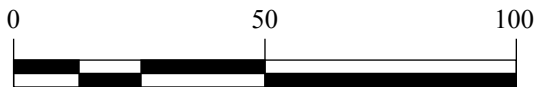
APN 19-98-5-6
Eandi Metal Works
2440 East Eleventh Street
Oakland CA

Eandi Metal Works
976 23rd Avenue
Oakland CA

Measured groundwater gradient:
Direction = N 116° W
Magnitude = 0.02



Note - Groundwater elevations cited in units of feet, referenced to the NAVD88 Datum (NOT Mean Sea Level)



Approximate Scale in Feet

Basemap: Aerial photograph, flown 24 August 1998, photograph number ALA-AV-6100-11-38, original scale 1:12,000. Pacific Aerial Surveys, Oakland CA

Figure 4

Groundwater Levels and Gradient
(8 March 2010)

2440 East Eleventh Street
Oakland CA

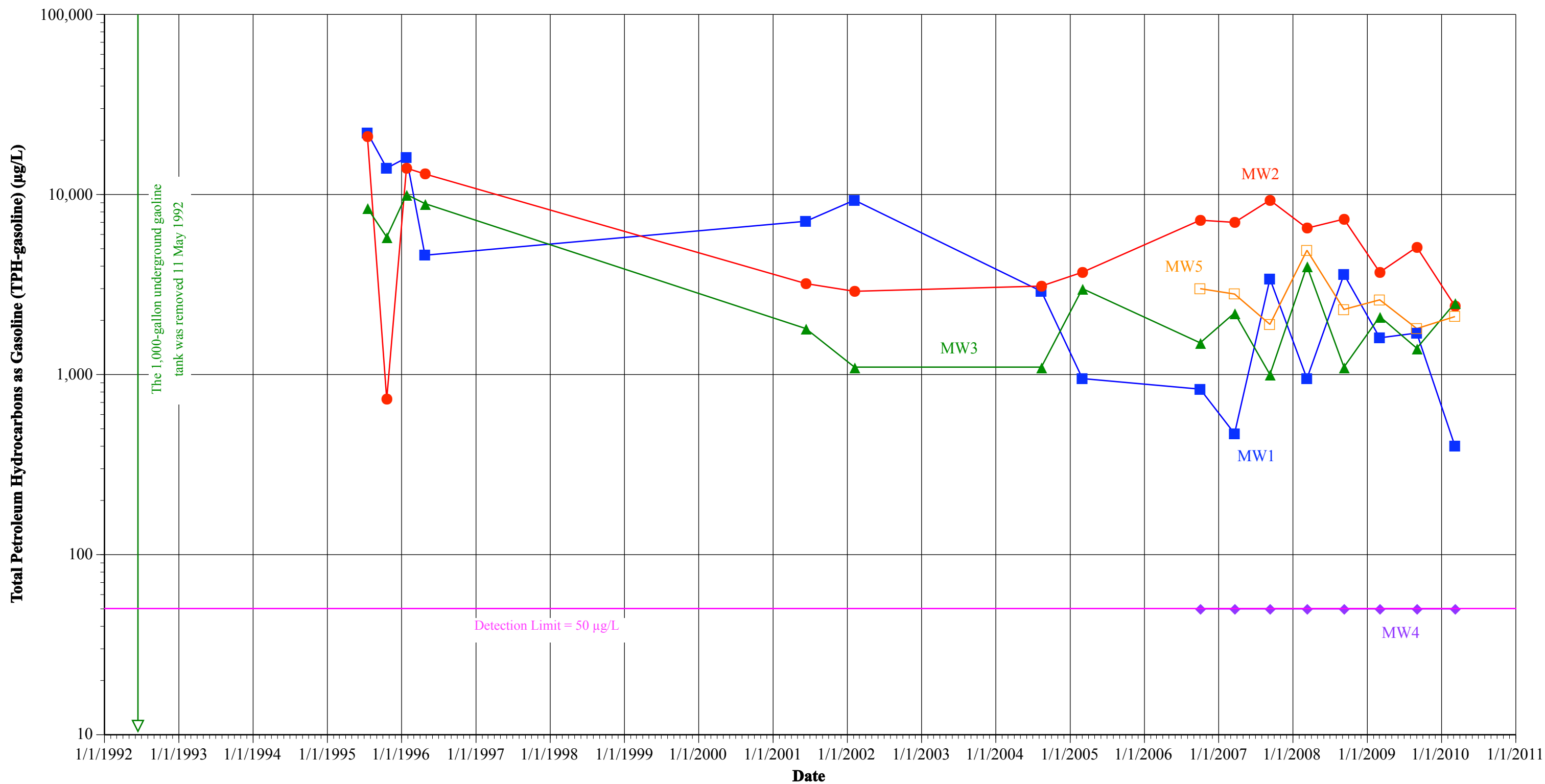


Figure 5
TPH-gasoline Versus Time
in Monitoring Wells
2440 East Eleventh Street
Oakland CA

Note: Nondetectable measurements have been plotted at the typical detection limit of 50 µg/L.

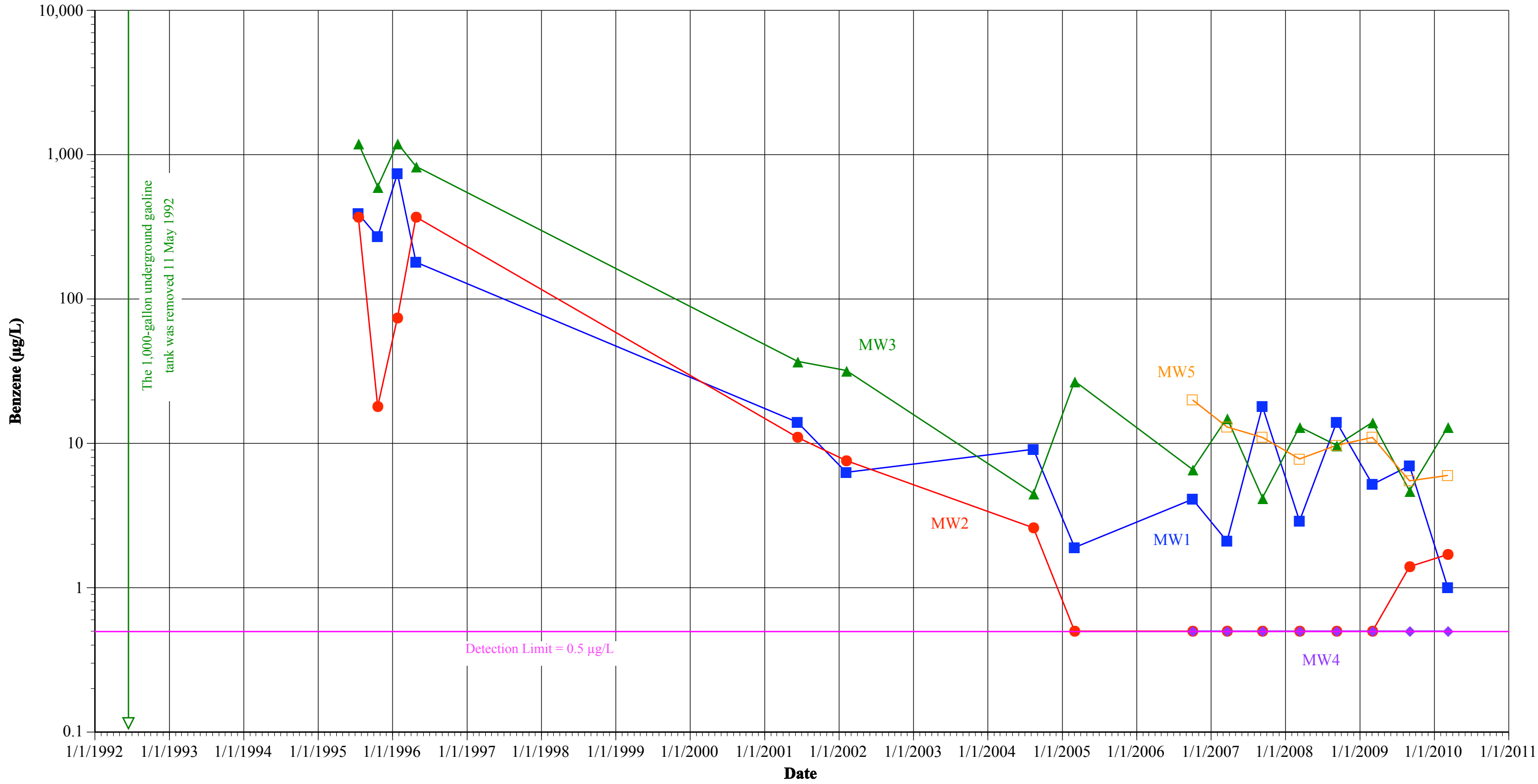


Figure 6
Benzene Versus Time in
Monitoring Wells
2440 East Eleventh Street
Oakland CA

Note: Nondetectable measurements have been plotted at the typical detection limit of 0.5 µg/L.

ATTACHMENT 1

Groundwater Sampling Forms

MONITORING WELL PURGE DATA

Project Name/Number: Eandi Metal Works / P279	Logged By: Alex S. Bowerman
Property Location: 2440 East Eleventh Street, Oakland CA	Date: 8 March 2010
Well Number: MW1	Casing Diameter (in): 2
Purging Equipment: Submersible purge pump	Sample Type: Grab
Sampling Equipment: Bailer equipped with bottom-emptying device	Depth to Water: 9.00
Measuring Point: Top of casing, north side	Total Depth: 19.8
Free Product: None	Odor: Strong odor
Comments:	Sample Number: MW1

Note obstructions, well damage, or other compromising features under comments. Record depth in feet.

$$\frac{19.8 - 9}{3} = 3.6' \text{ off bottom}$$

Total Depth (feet)	-	Depth to Water (feet)	x	0.04 gallons/foot for 1-inch well 0.16 gallons/foot for 2-inch well 0.65 gallons/foot for 4-inch well 1.47 gallons/foot for 6-inch well	=	Single Casing Volume (gallons)	x	Three Casing Volumes (gallons)
19.8	-	9.00	x	0.16	=	1.7	x 3	5.1

Purge Volume (gallons)	Time	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (µS/cm)	Temp (°C)	ORP (mV)	Turbidity	Color	Purged Dry?	Comments
0.75	11:25	0.96	6.86		17.5		Translucent	Grey	no	Start purge
1.75	11:32	0.75	6.81		17.2		Clear	none	no	
3.5	11:37	0.79	6.82		17.4		Clear	none	no	
5.25	11:43	0.60	6.81		17.5		Clear	none	no	
7.00	11:48	0.73	6.82	449	17.4	-92.6	Clear	none	no	
										Collect sample

Note observations of odor, sheen, and other signs of contamination under comments. Record turbidity as clear, translucent, opaque, cloudy, or turbid.

MONITORING WELL PURGE DATA

Project Name/Number: Eandi Metal Works / P279	Logged By: Alex S. Bowerman
Property Location: 2440 East Eleventh Street, Oakland CA	Date: 8 March 2010
Well Number: MW2	Casing Diameter (in): 2
Purging Equipment: Submersible purge pump	Sample Type: Grab
Sampling Equipment: Bailer equipped with bottom-emptying device	Depth to Water: 8.98
Measuring Point: Top of casing, north side	Total Depth: 19.8
Free Product: None	Odor: Strong odor
Comments:	Sample Number: MW2

Note obstructions, well damage, or other compromising features under comments. Record depth in feet.

$$\frac{19.8 - 8.98}{3} = 3.6' \text{ off bottom}$$

Total Depth (feet)	-	Depth to Water (feet)	x	0.04 gallons/foot for 1-inch well 0.16 gallons/foot for 2-inch well 0.65 gallons/foot for 4-inch well 1.47 gallons/foot for 6-inch well	=	Single Casing Volume (gallons)	x	Three Casing Volumes (gallons)
19.8	-	8.98	x	0.16	=	1.7	x 3	5.1

Purge Volume (gallons)	Time	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (μS/cm)	Temp (°C)	ORP (mV)	Turbidity	Color	Purged Dry?	Comments
0	1:19	6.05	6.82		16.5		Opaque	Grey	no	Start purge
1.75	1:27	0.82	6.80		17.5		Clear	none	no	
3.5	1:32	0.59	6.80		17.3		Clear	none	no	
5.25	1:38	0.73	6.83		17.6		Clear	none	no	
7.0	1:43	0.75	6.84	628	17.4	-74.3	Clear	none	no	
										Collect sample

Note observations of odor, sheen, and other signs of contamination under comments. Record turbidity as clear, translucent, opaque, cloudy, or turbid.

MONITORING WELL PURGE DATA

Project Name/Number: Eandi Metal Works / P279	Logged By: Alex S. Bowerman
Property Location: 2440 East Eleventh Street, Oakland CA	Date: 8 March 2010
Well Number: MW3	Casing Diameter (in): 2
Purging Equipment: Submersible purge pump	Sample Type: Grab
Sampling Equipment: Bailer equipped with bottom-emptying device	Depth to Water: 9.84
Measuring Point: Top of casing, north side	Total Depth: 19.6
Free Product: None	Odor: Strong odor
Comments:	Sample Number: MW3 ✓

Note obstructions, well damage, or other compromising features under comments. Record depth in feet.

$$\frac{19.6 - 9.84}{3} = 3.3, \text{ off bottom}$$

Total Depth (feet)	-	Depth to Water (feet)	x	0.04 gallons/foot for 1-inch well 0.16 gallons/foot for 2-inch well 0.65 gallons/foot for 4-inch well 1.47 gallons/foot for 6-inch well	=	Single Casing Volume (gallons)	x	3	Three Casing Volumes (gallons)
19.6	-	9.84	x	0.16	=	1.6	x	3	4.8

Purge Volume (gallons)	Time	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (µS/cm)	Temp (°C)	ORP (mV)	Turbidity	Color	Purged Dry?	Comments
0	12:08	0.77	6.78		18.2		Clear	none	no	Start purge
1.75	12:14	0.70	6.82		17.4		Clear	none	no	
3.5	12:18	0.87	6.82		17.2		Clear	none	no	
5.25	12:23	0.74	6.82	538	16.9	-71.9	Clear	none	no	
										Collect sample

Note observations of odor, sheen, and other signs of contamination under comments. Record turbidity as clear, translucent, opaque, cloudy, or turbid.

MONITORING WELL PURGE DATA

Project Name/Number: Eandi Metal Works / P279	Logged By: Alex S. Bowerman
Property Location: 2440 East Eleventh Street, Oakland CA	Date: 8 March 2010
Well Number: MW4	Casing Diameter (in): 2
Purging Equipment: Submersible purge pump	Sample Type: Grab
Sampling Equipment: Bailer equipped with bottom-emptying device	Depth to Water: 9.48
Measuring Point: Top of casing, north side	Total Depth: 17.3
Free Product: None	Odor: None
Comments:	Sample Number: MW4

Note obstructions, well damage, or other compromising features under comments. Record depth in feet.

$$\frac{17.3 - 9.48}{3} = 2.6' \text{ off bottom}$$

Total Depth (feet)	-	Depth to Water (feet)	x	0.04 gallons/foot for 1-inch well 0.16 gallons/foot for 2-inch well 0.65 gallons/foot for 4-inch well 1.47 gallons/foot for 6-inch well	=	Single Casing Volume (gallons)	x	Three Casing Volumes (gallons)
17.3	-	9.48	x	0.16	=	1.25	x 3	3.75

Purge Volume (gallons)	Time	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (µS/cm)	Temp (°C)	ORP (mV)	Turbidity	Color	Purged Dry?	Comments
0	10:49	1.43	6.61		15.9		Clear	none		Start purge
1.25	10:52	1.30	6.58		16.1		Clear	none	no	
2.5	10:55	1.11	6.56		16.0		Clear	none	no	
3.75	10:59	1.14	6.57	463	16.0		Clear	none	no	
					167.2					
										Collect sample

Note observations of odor, sheen, and other signs of contamination under comments. Record turbidity as clear, translucent, opaque, cloudy, or turbid.

MONITORING WELL PURGE DATA

Project Name/Number: Eandi Metal Works / P279	Logged By: Alex S. Bowerman
Property Location: 2440 East Eleventh Street, Oakland CA	Date: 8 March 2010
Well Number: MW5	Casing Diameter (in): 2
Purging Equipment: Submersible purge pump	Sample Type: Grab
Sampling Equipment: Bailer equipped with bottom-emptying device	Depth to Water: 9.43
Measuring Point: Top of casing, north side	Total Depth: 17.2
Free Product: None	Odor: Strong odor
Comments:	Sample Number: MW5

Note obstructions, well damage, or other compromising features under comments. Record depth in feet.

$17.2 - 9.43 = 7.77$
 $\frac{7.77}{3} = 2.61$
 2.6' off bottom

Total Depth (feet)	-	Depth to Water (feet)	x	0.04 gallons/foot for 1-inch well 0.16 gallons/foot for 2-inch well 0.65 gallons/foot for 4-inch well 1.47 gallons/foot for 6-inch well	=	Single Casing Volume (gallons)	x	Three Casing Volumes (gallons)
17.2	-	9.43	x	0.16	=	1.24	x 3	3.72

Purge Volume (gallons)	Time	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (µS/cm)	Temp (°C)	ORP (mV)	Turbidity	Color	Purged Dry?	Comments
0	12:46	0.96	6.87		16.0		Clear	none	no	Start purge
1.25	12:48	0.67	6.89		16.0		Clear	none	no	
2.5	12:51	0.64	6.88		16.0		Clear	none	no	
3.75	12:54	0.70	6.89	572	15.9	-88.8	Clear	none	no	
										Collect sample

Note observations of odor, sheen, and other signs of contamination under comments. Record turbidity as clear, translucent, opaque, cloudy, or turbid.

ATTACHMENT 2

Laboratory Reports and Chain-of-Custody
Forms

ANALYTICAL REPORT

Job Number: 720-26461-1

Job Description: 2440 East Eleventh Street

For:

Streamborn

900 Santa Fe Avenue

Albany, CA 94706

Attention: Mr. Douglas W Lovell



Approved for release.
Tim Costello
Project Manager I
3/24/2010 2:04 PM

Tim Costello
Project Manager I
tim.costello@testamericainc.com
03/24/2010

CA ELAP Certification # 2496

The Chain(s) of Custody are included and are an integral part of this report.

The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.

A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

TestAmerica Laboratories, Inc.

TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566

Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Job Narrative
720-26461-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Streamborn

Job Number: 720-26461-1

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-26461-2	MW1				
Benzene		1.0	0.50	ug/L	8260B/CA_LUFTMS
Ethylbenzene		17	0.50	ug/L	8260B/CA_LUFTMS
Xylenes, Total		1.2	1.0	ug/L	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C5-C12		400	50	ug/L	8260B/CA_LUFTMS
720-26461-3	MW3				
Benzene		13	0.50	ug/L	8260B/CA_LUFTMS
Ethylbenzene		6.8	0.50	ug/L	8260B/CA_LUFTMS
Toluene		1.1	0.50	ug/L	8260B/CA_LUFTMS
Xylenes, Total		15	1.0	ug/L	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C5-C12		2500	50	ug/L	8260B/CA_LUFTMS
720-26461-4	MW5				
Benzene		6.0	0.50	ug/L	8260B/CA_LUFTMS
Ethylbenzene		14	0.50	ug/L	8260B/CA_LUFTMS
Toluene		1.8	0.50	ug/L	8260B/CA_LUFTMS
Xylenes, Total		9.4	1.0	ug/L	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C5-C12		2100	50	ug/L	8260B/CA_LUFTMS
720-26461-5	MW2				
Benzene		1.7	1.0	ug/L	8260B/CA_LUFTMS
Ethylbenzene		100	1.0	ug/L	8260B/CA_LUFTMS
Toluene		2.3	1.0	ug/L	8260B/CA_LUFTMS
Xylenes, Total		7.7	2.0	ug/L	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C5-C12		2400	100	ug/L	8260B/CA_LUFTMS

METHOD SUMMARY

Client: Streamborn

Job Number: 720-26461-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
8260B / CA LUFT MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: Streamborn

Job Number: 720-26461-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-26461-1	MW4	Water	03/08/2010 1059	03/10/2010 1240
720-26461-2	MW1	Water	03/08/2010 1148	03/10/2010 1240
720-26461-3	MW3	Water	03/08/2010 1223	03/10/2010 1240
720-26461-4	MW5	Water	03/08/2010 1254	03/10/2010 1240
720-26461-5	MW2	Water	03/08/2010 1343	03/10/2010 1240

Analytical Data

Client: Streamborn

Job Number: 720-26461-1

Client Sample ID: MW4

Lab Sample ID: 720-26461-1

Date Sampled: 03/08/2010 1059

Client Matrix: Water

Date Received: 03/10/2010 1240

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-67418	Instrument ID:	CHMSV2
Preparation:	5030B		Lab File ID:	03111019.D
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	03/11/2010 2034		Final Weight/Volume:	10 mL
Date Prepared:	03/11/2010 2034			

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	94		67 - 130
Toluene-d8 (Surr)	93		70 - 130

Analytical Data

Client: Streamborn

Job Number: 720-26461-1

Client Sample ID: MW1

Lab Sample ID: 720-26461-2

Date Sampled: 03/08/2010 1148

Client Matrix: Water

Date Received: 03/10/2010 1240

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-67418	Instrument ID:	CHMSV2
Preparation:	5030B		Lab File ID:	03111020.D
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	03/11/2010 2107		Final Weight/Volume:	10 mL
Date Prepared:	03/11/2010 2107			

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Benzene	1.0		0.50
Ethylbenzene	17		0.50
Toluene	ND		0.50
Xylenes, Total	1.2		1.0
Gasoline Range Organics (GRO)-C5-C12	400		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		67 - 130
Toluene-d8 (Surr)	96		70 - 130

Analytical Data

Client: Streamborn

Job Number: 720-26461-1

Client Sample ID: MW3

Lab Sample ID: 720-26461-3

Date Sampled: 03/08/2010 1223

Client Matrix: Water

Date Received: 03/10/2010 1240

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-67418	Instrument ID:	CHMSV2
Preparation:	5030B		Lab File ID:	03111021.D
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	03/11/2010 2139		Final Weight/Volume:	10 mL
Date Prepared:	03/11/2010 2139			

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Benzene	13		0.50
Ethylbenzene	6.8		0.50
Toluene	1.1		0.50
Xylenes, Total	15		1.0
Gasoline Range Organics (GRO)-C5-C12	2500		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	93		67 - 130
Toluene-d8 (Surr)	97		70 - 130

Analytical Data

Client: Streamborn

Job Number: 720-26461-1

Client Sample ID: MW5

Lab Sample ID: 720-26461-4

Date Sampled: 03/08/2010 1254

Client Matrix: Water

Date Received: 03/10/2010 1240

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-67422 Instrument ID: HP7
Preparation: 5030B Lab File ID: 03111009.D
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 03/11/2010 1500 Final Weight/Volume: 10 mL
Date Prepared: 03/11/2010 1500

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Benzene	6.0		0.50
Ethylbenzene	14		0.50
Toluene	1.8		0.50
Xylenes, Total	9.4		1.0
Gasoline Range Organics (GRO)-C5-C12	2100		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	118		67 - 130
1,2-Dichloroethane-d4 (Surr)	99		67 - 130
Toluene-d8 (Surr)	110		70 - 130

Analytical Data

Client: Streamborn

Job Number: 720-26461-1

Client Sample ID: MW2

Lab Sample ID: 720-26461-5

Date Sampled: 03/08/2010 1343

Client Matrix: Water

Date Received: 03/10/2010 1240

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-67422 Instrument ID: HP7
Preparation: 5030B Lab File ID: 03111014.D
Dilution: 2.0 Initial Weight/Volume: 10 mL
Date Analyzed: 03/11/2010 1749 Final Weight/Volume: 10 mL
Date Prepared: 03/11/2010 1749

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		1.0
Benzene	1.7		1.0
Ethylbenzene	100		1.0
Toluene	2.3		1.0
Xylenes, Total	7.7		2.0
Gasoline Range Organics (GRO)-C5-C12	2400		100
TBA	ND		8.0
DIPE	ND		1.0
TAME	ND		1.0
Ethyl t-butyl ether	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	114		67 - 130
1,2-Dichloroethane-d4 (Surr)	93		67 - 130
Toluene-d8 (Surr)	109		70 - 130

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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Quality Control Results

Client: Streamborn

Job Number: 720-26461-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS VOA					
Analysis Batch:720-67418					
LCS 720-67418/4	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCS 720-67418/7	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCSD 720-67418/5	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
LCSD 720-67418/8	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
MB 720-67418/3	Method Blank	T	Water	8260B/CA_LUFT	
720-26461-1	MW4	T	Water	8260B/CA_LUFT	
720-26461-2	MW1	T	Water	8260B/CA_LUFT	
720-26461-3	MW3	T	Water	8260B/CA_LUFT	
Analysis Batch:720-67422					
LCS 720-67422/5	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCS 720-67422/7	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCSD 720-67422/6	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
LCSD 720-67422/8	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
MB 720-67422/4	Method Blank	T	Water	8260B/CA_LUFT	
720-26461-4	MW5	T	Water	8260B/CA_LUFT	
720-26461-5	MW2	T	Water	8260B/CA_LUFT	

Report Basis

T = Total

Quality Control Results

Client: Streamborn

Job Number: 720-26461-1

Method Blank - Batch: 720-67418

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

Lab Sample ID: MB 720-67418/3
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/11/2010 1134
 Date Prepared: 03/11/2010 1134

Analysis Batch: 720-67418
 Prep Batch: N/A
 Units: ug/L

Instrument ID: CHMSV2
 Lab File ID: 03111004.D
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50
Surrogate	% Rec	Acceptance Limits	
4-Bromofluorobenzene	95	67 - 130	
1,2-Dichloroethane-d4 (Surr)	96	67 - 130	
Toluene-d8 (Surr)	93	70 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Streamborn

Job Number: 720-26461-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-67418**

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-67418/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/11/2010 1213
Date Prepared: 03/11/2010 1213

Analysis Batch: 720-67418
Prep Batch: N/A
Units: ug/L

Instrument ID: CHMSV2
Lab File ID: 03111005.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-67418/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/11/2010 1245
Date Prepared: 03/11/2010 1245

Analysis Batch: 720-67418
Prep Batch: N/A
Units: ug/L

Instrument ID: CHMSV2
Lab File ID: 03111006.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	98	98	81 - 125	0	20		
Benzene	101	104	82 - 127	3	20		
Ethylbenzene	104	109	86 - 135	4	20		
Toluene	102	107	83 - 129	4	20		
TBA	95	98	85 - 110	3	20		
DIPE	94	94	74 - 155	0	20		
TAME	105	106	79 - 129	1	20		
Ethyl t-butyl ether	96	96	70 - 130	0	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	99		98		67 - 130		
1,2-Dichloroethane-d4 (Surr)	96		94		67 - 130		
Toluene-d8 (Surr)	95		95		70 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Streamborn

Job Number: 720-26461-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-67418**

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-67418/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/11/2010 1428
Date Prepared: 03/11/2010 1428

Analysis Batch: 720-67418
Prep Batch: N/A
Units: ug/L

Instrument ID: CHMSV2
Lab File ID: 03111008.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-67418/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/11/2010 1501
Date Prepared: 03/11/2010 1501

Analysis Batch: 720-67418
Prep Batch: N/A
Units: ug/L

Instrument ID: CHMSV2
Lab File ID: 03111009.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	87	86	70 - 130	1	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	99		103			67 - 130	
1,2-Dichloroethane-d4 (Surr)	96		94			67 - 130	
Toluene-d8 (Surr)	95		96			70 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Streamborn

Job Number: 720-26461-1

Method Blank - Batch: 720-67422

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

Lab Sample ID: MB 720-67422/4
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/11/2010 1134
 Date Prepared: 03/11/2010 1134

Analysis Batch: 720-67422
 Prep Batch: N/A
 Units: ug/L

Instrument ID: HP7
 Lab File ID: 03111004.D
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50
Surrogate	% Rec	Acceptance Limits	
4-Bromofluorobenzene	78	67 - 130	
1,2-Dichloroethane-d4 (Surr)	106	67 - 130	
Toluene-d8 (Surr)	89	70 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Streamborn

Job Number: 720-26461-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-67422**

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-67422/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/11/2010 1220
Date Prepared: 03/11/2010 1220

Analysis Batch: 720-67422
Prep Batch: N/A
Units: ug/L

Instrument ID: HP7
Lab File ID: 03111005.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-67422/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/11/2010 1251
Date Prepared: 03/11/2010 1251

Analysis Batch: 720-67422
Prep Batch: N/A
Units: ug/L

Instrument ID: HP7
Lab File ID: 03111006.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	110	110	81 - 125	0	20		
Benzene	104	106	82 - 127	2	20		
Ethylbenzene	122	124	86 - 135	2	20		
Toluene	105	108	83 - 129	2	20		
TBA	100	104	85 - 110	4	20		
DIPE	109	114	74 - 155	5	20		
TAME	96	97	79 - 129	1	20		
Ethyl t-butyl ether	98	100	70 - 130	2	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	111		110		67 - 130		
1,2-Dichloroethane-d4 (Surr)	94		97		67 - 130		
Toluene-d8 (Surr)	99		99		70 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Streamborn

Job Number: 720-26461-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-67422**

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-67422/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/11/2010 1325
Date Prepared: 03/11/2010 1325

Analysis Batch: 720-67422
Prep Batch: N/A
Units: ug/L

Instrument ID: HP7
Lab File ID: 03111007.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-67422/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/11/2010 1402
Date Prepared: 03/11/2010 1402

Analysis Batch: 720-67422
Prep Batch: N/A
Units: ug/L

Instrument ID: HP7
Lab File ID: 03111008.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	88	87	70 - 130	1	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	102		99	67 - 130			
1,2-Dichloroethane-d4 (Surr)	103		101	67 - 130			
Toluene-d8 (Surr)	106		105	70 - 130			

Calculations are performed before rounding to avoid round-off errors in calculated results.

122871

710-26461

STREAMBORN Chain-of-Custody Form

Project Name: 2440 East Eleventh Street	Project Location: 2440 East Eleventh Street, Oakland CA	Project Number: P279
Sampler: Alex S. Bowerman	Laboratory: TestAmerica	Laboratory Number: 925-484-1919

Sample Designation	Date	Time	Matrix			Type	Containers		Preservative (in addition to ice)	Field Filtration	Turnaround			Analyses					Sampler Comments	Laboratory Comments			
			Soil	Water	Vapor	Grab	Composite	Quantity			Type	48-Hour	5-Working Days	10-Working Days	TPH-garoline/BTEX/fuel oxygenates (EPA 8260)								
MW4	8-Mar-10	10:59		x		x		3	40 mL VOA	HCl	None			x			x						
MW1	8-Mar-10	11:48		x		x		3	40 mL VOA	HCl	None			x			x						
MW3	8-Mar-10	12:23		x		x		3	40 mL VOA	HCl	None			x			x						
MW5	8-Mar-10	12:54		x		x		3	40 mL VOA	HCl	None			x			x						
MW2	8-Mar-10	1:43		x		x		3	40 mL VOA	HCl	None			x			x						

Note: Sampler and laboratory to observe preservative, condition, integrity, etc. of samples and record (under "Comments") any exceptions from standard protocols.

Relinquished By: <i>[Signature]</i>	Received By: <i>[Signature]</i>	Date: 3/10/10	Time: 11:00
Relinquished By: <i>[Signature]</i>	Received By: <i>[Signature]</i>	Date: 3/10/10	Time: 12:40

STREAMBORN Mail: PO Box 8330, Berkeley CA 94707-8330 Office: 900 Santa Fe Ave, Albany CA 94706 510-528-4234 Fax: 528-2613

Report results to information@streamborn.com

Prepare EDF for Geotracker Upload? Yes	Streamborn Logcode: SBA	Global ID: T0600100858
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2.12

Login Sample Receipt Check List

Client: Streamborn

Job Number: 720-26461-1

Login Number: 26461

List Source: TestAmerica San Francisco

Creator: Mullen, Joan

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	