STREAMBORN

510.528.4234
Fax 528.2613

Casimiro Damele
3750 Victor Avenue
Oakland CA 94619

9 January 2009

Project No. P257

Letter Report
Groundwater Monitoring Conducted 15 December 2008
4401 Market Street
Oakland CA
Fuel Leak Case No. RO 0000132

Dear Mr. Damele (hardcopy):

This letter report documents the results of groundwater monitoring conducted 15 December 2008 for six monitoring wells (MW1, MW2, MW3, MW4, MW5, and MW6) at/near the subject site. Streamborn attempted to obtain permission to access well MW7; however, the property owner of 903 44th Street (where well MW7 is located) did not return our inquiries.

On 21 November 2008, prior to groundwater monitoring, wells MW1, MW2, MW3, MW4, MW5, and MW6 were developed by surging with a surge block and pumping with a submersible pump. Well development was mandated by Alameda County Environmental Health Services. Blaine Tech Services (San Jose CA) performed the work.

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 groundwater purging and sampling information. Purge water generated during sampling was containerized onsite in labeled drums.
- Table 5 summarizes the groundwater analytical data from the monitoring wells.
- Table 6 summarizes free product monitoring in selected monitoring wells. Free product was not detected in the monitoring wells.
- Figure 1 provides a location map.
- Figure 2 shows the exploration locations.
- Figure 3 shows the most recent groundwater levels and gradient (15 December 2008).

- Figure 4 provides a plot of TPH-gasoline versus time for wells MW1, MW2, MW4, MW5, and MW6.
- Attachment 1 contains the well development forms.
- Attachment 2 contains the groundwater sampling forms.
- Attachment 3 contains the laboratory report and chain-of-custody form.

Unexpectedly elevated concentrations of TPH-gasoline and/or BTEX were measured in wells MW2 and MW5. The remaining wells exhibited concentrations of TPH-gasoline and BTEX below the applicable detection limits or below applicable water quality criteria. Existing data are not sufficient to determine the cause of the elevated concentrations.

In light of the elevated concentrations measured in December 2008, we recommend that follow-on groundwater monitoring be conducted circa March/April 2009 and September/October 2009.

We have postponed the soilgas survey until April 2009 (after the end of the rainy season). The soilgas survey report will be submitted circa May 2009.

Please contact us with any questions or comments.

Sincerely,

STREAMBORN

Juli A. Brady, PE
Environmental Engineer

Attachments

cc: Paresh Khatri/Alameda County Health Care Services Agency, Alameda CA (ecopy)

This report was uploaded to the Alameda County Server.
This report was uploaded to Geotracer (geotracker.swrcb.ca.gov)

Table 1 (Page 1 of 2)

Environmental Chronology

4401 Market Street, Oakland CA

Date	Activities Performed By	Description
Unknown	Unknown	• Four underground gasoline tanks (one 1,000-gallon and three 500-gallon tanks) were installed. • W.A. Craig reported that the structure at 4401 Market Street was constructed in 1943 and used as a gasoline station until the 1970s.
22 June 1990	Environmental Bio-Systems	• The 4 underground gasoline tanks were removed. Removal of the fuel dispensers, product piping, and pump island was not documented. Soil excavated during tank removal was reused to backfill the excavations. • Soil samples were collected from below the tanks. Samples of the excavated soil were also collected. Soil samples were analyzed for TPH-gasoline and BTEX. Soil sampling indicated a release of gasoline.
6 September 1990	W.A. Craig	• Two trenches were excavated to depths of approximately 5 feet in the vicinity of the former dispenser island. • Contaminated soil was observed during excavation but no laboratory analyses were performed. The excavated soil was reused to backfill the trenches.
27 and 28 October 1994	W.A. Craig	• Seven borings were drilled to depths of approximately 25 feet at and near 4401 Market Street (SB1, SB2, SB3, SB4, MW1, MW2, and MW3); three of the borings were completed as monitoring wells (MW1, MW2, and MW3). Soil samples were collected during drilling. • Free product, presumably gasoline, was observed in boring SB2, located near the southwest corner of 4401 Market Street. • Soil samples were analyzed for TPH-gasoline and BTEX.
8 November 1994	W.A. Craig	• Groundwater monitoring was conducted for wells MW1, MW2, and MW3. • Samples were analyzed for TPH-gasoline and BTEX.
14 February 1995	W.A. Craig	• Groundwater monitoring was conducted for wells MW1, MW2, and MW3. • Samples were analyzed for TPH-gasoline and BTEX.
7 June 1995	W.A. Craig	• Groundwater monitoring was conducted for wells MW1, MW2, and MW3. • Samples were analyzed for TPH-gasoline and BTEX.
29 August 1995	W.A. Craig	• Groundwater monitoring was conducted for wells MW1, MW2, and MW3. • Samples were analyzed for TPH-gasoline and BTEX.
8 December 1995	W.A. Craig	• Groundwater monitoring was conducted for wells MW1, MW2, and MW3. • Samples were analyzed for TPH-gasoline and BTEX.
7 March 1996	W.A. Craig	• Groundwater monitoring was conducted for wells MW1, MW2, and MW3. • Samples were analyzed for TPH-gasoline, BTEX, and MtBE.
19 June 1996	W.A. Craig	• Groundwater monitoring was conducted for wells MW1, MW2, and MW3. • Samples were analyzed for TPH-gasoline, BTEX, and MtBE.
20 December 1996	W.A. Craig	• Groundwater monitoring was conducted for wells MW1, MW2, and MW3. • Samples were analyzed for TPH-gasoline, BTEX, and MtBE.
12 June 1997	W.A. Craig	• Groundwater monitoring was conducted for wells MW1, MW2, and MW3. • Samples were analyzed for TPH-gasoline, BTEX, and MtBE.
31 March 1999	Streamborn	• Groundwater levels measured in wells MW1, MW2, and MW3.
April and July 1999	Streamborn	• Nine borings were drilled to depths of approximately 20 feet near 4401 Market Street (B8 through B16). Free product, presumably gasoline, was observed in boring B10, located on the south side of 44th Street, adjacent to 903 44th Street. Soil samples were collected during drilling. Groundwater samples were collected from temporary casings installed in the borings. The borings were grouted upon completion of groundwater sampling. • Soil samples and groundwater samples were analyzed for TPH-gasoline, BTEX, and fuel oxygenates.
4-5 January 2001	Streamborn	• Four monitoring wells (MW4, MW5, MW6, and MW7) were installed to depths of approximately 25 feet near 4401 Market Street. Soil samples were collected during drilling. • Soil samples were analyzed for TPH-Gasoline, BTEX, and fuel oxygenates. • An elevation survey was performed for the newly-installed monitoring wells.

Table 1 (Page 2 of 2)

Environmental Chronology

4401 Market Street, Oakland CA

Date	Activities Performed By	Description
1 February 2001	Streamborn	• Wells MW4, MW5, MW6, and MW7 were developed. • Groundwater samples were collected from wells MW1, MW3, MW4, MW5, MW6, and MW7. Samples were analyzed for TPH-Gasoline, BTEX, and fuel oxygenates. • Water levels were measured in wells MW1, MW2, MW3, MW4, MW5, MW6, and MW7. • Wells MW4, MW5, and MW6 were monitored for free product; no free product was detected.
9 March 2001	Streamborn	• Water levels were measured in wells MW1, MW2, MW3, MW4, MW5, MW6, and MW7. • Wells MW4, MW5, and MW6 were monitored for free product; no free product was detected.
23 April 2001	Streamborn	• Water levels were measured in MW1, MW2, MW3, MW4, MW5, MW6, and MW7. • Wells MW4, MW5, and MW6 were monitored for free product; no free product was detected.
30 May 2001	Streamborn	• Groundwater samples were collected from wells MW1, MW3, MW4, MW5, MW6 and MW7. Samples were analyzed for TPH-Gasoline, BTEX, and fuel oxygenates. • Water levels were measured in wells MW1, MW2, MW3, MW4, MW5, MW6, and MW7. • Wells MW4, MW5, and MW6 were monitored for free product; no free product was detected.
19 June 2001	Streamborn	• Water levels were measured in MW1, MW2, MW3, MW4, MW5, MW6, and MW7. • Wells MW4, MW5, and MW6 were monitored for free product; no free product was detected.
19 July 2001	Streamborn	• Water levels were measured in MW1, MW2, MW3, MW4, MW5, MW6, and MW7. • Wells MW4, MW5, and MW6 were monitored for free product; no free product was detected.
22 August 2001	Streamborn	• Groundwater samples were collected from wells MW1, MW3, MW4, MW5, MW6 and MW7. Samples were analyzed for TPH-Gasoline, BTEX, and fuel oxygenates. • Water levels were measured in wells MW1, MW2, MW3, MW4, MW5, MW6, and MW7. • Wells MW4, MW5, and MW6 were monitored for free product; no free product was detected.
29 November 2001	Streamborn	• Groundwater samples were collected from wells MW1, MW3, MW4, MW5, MW6 and MW7. Samples were analyzed for TPH-Gasoline, BTEX, and fuel oxygenates. • Water levels were measured in wells MW1, MW2, MW3, MW4, MW5, MW6, and MW7.
29 September 2003	Streamborn	• Groundwater samples were collected from wells MW1, MW3, MW4, MW5, MW6 and MW7. Samples were analyzed for TPH-Gasoline, BTEX, and fuel oxygenates. • Water levels were measured in wells MW1, MW2, MW3, MW4, MW5, MW6, and MW7. • Wells MW4, MW5, and MW6 were monitored for free product; no free product was detected.
21 November 2008	Streamborn	• Wells MW1, MW2, MW3, MW4, MW5, and MW6 were redeveloped by surging with a surge block and pumping with a submersible pump. • We could not contact the property owner of 903 44th Street and obtain permission to access well MW7.
15 December 2008	Streamborn	• Water levels were measured in wells MW1, MW2, MW3, MW4, MW5, and MW6. • Groundwater samples were collected from wells MW1, MW2, MW3, MW4, MW5, and MW6. Samples were analyzed for TPH-Gasoline/BTEX/fuel oxygenates (EPA Method 8260). • We could not contact the property owner of 903 44th Street and obtain permission to access well MW7.

General Note

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

Table 2 (Page 1 of 2)

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Table 3

Groundwater Level and Gradient Data Since 2001

4401 Market Street, Oakland CA

Location	**MW1**		**MW2**		**MW3**		**MW4**		**MW5**		**MW6**		**MW7**		Groundwater Gradient	
Casing Diameter (inches)	2		2		2		2		2		2		2			
Ground Surface	Elev = 998.74		Elev = 998.07		Elev = 999.64		Elev = 998.18		Elev = 997.78		Elev = 998.02		Elev = 999.12			
Measuring Point	**TOC N Side, Elev = 998.22**		**TOC N Side, Elev = 997.73**		**TOC N Side, Elev = 998.90**		**TOC N Side, Elev = 997.87**		**TOC N Side, Elev = 997.33**		**TOC N Side, Elev = 997.50**		**TOC N Side, Elev = 998.69**			
Intercepted Interval	Depth	Elev	Depth	Elev	Depth	Elev	Depth	Elev	Depth	Elev	Depth	Elev	Depth	Elev		
	19 to 25.5	972.9 to 979.7	19 to 27.5	970.6 to 979.1	19 to 27.5	972.1 to 980.6	9 to 25	973.2 to 989.2	9 to 25	972.8 to 988.8	9 to 25	973.0 to 989.0	9 to 25	974.1 to 990.1	Direction	Magnitude
1 February 2001	13.77	984.45	13.21	984.52	14.01	984.89	13.22	984.65	13.14	984.19	13.31	984.19	14.76	983.93		
9 March 2001	12.54	985.68	12.30	985.43	13.32	985.58	12.28	985.59	11.70	985.63	12.54	984.96	13.94	984.75		
23 April 2001	14.01	984.21	13.36	984.37	14.15	984.75	13.05	984.82	13.30	984.03	13.39	984.11	14.63	984.06		
30 May 2001	14.74	983.48	NM	NM	14.67	984.23	13.93	983.94	14.14	983.19	14.17	983.33	15.79	982.90	N 138˚ W	0.01
19 June 2001	14.83	983.39	13.93	983.80	14.67	984.23	15.47	982.40	14.29	983.04	14.34	983.16	15.87	982.82		
19 July 2001	15.04	983.18	14.51	983.22	14.84	984.06	14.73	983.45	14.48	982.85	14.47	983.03	15.99	982.70		
22 August 2001	15.03	983.19	14.48	983.25	14.83	984.07	14.63	983.24	14.58	982.75	14.57	982.93	16.15	982.54	N 143˚ W	0.01
29 November 2001	12.59	985.63	12.01	985.72	12.66	986.24	12.78	985.09	11.05	986.28	11.42	986.08	12.94	985.75		
29 September 2003	15.05	983.17	14.50	983.23	14.94	983.96	14.53	983.34	14.53	982.80	14.52	982.98	16.19	982.50	N 131˚ W	0.01
15 December 2008	13.12	985.10	12.25	985.48	13.05	985.85	12.39	985.48	12.24	985.09	12.05	985.45	NM	NM	N 88˚ W	0.01
Total Depth (last measurement)	24.6		24.6		24.6		24.5		24.9		24.8		24.6		Ave = N 125˚ W	Ave = 0.01

General Notes

(a) Measurements are cited in units of feet, referenced to a site-specific datum (NOT Mean Sea Level).

(b) TOC = top of PVC casing. N = north. Measuring points are the top of PVC casing, north side.

(c) The depth to water and total depth were measured relative to the top of PVC casing.

(d) The depth of the intercepted interval was measured relative to the ground surface and corresponds to the sand pack interval.

Table 4

Groundwater Purging and Sampling Information Since 2001

4401 Market Street, Oakland CA

Location	Sample Date	Sample Type	Dissolved Oxygen (mg/L)	pH	Specific Conductance (µS/cm)	Temper-ature (˚C)	ORP (mV)	Turbidity and Color	Purge Method	Purge Duration (minutes)	Volume Purged (gallons)	Purged Dry ?	Standing Water Casing Volumes Removed
MW1	1 Feb 2001	GB	3.1	6.7	530	18.3	-210	Clear, none	SP	9	±5	**Yes**	±3
	30 May 2001	GB	1.0	6.8	560	24.2	30	Clear, none	SP	40	±5	**Yes**	±3
	22 Aug 2001	GB	3.0	6.9	510	20.4	50	Clear, none	SP	8	±5	**Yes**	±3
	29 Nov 2001	GB	NM	6.7	480	20.9	-170	Clear, none	SP	15	±4	**Yes**	±2
	29 Sep 2003	GB	1.6	6.3	520	21.5	130	Clear, none	SP	15	±5	**Yes**	±3
	15 Dec 2008	GB	1.0	6.6	410	18.0	80	Clear, none	SP	9	±6	no	±3
MW2	29 Sep 2003	GB	1.6	6.6	560	21.9	-80	Clear, none	SP	20	±5	no	±3
	15 Dec 2008	GB	1.1	6.6	590	18.5	-60	Clear, none	SP	11	±6	no	3
MW3	1 Feb 2001	GB	5.0	6.7	370	17.4	-230	Clear, none	SP	4	±5	no	±3
	30 May 2001	GB	5.8	7.0	390	23.6	60	Clear, none	SP	26	±5	**Yes**	±3
	22 Aug 2001	GB	4.5	7.1	370	21.5	90	Cloudy, brown	SP	6	±5	**Yes**	±3
	29 Nov 2001	GB	NM	6.8	330	19.3	20	Clear, none	SP	10	±6	**Yes**	±3
	29 Sep 2003	GB	4.5	6.6	370	19.6	190	Clear, none	SP	10	±5	**Yes**	±3
	15 Dec 2008	GB	3.0	6.6	390	17.6	100	Clear, none	SP	9	±6	no	±3
MW4	1 Feb 2001	GB	5.2	6.8	580	18.2	-210	Cloudy, gray	SP	47	±15	**Yes**	±9
	30 May 2001	GB	1.5	6.8	700	22.8	20	Clear, none	SP	23	±6	**Yes**	±3
	22 Aug 2001	GB	2.1	6.9	540	21.2	-20	Clear, none	SP	5	±5	no	±3
	29 Nov 2001	GB	NM	6.7	550	19.5	-170	Clear, none	SP	16	±5	**Yes**	±3
	29 Sep 2003	GB	1.5	6.5	560	22.4	30	Clear, none	SP	10	±5	no	±3
	15 Dec 2008	GB	1.0	6.6	500	18.8	-20	Clear, none	SP	9	±6	no	±3
MW5	1 Feb 2001	GB	0.8	6.7	640	18.1	-250	Turbid, brown	SP	18	±20	no	±10
	30 May 2001	GB	1.2	7.0	630	19.6	20	Clear, none	SP	4	±6	no	±3
	22 Aug 2001	GB	2.2	7.0	600	20.0	-40	Clear, none	SP	5	±5	no	±3
	29 Nov 2001	GB	NM	6.9	610	19.6	-170	Clear, none	SP	8	±7	no	±3
	29 Sep 2003	GB	1.6	6.7	560	21.9	-60	Clear, none	SP	10	±5	no	±3
	15 Dec 2008	GB	0.8	6.7	690	18.5	-50	Translucent, gray	SP	6	±6	no	±3
MW6	1 Feb 2001	GB	2.8	6.7	510	18.7	-360	Opaque, brown	SP	23	±20	no	±11
	30 May 2001	GB	2.9	6.8	470	24.2	80	Turbid, brown	SP	5	±6	no	±3
	22 Aug 2001	GB	2.6	6.9	400	21.0	30	Turbid, green	SP	5	±5	no	±3
	29 Nov 2001	GB	NM	6.8	390	19.5	-160	Clear, none	SP	8	±7	no	±3
	29 Sep 2003	GB	2.1	6.6	470	25.5	180	Clear, none	SP	10	±5	no	±3
	15 Dec 2008	GB	2.0	6.6	440	18.9	140	Translucent, brown	SP	6	±6	no	±3
MW7	1 Feb 2001	GB	3.0	6.8	430	16.1	-200	Cloudy, brown	SP	25	±17	no	±11
	30 May 2001	GB	3.1	6.8	500	23.6	60	Clear, none	SP	5	±5	no	±3
	22 Aug 2001	GB	4.6	6.9	420	19.3	20	Turbid, gray	SP	5	±5	no	±3
	29 Nov 2001	GB	NM	6.7	400	19.2	0	Clear, none	SP	6	±6	no	±3
	29 Sep 2003	GB	2.4	6.3	410	19.0	180	Clear, none	SP	10	±4	no	±3

General Notes

(a) ORP = oxidation/reduction potential.

(b) NM = not measured.

(c) Entries in this table correspond to the end of purging (time of sampling).

(d) SP = submersible purge pump.

(e) GB = grab sample collected using a Teflon bailer fitted with a bottom-emptying device.

Table 5 (Page 1 of 2)

Groundwater Analytical Data from Monitoring Wells

4401 Market Street, Oakland CA

Location	Sample Date	Sampled By	TPH-Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Methyl Tert-Butyl Ether (µg/L)	Tert-Butyl-Alcohol (µg/L)	Other Fuel Oxygenates (µg/L)
MW1	8 Nov 1994	W.A. Craig	54	<0.5	<0.5	<0.5	1.2	NA	NA	NA
	14 Feb 1995	W.A. Craig	71	<0.5	<0.5	<0.5	0.97	NA	NA	NA
	7 Jun 1995	W.A. Craig	540	0.6	<0.5	1.7	1.3	NA	NA	NA
	29 Aug 1995	W.A. Craig	440	<0.5	<0.5	1.3	1.1	NA	NA	NA
	8 Dec 1995	W.A. Craig	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	7 Mar 1996	W.A. Craig	77	<0.5	<0.5	<0.5	<0.5	44	NA	NA
	19 Jun 1996	W.A. Craig	500	<0.5	<0.5	0.85	0.36	84	NA	NA
	20 Dec 1996	W.A. Craig	<50	<0.5	<0.5	<0.5	<0.5	28	NA	NA
	12 Jun 1997	W.A. Craig	190	<0.5	<0.5	<0.5	<0.5	12	NA	NA
	1 Feb 2001	Streamborn	<50	<0.5	<0.5	<0.5	1.1	<5.0	<5.0	<5.0 to <10
	30 May 2001	Streamborn	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	22 Aug 2001	Streamborn	<50	<0.5	<0.5	<0.5	<0.5	<5.0	100	<5.0 to <10
	29 Nov 2001	Streamborn	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0 to <10
	29 Sep 2003	Streamborn	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5 to <1.0
	15 Dec 2008	Streamborn	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<20	<0.5 to <100
MW2	8 Nov 1994	W.A. Craig	20,000	1,400	960	980	4,600	NA	NA	NA
	14 Feb 1995	W.A. Craig	8,600	380	210	410	2,000	NA	NA	NA
	7 Jun 1995	W.A. Craig	6,200	500	78	270	1,200	NA	NA	NA
	29 Aug 1995	W.A. Craig	4,100	330	61	210	980	NA	NA	NA
	8 Dec 1995	W.A. Craig	9,400	360	190	440	2,000	NA	NA	NA
	7 Mar 1996	W.A. Craig	12,000	790	170	440	2,000	18	NA	NA
	19 Jun 1996	W.A. Craig	9,000	520	82	350	1,500	<5.0	NA	NA
	20 Dec 1996	W.A. Craig	13,000	830	180	410	2,200	<16	NA	NA
	12 Jun 1997	W.A. Craig	5,100	320	32	190	880	<36	NA	NA
	29 Sep 2003	Streamborn	220	5.5	<0.5	2.1	9.1	<0.5	24	DIPE = 1.3 Others = <0.5
	15 Dec 2008	Streamborn	1,600	43	<0.5	53	150	<0.5	<20	<0.5 to <100
MW3	8 Nov 1994	W.A. Craig	<50	0.71	0.84	1.2	5.8	NA	NA	NA
	14 Feb 1995	W.A. Craig	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	7 Jun 1995	W.A. Craig	<50	<0.5	<0.5	<0.5	1.6	NA	NA	NA
	29 Aug 1995	W.A. Craig	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	8 Dec 1995	W.A. Craig	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	7 Mar 1996	W.A. Craig	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
	19 Jun 1996	W.A. Craig	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
	20 Dec 1996	W.A. Craig	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
	12 Jun 1997	W.A. Craig	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
	1 Feb 2001	Streamborn	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0 to <10
	30 May 2001	Streamborn	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0 to <10
	22 Aug 2001	Streamborn	<50	<0.5	<0.5	<0.5	<0.5	<5.0	14	<5.0 to <10
	29 Nov 2001	Streamborn	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0 to <10
	29 Sep 2003	Streamborn	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5 to <1.0
	15 Dec 2008	Streamborn	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<20	<0.5 to <100
MW4	1 Feb 2001	Streamborn	1,500	58	1.3	83	320	<5.0	16	<5.0 to <10
	30 May 2001	Streamborn	1,000	19	<0.5	50	3.4	<5.0	23	<5.0 to <10
	22 Aug 2001	Streamborn	220	<0.5	<0.5	3.2	2.7	<5.0	8.8	<5.0 to <10
	29 Nov 2001	Streamborn	3,100	110	<5.0	120	410	<5.0	<5.0	<5.0 to <10
	29 Sep 2003	Streamborn	140	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5 to <1.0
	15 Dec 2008	Streamborn	70	1.1	<0.5	2.8	4.4	<0.5	<20	<0.5 to <100
MW5	1 Feb 2001	Streamborn	1,200	57	1.8	45	160	<5.0	<5.0	<5.0 to <10
	30 May 2001	Streamborn	570	20	<0.5	26	22	<5.0	<5.0	<5.0 to <10
	22 Aug 2001	Streamborn	380	19	0.67	31	17	<5.0	<5.0	<5.0 to <10
	29 Nov 2001	Streamborn	1,600	73	2.1	78	180	<5.0	<5.0	<5.0 to <10
	29 Sep 2003	Streamborn	460	2.6	<0.5	0.69	<1.0	<0.5	<5.0	<0.5 to <1.0
	15 Dec 2008	Streamborn	3,300	53	1.1	58	110	<0.5	<20	<0.5 to <100

Table 5 (Page 2 of 2)

Groundwater Analytical Data from Monitoring Wells

4401 Market Street, Oakland CA

Location	Sample Date	Sampled By	TPH-Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Methyl Tert-Butyl Ether (µg/L)	Tert-Butyl-Alcohol (µg/L)	Other Fuel Oxygenates (µg/L)
MW6	1 Feb 2001	Streamborn	260	8.0	<0.5	22	23	<5.0	<5.0	<5.0 to <10
	30 May 2001	Streamborn	53	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0 to <10
	22 Aug 2001	Streamborn	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0 to <10
	29 Nov 2001	Streamborn	130	5.7	<0.5	1.6	5.0	<5.0	<5.0	<5.0 to <10
	29 Sep 2003	Streamborn	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5 to <1.0
	15 Dec 2008	Streamborn	78	<0.5	<0.5	<0.5	<1.0	<0.5	<20	<0.5 to <100
MW7	1 Feb 2001	Streamborn	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0 to <10
	30 May 2001	Streamborn	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0 to <10
	22 Aug 2001	Streamborn	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0 to <10
	29 Nov 2001	Streamborn	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0 to <10
	29 Sep 2003	Streamborn	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5 to <1.0

General Notes

(a) TPH = total petroleum hydrocarbons. MtBE = methyl tert-butyl ether. DiPE = di-isopropyl ether.

(b) NA = not analyzed.

Table 6

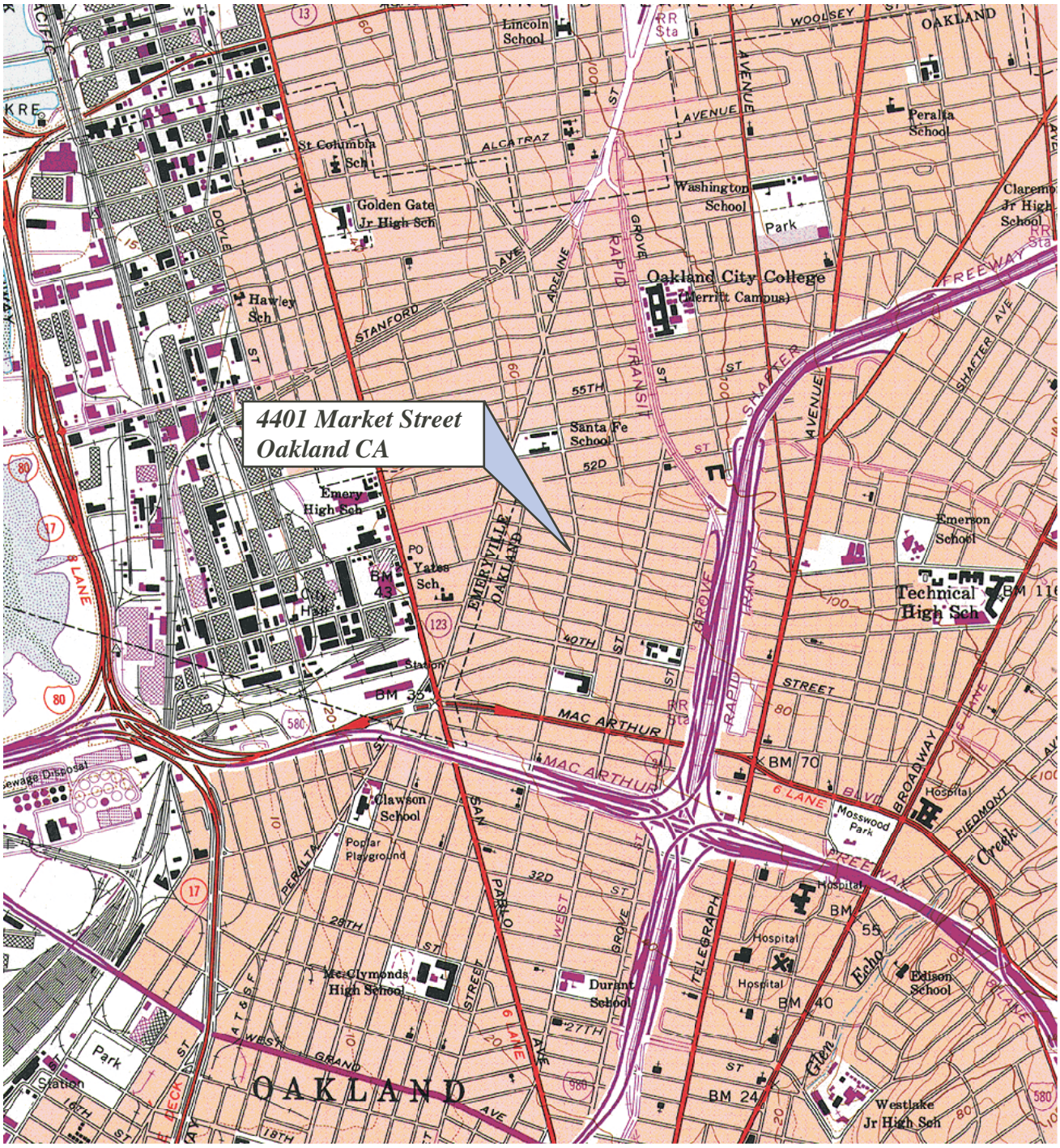
Free Product Monitoring in Monitoring Wells MW4, MW5, and MW6

4401 Market Street, Oakland CA

Date	MW4 (feet)	MW5 (feet)	MW6 (feet)
1 February 2001	<0.005	<0.005	<0.005
9 March 2001	<0.005	<0.005	<0.005
23 April 2001	<0.005	<0.005	<0.005
30 May 2001	<0.005	<0.005	<0.005
19 June 2001	<0.005	<0.005	<0.005
19 July 2001	<0.005	<0.005	<0.005
22 August 2001	<0.005	<0.005	<0.005
29 November 2001	<0.005	<0.005	<0.005

General Note

(a) Free product monitoring was performed using a Water Mark Interface meter: Model H.OIL.



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

0 1

Approximate Scale in Miles

0 2,000 4,000

Approximate Scale in Feet

N

Figure 1

Location Map

4401 Market Street
Oakland CA

STREAMBORN

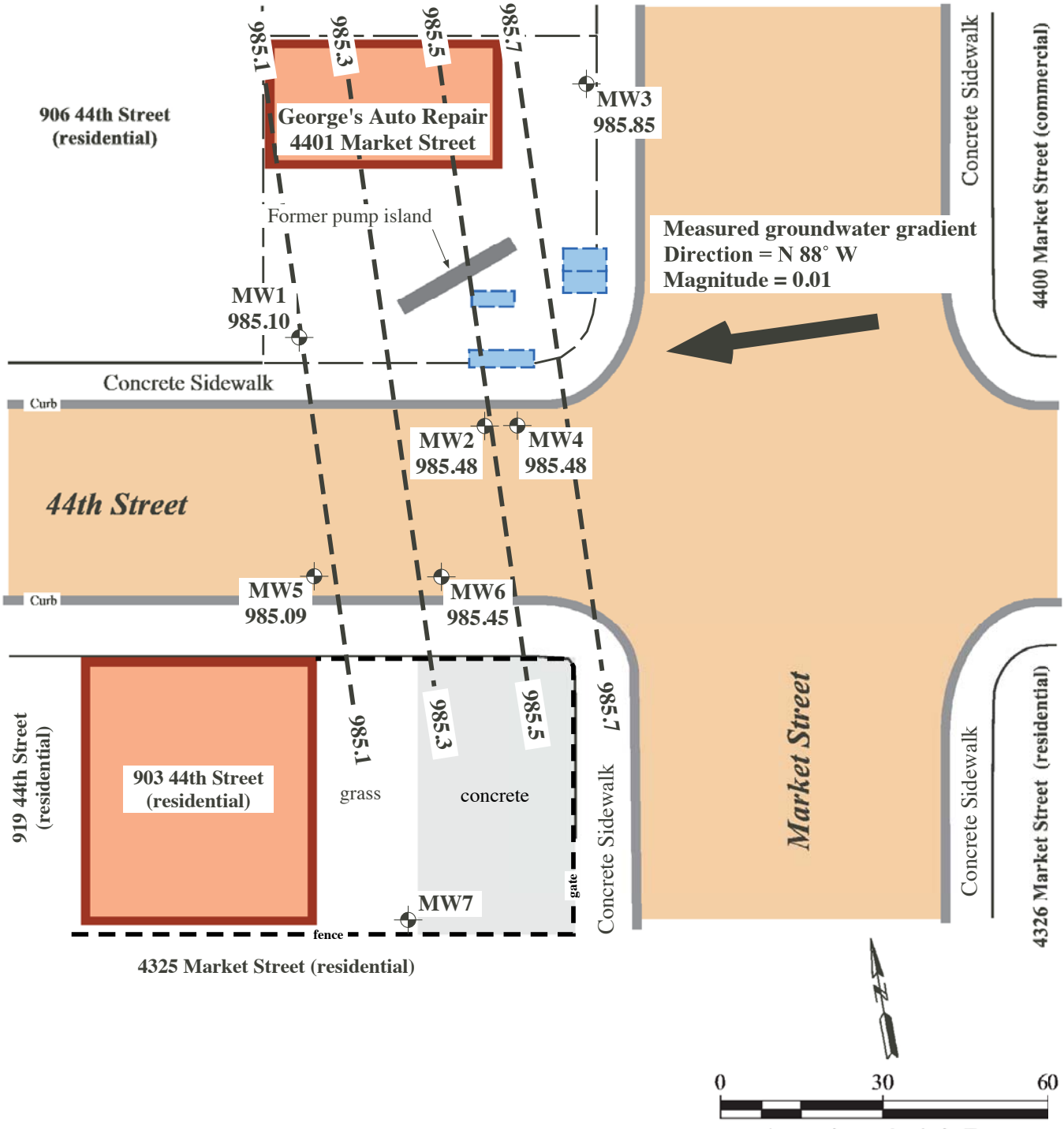
Locations of former underground tanks and pump island from W.A. Craig report dated 1994.

Figure 2

Exploration Locations

4401 Market Street
Oakland CA

STREAMBORN



Note: Groundwater elevations cited in units of feet, referenced to site-specific datum (NOT Mean Sea Level).

Legend

- Monitoring well
- Former underground tank

Locations of former underground tanks and pump island from W.A. Craig report dated 1994.

Figure 3

Groundwater Levels and Gradient (15 December 2008)

4401 Market Street Oakland CA

STREAMBORN

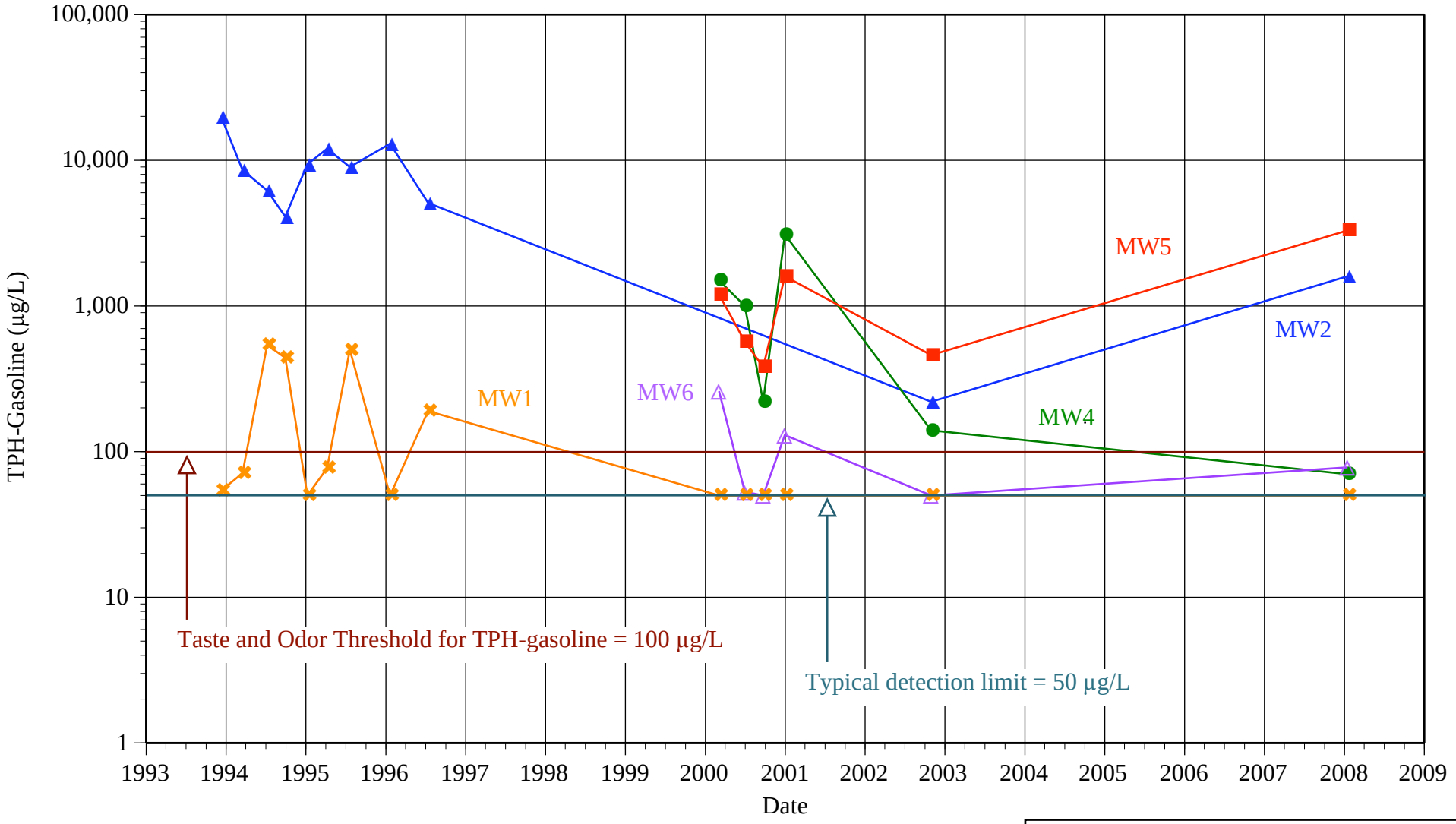


Figure 4

TPH-Gasoline Versus Time in Wells MW1, MW2, MW4, MW5, and MW6

4401 Market Street
Oakland CA

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

STREAMBORN

ATTACHMENT 1

Monitoring Well Development Forms

WELL GAUGING DATA

Project # 080121-MT1 Date 11-21-08 Client Streamborn

Site 4401 Market St. Oakland, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1		2					13.46	24.53		
MW-2		2					13.42	24.60		
MW-3		2					13.00	24.60		
MW-4	0851	2					12.64	24.59		
MW-5		2					12.82	24.93		
MW-6		2					24.77	12.28		
MW-7										

WELLHEAD INSPECTION CHECKLIST

Page ____ of ____

Date 11-21-08 Client Streamborn

Site Address 4401 Market St, Oakland

Job Number 081121-MTT Technician M. Todd

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1	X							
MW-2	—	2/2 Bolts Stripped						
MW-3	X							
MW-4	X	2/2 Tabs Broken						
MW-5	X							
MW-6	X							
MW-7	—	Not Accessable						

NOTES:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME ~~081~~ 4401 MARKET ST				PROJECT NUMBER 081121-MT1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
Ultrameter	6203098	11.21.08 842	PH 4 7 10	3.98 7.01 10.01	yes	16.4	mt
11 11	11 11	11.21.08 845	Cond 3900	3896	yes	16.6	MT
turbidimeter	28405	11-21-08 847	20/100	20.3/101	yes	—	mt

WEL DEVELOPMENT DATA S. ET

Project #: 081121-MT1	Client: Streamborn
Developer: MDN	Date Developed: 11/21/08
Well I.D. MW-1	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth: Before 24.53 After 24.54	Depth to Water: Before 13.46 After 15.20
Reason not developed:	If Free Product, thickness:
Additional Notations: Swab well for 15 minutes prior to development	

Volume Conversion Factor (VCF):	Well dia.		VCF
{12 x (d^2/4) x π} /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

1.8	X	10	=	18.0
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☑ Positive Air Displacement

Type of Installed Pump _____
Other equipment used 2" well swab

TIME	TEMP (F)	pH	Cond. (mS or (µS))	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1335	67.4	7.2	421	>1000	1.8	Brown, Silty (Fine)
1339	67.3	6.7	403	>1000	3.6	Brown, Silty
1343	67.3	6.6	403	>1000	5.4	Brown, Cloudy, Hard bottom
1346	67.1	6.6	401	>1000	7.2	Brown, Cloudy
1350	67.2	6.6	401	>1000	9.0	Brown, Cloudy DTW = 15.25
1354	67.2	6.6	401	849	10.8	Brown, Cloudy, Clearing
1358	66.9	6.6	400	551	12.6	Brown, Cloudy, Clearing
1402	66.9	6.5	400	314	14.4	Cloudy, clearing
1405	67.0	6.5	400	263	16.2	~~clo~~ slightly cloudy
1409	66.9	6.5	399	194	18.0	slightly cloudy DTW = 15.20

Did Well Dewater? NO	If yes, note above.	Gallons Actually Evacuated:	18.0

WEL DEVELOPMENT DATA S. EET

Project #: 08121.MT	Client: Streamborn
Developer: MT	Date Developed: 11.21.08
Well I.D. MW-2	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth: Before 24.60 After 24.71	Depth to Water: Before 13.42 After 17.87
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
$\{12 \times (d^2/4) \times \pi\} / 231$	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

1.7	X	10	=	17
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump _____

Other equipment used 2" Surge Block

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
10:53	21.5	6.78	591.8	71000	1.7	19.40 Grey Light silt
10:56	21.0	6.40	604.7	892	3.4	21.12 Grey cloudy
10:59	20.7	6.34	606.8	569	5.1	20.86 Grey cloudy
1102	20.6	6.22	621.4	738	6.80	21.03 " " water level
1105	20.5	6.24	604.3	873	8.5	21.42 " " Below pump
1106 Dewatered DTW			21.63 @ 1107			
1121 DTW @		14.68	resumed purge			
11:28	22.2	6.97	594.0	71000	10.2	19.81 Grey cloudy
1131	20.9	6.63	603.8	71000	11.9	20.32 " "
1134	20.8	6.45	609.1	561	13.6	20.60 " "
1137	20.8	6.37	608.5	277	15.3	21.42 tint grey H_2O level Below pump
1140	20.8	6.29	608.1	198	17	21.42 " " " "

Did Well Dewater? yes	If yes, note above.	Gallons Actually Evacuated:	17

WEL DEVELOPMENT DATA S. ET

Project #: 081121-MT	Client: Stream born
Developer: MT	Date Developed: 11-21-08
Well I.D. MW-3	Well Diameter: (circle one) 2 3 4 6
Total Well Depth: Before 24.60 After 24.60	Depth to Water: Before 13.00 After 13.30
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):
{12 x (d^2/4) x π} /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

1.8	X	10	=	18
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☑ Positive Air Displacement

Type of Installed Pump _____
Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1343	18.4	7.51	409.1	71000	1.8	16.10 orange, cloudy, silty
1346	18.3	7.22	397.6	71000	3.6	16.60 " "
1349	17.9	6.98	398.3	71000	5.4	17.01 " "
1352	18.1	6.80	396.9	71000	7.2	17.11 Orenge, cloudy
1355	18.3	6.73	397.4	71000	9	17.19 " "
1358	18.1	6.71	396.1	692	10.8	17.23 " "
1400	17.9	6.58	394.7	450	12.6	17.27 cloudy
1403	18.0	6.51	396.4	363	14.4	17.30 cloudy
1406	18.1	6.59	396.1	266	16.2	17.39 slightly cloudy
1408	18.1	6.57	396.3	208	18	17.48 " "

Did Well Dewater? N	If yes, note above. ———	Gallons Actually Evacuated:	18

WEI DEVELOPMENT DATA S. EET

Project #: 081121-MT1	Client: Streamborn
Developer: MT	Date Developed: 11-21-08
Well I.D. MW-4	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth: Before 24.59 After 24.60	Depth to Water: Before 12.64 After 21.83
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
{12 x (d^2/4) x π} /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

Surged well for 15mins prior to purge

1.9	X	10	=	19
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump
Other equipment used 2" Surge Block

TIME	TEMP (C°) (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	DTW	NOTATIONS:
0915	19.6	7.03	485.8	742	1.9	15.01	cloudy / orange slight silt
0921	19.8	6.14	453.2	168	3.8	16.59	clear, slight tint (orange)
0927	19.8	6.10	468.9	139	5.7	17.50	" "
0932	19.8	6.07	472.5	91.1	7.6	18.41	clear
0937	19.9	6.01	468.1	376	9.5	19.39	cloudy
0942	19.9	6.03	490.2	283	11.4	20.27	" "
0948	19.8	6.18	474.5	295	13.3	20.98	" "
0953	19.9	6.18	471.5	328	15.2	21.40	" " Hit top of pump
0958	19.8	6.19	452.6	740	17.1	21.40	orange tint, cloudy NO silt
1004	19.9	6.21	470.8	810	19.0	21.40	" "

Did Well Dewater? NO	If yes, note above. N/A	Gallons Actually Evacuated:	19

WEL DEVELOPMENT DATA S. ET

Project #: 0812.MT	Client: Streamborn
Developer: MT	Date Developed: 11-21-08
Well I.D. MW-5	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth: Before 24.93 After 24.95	Depth to Water: Before 12.82 After 15.01
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
{12 x (d^2/4) x π} /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

1.9	X	10	=	19
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump
Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1233	20.3	6.73	753.9	71000	1.9	13.70 Milky Grey silty
1237	20.1	6.41	759.8	71000	3.8	14.46 " "
1243	19.3	6.46	754.0	71000	5.7	14.98 Grey less silt
1248	19.5	6.45	753.5	71000	7.6	15.32 " "
1252	19.2	6.44	747.3	71000	9.5	15.33 " "
1256	19.1	6.44	744.1	71000	11.4	15.37 Grey cloudy No silt
1259	19.2	6.44	739.9	771	13.3	15.48 " "
1301	19.1	6.45	746.7	71000	15.2	15.63 " "
1303	19.3	6.44	743.2	71000	17.1	16.12 " "
1305	19.2	6.46	740.2	71000	19.0	16.38 " "

Did Well Dewater? ✓	If yes, note above. —	Gallons Actually Evacuated:	19.0

WEL DEVELOPMENT DATA S. ET

Project #: 081121-MT1	Client: Streamborn
Developer: MW	Date Developed: 11/21/08
Well I.D. MW-6	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth: Before 24.77 After 24.80	Depth to Water: Before 12.28 After 14.40
Reason not developed:	If Free Product, thickness:
Additional Notations: Swab well for 15 minutes prior to purge	

Volume Conversion Factor (VCF):	Well dia.		VCF
{12 x (d^2/4) x π} /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

2.0	X	10		20.0
1 Case Volume		Specified Volumes	=	gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☑ Positive Air Displacement

Type of Installed Pump NA
Other equipment used 2" Well Swab

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1207	66.4	6.1	524	>1000	2.0	Brown, Silty (Fine)
12012	66.8	6.3	443	>1000	4.0	Brown, Silty
1215	67.1	6.6	432	>1000	6.0	Brown, Silty, clearing
1218	67.3	6.5	424	>1000	8.0	Brown, Silty, hard bottom
1221	67.3	6.5	420	>1000	10.0	Brown, cloudy
1224	67.3	6.5	422	>1000	12.0	DTW = 14.27
1228	67.3	6.5	421	>1000	14.0	Brown, cloudy, clearing
1231	67.3	6.5	421	>1000	16.0	Brown, cloudy
1235	67.4	6.5	421	>1000	18.0	Brown, cloudy
1238	67.3	6.5	420	>1000	20.0	Brown, cloudy DTW = 14.40

Did Well Dewater? ND	If yes, note above.	Gallons Actually Evacuated:	20.0

Sl[illegible] or Purge Water Drum Lo[illegible]

Client: Stratum Board

Site Address: 4401 Market St Oakland, CA

STATUS OF DRUM(S) UPON ARRIVAL						
Date	11/21/08					
Number of drum(s) empty:	1 Rusted					
Number of drum(s) 1/4 full:						
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:						
Number of drum(s) full:						
Total drum(s) on site:	1					
Are the drum(s) properly labeled?						
Drum ID & Contents:	Empty / Rusted					
If any drum(s) are partially or totally filled, what is the first use date:						

- If you add any SPH to an empty or partially filled drum, drum must have at least 20 gals. of Purgewater or DI Water.

-If drum contains SPH, the drum MUST be steel AND labeled with the appropriate label.

-All BTS drums MUST be labeled appropriately.

STATUS OF DRUM(S) UPON DEPARTURE						
Date	11/21/08					
Number of drums empty:	1					
Number of drum(s) 1/4 full:	1					
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:						
Number of drum(s) full:	2					
Total drum(s) on site:	4					
Are the drum(s) properly labeled?	Y					
Drum ID & Contents:	Purgewater					

LOCATION OF DRUM(S)
Describe location of drum(s):

FINAL STATUS						
Number of new drum(s) left on site this event	3					
Date of inspection:	11/21/08					
Drum(s) labelled properly:	Y					
Logged by BTS Field Tech:	MT					
Office reviewed by:	[illegible]					

ATTACHMENT 2

Groundwater Sampling Forms

MONITORING WELL PURGE AND SAMPLE

Project Name/Number:	4401 Market Street/P257	Logged By:	Darcy Hinkley
Property Location:	4401 Market Street, Oakland CA	Date:	15 December 2008
Well Number:	MW1	Sample Type:	Grab
Purging Equipment:	Submersible Pump	Depth to Water (ft):	13.12
Sampling Equipment:	Bailer with Bottom-Emptying Device	Total Depth (ft):	24.6
Measuring Point:	Top of casing, north side	Casing Diameter (in):	2
Free Product:		Odor:	None
Comments:		Sample Number:	MW1

Note obstructions, well damage, or other compromising features under comments.

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 Standing Water Casing Volume (gallons)		Three Casing Volumes (gallons)
24.6	-	13.12	x	0.16	=	1.8	x 3	5.4

Purge Volume (gallons)	Time	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (µS/cm)	Temp (°C)	ORP (mV)	Turbidity	Color	Purged Dry?	Comments
0	1455	1.70	7.08		15.1	56.9	trans	brown	No	Start purge
2	1458	1.42	6.65		16.6	70.3	clear	None	NO	
4	1501	1.05	6.64		17.5	87.2	clear	None	NO	
6	1504	0.95	6.63	4071	18.0	83.3	clear	None	NO	
										Collect Sample

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

MONITORING WELL PURGE AND SAMPLE

Project Name/Number:	4401 Market Street/P257	Logged By:	Darcy Hinkley
Property Location:	4401 Market Street, Oakland CA	Date:	15 December 2008
Well Number:	MW2	Sample Type:	Grab
Purging Equipment:	Submersible Pump	Depth to Water (ft):	12.25
Sampling Equipment:	Bailer with Bottom-Emptying Device	Total Depth (ft):	24.6
Measuring Point:	Top of casing, north side	Casing Diameter (in):	2
Free Product:		Odor:	Slight
Comments:		Sample Number:	MW2

Note obstructions, well damage, or other compromising features under comments.

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 Standing Water Casing Volume (gallons)		Three Casing Volumes (gallons)
24.6	-	12.25	x	0.16	=	2	x 3	6

Purge Volume (gallons)	Time	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (µS/cm)	Temp (°C)	ORP (mV)	Turbidity	Color	Purged Dry?	Comments
0	1659	0.94	6.62		17.5	-28.4	trans	gray	no	Start purge
2	1702	1.17	6.63		18.7	-43.6	clear	none	NO	
4	1705	0.89	6.63		18.7	-51.0	clear	None	NO	
6	1710	1.07	6.64	586	18.5	-55.2	clear	none	NO	
										Collect Sample

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

MONITORING WELL PURGE AND SAMPLE

Project Name/Number:	4401 Market Street/P257	Logged By:	Darcy Hinkley
Property Location:	4401 Market Street, Oakland CA	Date:	15 December 2008
Well Number:	MW3	Sample Type:	Grab
Purging Equipment:	Submersible Pump	Depth to Water (ft):	13.05
Sampling Equipment:	Bailer with Bottom-Emptying Device	Total Depth (ft):	24.6
Measuring Point:	Top of casing, north side	Casing Diameter (in):	2
Free Product:		Odor:	None
Comments:		Sample Number:	MW3

Note obstructions, well damage, or other compromising features under comments.

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 Standing Water Casing Volume (gallons)		Three Casing Volumes (gallons)
24.6	-	13.05	x	0.16	=	1.8	x 3	5.4

Purge Volume (gallons)	Time	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (µS/cm)	Temp (°C)	ORP (mV)	Turbidity	Color	Purged Dry?	Comments
0	1405	3.28	5.95		16.6	63.4	trans	brown	NO	Start purge
2	1407	3.28	6.30		17.4	62.6	trans	brown	NO	
4	1410	3.07	6.30		17.7	74.6	clear	None	NO	
6	1414	2.99	6.56	390	17.6	98.6	clear	None	NO	
										Collect Sample

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

MONITORING WELL PURGE AND SAMPLE

Project Name/Number:	4401 Market Street/P257	Logged By:	Darcy Hinkley
Property Location:	4401 Market Street, Oakland CA	Date:	15 December 2008
Well Number:	MW4	Sample Type:	Grab
Purging Equipment:	Submersible Pump	Depth to Water (ft):	12.39
Sampling Equipment:	Bailer with Bottom-Emptying Device	Total Depth (ft):	24.5
Measuring Point:	Top of casing, north side	Casing Diameter (in):	2
Free Product:		Odor:	Slight
Comments:		Sample Number:	MW4

Note obstructions, well damage, or other compromising features under comments.

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 Standing Water Casing Volume (gallons)		Three Casing Volumes (gallons)
24.5	-	12.39	x	0.16	=	1.9	x 3	5.7

Purge Volume (gallons)	Time	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (µS/cm)	Temp (°C)	ORP (mV)	Turbidity	Color	Purged Dry?	Comments
0	1635	1.03	6.62		16.2	-77.7	trans	brown	NO	Start purge
2	1637	0.97	6.58		18.3	-10.8	clear	None	NO	
4	1640	0.86	6.59		18.9	1.7	clear	None	NO	
6	1644	1.02	6.59	496	18.8	-15.2	clear	None	NO	
										Collect Sample

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

MONITORING WELL PURGE AND SAMPLE

Project Name/Number:	4401 Market Street/P257	Logged By:	Darcy Hinkley
Property Location:	4401 Market Street, Oakland CA	Date:	15 December 2008
Well Number:	MW5	Sample Type:	Grab
Purging Equipment:	Submersible Pump	Depth to Water (ft):	12.24
Sampling Equipment:	Bailer with Bottom-Emptying Device	Total Depth (ft):	24.9
Measuring Point:	Top of casing, north side	Casing Diameter (in):	2
Free Product:		Odor:	yes
Comments:		Sample Number:	MW5

Note obstructions, well damage, or other compromising features under comments.

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 Standing Water Casing Volume (gallons)		Three Casing Volumes (gallons)
24.9	-	12.24	x	0.16	=	2	x 3	6

Purge Volume (gallons)	Time	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (µS/cm)	Temp (°C)	ORP (mV)	Turbidity	Color	Purged Dry?	Comments
0	1557	0.91	6.66		16.9	-43.1	trans	gray	NO	Start purge
2	1559	0.86	6.70		17.7	-44.2	trans	gray	NO	
4	1601	0.85	6.73		18.5	-38.9	trans	gray	NO	
6	1603	0.75	6.67	690	18.5	-50.9	trans	gray	NO	
										Collect Sample

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

MONITORING WELL PURGE AND SAMPLE

Project Name/Number:	4401 Market Street/P257	Logged By:	Darcy Hinkley
Property Location:	4401 Market Street, Oakland CA	Date:	15 December 2008
Well Number:	MW6	Sample Type:	Grab
Purging Equipment:	Submersible Pump	Depth to Water (ft):	12.05
Sampling Equipment:	Bailer with Bottom-Emptying Device	Total Depth (ft):	24.8
Measuring Point:	Top of casing, north side	Casing Diameter (in):	2
Free Product:		Odor:	None
Comments:		Sample Number:	MW6

Note obstructions, well damage, or other compromising features under comments.

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 Standing Water Casing Volume (gallons)		Three Casing Volumes (gallons)
24.8	-	12.05	x	0.16	=	2	x 3	6

Purge Volume (gallons)	Time	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (µS/cm)	Temp (°C)	ORP (mV)	Turbidity	Color	Purged Dry?	Comments
0	1529	2.91	6.58		14.9	142.41	trans	brown	NO	Start purge
2	1531	2.35	6.59		17.8	156.4	trans	brown	NO	
4	1533	1.97	6.59		18.4	152.5	trans	brown	NO	
6	1535	1.97	6.60	442	18.9	143.6	trans	brown	NO	
										Collect Sample

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

MONITORING WELL PURGE AND SAMPLE

Project Name/Number:	4401 Market Street/P257	Logged By:	Darcy Hinkley
Property Location:	4401 Market Street, Oakland CA	Date:	15 December 2008
Well Number:	MW7	Sample Type:	Grab
Purging Equipment:	Submersible Pump	Depth to Water (ft):	
Sampling Equipment:	Bailer with Bottom-Emptying Device	Total Depth (ft):	
Measuring Point:	Top of casing, north side	Casing Diameter (in):	2
Free Product:		Odor:	
Comments:	No Access	Sample Number:	MW7

Note obstructions, well damage, or other compromising features under comments.

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 Standing Water Casing Volume (gallons)		Three Casing Volumes (gallons)
	-		x	0.16	=		x 3	

Purge Volume (gallons)	Time	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (µS/cm)	Temp (°C)	ORP (mV)	Turbidity	Color	Purged Dry?	Comments
0										Start purge
										Collect Sample

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

ATTACHMENT 3

Laboratory Report and Chain-of-Custody Form

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

Wednesday, December 31, 2008 10:18:01AM

Information at Streamborn
Streamborn
PO Box 8330
Berkeley, CA 94707-8330

RE: NEW PROFILE 4401 Market Street
Work Order: MRL0459

Enclosed are the results of analyses for samples received by the laboratory on 12/16/08 15:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tim Costello
Client Services Manager

CA ELAP Certificate # 2705

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

For Volatile Analysis a trip blank is required to be provided. If trip blank results are not included in the report, then either the trip blank was not submitted or requested to be analyzed.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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FAX (408) 782-6308
www.testamericainc.com

Streamborn	Project:	NEW PROFILE 4401 Market Street	MRL0459
PO Box 8330	Project Number:	[none]	**Reported:**
Berkeley CA, 94707-8330	Project Manager:	Information at Streamborn	12/31/08 10:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW3	MRL0459-01	Waste Water	12/15/08 14:14	12/16/08 15:50
MW1	MRL0459-02	Waste Water	12/15/08 15:04	12/16/08 15:50
MW6	MRL0459-03	Waste Water	12/15/08 15:35	12/16/08 15:50
MW4	MRL0459-04	Waste Water	12/15/08 16:44	12/16/08 15:50
MW5	MRL0459-05	Waste Water	12/15/08 16:03	12/16/08 15:50
MW2	MRL0459-06	Waste Water	12/15/08 17:10	12/16/08 15:50

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Streamborn	Project: NEW PROFILE 4401 Market Street	MRL0459
PO Box 8330	Project Number: [none]	**Reported:**
Berkeley CA, 94707-8330	Project Manager: Information at Streamborn	12/31/08 10:17

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW3 (MRL0459-01) Waste Water	**Sampled: 12/15/08 14:14**	**Received: 12/16/08 15:50**							
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	8L19003	12/19/08	12/19/08	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*75-130*		"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*80-120*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99 %*	*70-120*		"	"	"	"	
MW1 (MRL0459-02) Waste Water	**Sampled: 12/15/08 15:04**	**Received: 12/16/08 15:50**							
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	8L19003	12/19/08	12/19/08	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*75-130*		"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*80-120*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99 %*	*70-120*		"	"	"	"	
MW6 (MRL0459-03) Waste Water	**Sampled: 12/15/08 15:35**	**Received: 12/16/08 15:50**							
Gasoline Range Organics (C4-C12)	**78**	50	ug/l	1	8L19003	12/19/08	12/19/08	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*75-130*		"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*	*80-120*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*70-120*		"	"	"	"	
MW4 (MRL0459-04) Waste Water	**Sampled: 12/15/08 16:44**	**Received: 12/16/08 15:50**							
Gasoline Range Organics (C4-C12)	**70**	50	ug/l	1	8L19003	12/19/08	12/19/08	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*75-130*		"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*80-120*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*70-120*		"	"	"	"	

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Streamborn	Project:	NEW PROFILE 4401 Market Street	MRL0459
PO Box 8330	Project Number:	[none]	**Reported:**
Berkeley CA, 94707-8330	Project Manager:	Information at Streamborn	12/31/08 10:17

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW5 (MRL0459-05) Waste Water	**Sampled: 12/15/08 16:03**	**Received: 12/16/08 15:50**							
Gasoline Range Organics (C4-C12)	**3300**	50	ug/l	1	8L19003	12/19/08	12/19/08	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*75-130*		"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*80-120*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*70-120*		"	"	"	"	
MW2 (MRL0459-06) Waste Water	**Sampled: 12/15/08 17:10**	**Received: 12/16/08 15:50**							
Gasoline Range Organics (C4-C12)	**1600**	50	ug/l	1	8L19003	12/19/08	12/19/08	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*75-130*		"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*80-120*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*70-120*		"	"	"	"	

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Streamborn	Project: NEW PROFILE 4401 Market Street	MRL0459
PO Box 8330	Project Number: [none]	**Reported:**
Berkeley CA, 94707-8330	Project Manager: Information at Streamborn	12/31/08 10:17

Volatile Organic Compounds by EPA Method 8260B

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW3 (MRL0459-01) Waste Water Sampled: 12/15/08 14:14 Received: 12/16/08 15:50									
Benzene	ND	0.50	ug/l	1	8L19003	12/19/08	12/19/08	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*		*80-120*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*		*75-130*		"	"	"	
Surrogate: Toluene-d8		*100 %*		*80-120*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*99 %*		*70-120*		"	"	"	
MW1 (MRL0459-02) Waste Water Sampled: 12/15/08 15:04 Received: 12/16/08 15:50									
Benzene	ND	0.50	ug/l	1	8L19003	12/19/08	12/19/08	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*		*80-120*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*		*75-130*		"	"	"	
Surrogate: Toluene-d8		*100 %*		*80-120*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*99 %*		*70-120*		"	"	"	

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Streamborn	Project: NEW PROFILE 4401 Market Street	MRL0459
PO Box 8330	Project Number: [none]	**Reported:**
Berkeley CA, 94707-8330	Project Manager: Information at Streamborn	12/31/08 10:17

Volatile Organic Compounds by EPA Method 8260B

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW6 (MRL0459-03) Waste Water Sampled: 12/15/08 15:35 Received: 12/16/08 15:50									
Benzene	ND	0.50	ug/l	1	8L19003	12/19/08	12/19/08	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*		*80-120*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*		*75-130*		"	"	"	
Surrogate: Toluene-d8		*101 %*		*80-120*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*		*70-120*		"	"	"	
MW4 (MRL0459-04) Waste Water Sampled: 12/15/08 16:44 Received: 12/16/08 15:50									
Benzene	**1.1**	0.50	ug/l	1	8L19003	12/19/08	12/19/08	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	**2.8**	0.50	"	"	"	"	"	"	
Xylenes (total)	**4.4**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*		*80-120*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*110 %*		*75-130*		"	"	"	
Surrogate: Toluene-d8		*100 %*		*80-120*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*70-120*		"	"	"	

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Streamborn	Project: NEW PROFILE 4401 Market Street	MRL0459
PO Box 8330	Project Number: [none]	**Reported:**
Berkeley CA, 94707-8330	Project Manager: Information at Streamborn	12/31/08 10:17

Volatile Organic Compounds by EPA Method 8260B

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW5 (MRL0459-05) Waste Water	**Sampled: 12/15/08 16:03**	**Received: 12/16/08 15:50**							
Benzene	**53**	0.50	ug/l	1	8L19003	12/19/08	12/19/08	EPA 8260B	
Toluene	**1.1**	0.50	"	"	"	"	"	"	
Ethylbenzene	**58**	0.50	"	"	"	"	"	"	
Xylenes (total)	**110**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*		*80-120*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*110 %*		*75-130*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*		*70-120*	"	"	"	"	
MW2 (MRL0459-06) Waste Water	**Sampled: 12/15/08 17:10**	**Received: 12/16/08 15:50**							
Benzene	**43**	0.50	ug/l	1	8L19003	12/19/08	12/19/08	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	**53**	0.50	"	"	"	"	"	"	
Xylenes (total)	**150**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*		*80-120*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*110 %*		*75-130*	"	"	"	"	
Surrogate: Toluene-d8		*104 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*		*70-120*	"	"	"	"	

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Streamborn	Project: NEW PROFILE 4401 Market Street	MRL0459
PO Box 8330	Project Number: [none]	**Reported:**
Berkeley CA, 94707-8330	Project Manager: Information at Streamborn	12/31/08 10:17

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8L19003 - EPA 5030B P/T / LUFT GCMS										
Blank (8L19003-BLK1)				Prepared & Analyzed: 12/19/08						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*8.17*		"	*7.50*		*109*	*75-130*			
Surrogate: Dibromofluoromethane	*7.86*		"	*7.50*		*105*	*80-120*			
Surrogate: Toluene-d8	*7.50*		"	*7.50*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*7.27*		"	*7.50*		*97*	*70-120*			
Laboratory Control Sample (8L19003-BS2)				Prepared & Analyzed: 12/19/08						
Gasoline Range Organics (C4-C12)	436	50	ug/l	500		87	65-140			
Surrogate: 1,2-Dichloroethane-d4	*7.98*		"	*7.50*		*106*	*75-130*			
Surrogate: Dibromofluoromethane	*7.56*		"	*7.50*		*101*	*80-120*			
Surrogate: Toluene-d8	*7.59*		"	*7.50*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*7.62*		"	*7.50*		*102*	*70-120*			
Laboratory Control Sample Dup (8L19003-BSD2)				Prepared & Analyzed: 12/19/08						
Gasoline Range Organics (C4-C12)	430	50	ug/l	500		86	65-140	1	20	
Surrogate: 1,2-Dichloroethane-d4	*8.22*		"	*7.50*		*110*	*75-130*			
Surrogate: Dibromofluoromethane	*7.59*		"	*7.50*		*101*	*80-120*			
Surrogate: Toluene-d8	*7.50*		"	*7.50*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*7.56*		"	*7.50*		*101*	*70-120*			
Matrix Spike (8L19003-MS1)	**Source: MRL0459-01**			Prepared & Analyzed: 12/19/08						
Gasoline Range Organics (C4-C12)	934	50	ug/l	800	ND	117	45-150			
Surrogate: 1,2-Dichloroethane-d4	*7.80*		"	*7.50*		*104*	*75-130*			
Surrogate: Dibromofluoromethane	*8.06*		"	*7.50*		*107*	*80-120*			
Surrogate: Toluene-d8	*7.59*		"	*7.50*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*7.86*		"	*7.50*		*105*	*70-120*			
Matrix Spike Dup (8L19003-MSD1)	**Source: MRL0459-01**			Prepared & Analyzed: 12/19/08						
Gasoline Range Organics (C4-C12)	581	50	ug/l	800	ND	73	45-150	47	20	R2
Surrogate: 1,2-Dichloroethane-d4	*7.65*		"	*7.50*		*102*	*75-130*			
Surrogate: Dibromofluoromethane	*7.86*		"	*7.50*		*105*	*80-120*			
Surrogate: Toluene-d8	*7.50*		"	*7.50*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*7.68*		"	*7.50*		*102*	*70-120*			

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Streamborn	Project: NEW PROFILE 4401 Market Street	MRL0459
PO Box 8330	Project Number: [none]	**Reported:**
Berkeley CA, 94707-8330	Project Manager: Information at Streamborn	12/31/08 10:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8L19003 - EPA 5030B P/T / EPA 8260B										
Blank (8L19003-BLK1)				Prepared & Analyzed: 12/19/08						
Benzene	ND	0.50	ug/l							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Ethanol	ND	100	"							
Surrogate: Dibromofluoromethane	*7.86*		*"*	*7.50*		*105*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*8.17*		*"*	*7.50*		*109*	*75-130*			
Surrogate: Toluene-d8	*7.50*		*"*	*7.50*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*7.27*		*"*	*7.50*		*97*	*70-120*			
Laboratory Control Sample (8L19003-BS1)				Prepared & Analyzed: 12/19/08						
Benzene	10.3	0.50	ug/l	10.0		103	80-120			
Toluene	9.83	0.50	"	10.0		98	80-125			
Ethylbenzene	10.9	0.50	"	10.0		109	80-130			
Xylenes (total)	33.7	0.50	"	30.0		112	80-130			
Methyl tert-butyl ether	10.9	0.50	"	10.0		109	80-130			
Di-isopropyl ether	10.4	0.50	"	10.0		104	70-130			
Ethyl tert-butyl ether	10.4	0.50	"	10.0		104	75-130			
tert-Amyl methyl ether	10.7	0.50	"	10.0		107	75-125			
tert-Butyl alcohol	203	20	"	200		102	80-120			
1,2-Dichloroethane	11.2	0.50	"	10.0		112	80-125			
1,2-Dibromoethane (EDB)	11.0	0.50	"	10.0		110	80-125			
Ethanol	190	100	"	200		95	50-150			
Surrogate: Dibromofluoromethane	*7.79*		*"*	*7.50*		*104*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*7.84*		*"*	*7.50*		*105*	*75-130*			
Surrogate: Toluene-d8	*7.58*		*"*	*7.50*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*7.75*		*"*	*7.50*		*103*	*70-120*			

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PO Box 8330	Project Number: [none]	**Reported:**
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8L19003 - EPA 5030B P/T / EPA 8260B										
Matrix Spike (8L19003-MS1)	**Source: MRL0459-01**			Prepared & Analyzed: 12/19/08						
Benzene	10.5	0.50	ug/l	10.0	ND	105	75-125			
Toluene	9.98	0.50	"	10.0	ND	100	80-130			
Ethylbenzene	10.8	0.50	"	10.0	ND	108	75-135			
Xylenes (total)	33.0	0.50	"	30.0	0.200	109	80-140			
Methyl tert-butyl ether	11.2	0.50	"	10.0	ND	112	75-145			
Di-isopropyl ether	11.0	0.50	"	10.0	ND	110	75-135			
Ethyl tert-butyl ether	11.0	0.50	"	10.0	ND	110	80-135			
tert-Amyl methyl ether	11.1	0.50	"	10.0	ND	111	75-140			
tert-Butyl alcohol	208	20	"	200	3.18	103	80-125			
1,2-Dichloroethane	11.4	0.50	"	10.0	ND	114	80-140			
1,2-Dibromoethane (EDB)	11.5	0.50	"	10.0	ND	115	80-135			
Ethanol	230	100	"	200	ND	115	50-150			
Surrogate: Dibromofluoromethane	*8.06*		*"*	*7.50*		*107*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*7.80*		*"*	*7.50*		*104*	*75-130*			
Surrogate: Toluene-d8	*7.59*		*"*	*7.50*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*7.86*		*"*	*7.50*		*105*	*70-120*			
Matrix Spike Dup (8L19003-MSD1)	**Source: MRL0459-01**			Prepared & Analyzed: 12/19/08						
Benzene	10.4	0.50	ug/l	10.0	ND	104	75-125	1	20	
Toluene	9.82	0.50	"	10.0	ND	98	80-130	2	25	
Ethylbenzene	10.8	0.50	"	10.0	ND	108	75-135	0	20	
Xylenes (total)	32.3	0.50	"	30.0	0.200	107	80-140	2	20	
Methyl tert-butyl ether	10.6	0.50	"	10.0	ND	106	75-145	5	25	
Di-isopropyl ether	10.6	0.50	"	10.0	ND	106	75-135	4	25	
Ethyl tert-butyl ether	10.3	0.50	"	10.0	ND	103	80-135	6	25	
tert-Amyl methyl ether	10.5	0.50	"	10.0	ND	105	75-140	6	25	
tert-Butyl alcohol	207	20	"	200	3.18	102	80-125	0.9	25	
1,2-Dichloroethane	10.8	0.50	"	10.0	ND	108	80-140	5	25	
1,2-Dibromoethane (EDB)	10.8	0.50	"	10.0	ND	108	80-135	6	30	
Ethanol	226	100	"	200	ND	113	50-150	2	25	
Surrogate: Dibromofluoromethane	*7.86*		*"*	*7.50*		*105*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*7.65*		*"*	*7.50*		*102*	*75-130*			
Surrogate: Toluene-d8	*7.50*		*"*	*7.50*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*7.68*		*"*	*7.50*		*102*	*70-120*			

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PO Box 8330	Project Number:	[none]	**Reported:**
Berkeley CA, 94707-8330	Project Manager:	Information at Streamborn	12/31/08 10:17

Notes and Definitions

R2	The RPD exceeded the acceptance limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

MRL0459

STREAMBORN

Chain-of-Custody Form

Project Name: 4401 Market Street	Project Location: 4401 Market Street, Oakland CA		Project Number: P257
Sampler: Darcy Hinkley	Laboratory: TestAmerica		Laboratory Number:

	Sample Designation	Date	Time	Matrix: Soil	Matrix: Water	Matrix: Vapor	Type: Grab	Type: Composite	Containers: Quantity	Containers: Type	Preservative (in addition to ice)	Field Filtration	Turnaround: 48-Hour	Turnaround: 5- Working Days	Turnaround: 10-Working Days	Analyses	Sampler Comments	Laboratory Comments
	~~MW7~~	~~15-Dec-2008~~			~~x~~		~~x~~		~~3~~	~~40 mL VOA~~	~~HCL~~	~~None~~			~~x~~	~~x~~		
01	MW3	15-Dec-2008	1414		x		x		3	40 mL VOA	HCL	None			x	x		
02	MW1	15-Dec-2008	1504		x		x		3	40 mL VOA	HCL	None			x	x		
03	MW6	15-Dec-2008	1535		x		x		3	40 mL VOA	HCL	None			x	x		
04	MW4	15-Dec-2008	1644		x		x		3	40 mL VOA	HCL	None			x	x		
05	MW5	15-Dec-2008	1603		x		x		3	40 mL VOA	HCL	None			x	x		
06	MW2	15-Dec-2008	1710		x		x		3	40 mL VOA	HCL	None			x	x		

Analyses: TPH-gasoline/BTEX/fuel oxygenates (EPA Method 8260)

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

Relinquished By:	Received By:	Date: 12/16/08	Time: 1300
Relinquished By:	Received By:	Date: 12-16-08	Time: 1550

(TAMH)

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: T0600100430

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: STREAM BORN
REC. BY (PRINT) LM
WORKORDER: MRL0459

DATE REC'D AT LAB: 12/16/08
TIME REC'D AT LAB: 1550
DATE LOGGED IN: 12/17/08

For Regulatory Purposes?
___ DRINKING WATER
X WASTE WATER
___ OTHER

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESER VATIVE	pH**	SAMPLE MATRIX	DATE SAMPLED	Temp. >6°C	REMARKS: CONDITION
1. Custody Seal(s) Present / (Absent) Intact / Broken*									
2. Chain-of-Custody (Present) / Absent*									
3. Traffic Reports or Packing List: Present / (Absent)									
4. Airbill / Sticker - Present / (Absent) Tracking # ———									
5. Sample Condition: (Intact)/Leaking*/Broken*									
6. Samples labeled (Yes) No*									
7. Sample ID's listed on COC (Yes) No*									
8. Does information on COC and sample labels agree? (Yes) No*									
9. Sample received within hold time: (Yes) / No*									
10. Adequate sample volume received (Yes) / No*									
11. Proper preservatives used (Yes) / No*									
12. Trip Blank / Temp Blank Received? (circle which if yes) Yes / (No)									
13. Thermometer Used : IR-1 / (IR-3) / Backup									
14. Cooler RT*** CF*** CT***									
1 7.0°C -1.0 6.0°C									
2 ——— ——— ———									
3 ——— ——— ———									
4 ——— ——— ———									
5 ——— ——— ———									
15. Is/Are corrected temp 0-6°C? Yes / No*									
**Exception (if any): Metals / Perchlorate / W/in 24hrs of sampling-on ice / Problem COC									

Main Temp 12/16/08 SEE COC 3 VIALS HCL P. SAME

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION
**CHECK SAMPLE PREP LOG IF NOT INDICATED
*** Read Temperature/Correction Factor/Corrected Temperature