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Declaration from the Responsible Party

Letter Report  
Decommissioning/Abandonment of Seven Wells Conducted 5 January 2012  
4401 Market Street  
Oakland CA  
**Fuel Leak Case No. RO0000132**  
**Geotracker Global ID T0600100430**

Prepared by Streamborn, Dated 9 March 2012

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.

Casmiro Damele  
3750 Victor Avenue  
Oakland CA 94619

Signed Casmiro Damele  
Dated 4-19-12

Casimiro Damele  
3750 Victor Avenue  
Oakland CA 94619

9 March 2012

Project No. P257

Letter Report  
Decommissioning/Abandonment of Seven Wells Conducted 5 January 2012  
4401 Market Street  
Oakland CA  
**Fuel Leak Case No. RO0000132**  
**Geotracker Global ID T0600100430**

Dear Mr. Damele (hardcopy):

This report documents the decommissioning/abandonment of seven wells (MW1, MW2, MW4, MW5, MW6, and MW7) located at/near the subject site. Fieldwork was conducted 5 January 2012. We performed the decommission/abandonment pursuant to correspondence from the Alameda County Health Care Services Agency (letter dated 3 September 2010).

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 information since 2001.
- Table 4 summarizes waste soil analytical data.
- Table 5 summarizes wastewater analytical data.
- Figure 1 provides a USGS location map.
- Figure 2 provides a Google Earth location map.
- Figure 3 presents a site map.
- Photos 1-3 show the well decommissioning/abandonment.
- Attachment 1 contains the Alameda County Permit to decommission/abandon the wells.
- Attachment 2 contains the City of Oakland Excavation Permit.
- Attachment 3 contains the City of Oakland Obstruction Permit.
- Attachment 4 contains the access agreement for 904 44<sup>th</sup> Street (property where well MW7 was decommissioned/abandoned).

- Attachment 5 contains the boring logs and well completion schematics for the wells that were decommissioned/abandoned.
- Attachment 6 contains the well decommissioning/abandonment field logs.
- Attachment 7 contains the field sampling form, chain-of-custody form, and laboratory analytical report for the waste soil (soil generated during decommissioning/abandonment).
- Attachment 8 contains the chain-of-custody form and laboratory analytical report for the wastewater (purge water generated during historic well sampling events).
- Attachment 9 contains documentation regarding disposal of the waste soil and wastewater.
- Attachment 10 contains the DWR-188 forms.
- Attachment 11 contains a request to rescind encroachment permits for wells MW2, MW4, MW5, and MW6 (wells located in the street).
- Attachment 12 presents dimensioned locations of the wells.

### **WELL DECOMMISSIONING/ABANDONMENT**

Prior to performing fieldwork the following activities were conducted:

- A permit was obtained from Alameda County Health Care Services Agency for the well decommissioning/abandonment.
- An excavation permit was obtained from the City of Oakland for decommissioning/abandonment work performed in the street.
- An obstruction permit was obtained from the City of Oakland for decommissioning/abandonment work performed in the street.
- An access agreement was obtained to for decommissioning/abandoning well MW7 located at 903 44<sup>th</sup> Street.
- 811/Underground Service Alert was notified to clear the decommissioning/abandonment locations.

The following activities were conducted to decommission/abandon the wells:

- The depth to groundwater and total depth were initially measured in each well.
- The following activities were conducted for wells MW2, MW4, MW5, and MW6 located in the street:

Using a Geoprobe direct-push track-mounted drill rig, the concrete skirt and wellhead vault were removed. A tremie pipe was used to place neat cement grout (94 pounds/one sack of Type I/II cement to  $\pm 6$  gallons of water) to a depth of  $\pm 1$ -foot inside each well casing. Next, the grout was

pressurized at 25 psi and held at that pressure for 5 minutes. The wells were then overdrilled to a depth of  $\pm 5$  feet using an 8-inch outside diameter hollow-stem auger. The resulting borehole was backfilled to a depth of  $\pm 16$  inches with concrete. The overdrilling cuttings (waste soil) were containerized in a labeled drum and stored onsite.

The pavement restoration of each wellhead was performed by sawcutting a  $\pm 20$ -inch-by- $\pm 20$ -inch square in the pavement and removing the asphalt concrete debris and underlying aggregate base (the existing asphalt concrete pavement was  $\pm 8$  inches thick and the existing aggregate base was  $\pm 9$  inches thick). Approximately 9 inches of new aggregate base were then placed and compacted using a jumping jack. A tack coat of asphalt was applied to the aggregate base and sawcut. Approximately 8 inches of hot-mix asphalt concrete were placed and compacted with a jumping jack and finished with a vibratory roller.

- The following activities were conducted for wells MW1, MW3, and MW7 located on private property.

A tremie pipe was used to place neat cement grout (94 pounds/one sack of Type I/II cement to  $\pm 6$  gallons of water) to a depth of  $\pm 1$ -foot inside each well casing. According to the Alameda County Public Works Agency inspector (Victoria Hamlin), pressure grouting was not required; accordingly, pressure grouting was not performed.

For wells MW1 and MW7, the wellhead vault was removed and the grout seal and casing were removed to a depth of  $\pm 1$  foot. The resulting void was backfilled with concrete.

For well MW3, access restrictions prevented removal of the wellhead vault; accordingly, the casing and grout seal were removed to a depth of  $\pm 6$  inches and the void was backfilled with concrete.

- Vitoria Hamlin of the Alameda County Public Works Agency inspected the decommissioning/abandonment activities. A representative of the City of Oakland inspected traffic control and pavement restoration in the street.

### **DISPOSAL OF WASTE SOIL**

Waste soil was generated via overdrilling wells MW2, MW4, MW5, and MW6. The waste soil was stored onsite in a labeled 55-gallon drum. A composite sample was collected from the drummed soil. The composite sample was analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA 8260), TPH-diesel, and total lead. A soil profile was then prepared that classified the waste soil as nonhazardous solids. On 6 March 2012, North State Environmental picked up and transported the waste soil to an appropriately-permitted facility for disposal.

## DISPOSAL OF WASTEWATER

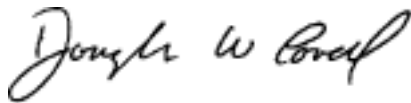
Purge water had been generated during historic groundwater sampling events and this wastewater had been stored onsite in four 55-gallon drums. A composite sample was collected from the drummed wastewater. The composite sample was analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA 8260), volatile organic compounds (EPA 8260), and total CAM 17 Metals. A wastewater profile was then prepared that classified the wastewater as nonhazardous liquids. On 6 March 2012, North State Environmental picked up and transported the wastewater to an appropriately-permitted facility for disposal.

Upon completion of the described work, no wells remain at the site and no investigation-derived wastes remain at the site.

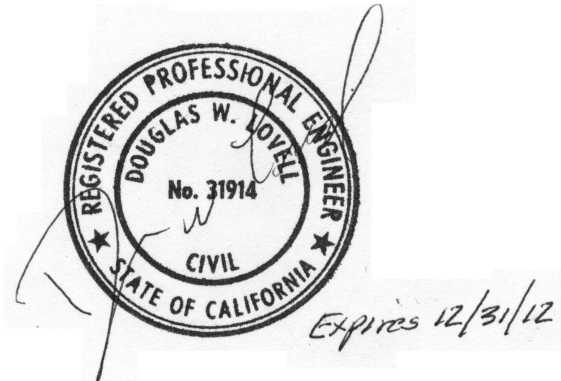
Please contact us with any questions or comments.

Sincerely,

STREAMBORN



Douglas W. Lovell, PE  
Geoenvironmental Engineer



Attachments

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

Donna Drogos/Alameda County Health Care Services Agency, Alameda CA (ecopy)

This report was uploaded to the Alameda County Server

This report was uploaded to Geotracker ([www.geotracker.swrcb.ca.gov](http://www.geotracker.swrcb.ca.gov))

**Table 1 (Page 1 of 4)**  
**Environmental Chronology**  
**4401 Market Street, Oakland CA**

Date	Activities Performed By	Description
Unknown	Unknown	<ul style="list-style-type: none"> <li>• Four underground gasoline tanks (one 1,000-gallon and three 500-gallon tanks) were installed.</li> <li>• W.A. Craig reported that the structure at 4401 Market Street was constructed in 1943 and used as a gasoline station until the 1970s.</li> </ul>
22 June 1990	Environmental Bio-Systems	<ul style="list-style-type: none"> <li>• The four 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.</li> <li>• 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.</li> </ul>
6 September 1990	W.A. Craig	<ul style="list-style-type: none"> <li>• Two trenches were excavated to depths of approximately 5 feet in the vicinity of the former dispenser island.</li> <li>• Contaminated soil was observed during excavation but no laboratory analyses were performed. The excavated soil was reused to backfill the trenches.</li> </ul>
27 and 28 October 1994	W.A. Craig	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Free product, presumably gasoline, was observed in boring SB2, located near the southwest corner of 4401 Market Street.</li> <li>• Soil samples were analyzed for TPH-gasoline and BTEX.</li> </ul>
8 November 1994	W.A. Craig	<ul style="list-style-type: none"> <li>• Groundwater monitoring was conducted for wells MW1, MW2, and MW3.</li> <li>• Samples were analyzed for TPH-gasoline and BTEX.</li> </ul>
14 February 1995	W.A. Craig	<ul style="list-style-type: none"> <li>• Groundwater monitoring was conducted for wells MW1, MW2, and MW3.</li> <li>• Samples were analyzed for TPH-gasoline and BTEX.</li> </ul>
7 June 1995	W.A. Craig	<ul style="list-style-type: none"> <li>• Groundwater monitoring was conducted for wells MW1, MW2, and MW3.</li> <li>• Samples were analyzed for TPH-gasoline and BTEX.</li> </ul>
29 August 1995	W.A. Craig	<ul style="list-style-type: none"> <li>• Groundwater monitoring was conducted for wells MW1, MW2, and MW3.</li> <li>• Samples were analyzed for TPH-gasoline and BTEX.</li> </ul>
8 December 1995	W.A. Craig	<ul style="list-style-type: none"> <li>• Groundwater monitoring was conducted for wells MW1, MW2, and MW3.</li> <li>• Samples were analyzed for TPH-gasoline and BTEX.</li> </ul>
7 March 1996	W.A. Craig	<ul style="list-style-type: none"> <li>• Groundwater monitoring was conducted for wells MW1, MW2, and MW3.</li> <li>• Samples were analyzed for TPH-gasoline, BTEX, and MtBE.</li> </ul>
19 June 1996	W.A. Craig	<ul style="list-style-type: none"> <li>• Groundwater monitoring was conducted for wells MW1, MW2, and MW3.</li> <li>• Samples were analyzed for TPH-gasoline, BTEX, and MtBE.</li> </ul>
20 December 1996	W.A. Craig	<ul style="list-style-type: none"> <li>• Groundwater monitoring was conducted for wells MW1, MW2, and MW3.</li> <li>• Samples were analyzed for TPH-gasoline, BTEX, and MtBE.</li> </ul>
12 June 1997	W.A. Craig	<ul style="list-style-type: none"> <li>• Groundwater monitoring was conducted for wells MW1, MW2, and MW3.</li> <li>• Samples were analyzed for TPH-gasoline, BTEX, and MtBE.</li> </ul>
31 March 1999	Streamborn	<ul style="list-style-type: none"> <li>• Groundwater levels measured in wells MW1, MW2, and MW3.</li> </ul>
April and July 1999	Streamborn	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Soil samples and groundwater samples were analyzed for TPH-gasoline, BTEX, and fuel oxygenates.</li> </ul>
4-5 January 2001	Streamborn	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Soil samples were analyzed for TPH-Gasoline, BTEX, and fuel oxygenates.</li> <li>• An elevation survey was performed for the newly-installed monitoring wells.</li> </ul>

**Table 1 (Page 2 of 4)**  
**Environmental Chronology**  
**4401 Market Street, Oakland CA**

Date	Activities Performed By	Description
1 February 2001	Streamborn	<ul style="list-style-type: none"> <li>Wells MW4, MW5, MW6, and MW7 were developed.</li> <li>Groundwater samples were collected from wells MW1, MW3, MW4, MW5, MW6, and MW7. Samples were analyzed for TPH-Gasoline, BTEX, and fuel oxygenates.</li> <li>Water levels were measured in wells MW1, MW2, MW3, MW4, MW5, MW6, and MW7.</li> <li>Wells MW4, MW5, and MW6 were monitored for free product; no free product was detected.</li> </ul>
9 March 2001	Streamborn	<ul style="list-style-type: none"> <li>Water levels were measured in wells MW1, MW2, MW3, MW4, MW5, MW6, and MW7.</li> <li>Wells MW4, MW5, and MW6 were monitored for free product; no free product was detected.</li> </ul>
23 April 2001	Streamborn	<ul style="list-style-type: none"> <li>Water levels were measured in MW1, MW2, MW3, MW4, MW5, MW6, and MW7.</li> <li>Wells MW4, MW5, and MW6 were monitored for free product; no free product was detected.</li> </ul>
30 May 2001	Streamborn	<ul style="list-style-type: none"> <li>Groundwater samples were collected from wells MW1, MW3, MW4, MW5, MW6 and MW7. Samples were analyzed for TPH-Gasoline, BTEX, and fuel oxygenates.</li> <li>Water levels were measured in wells MW1, MW2, MW3, MW4, MW5, MW6, and MW7.</li> <li>Wells MW4, MW5, and MW6 were monitored for free product; no free product was detected.</li> </ul>
19 June 2001	Streamborn	<ul style="list-style-type: none"> <li>Water levels were measured in MW1, MW2, MW3, MW4, MW5, MW6, and MW7.</li> <li>Wells MW4, MW5, and MW6 were monitored for free product; no free product was detected.</li> </ul>
19 July 2001	Streamborn	<ul style="list-style-type: none"> <li>Water levels were measured in MW1, MW2, MW3, MW4, MW5, MW6, and MW7.</li> <li>Wells MW4, MW5, and MW6 were monitored for free product; no free product was detected.</li> </ul>
22 August 2001	Streamborn	<ul style="list-style-type: none"> <li>Groundwater samples were collected from wells MW1, MW3, MW4, MW5, MW6 and MW7. Samples were analyzed for TPH-Gasoline, BTEX, and fuel oxygenates.</li> <li>Water levels were measured in wells MW1, MW2, MW3, MW4, MW5, MW6, and MW7.</li> <li>Wells MW4, MW5, and MW6 were monitored for free product; no free product was detected.</li> </ul>
29 November 2001	Streamborn	<ul style="list-style-type: none"> <li>Groundwater samples were collected from wells MW1, MW3, MW4, MW5, MW6 and MW7. Samples were analyzed for TPH-Gasoline, BTEX, and fuel oxygenates.</li> <li>Water levels were measured in wells MW1, MW2, MW3, MW4, MW5, MW6, and MW7.</li> </ul>
29 September 2003	Streamborn	<ul style="list-style-type: none"> <li>Groundwater samples were collected from wells MW1, MW3, MW4, MW5, MW6 and MW7. Samples were analyzed for TPH-Gasoline, BTEX, and fuel oxygenates.</li> <li>Water levels were measured in wells MW1, MW2, MW3, MW4, MW5, MW6, and MW7.</li> <li>Wells MW4, MW5, and MW6 were monitored for free product; no free product was detected.</li> </ul>
21 November 2008	Streamborn	<ul style="list-style-type: none"> <li>Wells MW1, MW2, MW3, MW4, MW5, and MW6 were redeveloped by surging with a surge block and pumping with a submersible pump.</li> <li>Streamborn repeatedly attempted to contact the property owner of 903 44<sup>th</sup> Street and obtain permission to access well MW7. The property owner did not respond to the inquiries and well MW7 could not be redeveloped.</li> </ul>
15 December 2008	Streamborn	<ul style="list-style-type: none"> <li>Water levels were measured in wells MW1, MW2, MW3, MW4, MW5, and MW6.</li> <li>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).</li> <li>Streamborn repeatedly attempted to contact the property owner of 903 44<sup>th</sup> Street and obtain permission to access well MW7. The property owner did not respond to the inquiries and well MW7 could not be monitored.</li> </ul>
14 April 2009	Streamborn	<ul style="list-style-type: none"> <li>Water levels were measured in wells MW1, MW2, MW3, MW4, MW5, and MW6.</li> <li>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).</li> <li>Streamborn repeatedly attempted to contact the property owner of 903 44<sup>th</sup> Street and obtain permission to access well MW7. The property owner did not respond to the inquiries and well MW7 could not be monitored.</li> </ul>

**Table 1 (Page 3 of 4)**  
**Environmental Chronology**  
**4401 Market Street, Oakland CA**

Date	Activities Performed By	Description
29 June 2009	Streamborn	<ul style="list-style-type: none"> <li>• Six borings (SG1 through SG6) were drilled to depths of approximately 6.5 feet at/near 4401 Market Street.</li> <li>• Soilgas implants were installed in each borehole at a depth of approximately 5.7 feet. Teflon tubing (3/16" ID, 1/4" OD) lead from the implant to the ground surface. The boreholes were backfilled with sand, dry bentonite, and hydrated bentonite and allowed to equilibrate for at least two hours prior to collecting soilgas samples.</li> <li>• A soilgas purge test was conducted in one of the boreholes (SG3) to determine the purge volume appropriate for sampling. The results of the purge test indicated that approximately two sandpack volumes (sandpack volume = volume of the voids in the interval of the sandpack) should be purged prior to sampling. This corresponded to a purge time of approximately 4.2 minutes at the purge flowrate = 0.167 liters/minute.</li> <li>• Soilgas samples were collected from each of the six implants. The samples were collected after purging two sandpack volumes. The samples were collected using 1-liter summa canisters at the sampling flowrate = 0.167 liters/minute. Air Toxics (Folsom CA) analyzed the soilgas samples for volatile organic compounds (EPA Method Modified TO-15).</li> <li>• During soilgas sampling, a shroud was placed on the ground surface over each borehole. A tracer gas (2-propanol or isopropyl alcohol also known as "rubbing alcohol") was introduced inside the shroud prior to and during purging and sampling. This activity was performed to determine whether soilgas samples contained atmospheric air (for example, due to short-circuiting or leakage along the outside of the implant tubing). Very low concentrations of the tracer gas were detected in each of the six soilgas samples; probably as a result of cross-contamination that occurred when the sample tubing was threaded through the shroud.</li> <li>• After each soilgas sample was collected; a vacuum leak check was performed on the sample train, including the implant tubing connection. The leak check consisted of applying a vacuum of approximately 27 inches Hg for a period of approximately five minutes. No leaks were detected.</li> <li>• The implant tubing was pulled and the borings were grouted. The asphalt concrete pavement was patched at the two sampling locations within the street.</li> </ul>



**Table 1 (Page 4 of 4)**  
**Environmental Chronology**  
**4401 Market Street, Oakland CA**

Date	Activities Performed By	Description
5 January 2012	Streamborn	<ul style="list-style-type: none"> <li>• An access agreement was executed with the property owner 903 44<sup>th</sup> Street.</li> <li>• Water levels were measured in wells MW1, MW2, MW3, MW4, MW5, MW6, and MW7.</li> <li>• The following activities were conducted to decommission/abandon wells MW2, MW4, MW5, and MW6 (these four wells were located in the street):            Using a Geoprobe direct-push track-mounted drill rig, the concrete skirt and wellhead vault were removed. A tremie pipe was used to place neat cement grout (94 pounds/one sack of Type I/II cement to ±6 gallons of water) to a depth of ±1-foot inside each well casing. Next, the grout was pressurized at 25 psi and held at that pressure for 5 minutes. The wells were then overdrilled to a depth of ±5 feet using an 8-inch outside diameter hollow-stem auger. The resulting borehole was backfilled to a depth of ±16 inches with concrete. The overdrilling cuttings (waste soil) were containerized in a labeled drum and stored onsite.             The pavement restoration of each wellhead was performed by sawcutting a ±20-inch-by-±20-inch square in the pavement and removing the asphalt concrete debris and underlying aggregate base (the existing asphalt concrete pavement was ±8 inches thick and the existing aggregate base was ±9 inches thick). Approximately 9 inches of new aggregate base were then placed and compacted using a jumping jack. A tack coat of asphalt was applied to the aggregate base and sawcut. Approximately 8 inches of hot-mix asphalt concrete were placed and compacted with a jumping jack and finished with a vibratory roller.</li> <li>• The following activities were conducted to decommission/abandon wells MW1, MW3, and MW7 (these three wells were located on private property):            A tremie pipe was used to place neat cement grout (94 pounds/one sack of Type I/II cement to ±6 gallons of water) to a depth of ±1-foot inside each well casing. According to the Alameda County Public Works Agency inspector (Victoria Hamlin), pressure grouting was not required; accordingly, pressure grouting was not performed. For wells MW1 and MW7, the wellhead vault was removed and the grout seal and casing were removed to a depth of ±6 inches. The resulting void was backfilled with concrete.             For well MW3, access prevented removal of the wellhead vault; accordingly, the casing and grout seal were removed to a depth of ±6 inches and the void was backfilled with concrete.</li> <li>• Vitoria Hamlin of the Alameda County Public Works Agency inspected the decommissioning/abandonment activities. A representative of the City of Oakland inspected traffic control and restoration work in the street.</li> <li>• A composite sample was collected from the single drum of waste soil. The sample was analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA 8260), TPH-diesel, and total lead.</li> <li>• Four drums of purge water had been historically generated and were stored onsite. A composite sample of wastewater was collected and analyzed for TPH-gasoline/BTEX/fuel oxygenates, volatile organic compounds (EPA 8260), and CAM 17 Metals.</li> </ul>
6 March 2012	North State Environmental	<ul style="list-style-type: none"> <li>• North State Environmental picked up and transported one drum of waste soil and four drums of wastewater to an appropriately-permitted facility for disposal.</li> </ul>

General Note

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

**Table 2 (Page 1 of 2)**  
**Bibliography**  
**4401 Market Street, Oakland CA**

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**Table 2 (Page 2 of 2)**  
**Bibliography**  
**4401 Market Street, Oakland CA**

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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			
GPS Coordinates	37.83395 -122.27322		37.83381 -122.27335		37.83393 -122.27322		37.83381 -122.27332		37.83380 -122.27342		37.83376 -122.27337		37.83360 -122.27343			
Measuring Point	<b>TOC N Side, Elev = 998.22</b>		<b>TOC N Side, Elev = 997.73</b>		<b>TOC N Side, Elev = 998.90</b>		<b>TOC N Side, Elev = 997.87</b>		<b>TOC N Side, Elev = 997.33</b>		<b>TOC N Side, Elev = 997.50</b>		<b>TOC N Side, Elev = 998.69</b>			
Intercepted Interval	Depth	Elev	Depth	Elev	Depth	Elev	Depth	Elev	Depth	Elev	Depth	Elev	Depth	Elev	Direction	Magnitude
	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		
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
14 April 2009	13.33	984.89	12.51	985.22	13.16	985.74	12.63	985.24	12.56	984.77	12.34	985.16	NM	NM	N 97° W	0.01
5 January 2012	24.6	984.72	12.38	985.35	13.50	985.40	12.85	985.02	12.65	984.68	12.60	984.90	14.20	984.49		
Total Depth (last measurement)	24.6		24.6		24.6		24.5		24.9		24.8		24.6		Ave = N 119° 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 sandpack interval.
- (e) Global Positioning System (GPS) coordinates were measured 5 January 2012 and correspond to the center of the top of the PVC casing. Measurements were made using a Garmin GPS II Plus handheld meter.

**Table 4**  
**Waste Soil Analytical Data**  
**4401 Market Street, Oakland CA**

Sample ID	Sample Description	Sample Date	Sample Type	Total Lead (mg/Kg)	TPH-Gasoline (mg/Kg)	TPH-Diesel (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Fuel Oxygenates (mg/Kg)
Abandon1	One drum of soil cuttings generated during well decommissioning/abandonment	5 Jan 2012	Composite (4 subsamples)	5.0	<250,000	40	<5,000	<5,000	<5,000	<10,000	<5,000 to <10,000

General Note

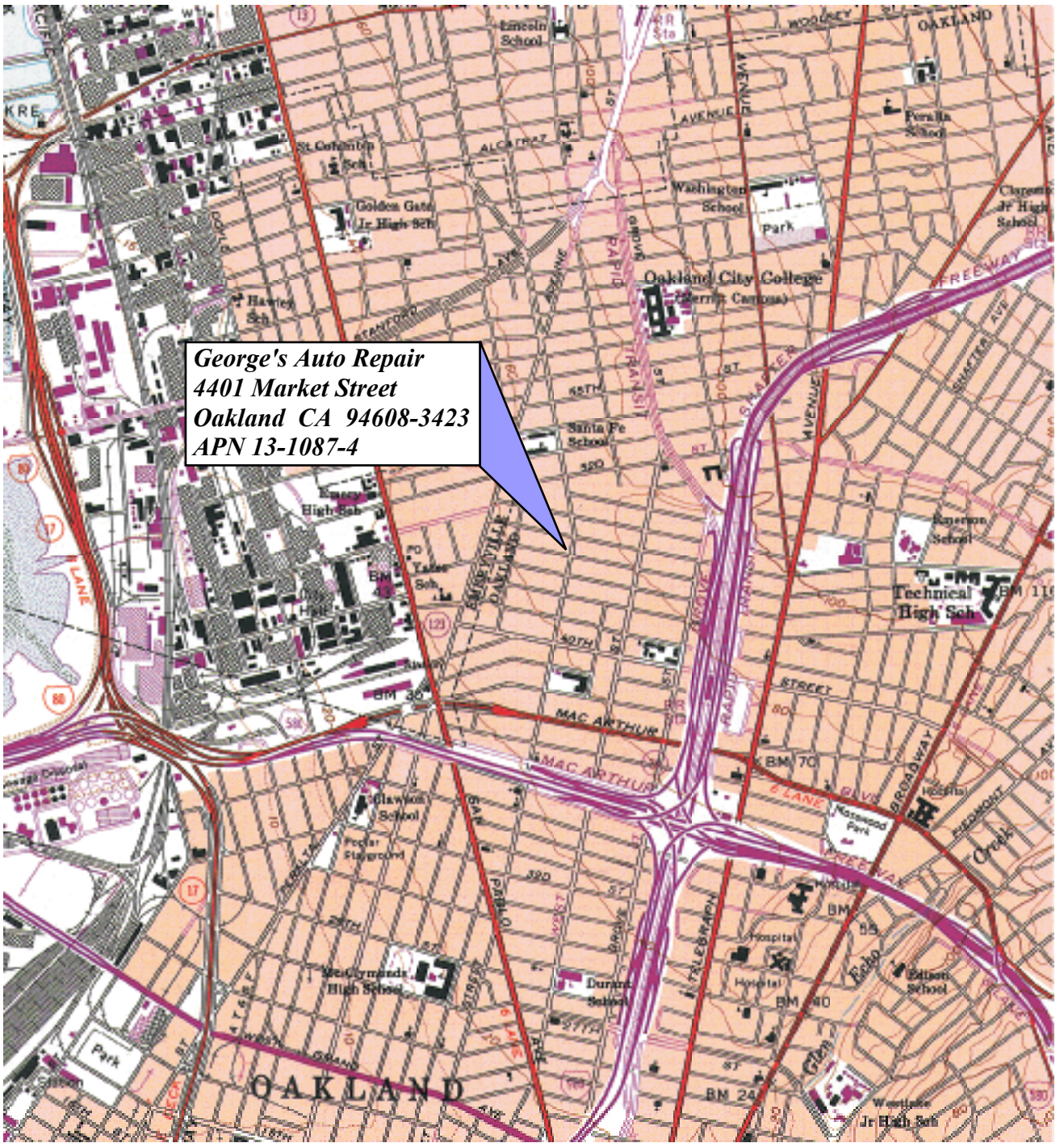
(a) TPH = total petroleum hydrocarbons.

**Table 5**  
**Wastewater Analytical Data**  
**4401 Market Street, Oakland CA**

Sample ID	Sample Description	Sample Date	Sample Type	Total CAM 17 Metals (µg/L)	TPH-Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Fuel Oxygenates (µg/L)
Wastewater	Four drums of purge water generated during historic well sampling events	5 Jan 2012	Composite (4 subsamples)	Barium =14 Zinc = 25 Others = <2.0 to <20	<50	<0.50	<0.50	<0.50	<1.0	<0.50 to <50

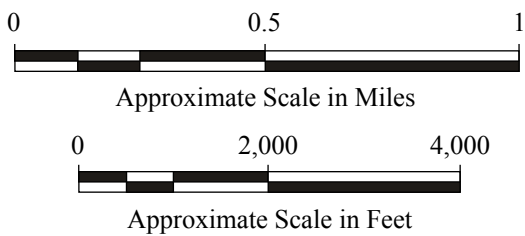
General Note

(a) TPH = total petroleum hydrocarbons.

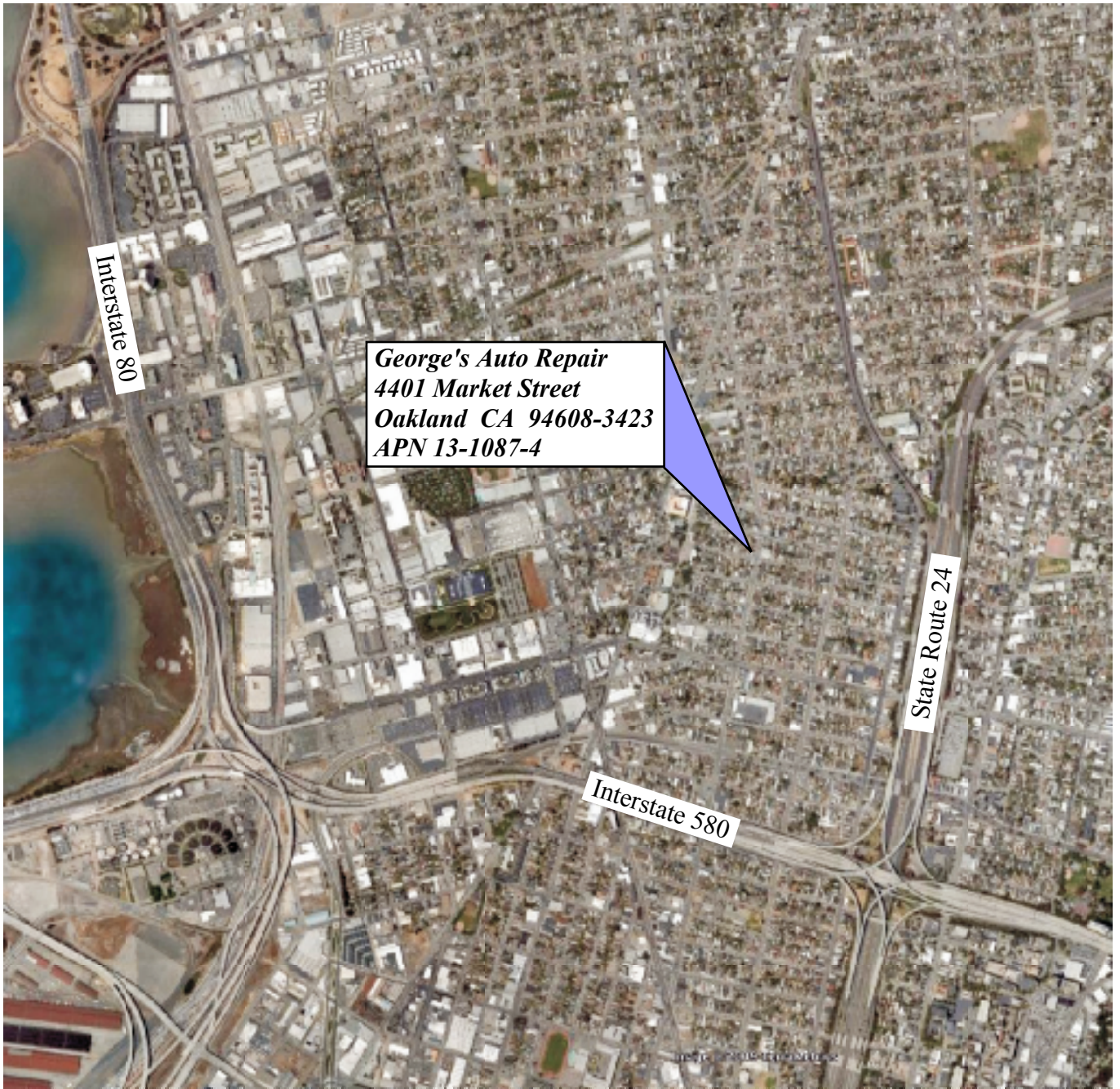


**George's Auto Repair**  
**4401 Market Street**  
**Oakland CA 94608-3423**  
**APN 13-1087-4**

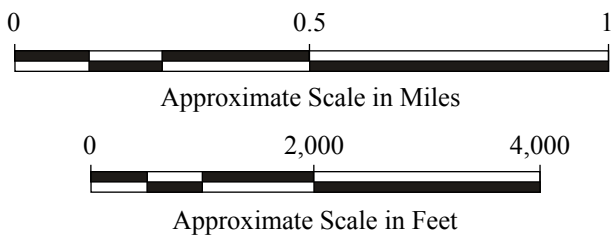
Basemap: U.S. Geological Survey, 7.5 Minute Quadrangle, Oakland West CA, 1959 (Photorevised 1980).



**Figure 1**  
**Location Map (USGS)**  
**4401 Market Street**  
**Oakland CA**



Basemap: Google Earth, downloaded Nov 2009. Imagery dated Jun 2007.



**Figure 2**  
**Location Map (Google Earth)**  
**4401 Market Street**  
**Oakland CA**

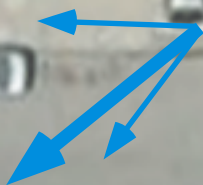




Approximate Scale in Feet

Basemap: Google Earth, downloaded Nov 2009. Google Earth imagery dated Jun 2007. Locations of former underground tanks and pump island from W.A. Craig report dated 1994.

Large arrow represents the average measured groundwater gradient: Direction = N 119° W. Magnitude = 0.01. Small arrows represent the range in the measured direction of groundwater gradient.



44th Street

George's Auto Repair  
4401 Market Street  
Oakland CA 94608-3423  
APN 13-1087-4

Former pump island

MW1

MW3

MW2

MW4

MW5

MW6

903 44th Street  
(residential)

MW7

Market Street

© 2009 Google  
© 2009 Europa Technologies

lat 37.833785° lon -122.273329° elev

Legend



Former monitoring well



Former underground tank



Approximate limits of soil excavation during tank removal

Figure 3

Site Map

4401 Market Street  
Oakland CA



5 January 2012. View of wells MW2 and MW4 before decommissioning/abandonment.



5 January 2012. View of wells MW2 and MW4 after grouting and overdrilling to a depth of 5 feet.



5 January 2012. View of wells MW2 and MW4 after decommissioning/ abandonment and subsequent pavement repair.

Photos 1

4401 Market Street  
Oakland CA



5 January 2012. View of wells MW5 and MW6 before decommissioning/abandonment.



5 January 2012. View of wells MW5 and MW6 after decommissioning/ abandonment and subsequent pavement repair.

Photos 2

4401 Market Street  
Oakland CA



5 January 2012. View of well MW1 after decommissioning/abandonment and subsequent pavement repair. The well-head vault was removed.



5 January 2012. View of well MW3 after decommissioning/abandonment and subsequent pavement repair. The well-head vault was not removed.



5 January 2012. View of well MW7 after decommissioning/abandonment and subsequent pavement repair. The well casing was cut off  $\pm 1$ -foot below top of pavement, the wellhead vault was removed, the concrete pavement was sawcut, and concrete was placed.

**Photos 3**

**4401 Market Street  
Oakland CA**

# **ATTACHMENT 1**

Alameda County Permit to  
Decommission/Abandon the Wells

# Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street  
Hayward, CA 94544-1395  
Telephone: (510)670-6633 Fax:(510)782-1939

**Application Approved on: 12/16/2011 By jamesy**

**Permit Numbers: W2011-0767 to W2011-0773  
Permits Valid from 01/05/2012 to 01/05/2012**

**Application Id:** 1323988689040  
**Site Location:** 4401 Market St, Oakland, CA  
**Project Start Date:** 12/27/2011  
**Assigned Inspector:** Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org  
**Extension Start Date:** 01/05/2012  
**Extension Count:** 1

**City of Project Site:** Oakland

**Completion Date:** 12/27/2011  
**Extension End Date:** 01/05/2012  
**Extended By:** vickyh1

**Applicant:** Streamborn - Kevin Wildenberg  
PO Box 8330, Berkeley, CA 94707  
**Property Owner:** Casimiro Damele  
3750 Victor Ave, Oakland, CA 94619  
**Client:** \*\* same as Property Owner \*\*

**Phone:** 510-528-4234

**Phone:** 510-531-0778

<b>Receipt Number: WR2011-0376</b>	<b>Total Due:</b> \$2779.00	
<b>Payer Name : Streamborn</b>	<b>Total Amount Paid:</b> \$2779.00	
	<b>Paid By:</b> CHECK	<b>PAID IN FULL</b>

**Works Requesting Permits:**

Well Destruction-Monitoring - 7 Wells

Driller: Cascade - Lic #: 938110 - Method: Scord

**Work Total: \$2779.00**

**Specifications**

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2011-0767	12/16/2011	03/26/2012	MW1	8.00 in.	2.00 in.	17.00 ft	24.60 ft	No Records	94569	No Records
W2011-0768	12/16/2011	03/26/2012	MW2	8.00 in.	2.00 in.	17.00 ft	24.60 ft	No Records	94569	No Records
W2011-0769	12/16/2011	03/26/2012	MW3	8.00 in.	2.00 in.	17.00 ft	24.60 ft	No Records	94569	No Records
W2011-0770	12/16/2011	03/26/2012	MW4	8.00 in.	2.00 in.	8.00 ft	24.50 ft	No Records	W00-667	No Records
W2011-0771	12/16/2011	03/26/2012	MW5	8.00 in.	2.00 in.	8.00 ft	24.90 ft	No Records	W00-673	No Records
W2011-0772	12/16/2011	03/26/2012	MW6	8.00 in.	2.00 in.	8.00 ft	24.80 ft	No Records	W00-677	No Records
W2011-0773	12/16/2011	03/26/2012	MW7	8.00 in.	2.00 in.	8.00 ft	24.60 ft	No Records	W00675	No Records

**Specific Work Permit Conditions**

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the

## Alameda County Public Works Agency - Water Resources Well Permit

permits and requirements have been approved or obtained.

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.
  4. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
  5. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.
  6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
  7. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
  8. Remove the Christy box or similar structure. Destroy wells MW-2, MW-4, MW-5 and MW-6 by overdrilling upper 5 ft. bgs & Tremie Grouting with Cement. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.
  9. Remove the Christy box or similar structure. Destroy wells MW-1, MW-3 and MW-7 by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.
  10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
-

## **ATTACHMENT 2**

City of Oakland Excavation Permit





Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

Permit No. X1101424 Parcel #: 013 -1087-004-00  
Project Address: 4401 MARKET ST

Page 2 of 2

Licensed Contractors' Declaration

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Construction Lending Agency Declaration

I hereby affirm under penalty of perjury that there is a construction-lending agency for the performance of the work for which this permit is issued, as provided by Section 3097 of the Business and Professions Code. N/A under Lender implies No Lending Agency.

Lender \_\_\_\_\_ Address \_\_\_\_\_

Workers' Compensation Declaration

I hereby affirm under penalty of perjury one of the following declarations:

[ ] I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

[ ] I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

CARRIER: \_\_\_\_\_ POLICY NO. \_\_\_\_\_

[ ] I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS, IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3707 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

Hazardous Materials Declaration

I hereby affirm that the intended occupancy [ ] WILL [ ] WILL NOT use, handle or store any hazardous, or acutely hazardous, materials. (Checking "WILL" acknowledges that Sections 25505, 25533, & 25534 of the Health & Safety Code, as well as filing instructions, were made available to you.)

I HEREBY CERTIFY THE FOLLOWING: That I have read this document; that the above information is correct; and that I have truthfully affirmed all applicable declarations contained in this document. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection. I am fully authorized by the owner and to perform the work authorized by this permit.

ADDRESS:  
DIST:

\_\_\_\_\_  
PRINT NAME Signature [ ] Contractor, or [ ] Agent Date

CITY OF OAKLAND  
Community & Economic Development Agency  
250 Frank H. Ogawa Pl, Oakland CA, 94612  
Phone: (510)238-4774 FAX: (510)238-2263

PAYMENT RECEIPT

=====  
Application#: X1101424 Payment#: 001  
APPLICATION FEE \$71.00  
EXCAVATION PERMIT \$309.00  
RECORDS MANAGEMENT FEE \$36.10  
TECHNOLOGY ENHANCEMENT FE \$19.95  
Subtotal: \$436.05  
=====

Sales Tax: \$.00  
\*\*\*\*\* TOTAL PAID: \$436.05  
=====

Check Payment: \$436.05  
=====

Payor: STREAMBORN 10468  
Date: 12/16/11 Time: 10:34:43  
By: MKH Register R02 Receipt# 156301  
\*\*\*\*\*  
ORIGINAL RECEIPT REQUIRED FOR REFUND  
\*\*\*\*\*

**ATTACHMENT 3**

City of Oakland Obstruction Permit



CITY OF OAKLAND  
Community & Economic Development Agency  
250 Frank H. Ogawa Pl, Oakland CA, 94612  
Phone: (510)238-4774 FAX: (510)238-2263

PAYMENT RECEIPT

=====  
Application#: OB110920 Payment#: 001  
APPLICATION FEE \$71.00  
OBSTRUCTION PERMIT \$34.50  
RECORDS MANAGEMENT FEE ( \$10.02  
TECHNOLOGY ENHANCEMENT FE \$5.54  
Subtotal: \$121.06  
=====

Sales Tax: \$.00  
\*\*\*\*\* TOTAL PAID: \$121.06  
=====

Check Payment: \$121.06  
=====

Payor: STREAMBORN 10469  
Date: 12/16/11 Time: 10:33:37  
By: MKH Register R02 Receipt# 156300

\*\*\*\*\*  
ORIGINAL RECEIPT REQUIRED FOR REFUND  
\*\*\*\*\*

# **ATTACHMENT 4**

Access Agreement for 904 44<sup>th</sup> Street

Site Access Agreement  
904 44<sup>th</sup> Street  
Oakland CA

This Agreement, dated 8 September is made between Casamiro Damele (Investigator) and Rose M. Looney (Property Owner) for work at 903 44<sup>th</sup> Street, Oakland CA (Property).

1. Grant of License

Subject to the terms and conditions of this Agreement, the Property Owner hereby grants Investigator (and its authorized contractors, including any subcontractors) a license to enter the Property for the limited purpose of implementing the investigative activities that have been reviewed and approved by Alameda County Environmental Health Department (Regulatory Agency).

The anticipated activities consist of the following:

- Abandon/decommission well MW7.
- Restore the ground surface surrounding MW7.

2. Valid Title

Property Owner warrants and represents to Investigator that to the best of Property Owner's knowledge it has valid title to the Property and the right to grant access to Investigator.

3. Conditions on Use

Prior to entry onto the Property, Investigator shall provide 48 hours' notice to the Property Owner or designee of the Property Owner.

Prior to conducting subsurface work, Investigator shall make reasonable efforts to identify subsurface utilities in the vicinity of planned work. Where subsurface utilities are identified and interfere with planned work, Investigator shall adjust planned work to locations clear of known subsurface utilities.

Investigator shall ensure that none of its activities on the Property unreasonably interferes with or delays any other activities that are in progress on the Property.

4. Oversight by Property Owner

Property Owner shall have the right, if it so chooses, to oversee the activities, including collection and testing of split samples.



5. Access to Information

Investigator shall make available and provide, when requested, copies of information gathered from the Property. The Investigator will transmit the information to the Regulatory Agency, with copies to Property Owner.

6. Term

The term of this Agreement shall commence on the date of execution of this Agreement and shall continue thereafter until Investigator has completed aforementioned activities or until 31 December 2011, whichever is sooner; provided, however, that with mutual consent of both parties the term may be extended as necessary to accommodate delays or additional work.

7. Insurance

During the term of this Agreement, Investigator shall maintain and shall require its contractors and consultants responsible for the work under the Agreement to maintain, in full force and effect a workers compensation policy in statutory limits and a commercial general liability policy of insurance. The general liability policy shall include bodily injury and property damage coverage, with limits of not less than \$1,000,000 arising from or in connection with any action allowed under this Site Access Agreement. The general liability policy shall name Property Owner as an additional insured. Investigator shall require its contractors and consultants to provide Property Owner with certificates of insurance prior to entering the Property.

8. Permittee and Generator

Investigator shall be considered permittee for the purposes of the planned activities. Investigator shall procure all necessary permits.

Investigator shall be considered the generator with respect to wastes produced during the sampling. Investigator shall collect and dispose of the wastes in a lawful manner.

9. Property Restoration

Upon completion of the work, Investigator restore the Property to a condition reasonably similar to that which existed prior to the work. In landscaped areas, vegetation shall be re-planted. In paved areas, the pavement shall be patched.

10. Cost

Investigator shall pay for the costs associated with the activities.

11. Agreement Not Admission

By entering into this Agreement, neither Property Owner nor Investigator is admitting any responsibility for any contamination at the Property. This Agreement shall not be construed or

interpreted as an admission or concession of liability or waiver of rights on the part of either Property Owner or Investigator.

Investigator

Property Owner

Casamiro Damele  
3750 Victor Avenue  
Oakland CA 94619

Rose M. Looney  
903 44<sup>th</sup> Street  
Oakland CA 94608-3403

Signature Casimiro Damele

Signature Rose Looney

Date 11-6-11

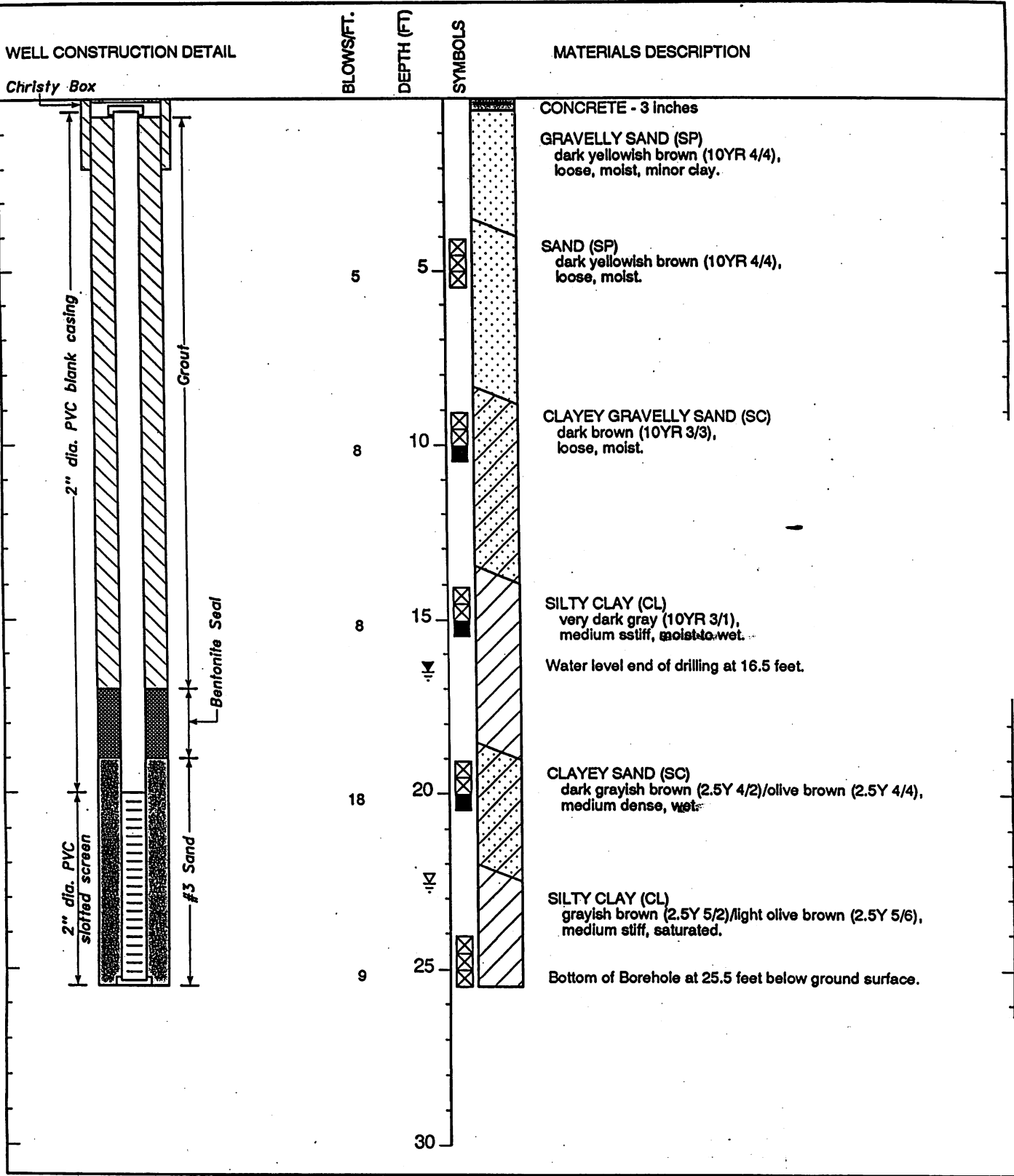
Date 10/1/11

510-531-0778

(510) 703-6735

# **ATTACHMENT 5**

Boring Logs and Well Completion Schematics



DRILL RIG	8" Hollow Stem Auger	DIAMETER OF HOLE	8 inches
DATE STARTED	10/27/94	TOTAL DEPTH OF HOLE	25.5 feet
DATE COMPLETED	10/27/94	TOP OF CASING ELEVATION	71.12 feet MSL

**W. A. CRAIG, INC.**  
INDUSTRIAL AND ENVIRONMENTAL CONTRACTOR

**Log of Boring MW-1 and  
Well Completion Detail**  
4401 Market Street  
Oakland, California

PLATE

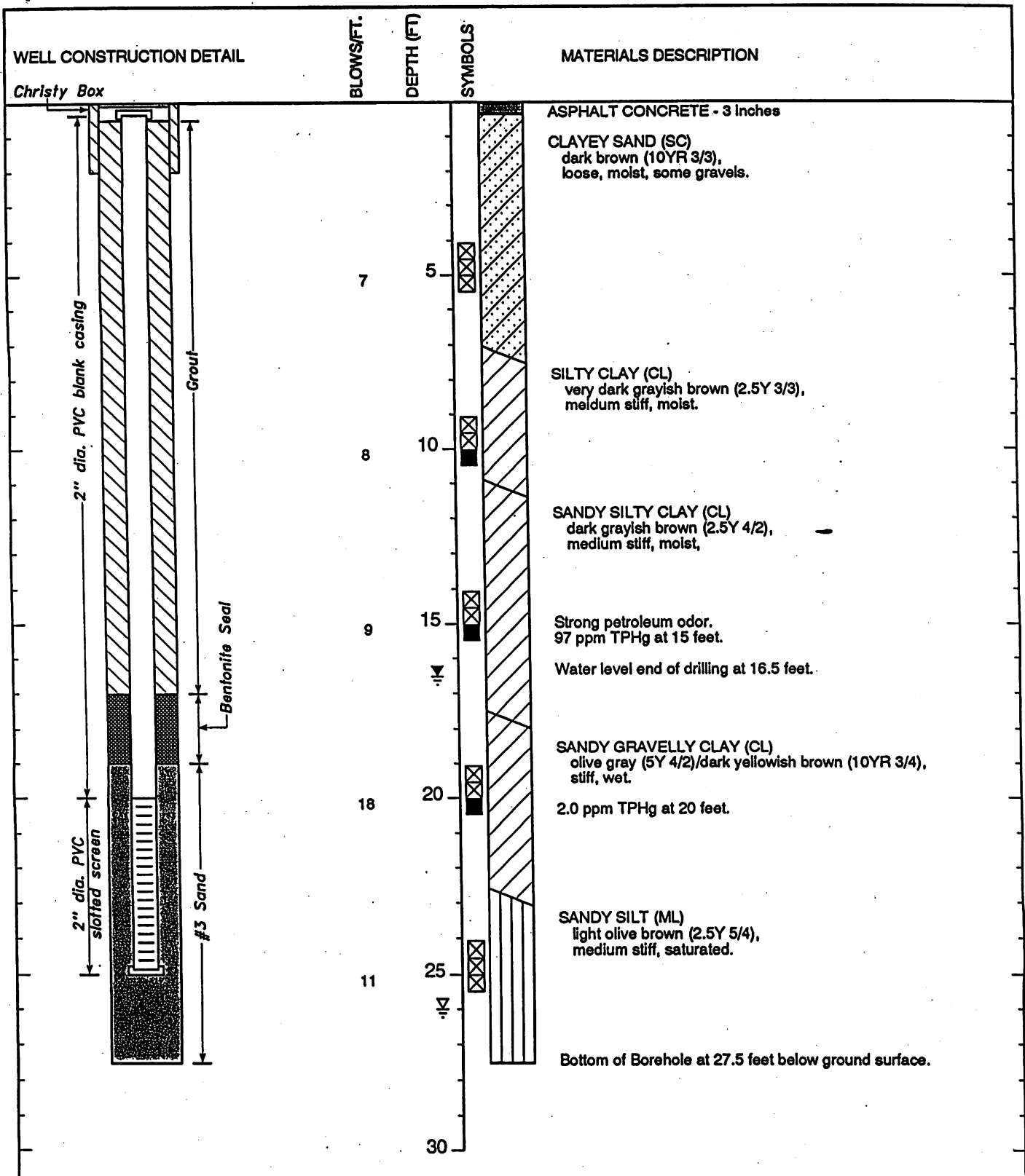
**4E**

JOB NUMBER  
3365

REVIEWED BY  
*[Signature]*

DATE  
1/95

REVISED DATE



DRILL RIG	8" Hollow Stem Auger	DIAMETER OF HOLE	8 inches
DATE STARTED	10/28/94	TOTAL DEPTH OF HOLE	27.5 feet
DATE COMPLETED	10/28/94	TOP OF CASING ELEVATION	70.62 feet MSL

**W. A. CRAIG, INC.**  
INDUSTRIAL AND ENVIRONMENTAL CONTRACTOR

Log of Boring MW-2 and  
Well Completion Detail  
4401 Market Street  
Oakland, California

PLATE

**4F**

WELL CONSTRUCTION DETAIL

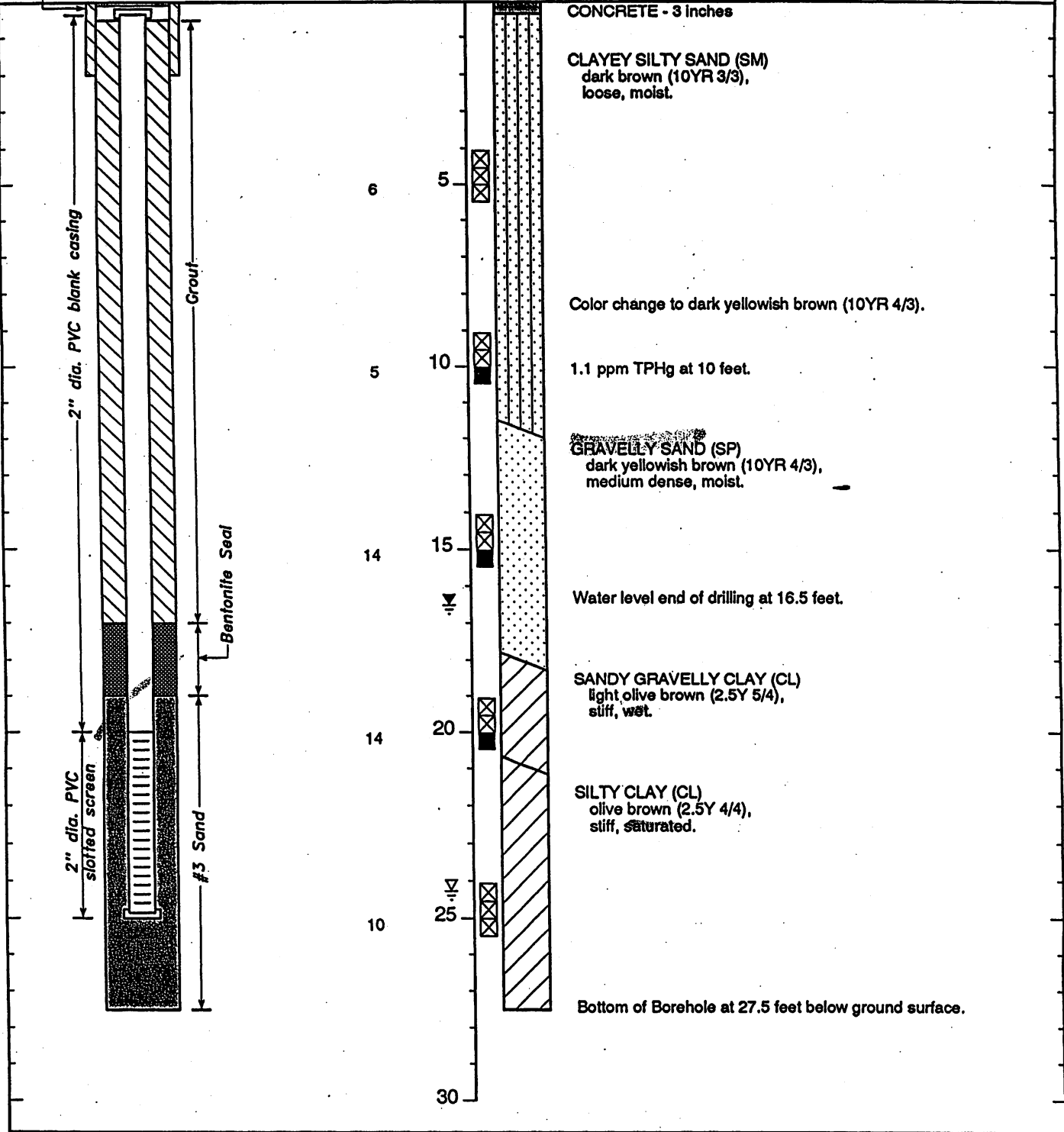
BLOWS/FT.

DEPTH (FT)

SYMBOLS

MATERIALS DESCRIPTION

Christy Box



DRILL RIG 8" Hollow Stem Auger  
 DATE STARTED 10/28/94  
 DATE COMPLETED 10/28/94

DIAMETER OF HOLE 8 inches  
 TOTAL DEPTH OF HOLE 27.5 feet  
 TOP OF CASING ELEVATION 71.79 feet MSL

W. A. CRAIG, INC.  
 INDUSTRIAL AND ENVIRONMENTAL CONTRACTOR

Log of Boring MW-3 and  
 Well Completion Detail  
 4401 Market Street  
 Oakland, California

PLATE

4G

JOB NUMBER  
 3365

REVIEWED BY

DATE  
 1/95

REVISED DATE

# BORING LOG LEGEND AND NOTES

## Soil Classification

Soils were classified in the field in approximate accordance with ASTM D 2488-00 (Standard Practice for Description and Identification of Soils, Visual-Manual Procedure). Consistency (density for coarse-grained soils and stiffness for fine-grained soils) described in approximate accordance with NAVFAC DM-7.1.

Textural classifications represent the opinion of the field geologist, field engineer, or field scientist regarding the nature and character of encountered materials. Proportions of textural categories (gravel, sand, silt, clay) cited on the logs should be considered approximate. Laboratory classification tests were not performed to verify the field classifications. In general, mixtures of soil types and gradual transitions between soil types may more accurately represent the subsurface materials, instead of the distinct divisions depicted on the logs. Soils were necessarily classified only at depths where samples were examined; extrapolation to other depths, as depicted on the logs, adds uncertainty.

## Textural Classification



Fat clay, fat clay with gravel, lean clay (CH or CL)



Poorly graded sand with clay and gravel (SP)



Silty sand (SM)



Sandy silt (ML)



Poorly graded sand with silt (SM)



Clayey sand (SC)

## Transitions or Contact Between Soil Types

— — — Approximate location of inferred or observed gradational transition or distinct contact between soil types

## Sampling




Sampling Interval (collected or attempted)

## General Notes and References

- (a) OVM (ppm v/v) = Measurement by field organic vapor monitor in ppm volume/volume. Measurements performed using Thermo Environmental Instruments Model 580B OVM, 10.0 eV photoionization detector, calibrated to 100 ppm v/v isobutylene. Measurements performed by screening the ends of the freshly cut liners. Value cited on log represents the maximum reading obtained at either end of liner.
- (b) Depths measured from the adjacent pavement or ground surface.
- (c) 2001 Annual Book of ASTM Standards, Volume 04.08, Soil and Rock (1): D 420 - D 4914. American Society of Testing and Materials, Philadelphia PA. 2001.
- (d) NAVFAC DM - 7.1, Soil Mechanics, Design Manual 7.1. Department of the Navy, Naval Facilities Engineering Command, Alexandria VA. May 1982.

## Boring No. MW4 (page 1 of 2)

<p><b>Project</b> 4401 Market Street, Oakland CA</p> <p><b>Location</b> North side of 44th Street, west of Market Street</p> <p><b>Elevation</b> Top of casing, North side = 997.87 feet (site-specific datum) Ground surface = 998.18 feet (site-specific datum)</p> <p><b>Drill Method</b> ±4.25-inch ID by ±8-inch OD hollow-stem auger</p> <p><b>Drill Rig</b> B-61, Rig #D9</p> <p><b>Completion</b> 2-inch PVC well with traffic rated vault</p> <p><b>Sampling</b> ±2-inch ID by ±2.5-inch OD driven split spoon fitted with ±2-inch diameter by ±6-inch long brass liners. Samples collected by driving spoon ahead of auger bit.</p>	<p><b>Address</b> 4401 Market Street, Oakland CA</p> <p><b>Logged By</b> Matthew B. Hall STREAMBORN (Berkeley CA)</p> <p><b>Project No.</b> P257</p> <p><b>Start</b> 10:30 am, 5 January 2001 <b>Finish</b> 12:30 am, 5 January 2001</p> <p><b>Driller</b> Gregg Drilling and Testing/Tony</p> <p><b>Drilled Depth</b> ±25-feet</p> <p><b>Groundwater</b> ±13-feet (during drilling)</p> <p><b>Groundwater</b> ±13.2-feet (1 February 2001) (stabilized)</p>
---	--

Depth (feet)	Graphic Log	USCS	Sample Interval	Blows per 6 inches	Recovery (inches)	Soil Description, Observations, Comments	OVM (ppm v/v)
0.0						Asphalt overlying aggregate base. No staining, no odor.	
1.0							
2.0							
3.0							
4.0							
5.0		CH	5.0 - 5.5	2		Fat clay (CH). Dark brown, moist, moderate to high plasticity, stiff. No staining, no odor.	
6.0			5.5 - 6.0	3	18		
6.5			6.0 - 6.5	3			
7.0							
8.0							
9.0							
10.0							

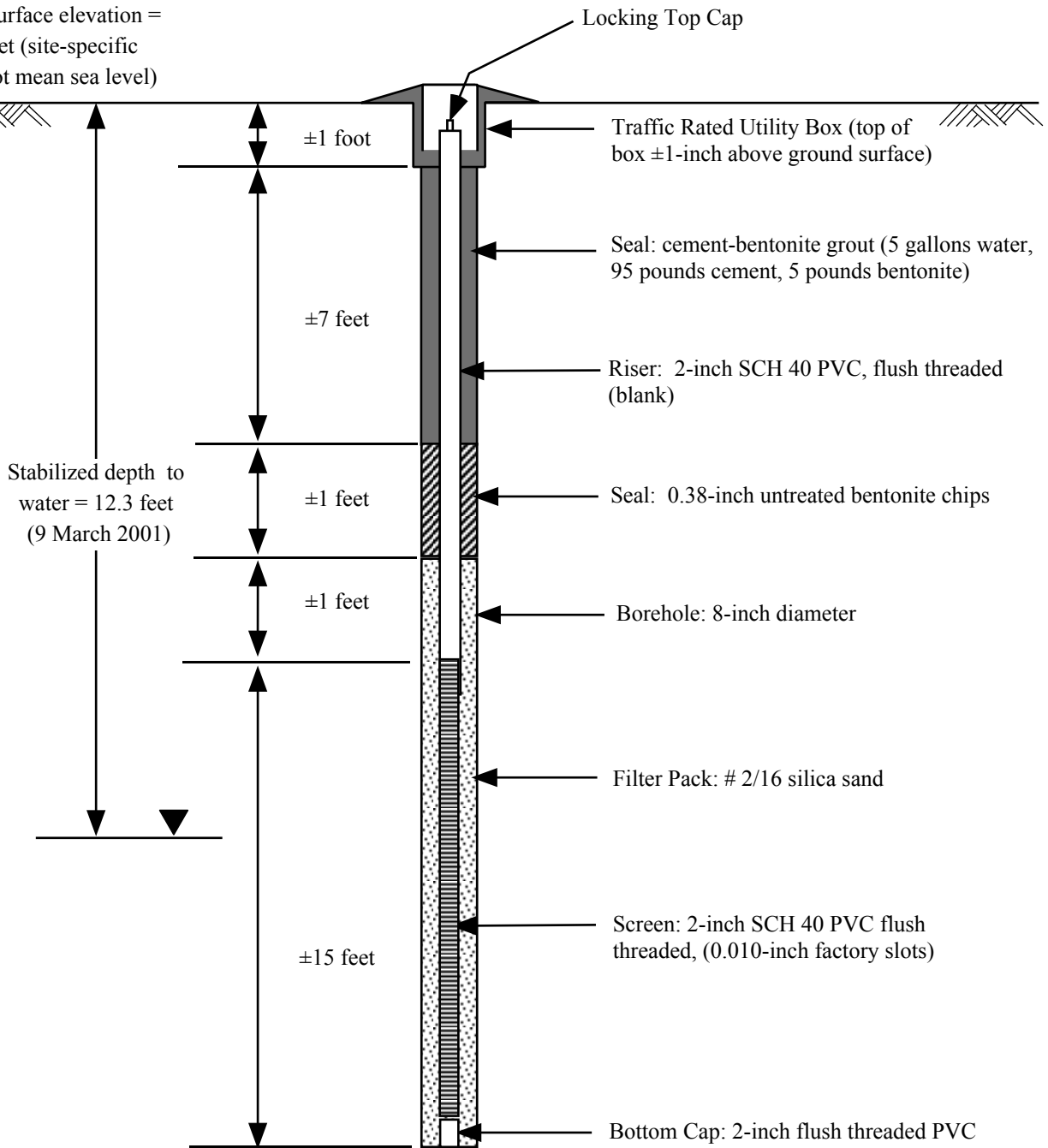


## Boring No. MW4 (page 2 of 2)

Depth (feet)	Graphic Log	USCS	Sample Interval	Blows per 6 inches	Recovery (inches)	Soil Description, Observations, Comments	OVM (ppm v/v)			
10.0										
11.0										
12.0										
13.0					7	18	Same as above except very stiff. No staining, petroleum odor.			
					11					
					16					
14.0			CH		7	18	Same as above except very stiff to hard. No staining, petroleum odor.			
									13	
									17	
15.0					6	18	Same as above except very stiff. No staining, petroleum odor found only in top 1-foot of sample.			
					7					
					9					
16.0										
17.0										
18.0										
19.0					11	18	Poorly graded sand with clay and gravel (SP). Greyish brown, wet, fine to coarse sand, subrounded sand, <15% gravel, <15% fat clay, very dense. No staining, no odor.			
										23
										25
20.0										
21.0										
22.0		SP								
23.0										
24.0				5	18	Same as above except medium dense. No staining, no odor.				
				6						
				12						
25.0						Total drilled depth = 25 feet. Boring completed as well. See completion diagram.				

Measuring point = top of PVC casing, north side. Elevation = 997.87 feet (site-specific datum, not mean sea level)

Ground surface elevation = 998.18 feet (site-specific datum, not mean sea level)



*Not to Scale*

**Completion Schematic for MW4**

**4401 Market Street  
Oakland CA**

## Boring No. MW5 (page 1 of 2)

Project 4401 Market Street, Oakland CA	Address 4401 Market Street, Oakland CA
Location South side of 44th Street, west of Market Street	Logged By Matthew B. Hall STREAMBORN (Berkeley CA)
Elevation Top of casing, North side = 997.33 feet (site-specific datum) Ground surface = 997.78 feet (site-specific datum)	Project No. P257
Drill Method ±4.25-inch ID by ±8-inch OD hollow-stem auger	Start 11:09 am, 4 January 2001 Finish 1:30 pm, 4 January 2001
Drill Rig D-14, "Rhino"	Driller Gregg Drilling and Testing/Bob
Completion 2-inch PVC well with traffic rated vault	
Sampling ±1.5-inch ID by ±2-inch OD driven split spoon fitted with ±1.5-inch diameter by ±6-inch long brass liners. Samples collected by driving spoon ahead of auger bit.	Drilled Depth ±25-feet Groundwater ±13-feet (during drilling) Groundwater ±13.1-feet (1 February 2001) (stabilized)

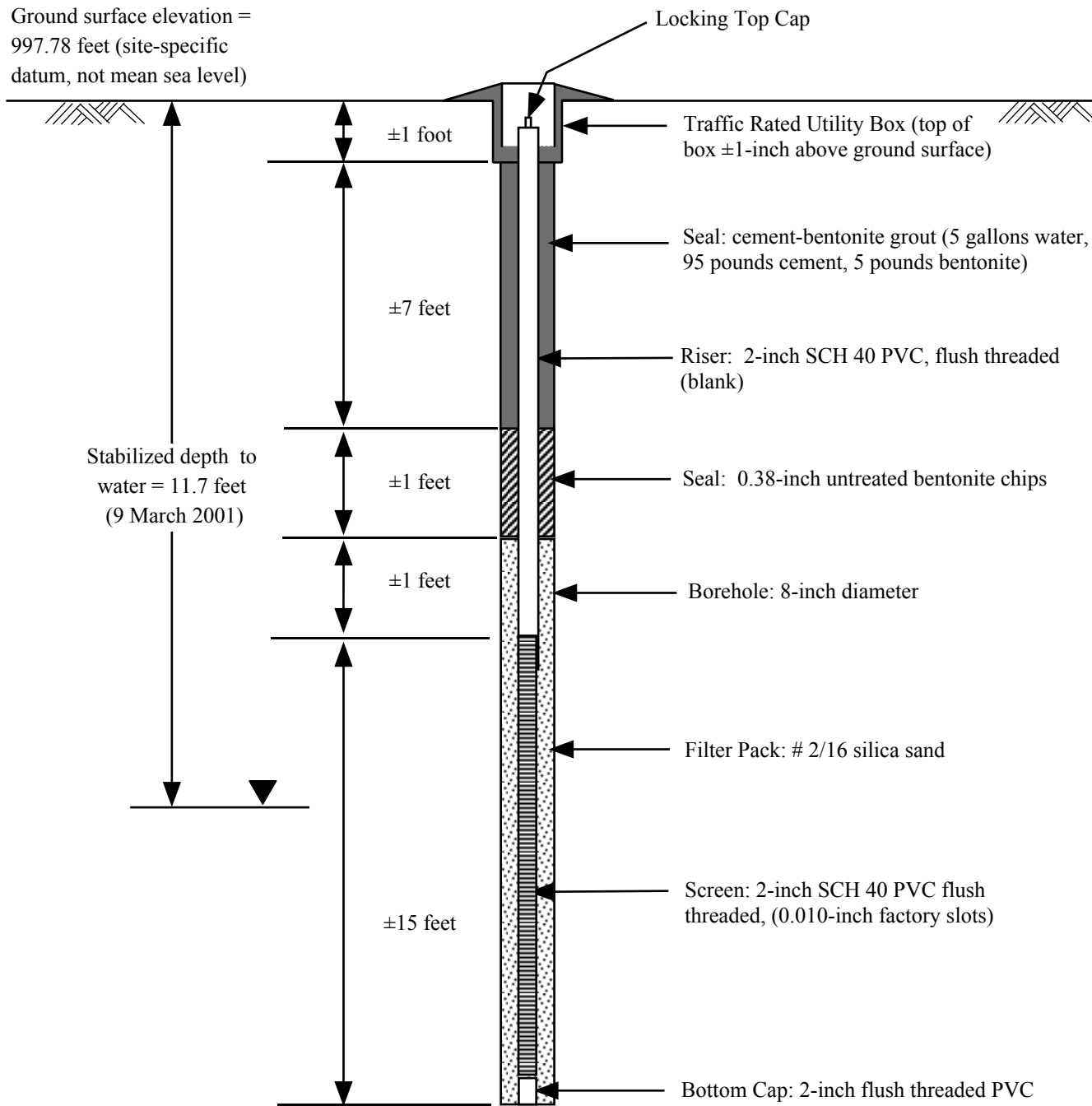
Depth (feet)	Graphic Log	USCS	Sample Interval	Blows per 6 inches	Recovery (inches)	Soil Description, Observations, Comments	OVM (ppm v/v)
0.0						Asphalt overlying aggregate base. No staining, no odor.	
1.0							
2.0							
3.0							
4.0							
5.0		CH		18		Fat clay (CH). Dark brown, moist, moderate to high plasticity, stiff. No staining, no odor.	
6.0							
7.0							
8.0							
9.0							
10.0							

## Boring No. MW5 (page 2 of 2)

Depth (feet)	Graphic Log	USCS	Sample Interval	Blows per 6 inches	Recovery (inches)	Soil Description, Observations, Comments	OVM (ppm v/v)
10.0	[Diagonal hatching pattern]	CH	[X]				
11.0							
12.0	[Diagonal hatching pattern]	CH	[X]		18	Same as above. No staining, petroleum odor.	
13.0							
14.0	[Diagonal hatching pattern]	CH	[X]		18	Fat clay with gravel (CH). Dark greyish brown, wet, high plasticity, <10% subangular gravel. No staining, petroleum odor.	
15.0							
15.0	[Vertical line pattern]	ML	[X]		24	Sandy silt (ML). Dark brown, wet, moderate plasticity, <10% fine sand. No staining, petroleum odor found only in top 1.5-feet of sample.	
16.0							
17.0	[Vertical line pattern]	ML	[X]				
18.0							
19.0	[Vertical line pattern]	ML	[X]				
20.0							
20.0	[Diagonal hatching pattern]	SP	[X]		18	Poorly graded sand with clay and gravel (SP). Greyish brown, wet, fine to coarse sand, subrounded sand, <15% gravel, <25% fines. No staining, no odor.	
21.0							
22.0	[Diagonal hatching pattern]	SP	[X]				
23.0							
24.0	[Diagonal hatching pattern]	SP	[X]		18	Same as above. No staining, no odor.	
25.0							
25.0						Total drilled depth = 25 feet. Boring completed as well. See completion diagram.	

Measuring point = top of PVC casing, north side. Elevation = 997.33 feet (site-specific datum, not mean sea level)

Ground surface elevation = 997.78 feet (site-specific datum, not mean sea level)





*Not to Scale*

**Completion Schematic for MW5**

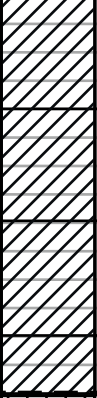
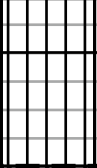
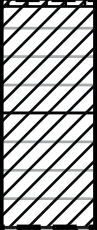
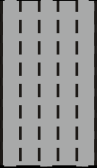
**4401 Market Street  
Oakland CA**

## Boring No. MW6 (page 1 of 2)

Project 4401 Market Street, Oakland CA	Address 4401 Market Street, Oakland CA
Location South side of 44th Street, west of Market Street	Logged By Matthew B. Hall STREAMBORN (Berkeley CA)
Elevation Top of casing, North side = 997.50 feet (site-specific datum) Ground surface = 998.02 feet (site-specific datum)	Project No. P257
Drill Method ±4.25-inch ID by ±8-inch OD hollow-stem auger	Start 8:50 am, 4 January 2001 Finish 10:45 am, 4 January 2001
Drill Rig D-14, "Rhino"	Driller Gregg Drilling and Testing/Bob
Completion 2-inch PVC well with traffic rated vault	Drilled Depth ±25-feet
Sampling ±1.5-inch ID by ±2-inch OD driven split spoon fitted with ±1.5-inch diameter by ±6-inch long brass liners. Samples collected by driving spoon ahead of auger bit.	Groundwater ±13-feet (during drilling) Groundwater ±13.3-feet (1 February 2001) (stabilized)

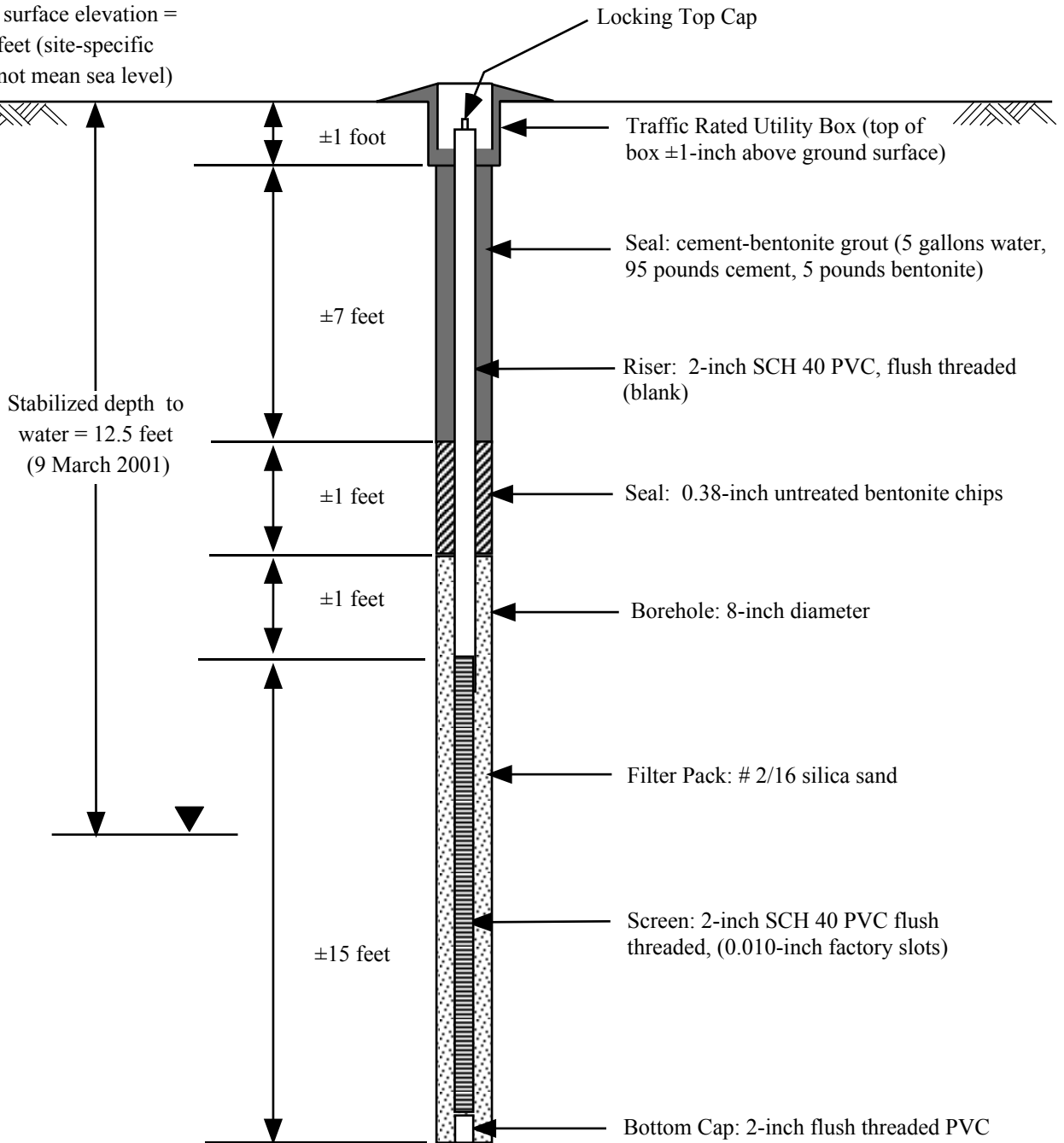
Depth (feet)	Graphic Log	USCS	Sample Interval	Blows per 6 inches	Recovery (inches)	Soil Description, Observations, Comments	OVM (ppm v/v)
0.0						Asphalt overlying aggregate base. No staining, no odor.	
1.0							
2.0							
3.0							
4.0							
5.0		CH			18	Fat clay (CH). Dark greyish brown, moist, moderate to high plasticity, stiff. No staining, no odor.	
6.0							
7.0							
8.0							
9.0							
10.0							

## Boring No. MW6 (page 2 of 2)

Depth (feet)	Graphic Log	USCS	Sample Interval	Blows per 6 inches	Recovery (inches)	Soil Description, Observations, Comments	OVM (ppm v/v)
10.0		CH	X				
11.0							
12.0							
13.0					18	Fat clay (CH). Grey, moist, moderate to high plasticity, low dilatancy, stiff. No staining, petroleum odor.	
14.0		ML	X				
15.0							
16.0					24	Lean clay (CL). Grey, moist to wet, low to moderate plasticity, <10% fine sand. No staining, no odor.	
17.0		SM	X				
18.0							
19.0					18	Sandy silt (ML). Grey to brown, wet, low plasticity, <30% fine sand. No staining, no odor.	
20.0						Same as above. No staining, no odor.	
21.0		SP	X				
22.0							
23.0					18	Poorly graded sand with clay and gravel (SP). Greyish brown, wet, fine to coarse sand, subrounded sand, <15% gravel, <25% fines. No staining, no odor.	
24.0					18	Same as above. No staining, no odor.	
25.0						Total drilled depth = 25 feet. Boring completed as well. See completion diagram.	

Measuring point = top of PVC casing, north side. Elevation = 997.50 feet (site-specific datum, not mean sea level)

Ground surface elevation = 998.02 feet (site-specific datum, not mean sea level)



*Not to Scale*

**Completion Schematic for MW6**

**4401 Market Street  
Oakland CA**



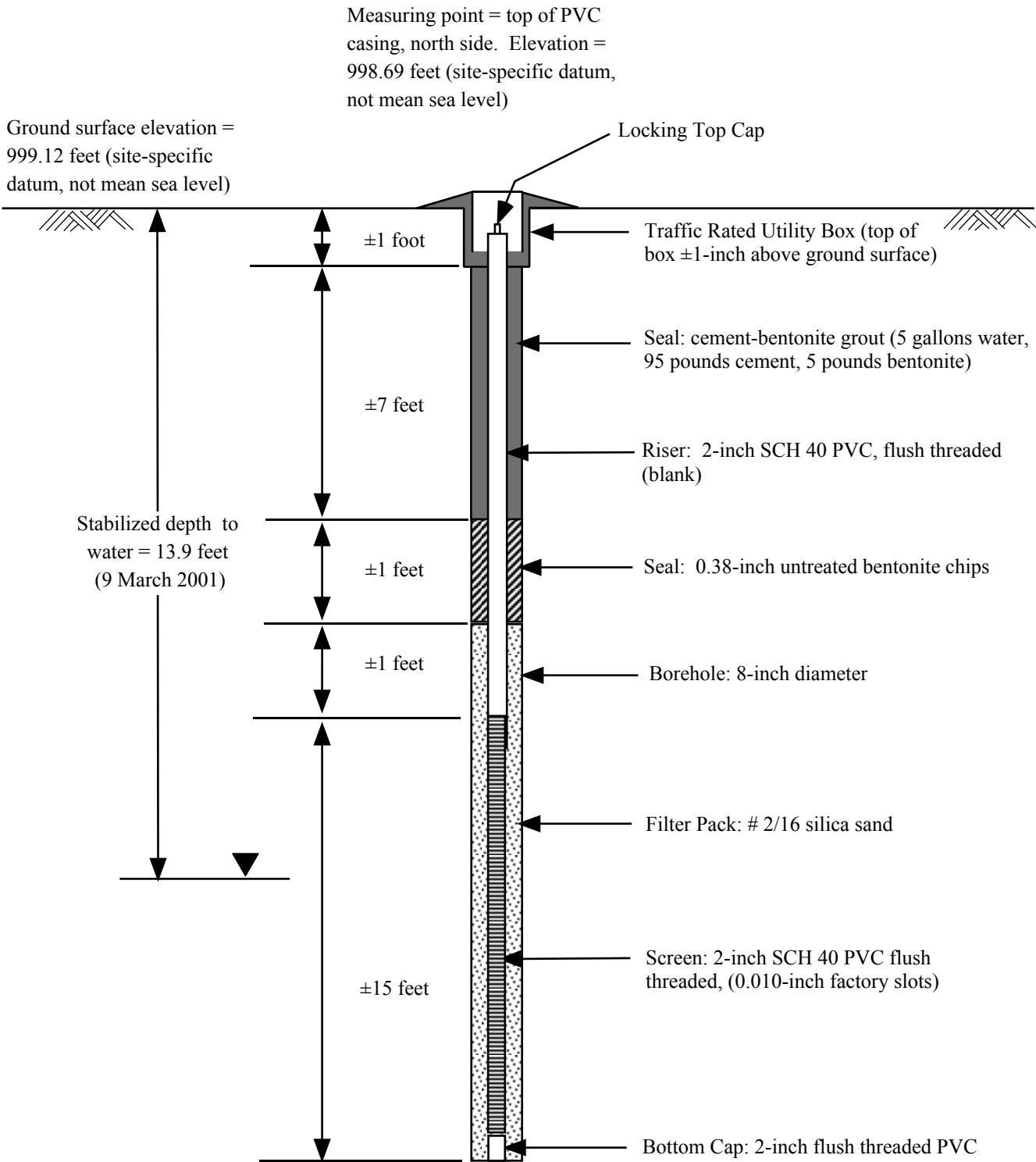
## Boring No. MW7 (page 1 of 2)

Project 4401 Market Street, Oakland CA	Address 4401 Market Street, Oakland CA
Location Back yard of 903 44th Street	Logged By Matthew B. Hall STREAMBORN (Berkeley CA)
Elevation Top of casing, North side = 998.69 feet (site-specific datum) Ground surface = 999.12 feet (site-specific datum)	Project No. P257
Drill Method ±4.25-inch ID by ±8-inch OD hollow-stem auger	Start 8:15 am, 5 January 2001 Finish 10:20 am, 5 January 2001
Drill Rig B-61, Rig #D9	Driller Gregg Drilling and Testing/Tony
Completion 2-inch PVC well with traffic rated vault	Drilled Depth ±25-feet
Sampling ±2-inch ID by ±2.5-inch OD driven split spoon fitted with ±2-inch diameter by ±6-inch long brass liners. Samples collected by driving spoon ahead of auger bit.	Groundwater ±43-feet (during drilling) Groundwater ±14.8-feet (1 February 2001) (stabilized)

Depth (feet)	Graphic Log	USCS	Sample Interval	Blows per 6 inches	Recovery (inches)	Soil Description, Observations, Comments	OVM (ppm v/v)
0.0						Topsoil. No staining, no odor.	
1.0							
2.0							
3.0							
4.0							
5.0			X	2	18	Sandy silt (ML). Dark brown, moist, low to moderate plasticity, <30% fine sand, medium stiff to stiff. No staining, no odor.	
6.0				3			
7.0				5			
8.0		ML					
9.0							
10.0	/ / / / /	CL	X	5	18	Lean clay (CL). Dark brown, moist, low to moderate plasticity, <5% fine sand, very stiff. No staining, no odor.	

### Boring No. MW7 (page 2 of 2)

Depth (feet)	Graphic Log	USCS	Sample Interval	Blows per 6 inches	Recovery (inches)	Soil Description, Observations, Comments	OVM (ppm v/v)
10.0	[Hatched]		X	10	18	See description previous page.	
				13			
11.0							
12.0							
13.0							
14.0							
15.0	[Hatched]	CH	X	8	18	Fat clay (CH). Dark brownish grey, moist to wet, moderate plasticity, <15% fine sand, very stiff. No staining, no odor.	
				9			
16.0				9			
17.0							
18.0							
19.0							
20.0	[Vertical Lines]		X	8	18	Silty sand (SM). Brown, wet, fine to medium sand, subrounded sand, <30% silt, dense. No staining, no odor.	
				10			
21.0				13			
22.0		SM					
23.0							
24.0	[Hatched]	SC	X	5	18	Clayey sand (SC). Brown, wet, coarse to fine sand, subrounded sand, <25% fines, medium dense. No staining, no odor.	
				7			
25.0				8			
						Total drilled depth = 25 feet. Boring completed as well. See completion diagram.	



*Not to Scale*

**Completion Schematic for MW7**

**4401 Market Street  
Oakland CA**

# **ATTACHMENT 6**

Well Decommissioning/Abandonment Field  
Logs

## LOG FOR WELL DESTRUCTION/DECOMMISSIONING/ABANDONMENT BY GROUTING

Project Name/Number: Market Street/P257	Logged By: Kevin R. Wildenberg
Property Location: 4401 Market Street, Oakland CA	Date: 5 January 2012
Well Identification: MW1	Depth to Water (ft): <u>24'7"</u> (below ground surface)
Measuring Point: Ground surface	Total Depth (ft): <u>13'5"</u> (below ground surface)
Abandonment Methods: Tremie grout followed by pressure	Casing Diameter (in): 2
Total Casing Length (ft): 25.5 (below ground surface)	Casing Material: SCH 40 PVC
Total Casing Volume (ft <sup>3</sup> ): 0.55	Casting/Ground Surf <del>(ft)</del> : <u>16"</u> (below ground surface)
Total Sandpack Length (ft): 6.5	Borehole Diameter (in): 8
Sandpack Annulus (ft <sup>2</sup> ): 0.32	Sandpack Voidspace (ft <sup>3</sup> ): 0.62
Total Sandpack Volume (ft <sup>3</sup> ): 2.08	Grout Proportions: 94# (sack) Type I/II to ±6 gal water
GPS: N <u>37°50.037</u> W <u>122°16.393</u>	TOC to TOG (tremie): <u>5"</u> inches
	TOC to TOG (pressure): <u>—</u> inches

Note obstructions, well damage, etc. under comments. Reference all measurements from the ground surface. 1 ft<sup>3</sup> = 7.481 gallons = 28.3 L. Assume sandpack porosity = 0.3

Theoretical grout take (casing volume plus sandpack voidspace): 1.17 ft<sup>3</sup>      Actual total grout take: 1.069 cubic feet = 8 gallons

Was tremie pipe used to place grout? Y Describe tremie pipe: 75" ID PVC ~~Top of Casing to Top of Grout~~

Was the grout pressurized? N Pressure (psi): — Hold time (minutes): —

Describe protector casing: — Describe removal of protection casing: —

Describe cut-off of well casing: Using a saw and cutters the well casing was removed 6" below TOC

Describe restoration of area: Base filled with portland cement after well vault was removed.

## LOG FOR WELL DESTRUCTION/DECOMMISSIONING/ABANDONMENT BY OVERDRILLING AND GROUTING

Project Name/Number: Market Street/P257	Logged By: Kevin R. Wildenberg
Property Location: 4401 Market Street, Oakland CA	Date: 5 January 2012
Well Identification: MW2	Depth to Water (ft): <u>12.38</u> (below ground surface)
Measuring Point: Ground surface	Total Depth (ft): <u>24.6</u> (below ground surface)
Abandonment Methods: Pressure Grout and Overdrill ±5ft bgs	Casing Diameter (in): 2
Total Casing Length (ft): 27.5 (below ground surface)	Casing Material: Schedule 40 PVC
Original Drilled Depth (ft): 27.5 (below ground surface)	Overdrilled Diameter (in): <u>10"</u>
Original Borehole Diameter (in): 8	Overdrilled Depth (ft): <u>3.5' to 15" bgs = 4.75</u>
Overdrilled Borehole Volume (ft <sup>3</sup> ): <u>10.28</u>	Grout Proportions: 94# Type I/II to ±6 gallons water
GPS: N <del>37° 50' 02.9"</del> <u>37° 50' 02.9"</u>	TOC to TOG (tremie): <u>1"</u> inches
W <del>122° 16' 40.1"</del> <u>122° 16' 40.1"</u>	TOC to TOG (pressure): <u>3"</u> inches

Note obstructions, well damage, etc. under comments. Reference depths from the measuring point. 1 ft<sup>3</sup> = 7.481 gallons = 28.3 L.

Theoretical grout take (overdrilled borehole volume): 1.42 ft<sup>3</sup> <sup>10.623 gallons</sup> Actual total grout take: 1.42 cubic feet = 28 gallons

Was tremie pipe used to place grout? Y Describe tremie pipe: .75 ID PVC

Was the grout pressurized? Y Pressure (psi): 25 Hold time (minutes): 5

Describe protector casing: - Describe removal of protection casing: -

Describe cut-off of well casing: overdrilled 3.5' feet bgs, well vault and concrete skirt were removed, soil was separated

Describe restoration of wellhead area: saw cut 6" past concrete skirt in square 8" in depth and finished with tacks and an asphalt roller

Comments: we direct push to knock out well vault

## LOG FOR WELL DESTRUCTION/DECOMMISSIONING/ABANDONMENT BY GROUTING

Project Name/Number: Market Street/P257	Logged By: Kevin R. Wildenberg
Property Location: 4401 Market Street, Oakland CA	Date: 5 January 2012
Well Identification: MW3	Depth to Water (ft): <u>24'8</u> (below ground surface)
Measuring Point: Ground surface	Total Depth (ft): <u>13'5</u> (below ground surface)
Abandonment Methods: Tremie grout followed by pressure	Casing Diameter (in): 2
Total Casing Length (ft): 27.5 (below ground surface)	Casing Material: SCH 40 PVC
Total Casing Volume (ft <sup>3</sup> ): 0.60	Casting/Ground Surf (ft): <u>7"</u> (below ground surface)
Total Sandpack Length (ft): 8.5	Borehole Diameter (in): 8
Sandpack Annulus (ft <sup>2</sup> ): 0.32	Sandpack Voidspace (ft <sup>3</sup> ): 0.82
Total Sandpack Volume (ft <sup>3</sup> ): 2.72	Grout Proportions: 94# (sack) Type I/II to ±6 gal water
GPS: N <u>37° 50.036</u> W <u>122° 16.393</u>	TOC to TOG (tremie): <u>0"</u> inches
	TOC to TOG (pressure): <u>—</u> inches

Note obstructions, well damage, etc. under comments. Reference all measurements from the ground surface. 1 ft<sup>3</sup> = 7.481 gallons = 28.3 L. Assume sandpack porosity = 0.3

Theoretical grout take (casing volume plus sandpack voidspace): 1.42 ft<sup>3</sup>      Actual total grout take: 1.34 cubic feet = 70 gallons

Was tremie pipe used to place grout? Y Describe tremie pipe: .75 ID PVC

Was the grout pressurized? — Pressure (psi): — Hold time (minutes): —

Describe protector casing: — Describe removal of protection casing: —

Describe cut-off of well casing: not cut off per

Describe restoration of area: cast iron ring was removed using a concrete drill and the well vault was backfilled with portland cement per instructions by ~~Al co.~~ Al co. Health Services.

# LOG FOR WELL DESTRUCTION/DECOMMISSIONING/ABANDONMENT BY OVERDRILLING AND GROUTING

Project Name/Number: Market Street/P257	Logged By: Kevin R. Wildenberg
Property Location: 4401 Market Street, Oakland CA	Date: 5 January 2012
Well Identification: MW4	Depth to Water (ft): <u>12.85</u> (below ground surface)
Measuring Point: Ground surface	Total Depth (ft): <u>24.6</u> (below ground surface)
Abandonment Methods: Pressure Grout and Overdrill ±5ft bgs	Casing Diameter (in): 2
Total Casing Length (ft): 25.0 (below ground surface)	Casing Material: Schedule 40 PVC
Original Drilled Depth (ft): 25.0 (below ground surface)	Overdrilled Diameter (in): <u>10"</u>
Original Borehole Diameter (in): 8	Overdrilled Depth (ft): <u>3'5" to 15" bgs = 4.75'</u>
Overdrilled Borehole Volume (ft <sup>3</sup> ): <u>10.28</u>	Grout Proportions: 94# Type I/II to ±6 gallons water
GPS: N <u>37°50.029"</u> W <u>122°16.399</u>	TOC to TOG (tremie): <u>12.5'</u> <u>2"</u> inches
	TOC to TOG (pressure): <u>3"</u> inches

Note obstructions, well damage, etc. under comments. Reference depths from the measuring point. 1 ft<sup>3</sup> = 7.481 gallons = 28.3 L.

Theoretical grout take (overdrilled borehole volume): 2.08 ft<sup>3</sup> <sup>15.5 gallons</sup> Actual total grout take: 1.74 cubic feet = 13 gallons

Was tremie pipe used to place grout? Y Describe tremie pipe: .75 id PVC

Was the grout pressurized? Y Pressure (psi): 25 Hold time (minutes): 5

Describe protector casing: — Describe removal of protection casing: —

Describe cut-off of well casing: overdrilled 3.5' feet bgs, well vault and concrete skirt was removed and soil separated.

Describe restoration of wellhead area: square 6" past concrete skirt saw cut, <sup>7" in depth</sup> hot coat asphalt layered with jumping jack and finished with hot tack and asphalt roller

Comments: \_\_\_\_\_



# LOG FOR WELL DESTRUCTION/DECOMMISSIONING/ABANDONMENT BY OVERDRILLING AND GROUTING

Project Name/Number: Market Street/P257	Logged By: Kevin R. Wildenberg
Property Location: 4401 Market Street, Oakland CA	Date: 5 January 2012
Well Identification: MW5	Depth to Water (ft): <u>12.65</u> (below ground surface)
Measuring Point: Ground surface	Total Depth (ft): <u>24.9</u> (below ground surface)
Abandonment Methods: Pressure Grout and Overdrill ±5ft bgs	Casing Diameter (in): 2
Total Casing Length (ft): 25.0 (below ground surface)	Casing Material: Schedule 40 PVC
Original Drilled Depth (ft): 25.0 (below ground surface)	Overdrilled Diameter (in): <u>10"</u>
Original Borehole Diameter (in): 8	Overdrilled Depth (ft <sup>3</sup> ): <u>4' to 15" bgs = 5.25</u>
Overdrilled Borehole Volume (ft <sup>3</sup> ): <u>11.37</u>	Grout Proportions: 94# Type I/II to ±6 gallons water
GPS: N <u>37° 50.028'</u> W <u>122° 16.405'</u>	TOC to TOG (tremie): <u>0"</u> inches
	TOC to TOG (pressure): <u>3"</u> inches

Note obstructions, well damage, etc. under comments. Reference depths from the measuring point. 1 ft<sup>3</sup> = 7.481 gallons = 28.3 L.

Theoretical grout take (overdrilled borehole volume): 2.08 ft<sup>3</sup> <sup>15.5</sup> Actual total grout take: 1.34 cubic feet = 70 gallons

Was tremie pipe used to place grout? Y Describe tremie pipe: 75 10 PVC

Was the grout pressurized? Y Pressure (psi): 25 Hold time (minutes): 5

Describe protector casing: - Describe removal of protection casing: -

Describe cut-off of well casing: overdrilled 3.5' bgs, well vault and concrete skirt removed, soil was separated

Describe restoration of wellhead area: Saw cut 6" square past concrete skirt, <sup>7" in depth</sup> hot coat asphalt layered with jumping jack and finished with hot tack and asphalt roller

Comments: \_\_\_\_\_

# LOG FOR WELL DESTRUCTION/DECOMMISSIONING/ABANDONMENT BY OVERDRILLING AND GROUTING

Project Name/Number: Market Street/P257	Logged By: Kevin R. Wildenberg
Property Location: 4401 Market Street, Oakland CA	Date: 5 January 2012
Well Identification: MW6	Depth to Water (ft): <u>12.60</u> (below ground surface)
Measuring Point: Ground surface	Total Depth (ft): <u>24.8</u> (below ground surface)
Abandonment Methods: Pressure Grout and Overdrill ±5ft bgs	Casing Diameter (in): 2
Total Casing Length (ft): 25.0 (below ground surface)	Casing Material: Schedule 40 PVC
Original Drilled Depth (ft): 25.0 (below ground surface)	Overdrilled Diameter (in): <u>10"</u>
Original Borehole Diameter (in): 8	Overdrilled Depth (ft): <u>3.5' to 15" bgs = 4.75</u>
Overdrilled Borehole Volume (ft <sup>3</sup> ): <u>10.28</u>	Grout Proportions: 94# Type I/II to ±6 gallons water
GPS: N <u>37° 50.026"</u> W <u>122° 16.402'</u>	TOC to TOG (tremie): <u>1"</u> inches
	TOC to TOG (pressure): <u>2.75"</u> inches

Note obstructions, well damage, etc. under comments. Reference depths from the measuring point. 1 ft<sup>3</sup> = 7.481 gallons = 28.3 L.

Theoretical grout take (overdrilled borehole volume): 2.05 ft<sup>3</sup> <sup>15.5 gallons</sup> Actual total grout take: 0.94 cubic feet = ~7 gallons 7 gal

Was tremie pipe used to place grout? Y Describe tremie pipe: .75 ID PVC 5 foot flights

Was the grout pressurized? Y Pressure (psi): 25 Hold time (minutes): 5

Describe protector casing: - Describe removal of protection casing: -

Describe cut-off of well casing: overdrilled 3.5' bgs, well vault concrete skirt removed, soil was separated

Describe restoration of wellhead area: 6" past concrete skirt square saw cut <sup>7" in depth</sup> hot cut asphalt layered w/ jumping jack and finished with hot tack and asphalt roller.

Comments: No water came up with tremie; only 7 gallons grout

## LOG FOR WELL DESTRUCTION/DECOMMISSIONING/ABANDONMENT BY GROUTING

Project Name/Number: Market Street/P257	Logged By: Kevin R. Wildenberg
Property Location: 4401 Market Street, Oakland CA	Date: 5 January 2012
Well Identification: MW7	Depth to Water (ft): <u>14.20</u> (below ground surface)
Measuring Point: Ground surface	Total Depth (ft): <u>24.6</u> (below ground surface)
Abandonment Methods: Tremie grout followed by pressure	Casing Diameter (in): 2
Total Casing Length (ft): 25.0 (below ground surface)	Casing Material: SCH 40 PVC
Total Casing Volume (ft <sup>3</sup> ): 0.54	Casting/Ground Surf (ft): <u>8"</u> (below ground surface)
Total Sandpack Length (ft): 16	Borehole Diameter (in): 8
Sandpack Annulus (ft <sup>2</sup> ): 0.32	Sandpack Voidspace (ft <sup>3</sup> ): 1.54
Total Sandpack Volume (ft <sup>3</sup> ): 5.13	Grout Proportions: 94# (sack) Type I/II to ±6 gal water
GPS: N <u>37°50.016"</u> W <u>122°16.406"</u>	TOC to TOG (tremie): <u>0"</u> inches
	<del>TOC to TOG (pressure): _____</del> inches

Note obstructions, well damage, etc. under comments. Reference all measurements from the ground surface. 1 ft<sup>3</sup> = 7.481 gallons = 28.3 L. Assume sandpack porosity = 0.3

Theoretical grout take (casing volume plus sandpack voidspace): 2.08 <sup>15</sup>ft<sup>3</sup> Actual total grout take: 1.20 cubic feet = 9 gallons

Was tremie pipe used to place grout? Y Describe tremie pipe: .75 ID PVC

Was the grout pressurized? - Pressure (psi): - Hold time (minutes): -

Describe protector casing: - Describe removal of protection casing: -

Describe cut-off of well casing: using saw and cutters well casin was removed 6" below TOG

Describe restoration of area: vell vault removed, saw cut square around concrete skirt, back filled with portlant cement spread to match existing grade

## **ATTACHMENT 7**

Field Sampling Form, Chain-of-Custody  
Form, and Laboratory Report for Waste Soil

### SOIL SAMPLING FORM - COMPOSITE WITH LINER

Project Name/Number: Market Street/P257	Logged By: Kevin R. Wildenberg
Property Location: 4401 Market Street	Date: 5 January 2012
Sample ID: Abandon1	Driller: Cascade Drilling
Sampling Equipment: Streamborn Soil Sampling Supplies	Comments:

Note unusual conditions or activities under comments.

Sample ID	Describe Location	Sample Time	Sample Depth Interval (feet)	Sample Type	End OVM Screening (ppm v/v)	Chemical Odor	Chemical Staining	Soil Classification	Comments
Abandon1	<i>Composite sample from wells located in Roadway</i>	<i>1:47</i>	0.0-5.0	C	<i>NM</i>	<i>none</i>	<i>none</i>	<i>gravelly lean clay</i>	

Sample type: G = grab. C = composite.

End OVM screening was performed by holding the organic vapor meter probe adjacent to each end of the freshly cut liner and recording the maximum reading. End screening was performed immediately after cutting the liner.

Field organic vapor meter = Mini Rae Classic or Mini Rae 2000 meter, equipped with 10.6 eV photoionization detector, calibrated to 100 ppm v/v isobutylene.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566  
Tel: (925)484-1919

TestAmerica Job ID: 720-39642-1  
Client Project/Site: 4401 Market Street Oakland, CA

For:  
Streamborn  
900 Santa Fe Avenue  
Albany, California 94706

Attn: Mr. Douglas W Lovell

*Surinder Sidhu*

Authorized for release by:  
1/13/2012 3:58:09 PM

Surinder Sidhu  
Customer Service Manager  
[surinder.sidhu@testamericainc.com](mailto:surinder.sidhu@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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13



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	5
Client Sample Results . . . . .	6
QC Sample Results . . . . .	9
QC Association Summary . . . . .	14
Certification Summary . . . . .	16
Method Summary . . . . .	17
Sample Summary . . . . .	18
Chain of Custody . . . . .	19
Receipt Checklists . . . . .	20

## Definitions/Glossary

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39642-1

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# Case Narrative

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39642-1

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**Job ID: 720-39642-1**

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**Laboratory: TestAmerica San Francisco**

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**Narrative**

**Job Narrative**  
720-39642-1

**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.

**GC VOA**

No analytical or quality issues were noted.

**GC Semi VOA**

No analytical or quality issues were noted.

**Metals**

No analytical or quality issues were noted.

**Organic Prep**

No analytical or quality issues were noted.



# Detection Summary

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39642-1

**Client Sample ID: Abandon1**

**Lab Sample ID: 720-39642-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	40		0.99		mg/Kg	1		8015B	Total/NA
Lead	5.0		1.9		mg/Kg	4		6010B	Total/NA

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# Client Sample Results

Client: Streamborn  
 Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39642-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS

**Client Sample ID: Abandon1**  
**Date Collected: 01/05/12 13:47**  
**Date Received: 01/06/12 18:10**

**Lab Sample ID: 720-39642-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		01/09/12 19:00	01/09/12 23:57	1
Benzene	ND		5.0		ug/Kg		01/09/12 19:00	01/09/12 23:57	1
EDB	ND		5.0		ug/Kg		01/09/12 19:00	01/09/12 23:57	1
1,2-DCA	ND		5.0		ug/Kg		01/09/12 19:00	01/09/12 23:57	1
Ethylbenzene	ND		5.0		ug/Kg		01/09/12 19:00	01/09/12 23:57	1
Toluene	ND		5.0		ug/Kg		01/09/12 19:00	01/09/12 23:57	1
Xylenes, Total	ND		10		ug/Kg		01/09/12 19:00	01/09/12 23:57	1
Gasoline Range Organics (GRO)	ND		250		ug/Kg		01/09/12 19:00	01/09/12 23:57	1
-C5-C12									
TBA	ND		10		ug/Kg		01/09/12 19:00	01/09/12 23:57	1
DIPE	ND		5.0		ug/Kg		01/09/12 19:00	01/09/12 23:57	1
TAME	ND		5.0		ug/Kg		01/09/12 19:00	01/09/12 23:57	1
Ethyl t-butyl ether	ND		5.0		ug/Kg		01/09/12 19:00	01/09/12 23:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	100		45 - 131				01/09/12 19:00	01/09/12 23:57	1
1,2-Dichloroethane-d4 (Surr)	101		60 - 140				01/09/12 19:00	01/09/12 23:57	1
Toluene-d8 (Surr)	103		58 - 140				01/09/12 19:00	01/09/12 23:57	1

# Client Sample Results

Client: Streamborn  
 Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39642-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: Abandon1  
 Date Collected: 01/05/12 13:47  
 Date Received: 01/06/12 18:10

Lab Sample ID: 720-39642-1  
 Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	40		0.99		mg/Kg		01/10/12 07:09	01/10/12 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	102		40 - 130				01/10/12 07:09	01/10/12 22:38	1

# Client Sample Results

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39642-1

## Method: 6010B - Metals (ICP)

Client Sample ID: Abandon1  
Date Collected: 01/05/12 13:47  
Date Received: 01/06/12 18:10

Lab Sample ID: 720-39642-1  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.0		1.9		mg/Kg		01/11/12 18:49	01/13/12 02:27	4

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# QC Sample Results

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39642-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS

**Lab Sample ID: MB 720-105710/1-A**

**Matrix: Solid**

**Analysis Batch: 105692**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 105710**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		01/09/12 19:00	01/09/12 20:05	1
Benzene	ND		5.0		ug/Kg		01/09/12 19:00	01/09/12 20:05	1
EDB	ND		5.0		ug/Kg		01/09/12 19:00	01/09/12 20:05	1
1,2-DCA	ND		5.0		ug/Kg		01/09/12 19:00	01/09/12 20:05	1
Ethylbenzene	ND		5.0		ug/Kg		01/09/12 19:00	01/09/12 20:05	1
Toluene	ND		5.0		ug/Kg		01/09/12 19:00	01/09/12 20:05	1
Xylenes, Total	ND		10		ug/Kg		01/09/12 19:00	01/09/12 20:05	1
Gasoline Range Organics (GRO)	ND		250		ug/Kg		01/09/12 19:00	01/09/12 20:05	1
-C5-C12									
TBA	ND		10		ug/Kg		01/09/12 19:00	01/09/12 20:05	1
DIPE	ND		5.0		ug/Kg		01/09/12 19:00	01/09/12 20:05	1
TAME	ND		5.0		ug/Kg		01/09/12 19:00	01/09/12 20:05	1
Ethyl t-butyl ether	ND		5.0		ug/Kg		01/09/12 19:00	01/09/12 20:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		45 - 131	01/09/12 19:00	01/09/12 20:05	1
1,2-Dichloroethane-d4 (Surr)	98		60 - 140	01/09/12 19:00	01/09/12 20:05	1
Toluene-d8 (Surr)	99		58 - 140	01/09/12 19:00	01/09/12 20:05	1

**Lab Sample ID: LCS 720-105710/2-A**

**Matrix: Solid**

**Analysis Batch: 105692**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 105710**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	56.0		ug/Kg		112	70 - 144
Benzene	50.0	48.6		ug/Kg		97	70 - 130
EDB	50.0	53.2		ug/Kg		106	70 - 140
1,2-DCA	50.0	48.6		ug/Kg		97	70 - 130
Ethylbenzene	50.0	48.4		ug/Kg		97	80 - 137
Toluene	50.0	48.6		ug/Kg		97	80 - 128
m-Xylene & p-Xylene	100	100		ug/Kg		100	70 - 146
o-Xylene	50.0	51.8		ug/Kg		104	70 - 140
TBA	1000	891		ug/Kg		89	63 - 130
DIPE	50.0	53.8		ug/Kg		108	70 - 131
TAME	50.0	57.6		ug/Kg		115	70 - 140
Ethyl t-butyl ether	50.0	52.6		ug/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		45 - 131
1,2-Dichloroethane-d4 (Surr)	103		60 - 140
Toluene-d8 (Surr)	101		58 - 140

**Lab Sample ID: LCS 720-105710/4-A**

**Matrix: Solid**

**Analysis Batch: 105692**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 105710**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)	1000	812		ug/Kg		81	61 - 128
-C5-C12							

# QC Sample Results

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39642-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCS 720-105710/4-A**

**Matrix: Solid**

**Analysis Batch: 105692**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 105710**

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	100		45 - 131
1,2-Dichloroethane-d4 (Surr)	100		60 - 140
Toluene-d8 (Surr)	101		58 - 140

**Lab Sample ID: LCSD 720-105710/3-A**

**Matrix: Solid**

**Analysis Batch: 105692**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 105710**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Methyl tert-butyl ether	50.0	54.4		ug/Kg		109	70 - 144	3	20	
Benzene	50.0	47.6		ug/Kg		95	70 - 130	2	20	
EDB	50.0	50.4		ug/Kg		101	70 - 140	5	20	
1,2-DCA	50.0	47.8		ug/Kg		96	70 - 130	2	20	
Ethylbenzene	50.0	48.0		ug/Kg		96	80 - 137	1	20	
Toluene	50.0	48.0		ug/Kg		96	80 - 128	1	20	
m-Xylene & p-Xylene	100	98.2		ug/Kg		98	70 - 146	2	20	
o-Xylene	50.0	51.0		ug/Kg		102	70 - 140	2	20	
TBA	1000	916		ug/Kg		92	63 - 130	3	20	
DIPE	50.0	53.2		ug/Kg		106	70 - 131	1	20	
TAME	50.0	55.8		ug/Kg		112	70 - 140	3	20	
Ethyl t-butyl ether	50.0	51.6		ug/Kg		103	70 - 130	2	20	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	103		45 - 131
1,2-Dichloroethane-d4 (Surr)	102		60 - 140
Toluene-d8 (Surr)	101		58 - 140

**Lab Sample ID: LCSD 720-105710/5-A**

**Matrix: Solid**

**Analysis Batch: 105692**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 105710**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Gasoline Range Organics (GRO) -C5-C12	1000	835		ug/Kg		84	61 - 128	3	20	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	102		45 - 131
1,2-Dichloroethane-d4 (Surr)	104		60 - 140
Toluene-d8 (Surr)	101		58 - 140

**Lab Sample ID: 720-39642-1 MS**

**Matrix: Solid**

**Analysis Batch: 105692**

**Client Sample ID: Abandon1**

**Prep Type: Total/NA**

**Prep Batch: 105710**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	RPD
Methyl tert-butyl ether	ND		50.1	58.5		ug/Kg		117	69 - 130	
Benzene	ND		50.1	48.5		ug/Kg		97	70 - 130	
EDB	ND		50.1	53.1		ug/Kg		106	66 - 135	
1,2-DCA	ND		50.1	48.3		ug/Kg		96	70 - 130	

# QC Sample Results

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39642-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: 720-39642-1 MS**

**Matrix: Solid**

**Analysis Batch: 105692**

**Client Sample ID: Abandon1**

**Prep Type: Total/NA**

**Prep Batch: 105710**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Ethylbenzene	ND		50.1	49.1		ug/Kg		98	65 - 130	
Toluene	ND		50.1	49.7		ug/Kg		99	70 - 130	
m-Xylene & p-Xylene	ND		100	100		ug/Kg		100	70 - 130	
o-Xylene	ND		50.1	51.9		ug/Kg		104	68 - 130	
TBA	ND		1000	906		ug/Kg		90	70 - 130	
DIPE	ND		50.1	55.9		ug/Kg		112	70 - 130	
TAME	ND		50.1	60.1		ug/Kg		120	70 - 130	
Ethyl t-butyl ether	ND		50.1	54.9		ug/Kg		110	70 - 130	
<b>MS MS</b>										
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene	104		45 - 131							
1,2-Dichloroethane-d4 (Surr)	102		60 - 140							
Toluene-d8 (Surr)	102		58 - 140							

**Lab Sample ID: 720-39642-1 MSD**

**Matrix: Solid**

**Analysis Batch: 105692**

**Client Sample ID: Abandon1**

**Prep Type: Total/NA**

**Prep Batch: 105710**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier		Result	Qualifier						RPD	Limit
Methyl tert-butyl ether	ND		49.2	56.1		ug/Kg		114	69 - 130	4	20	
Benzene	ND		49.2	47.4		ug/Kg		96	70 - 130	2	20	
EDB	ND		49.2	50.4		ug/Kg		102	66 - 135	5	20	
1,2-DCA	ND		49.2	47.2		ug/Kg		96	70 - 130	2	20	
Ethylbenzene	ND		49.2	46.7		ug/Kg		95	65 - 130	5	20	
Toluene	ND		49.2	47.2		ug/Kg		96	70 - 130	5	20	
m-Xylene & p-Xylene	ND		98.4	94.9		ug/Kg		96	70 - 130	6	20	
o-Xylene	ND		49.2	49.0		ug/Kg		100	68 - 130	6	20	
TBA	ND		984	882		ug/Kg		90	70 - 130	3	20	
DIPE	ND		49.2	54.7		ug/Kg		111	70 - 130	2	20	
TAME	ND		49.2	57.9		ug/Kg		118	70 - 130	4	20	
Ethyl t-butyl ether	ND		49.2	53.1		ug/Kg		108	70 - 130	3	20	
<b>MSD MSD</b>												
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene	101		45 - 131									
1,2-Dichloroethane-d4 (Surr)	101		60 - 140									
Toluene-d8 (Surr)	102		58 - 140									

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 720-105717/1-A**

**Matrix: Solid**

**Analysis Batch: 105721**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 105717**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		01/10/12 07:09	01/10/12 23:02	1
<b>MB MB</b>									
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
p-Terphenyl	108		40 - 130	01/10/12 07:09	01/10/12 23:02	1			



# QC Sample Results

Client: Streamborn  
 Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39642-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCS 720-105717/2-A**

**Matrix: Solid**

**Analysis Batch: 105721**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 105717**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.8	74.9		mg/Kg		90	50 - 150
Surrogate	%Recovery	LCS Qualifier	LCS	Limits			
p-Terphenyl	104			40 - 130			

**Lab Sample ID: LCSD 720-105717/3-A**

**Matrix: Solid**

**Analysis Batch: 105721**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 105717**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	82.4	75.1		mg/Kg		91	50 - 150	0	35
Surrogate	%Recovery	LCSD Qualifier	LCSD	Limits					
p-Terphenyl	101			40 - 130					

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 720-105862/1-A**

**Matrix: Solid**

**Analysis Batch: 105971**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 105862**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50		mg/Kg		01/11/12 18:49	01/13/12 02:06	1

**Lab Sample ID: LCS 720-105862/2-A**

**Matrix: Solid**

**Analysis Batch: 105971**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 105862**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	48.9		mg/Kg		98	80 - 120

**Lab Sample ID: LCSD 720-105862/3-A**

**Matrix: Solid**

**Analysis Batch: 105971**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 105862**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	50.0	49.6		mg/Kg		99	80 - 120	1	20

**Lab Sample ID: LCSSRM 720-105862/20-A**

**Matrix: Solid**

**Analysis Batch: 105971**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 105862**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	181	152		mg/Kg		84	62 - 113

# QC Sample Results

Client: Streamborn  
 Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39642-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 720-39642-1 MS**

**Matrix: Solid**

**Analysis Batch: 105971**

**Client Sample ID: Abandon1**

**Prep Type: Total/NA**

**Prep Batch: 105862**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Lead	5.0		48.5	46.7		mg/Kg		86	75 - 125	

**Lab Sample ID: 720-39642-1 MSD**

**Matrix: Solid**

**Analysis Batch: 105971**

**Client Sample ID: Abandon1**

**Prep Type: Total/NA**

**Prep Batch: 105862**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
Lead	5.0		49.0	46.1		mg/Kg		84	75 - 125		1	20



# QC Association Summary

Client: Streamborn  
 Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39642-1

## GC/MS VOA

### Analysis Batch: 105692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-39642-1	Abandon1	Total/NA	Solid	8260B/CA_LUFT	105710
720-39642-1 MS	Abandon1	Total/NA	Solid	MS	105710
720-39642-1 MSD	Abandon1	Total/NA	Solid	8260B/CA_LUFT	105710
LCS 720-105710/2-A	Lab Control Sample	Total/NA	Solid	MS	105710
LCS 720-105710/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT	105710
LCSD 720-105710/3-A	Lab Control Sample Dup	Total/NA	Solid	MS	105710
LCSD 720-105710/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT	105710
MB 720-105710/1-A	Method Blank	Total/NA	Solid	MS	105710

### Prep Batch: 105710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-39642-1	Abandon1	Total/NA	Solid	5030B	
720-39642-1 MS	Abandon1	Total/NA	Solid	5030B	
720-39642-1 MSD	Abandon1	Total/NA	Solid	5030B	
LCS 720-105710/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCS 720-105710/4-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-105710/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
LCSD 720-105710/5-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
MB 720-105710/1-A	Method Blank	Total/NA	Solid	5030B	

## GC Semi VOA

### Prep Batch: 105717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-39642-1	Abandon1	Total/NA	Solid	3546	
LCS 720-105717/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-105717/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-105717/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 105720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-39642-1	Abandon1	Total/NA	Solid	8015B	105717

### Analysis Batch: 105721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-105717/2-A	Lab Control Sample	Total/NA	Solid	8015B	105717
LCSD 720-105717/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	105717
MB 720-105717/1-A	Method Blank	Total/NA	Solid	8015B	105717

## Metals

### Prep Batch: 105862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-39642-1	Abandon1	Total/NA	Solid	3050B	
720-39642-1 MS	Abandon1	Total/NA	Solid	3050B	
720-39642-1 MSD	Abandon1	Total/NA	Solid	3050B	

# QC Association Summary

Client: Streamborn  
 Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39642-1

## Metals (Continued)

### Prep Batch: 105862 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-105862/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-105862/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-105862/20-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-105862/1-A	Method Blank	Total/NA	Solid	3050B	

### Analysis Batch: 105971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-39642-1	Abandon1	Total/NA	Solid	6010B	105862
720-39642-1 MS	Abandon1	Total/NA	Solid	6010B	105862
720-39642-1 MSD	Abandon1	Total/NA	Solid	6010B	105862
LCS 720-105862/2-A	Lab Control Sample	Total/NA	Solid	6010B	105862
LCSD 720-105862/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	105862
LCSSRM 720-105862/20-A	Lab Control Sample	Total/NA	Solid	6010B	105862
MB 720-105862/1-A	Method Blank	Total/NA	Solid	6010B	105862



# Certification Summary

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39642-1

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Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

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Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Method Summary

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39642-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF
6010B	Metals (ICP)	SW846	TAL SF

**Protocol References:**

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

**Laboratory References:**

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



# Sample Summary

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39642-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-39642-1	Abandon1	Solid	01/05/12 13:47	01/06/12 18:10

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720-39642

135832

Streamborn  
Chain-of-Custody Form

Project Name: Market Street	Project Location: 4401 Market Street, Oakland CA	Project Number: P257
Sampler: Kevin R Wildenberg	Laboratory: TestAmerica	Laboratory Number: 925-484-1919

Sample Designation	Depth (feet)	Date	Time	Matrix			Type		Containers		Preservative (in addition to ice)	Turnaround			Analyses				Sampler Comments	Laboratory Comments	
				Soil	Water	Vapor	Grab	Composite	Quantity	Type		24 Hour	5 Working Days	10 Working Days	TPH-gasoline/BTEX/fuel oxygenates	TPHdiesel	Total Lead				
Abandon1	—	05-Jan-12	1:47	X				X	1	Liner	None			X		X	X	X		4 subsamples	
Subsamples were collected from the drummed waste soil produced by overdrilling the wells. The subsamples were composited in field and packed into the liner.																					

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: 1-6-12	Time: 1636
Relinquished By: <i>[Signature]</i>	Received By: John Muller	Date: 1-6-12	Time: 1810

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
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## Login Sample Receipt Checklist

Client: Streamborn

Job Number: 720-39642-1

Login Number: 39642

List Source: TestAmerica San Francisco

List Number: 1

Creator: Mullen, Joan

Question	Answer	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	
Is the Field Sampler's name present on COC?	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	
Sample Preservation Verified.	N/A	
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

# **ATTACHMENT 8**

Chain-of-Custody Form and Laboratory  
Report for Wastewater

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566  
Tel: (925)484-1919

TestAmerica Job ID: 720-39643-1  
Client Project/Site: 4401 Market Street Oakland, CA

For:  
Streamborn  
900 Santa Fe Avenue  
Albany, California 94706

Attn: Mr. Douglas W Lovell

*Surinder Sidhu*

Authorized for release by:  
1/13/2012 4:14:06 PM

Surinder Sidhu  
Customer Service Manager  
[surinder.sidhu@testamericainc.com](mailto:surinder.sidhu@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	5
Client Sample Results . . . . .	6
QC Sample Results . . . . .	10
QC Association Summary . . . . .	18
Certification Summary . . . . .	19
Method Summary . . . . .	20
Sample Summary . . . . .	21
Chain of Custody . . . . .	22
Receipt Checklists . . . . .	23

## Definitions/Glossary

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

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**Job ID: 720-39643-1**

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**Laboratory: TestAmerica San Francisco**

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**Narrative**

**Job Narrative**  
**720-39643-1**

**Comments**

No additional comments.

**Receipt**

All samples were received in good condition within temperature requirements.

**GC/MS VOA**

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch #105693 were outside control limits. This is attributed to: non-homogeneity of the sample matrix; abundance of target analytes at concentrations significantly higher than the spike concentration; matrix interferences.

No other analytical or quality issues were noted.

**Metals**

No analytical or quality issues were noted.

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- 3
- 4
- 5
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- 10
- 11
- 12
- 13

# Detection Summary

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

**Client Sample ID: WASTEWATER**

**Lab Sample ID: 720-39643-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.014		0.0050		mg/L	1		6010B	Total/NA
Zinc	0.025		0.020		mg/L	1		6010B	Total/NA

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- 2
- 3
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- 8
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- 10
- 11
- 12
- 13

# Client Sample Results

Client: Streamborn  
 Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS

**Client Sample ID: WASTEWATER**

**Lab Sample ID: 720-39643-1**

**Date Collected: 01/05/12 13:10**

**Matrix: Water**

**Date Received: 01/06/12 18:10**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			01/10/12 04:19	1
Acetone	ND		50		ug/L			01/10/12 04:19	1
Benzene	ND		0.50		ug/L			01/10/12 04:19	1
Dichlorobromomethane	ND		0.50		ug/L			01/10/12 04:19	1
Bromobenzene	ND		1.0		ug/L			01/10/12 04:19	1
Chlorobromomethane	ND		1.0		ug/L			01/10/12 04:19	1
Bromoform	ND		1.0		ug/L			01/10/12 04:19	1
Bromomethane	ND		1.0		ug/L			01/10/12 04:19	1
2-Butanone (MEK)	ND		50		ug/L			01/10/12 04:19	1
n-Butylbenzene	ND		1.0		ug/L			01/10/12 04:19	1
sec-Butylbenzene	ND		1.0		ug/L			01/10/12 04:19	1
tert-Butylbenzene	ND		1.0		ug/L			01/10/12 04:19	1
Carbon disulfide	ND		5.0		ug/L			01/10/12 04:19	1
Carbon tetrachloride	ND		0.50		ug/L			01/10/12 04:19	1
Chlorobenzene	ND		0.50		ug/L			01/10/12 04:19	1
Chloroethane	ND		1.0		ug/L			01/10/12 04:19	1
Chloroform	ND		1.0		ug/L			01/10/12 04:19	1
Chloromethane	ND		1.0		ug/L			01/10/12 04:19	1
2-Chlorotoluene	ND		0.50		ug/L			01/10/12 04:19	1
4-Chlorotoluene	ND		0.50		ug/L			01/10/12 04:19	1
Chlorodibromomethane	ND		0.50		ug/L			01/10/12 04:19	1
1,2-Dichlorobenzene	ND		0.50		ug/L			01/10/12 04:19	1
1,3-Dichlorobenzene	ND		0.50		ug/L			01/10/12 04:19	1
1,4-Dichlorobenzene	ND		0.50		ug/L			01/10/12 04:19	1
1,3-Dichloropropane	ND		1.0		ug/L			01/10/12 04:19	1
1,1-Dichloropropene	ND		0.50		ug/L			01/10/12 04:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/10/12 04:19	1
Ethylene Dibromide	ND		0.50		ug/L			01/10/12 04:19	1
Dibromomethane	ND		0.50		ug/L			01/10/12 04:19	1
Dichlorodifluoromethane	ND		0.50		ug/L			01/10/12 04:19	1
1,1-Dichloroethane	ND		0.50		ug/L			01/10/12 04:19	1
1,2-Dichloroethane	ND		0.50		ug/L			01/10/12 04:19	1
1,1-Dichloroethene	ND		0.50		ug/L			01/10/12 04:19	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/10/12 04:19	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			01/10/12 04:19	1
1,2-Dichloropropane	ND		0.50		ug/L			01/10/12 04:19	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			01/10/12 04:19	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			01/10/12 04:19	1
Ethylbenzene	ND		0.50		ug/L			01/10/12 04:19	1
Hexachlorobutadiene	ND		1.0		ug/L			01/10/12 04:19	1
2-Hexanone	ND		50		ug/L			01/10/12 04:19	1
Isopropylbenzene	ND		0.50		ug/L			01/10/12 04:19	1
4-Isopropyltoluene	ND		1.0		ug/L			01/10/12 04:19	1
Methylene Chloride	ND		5.0		ug/L			01/10/12 04:19	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/10/12 04:19	1
Naphthalene	ND		1.0		ug/L			01/10/12 04:19	1
N-Propylbenzene	ND		1.0		ug/L			01/10/12 04:19	1
Styrene	ND		0.50		ug/L			01/10/12 04:19	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			01/10/12 04:19	1



# Client Sample Results

Client: Streamborn  
 Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Client Sample ID: WASTEWATER**

**Date Collected: 01/05/12 13:10**

**Date Received: 01/06/12 18:10**

**Lab Sample ID: 720-39643-1**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/10/12 04:19	1
Tetrachloroethene	ND		0.50		ug/L			01/10/12 04:19	1
Toluene	ND		0.50		ug/L			01/10/12 04:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/10/12 04:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/10/12 04:19	1
1,1,1-Trichloroethane	ND		0.50		ug/L			01/10/12 04:19	1
1,1,2-Trichloroethane	ND		0.50		ug/L			01/10/12 04:19	1
Trichloroethene	ND		0.50		ug/L			01/10/12 04:19	1
Trichlorofluoromethane	ND		1.0		ug/L			01/10/12 04:19	1
1,2,3-Trichloropropane	ND		0.50		ug/L			01/10/12 04:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			01/10/12 04:19	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			01/10/12 04:19	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			01/10/12 04:19	1
Vinyl acetate	ND		10		ug/L			01/10/12 04:19	1
Vinyl chloride	ND		0.50		ug/L			01/10/12 04:19	1
Xylenes, Total	ND		1.0		ug/L			01/10/12 04:19	1
2,2-Dichloropropane	ND		0.50		ug/L			01/10/12 04:19	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/10/12 04:19	1
TBA	ND		4.0		ug/L			01/10/12 04:19	1
Ethyl tert-butyl ether	ND		0.50		ug/L			01/10/12 04:19	1
DIPE	ND		0.50		ug/L			01/10/12 04:19	1
TAME	ND		0.50		ug/L			01/10/12 04:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		67 - 130					01/10/12 04:19	1
1,2-Dichloroethane-d4 (Surr)	96		75 - 138					01/10/12 04:19	1
Toluene-d8 (Surr)	97		70 - 130					01/10/12 04:19	1

# Client Sample Results

Client: Streamborn  
 Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

## Method: 6010B - Metals (ICP)

Client Sample ID: WASTEWATER

Date Collected: 01/05/12 13:10

Date Received: 01/06/12 18:10

Lab Sample ID: 720-39643-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		01/10/12 09:32	01/10/12 17:30	1
Arsenic	ND		0.010		mg/L		01/10/12 09:32	01/10/12 17:30	1
<b>Barium</b>	<b>0.014</b>		0.0050		mg/L		01/10/12 09:32	01/10/12 17:30	1
Beryllium	ND		0.0020		mg/L		01/10/12 09:32	01/10/12 17:30	1
Cadmium	ND		0.0025		mg/L		01/10/12 09:32	01/10/12 17:30	1
Chromium	ND		0.010		mg/L		01/10/12 09:32	01/10/12 17:30	1
Cobalt	ND		0.0020		mg/L		01/10/12 09:32	01/10/12 17:30	1
Copper	ND		0.020		mg/L		01/10/12 09:32	01/10/12 17:30	1
Lead	ND		0.0050		mg/L		01/10/12 09:32	01/10/12 17:30	1
Molybdenum	ND		0.010		mg/L		01/10/12 09:32	01/10/12 17:30	1
Nickel	ND		0.010		mg/L		01/10/12 09:32	01/10/12 17:30	1
Selenium	ND		0.020		mg/L		01/10/12 09:32	01/10/12 17:30	1
Silver	ND		0.0050		mg/L		01/10/12 09:32	01/10/12 17:30	1
Thallium	ND		0.010		mg/L		01/10/12 09:32	01/10/12 17:30	1
Vanadium	ND		0.010		mg/L		01/10/12 09:32	01/10/12 17:30	1
<b>Zinc</b>	<b>0.025</b>		0.020		mg/L		01/10/12 09:32	01/10/12 17:30	1

# Client Sample Results

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

## Method: 7470A - Mercury (CVAA)

Client Sample ID: WASTEWATER  
Date Collected: 01/05/12 13:10  
Date Received: 01/06/12 18:10

Lab Sample ID: 720-39643-1  
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/11/12 09:08	01/11/12 14:05	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# QC Sample Results

Client: Streamborn  
 Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS

**Lab Sample ID: MB 720-105693/5**

**Matrix: Water**

**Analysis Batch: 105693**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			01/09/12 19:36	1
Acetone	ND		50		ug/L			01/09/12 19:36	1
Benzene	ND		0.50		ug/L			01/09/12 19:36	1
Dichlorobromomethane	ND		0.50		ug/L			01/09/12 19:36	1
Bromobenzene	ND		1.0		ug/L			01/09/12 19:36	1
Chlorobromomethane	ND		1.0		ug/L			01/09/12 19:36	1
Bromoform	ND		1.0		ug/L			01/09/12 19:36	1
Bromomethane	ND		1.0		ug/L			01/09/12 19:36	1
2-Butanone (MEK)	ND		50		ug/L			01/09/12 19:36	1
n-Butylbenzene	ND		1.0		ug/L			01/09/12 19:36	1
sec-Butylbenzene	ND		1.0		ug/L			01/09/12 19:36	1
tert-Butylbenzene	ND		1.0		ug/L			01/09/12 19:36	1
Carbon disulfide	ND		5.0		ug/L			01/09/12 19:36	1
Carbon tetrachloride	ND		0.50		ug/L			01/09/12 19:36	1
Chlorobenzene	ND		0.50		ug/L			01/09/12 19:36	1
Chloroethane	ND		1.0		ug/L			01/09/12 19:36	1
Chloroform	ND		1.0		ug/L			01/09/12 19:36	1
Chloromethane	ND		1.0		ug/L			01/09/12 19:36	1
2-Chlorotoluene	ND		0.50		ug/L			01/09/12 19:36	1
4-Chlorotoluene	ND		0.50		ug/L			01/09/12 19:36	1
Chlorodibromomethane	ND		0.50		ug/L			01/09/12 19:36	1
1,2-Dichlorobenzene	ND		0.50		ug/L			01/09/12 19:36	1
1,3-Dichlorobenzene	ND		0.50		ug/L			01/09/12 19:36	1
1,4-Dichlorobenzene	ND		0.50		ug/L			01/09/12 19:36	1
1,3-Dichloropropane	ND		1.0		ug/L			01/09/12 19:36	1
1,1-Dichloropropene	ND		0.50		ug/L			01/09/12 19:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/09/12 19:36	1
Ethylene Dibromide	ND		0.50		ug/L			01/09/12 19:36	1
Dibromomethane	ND		0.50		ug/L			01/09/12 19:36	1
Dichlorodifluoromethane	ND		0.50		ug/L			01/09/12 19:36	1
1,1-Dichloroethane	ND		0.50		ug/L			01/09/12 19:36	1
1,2-Dichloroethane	ND		0.50		ug/L			01/09/12 19:36	1
1,1-Dichloroethene	ND		0.50		ug/L			01/09/12 19:36	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/09/12 19:36	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			01/09/12 19:36	1
1,2-Dichloropropane	ND		0.50		ug/L			01/09/12 19:36	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			01/09/12 19:36	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			01/09/12 19:36	1
Ethylbenzene	ND		0.50		ug/L			01/09/12 19:36	1
Hexachlorobutadiene	ND		1.0		ug/L			01/09/12 19:36	1
2-Hexanone	ND		50		ug/L			01/09/12 19:36	1
Isopropylbenzene	ND		0.50		ug/L			01/09/12 19:36	1
4-Isopropyltoluene	ND		1.0		ug/L			01/09/12 19:36	1
Methylene Chloride	ND		5.0		ug/L			01/09/12 19:36	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/09/12 19:36	1
Naphthalene	ND		1.0		ug/L			01/09/12 19:36	1
N-Propylbenzene	ND		1.0		ug/L			01/09/12 19:36	1
Styrene	ND		0.50		ug/L			01/09/12 19:36	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			01/09/12 19:36	1

# QC Sample Results

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: MB 720-105693/5**

**Matrix: Water**

**Analysis Batch: 105693**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/09/12 19:36	1
Tetrachloroethene	ND		0.50		ug/L			01/09/12 19:36	1
Toluene	ND		0.50		ug/L			01/09/12 19:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/09/12 19:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/09/12 19:36	1
1,1,1-Trichloroethane	ND		0.50		ug/L			01/09/12 19:36	1
1,1,2-Trichloroethane	ND		0.50		ug/L			01/09/12 19:36	1
Trichloroethene	ND		0.50		ug/L			01/09/12 19:36	1
Trichlorofluoromethane	ND		1.0		ug/L			01/09/12 19:36	1
1,2,3-Trichloropropane	ND		0.50		ug/L			01/09/12 19:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			01/09/12 19:36	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			01/09/12 19:36	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			01/09/12 19:36	1
Vinyl acetate	ND		10		ug/L			01/09/12 19:36	1
Vinyl chloride	ND		0.50		ug/L			01/09/12 19:36	1
Xylenes, Total	ND		1.0		ug/L			01/09/12 19:36	1
2,2-Dichloropropane	ND		0.50		ug/L			01/09/12 19:36	1
Gasoline Range Organics (GRO)	ND		50		ug/L			01/09/12 19:36	1
-C5-C12									
TBA	ND		4.0		ug/L			01/09/12 19:36	1
Ethyl tert-butyl ether	ND		0.50		ug/L			01/09/12 19:36	1
DIPE	ND		0.50		ug/L			01/09/12 19:36	1
TAME	ND		0.50		ug/L			01/09/12 19:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		67 - 130		01/09/12 19:36	1
1,2-Dichloroethane-d4 (Surr)	85		75 - 138		01/09/12 19:36	1
Toluene-d8 (Surr)	98		70 - 130		01/09/12 19:36	1

**Lab Sample ID: LCS 720-105693/6**

**Matrix: Water**

**Analysis Batch: 105693**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	24.3		ug/L		97	62 - 130
Acetone	125	78.8		ug/L		63	26 - 180
Benzene	25.0	23.0		ug/L		92	79 - 120
Dichlorobromomethane	25.0	22.4		ug/L		90	70 - 130
Bromobenzene	25.0	23.8		ug/L		95	79 - 127
Chlorobromomethane	25.0	24.9		ug/L		100	70 - 130
Bromoform	25.0	23.5		ug/L		94	68 - 136
Bromomethane	25.0	24.2		ug/L		97	43 - 151
2-Butanone (MEK)	125	102		ug/L		82	54 - 124
n-Butylbenzene	25.0	23.8		ug/L		95	79 - 142
sec-Butylbenzene	25.0	23.4		ug/L		94	81 - 134
tert-Butylbenzene	25.0	23.3		ug/L		93	82 - 135
Carbon disulfide	25.0	23.0		ug/L		92	58 - 124
Carbon tetrachloride	25.0	21.9		ug/L		88	77 - 146
Chlorobenzene	25.0	23.1		ug/L		92	70 - 130
Chloroethane	25.0	23.3		ug/L		93	62 - 138

# QC Sample Results

Client: Streamborn  
 Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCS 720-105693/6**

**Matrix: Water**

**Analysis Batch: 105693**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Chloroform	25.0	21.9		ug/L		88	70 - 130
Chloromethane	25.0	23.2		ug/L		93	52 - 175
2-Chlorotoluene	25.0	23.2		ug/L		93	70 - 130
4-Chlorotoluene	25.0	22.4		ug/L		90	70 - 130
Chlorodibromomethane	25.0	23.2		ug/L		93	78 - 145
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,3-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	87 - 118
1,3-Dichloropropane	25.0	23.5		ug/L		94	75 - 124
1,1-Dichloropropene	25.0	22.1		ug/L		88	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.7		ug/L		95	72 - 136
Ethylene Dibromide	25.0	25.1		ug/L		100	70 - 130
Dibromomethane	25.0	23.3		ug/L		93	70 - 130
Dichlorodifluoromethane	25.0	20.0		ug/L		80	34 - 132
1,1-Dichloroethane	25.0	21.9		ug/L		88	70 - 130
1,2-Dichloroethane	25.0	19.1		ug/L		76	70 - 126
1,1-Dichloroethene	25.0	22.1		ug/L		88	64 - 128
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130
trans-1,2-Dichloroethene	25.0	20.1		ug/L		80	68 - 118
1,2-Dichloropropane	25.0	22.4		ug/L		90	70 - 130
cis-1,3-Dichloropropene	25.0	23.1		ug/L		92	81 - 126
trans-1,3-Dichloropropene	25.0	23.6		ug/L		94	83 - 140
Ethylbenzene	25.0	22.5		ug/L		90	84 - 120
Hexachlorobutadiene	25.0	23.3		ug/L		93	70 - 130
2-Hexanone	125	94.2		ug/L		75	60 - 164
Isopropylbenzene	25.0	23.7		ug/L		95	70 - 130
4-Isopropyltoluene	25.0	23.3		ug/L		93	70 - 130
Methylene Chloride	25.0	21.0		ug/L		84	73 - 147
4-Methyl-2-pentanone (MIBK)	125	107		ug/L		85	63 - 165
Naphthalene	25.0	25.9		ug/L		104	74 - 129
N-Propylbenzene	25.0	22.4		ug/L		90	70 - 130
Styrene	25.0	25.0		ug/L		100	70 - 130
1,1,1,2-Tetrachloroethane	25.0	24.1		ug/L		96	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	23.2		ug/L		93	70 - 130
Tetrachloroethene	25.0	23.9		ug/L		96	70 - 130
Toluene	25.0	22.9		ug/L		92	78 - 118
1,2,3-Trichlorobenzene	25.0	26.1		ug/L		104	70 - 130
1,2,4-Trichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,1,1-Trichloroethane	25.0	21.6		ug/L		86	70 - 130
1,1,2-Trichloroethane	25.0	24.2		ug/L		97	78 - 125
Trichloroethene	25.0	23.4		ug/L		94	70 - 130
Trichlorofluoromethane	25.0	22.5		ug/L		90	66 - 132
1,2,3-Trichloropropane	25.0	22.8		ug/L		91	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.1		ug/L		104	42 - 162
1,2,4-Trimethylbenzene	25.0	22.9		ug/L		92	70 - 132
1,3,5-Trimethylbenzene	25.0	23.1		ug/L		92	70 - 130
Vinyl acetate	25.0	26.2		ug/L		105	43 - 163
Vinyl chloride	25.0	23.5		ug/L		94	54 - 135
m-Xylene & p-Xylene	50.0	44.4		ug/L		89	70 - 142

# QC Sample Results

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCS 720-105693/6**

**Matrix: Water**

**Analysis Batch: 105693**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	25.0	22.9		ug/L		92	85 - 127
2,2-Dichloropropane	25.0	24.0		ug/L		96	70 - 140
TBA	500	471		ug/L		94	82 - 116
Ethyl tert-butyl ether	25.0	22.6		ug/L		90	70 - 130
DIPE	25.0	24.1		ug/L		96	69 - 134
TAME	25.0	25.6		ug/L		102	79 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	88		75 - 138
Toluene-d8 (Surr)	102		70 - 130

**Lab Sample ID: LCS 720-105693/8**

**Matrix: Water**

**Analysis Batch: 105693**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	499		ug/L		100	62 - 117

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	86		75 - 138
Toluene-d8 (Surr)	100		70 - 130

**Lab Sample ID: LCSD 720-105693/7**

**Matrix: Water**

**Analysis Batch: 105693**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	23.7		ug/L		95	62 - 130	3	20
Acetone	125	78.2		ug/L		63	26 - 180	1	30
Benzene	25.0	23.0		ug/L		92	79 - 120	0	20
Dichlorobromomethane	25.0	21.8		ug/L		87	70 - 130	3	20
Bromobenzene	25.0	24.1		ug/L		96	79 - 127	1	20
Chlorobromomethane	25.0	24.6		ug/L		98	70 - 130	1	20
Bromoform	25.0	23.4		ug/L		94	68 - 136	0	20
Bromomethane	25.0	23.6		ug/L		94	43 - 151	3	20
2-Butanone (MEK)	125	102		ug/L		81	54 - 124	1	20
n-Butylbenzene	25.0	24.4		ug/L		98	79 - 142	2	20
sec-Butylbenzene	25.0	24.0		ug/L		96	81 - 134	3	20
tert-Butylbenzene	25.0	23.9		ug/L		96	82 - 135	3	20
Carbon disulfide	25.0	23.1		ug/L		92	58 - 124	0	20
Carbon tetrachloride	25.0	21.6		ug/L		86	77 - 146	1	20
Chlorobenzene	25.0	23.5		ug/L		94	70 - 130	2	20
Chloroethane	25.0	23.2		ug/L		93	62 - 138	0	20
Chloroform	25.0	21.6		ug/L		86	70 - 130	1	20
Chloromethane	25.0	23.4		ug/L		94	52 - 175	1	20
2-Chlorotoluene	25.0	23.7		ug/L		95	70 - 130	2	20

# QC Sample Results

Client: Streamborn  
 Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCSD 720-105693/7**

**Matrix: Water**

**Analysis Batch: 105693**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	RPD Limit
							Limits	RPD		
4-Chlorotoluene	25.0	22.7		ug/L		91	70 - 130	1	20	
Chlorodibromomethane	25.0	22.5		ug/L		90	78 - 145	3	20	
1,2-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130	0	20	
1,3-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130	2	20	
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	87 - 118	0	20	
1,3-Dichloropropane	25.0	23.0		ug/L		92	75 - 124	2	20	
1,1-Dichloropropene	25.0	22.3		ug/L		89	70 - 130	1	20	
1,2-Dibromo-3-Chloropropane	25.0	22.7		ug/L		91	72 - 136	4	20	
Ethylene Dibromide	25.0	24.5		ug/L		98	70 - 130	2	20	
Dibromomethane	25.0	22.4		ug/L		90	70 - 130	4	20	
Dichlorodifluoromethane	25.0	19.8		ug/L		79	34 - 132	1	20	
1,1-Dichloroethane	25.0	21.8		ug/L		87	70 - 130	0	20	
1,2-Dichloroethane	25.0	18.5		ug/L		74	70 - 126	3	20	
1,1-Dichloroethene	25.0	22.7		ug/L		91	64 - 128	3	20	
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130	0	20	
trans-1,2-Dichloroethene	25.0	20.6		ug/L		82	68 - 118	2	20	
1,2-Dichloropropane	25.0	22.3		ug/L		89	70 - 130	0	20	
cis-1,3-Dichloropropene	25.0	22.9		ug/L		92	81 - 126	1	20	
trans-1,3-Dichloropropene	25.0	22.6		ug/L		90	83 - 140	4	20	
Ethylbenzene	25.0	22.8		ug/L		91	84 - 120	1	20	
Hexachlorobutadiene	25.0	24.0		ug/L		96	70 - 130	3	20	
2-Hexanone	125	90.1		ug/L		72	60 - 164	4	20	
Isopropylbenzene	25.0	24.1		ug/L		96	70 - 130	2	20	
4-Isopropyltoluene	25.0	23.9		ug/L		96	70 - 130	3	20	
Methylene Chloride	25.0	20.9		ug/L		84	73 - 147	0	20	
4-Methyl-2-pentanone (MIBK)	125	103		ug/L		82	63 - 165	4	20	
Naphthalene	25.0	26.0		ug/L		104	74 - 129	0	20	
N-Propylbenzene	25.0	23.1		ug/L		92	70 - 130	3	20	
Styrene	25.0	25.4		ug/L		102	70 - 130	2	20	
1,1,1,2-Tetrachloroethane	25.0	24.0		ug/L		96	70 - 130	0	20	
1,1,1,2,2-Tetrachloroethane	25.0	23.4		ug/L		94	70 - 130	1	20	
Tetrachloroethene	25.0	23.9		ug/L		96	70 - 130	0	20	
Toluene	25.0	23.4		ug/L		94	78 - 118	2	20	
1,2,3-Trichlorobenzene	25.0	26.2		ug/L		105	70 - 130	0	20	
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130	2	20	
1,1,1-Trichloroethane	25.0	21.6		ug/L		86	70 - 130	0	20	
1,1,2-Trichloroethane	25.0	23.7		ug/L		95	78 - 125	2	20	
Trichloroethene	25.0	23.7		ug/L		95	70 - 130	1	20	
Trichlorofluoromethane	25.0	22.1		ug/L		88	66 - 132	2	20	
1,2,3-Trichloropropane	25.0	22.1		ug/L		88	70 - 130	3	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.9		ug/L		104	42 - 162	1	20	
1,2,4-Trimethylbenzene	25.0	23.2		ug/L		93	70 - 132	1	20	
1,3,5-Trimethylbenzene	25.0	23.7		ug/L		95	70 - 130	3	20	
Vinyl acetate	25.0	24.6		ug/L		98	43 - 163	6	20	
Vinyl chloride	25.0	23.7		ug/L		95	54 - 135	1	20	
m-Xylene & p-Xylene	50.0	45.1		ug/L		90	70 - 142	2	20	
o-Xylene	25.0	23.2		ug/L		93	85 - 127	1	20	
2,2-Dichloropropane	25.0	23.9		ug/L		96	70 - 140	0	20	
TBA	500	475		ug/L		95	82 - 116	1	20	



# QC Sample Results

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCSD 720-105693/7**

**Matrix: Water**

**Analysis Batch: 105693**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethyl tert-butyl ether	25.0	22.5		ug/L		90	70 - 130	0	20
DIPE	25.0	23.6		ug/L		94	69 - 134	2	20
TAME	25.0	25.0		ug/L		100	79 - 129	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	84		75 - 138
Toluene-d8 (Surr)	101		70 - 130

**Lab Sample ID: LCSD 720-105693/9**

**Matrix: Water**

**Analysis Batch: 105693**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	467		ug/L		93	62 - 117	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	95		67 - 130
1,2-Dichloroethane-d4 (Surr)	82		75 - 138
Toluene-d8 (Surr)	100		70 - 130

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 720-105729/1-A**

**Matrix: Water**

**Analysis Batch: 105771**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 105729**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		01/10/12 09:23	01/10/12 16:01	1
Arsenic	ND		0.010		mg/L		01/10/12 09:23	01/10/12 16:01	1
Barium	ND		0.0050		mg/L		01/10/12 09:23	01/10/12 16:01	1
Beryllium	ND		0.0020		mg/L		01/10/12 09:23	01/10/12 16:01	1
Cadmium	ND		0.0025		mg/L		01/10/12 09:23	01/10/12 16:01	1
Chromium	ND		0.010		mg/L		01/10/12 09:23	01/10/12 16:01	1
Cobalt	ND		0.0020		mg/L		01/10/12 09:23	01/10/12 16:01	1
Copper	ND		0.020		mg/L		01/10/12 09:23	01/10/12 16:01	1
Lead	ND		0.0050		mg/L		01/10/12 09:23	01/10/12 16:01	1
Molybdenum	ND		0.010		mg/L		01/10/12 09:23	01/10/12 16:01	1
Nickel	ND		0.010		mg/L		01/10/12 09:23	01/10/12 16:01	1
Selenium	ND		0.020		mg/L		01/10/12 09:23	01/10/12 16:01	1
Silver	ND		0.0050		mg/L		01/10/12 09:23	01/10/12 16:01	1
Thallium	ND		0.010		mg/L		01/10/12 09:23	01/10/12 16:01	1
Vanadium	ND		0.010		mg/L		01/10/12 09:23	01/10/12 16:01	1
Zinc	ND		0.020		mg/L		01/10/12 09:23	01/10/12 16:01	1

# QC Sample Results

Client: Streamborn  
 Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

## Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-105729/2-A

Matrix: Water

Analysis Batch: 105771

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.00	1.04		mg/L		104	80 - 120
Arsenic	1.00	1.06		mg/L		106	80 - 120
Barium	1.00	1.08		mg/L		108	80 - 120
Beryllium	1.00	1.04		mg/L		104	80 - 120
Cadmium	1.00	0.979		mg/L		98	80 - 120
Chromium	1.00	1.02		mg/L		102	80 - 120
Cobalt	1.00	1.08		mg/L		108	80 - 120
Copper	1.00	1.02		mg/L		102	80 - 120
Lead	1.00	1.02		mg/L		102	80 - 120
Molybdenum	1.00	1.01		mg/L		101	80 - 120
Nickel	1.00	1.03		mg/L		103	80 - 120
Selenium	1.00	1.01		mg/L		101	80 - 120
Silver	0.500	0.533		mg/L		107	80 - 120
Thallium	1.00	1.02		mg/L		102	80 - 120
Vanadium	1.00	0.975		mg/L		98	80 - 120
Zinc	1.00	1.08		mg/L		108	80 - 120

Lab Sample ID: LCSD 720-105729/3-A

Matrix: Water

Analysis Batch: 105771

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105729

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	1.00	1.03		mg/L		103	80 - 120	1	20
Arsenic	1.00	1.06		mg/L		106	80 - 120	1	20
Barium	1.00	1.06		mg/L		106	80 - 120	2	20
Beryllium	1.00	1.02		mg/L		102	80 - 120	2	20
Cadmium	1.00	0.967		mg/L		97	80 - 120	1	20
Chromium	1.00	0.996		mg/L		100	80 - 120	2	20
Cobalt	1.00	1.07		mg/L		107	80 - 120	1	20
Copper	1.00	0.997		mg/L		100	80 - 120	2	20
Lead	1.00	1.01		mg/L		101	80 - 120	1	20
Molybdenum	1.00	1.00		mg/L		100	80 - 120	1	20
Nickel	1.00	1.02		mg/L		102	80 - 120	1	20
Selenium	1.00	0.991		mg/L		99	80 - 120	2	20
Silver	0.500	0.523		mg/L		105	80 - 120	2	20
Thallium	1.00	1.01		mg/L		101	80 - 120	1	20
Vanadium	1.00	0.952		mg/L		95	80 - 120	2	20
Zinc	1.00	1.07		mg/L		107	80 - 120	1	20

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-105808/1-A

Matrix: Water

Analysis Batch: 105834

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105808

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/11/12 09:08	01/11/12 13:06	1

# QC Sample Results

Client: Streamborn  
 Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

## Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-105808/2-A

Matrix: Water

Analysis Batch: 105834

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105808

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0100	0.00932		mg/L		93	85 - 115

Lab Sample ID: LCSD 720-105808/3-A

Matrix: Water

Analysis Batch: 105834

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105808

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0100	0.0102		mg/L		102	85 - 115	9	20



# QC Association Summary

Client: Streamborn  
 Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

## GC/MS VOA

### Analysis Batch: 105693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-39643-1	WASTEWATER	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-105693/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-105693/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-105693/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-105693/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-105693/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

## Metals

### Prep Batch: 105729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-39643-1	WASTEWATER	Total/NA	Water	3010A	
LCS 720-105729/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 720-105729/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 720-105729/1-A	Method Blank	Total/NA	Water	3010A	

### Analysis Batch: 105771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-105729/2-A	Lab Control Sample	Total/NA	Water	6010B	105729
LCSD 720-105729/3-A	Lab Control Sample Dup	Total/NA	Water	6010B	105729
MB 720-105729/1-A	Method Blank	Total/NA	Water	6010B	105729

### Analysis Batch: 105776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-39643-1	WASTEWATER	Total/NA	Water	6010B	105729

### Prep Batch: 105808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-39643-1	WASTEWATER	Total/NA	Water	7470A	
LCS 720-105808/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 720-105808/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
MB 720-105808/1-A	Method Blank	Total/NA	Water	7470A	

### Analysis Batch: 105834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-39643-1	WASTEWATER	Total/NA	Water	7470A	105808
LCS 720-105808/2-A	Lab Control Sample	Total/NA	Water	7470A	105808
LCSD 720-105808/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	105808
MB 720-105808/1-A	Method Blank	Total/NA	Water	7470A	105808

# Certification Summary

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

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Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

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Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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# Method Summary

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL SF
6010B	Metals (ICP)	SW846	TAL SF
7470A	Mercury (CVAA)	SW846	TAL SF

**Protocol References:**

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

**Laboratory References:**

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



# Sample Summary

Client: Streamborn  
Project/Site: 4401 Market Street Oakland, CA

TestAmerica Job ID: 720-39643-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-39643-1	WASTEWATER	Water	01/05/12 13:10	01/06/12 18:10

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720-39643

135833

Streamborn  
Chain-of-Custody Form

Project Name: 4401 Market Street	Project Location: 4401 Market Street, Oakland CA	Project Number: P257
Sampler: Kevin R Wildenberg	Laboratory: TestAmerica	Laboratory Number: 925-484-1919

Sample Designation	Depth (feet)	Date	Time	Matrix			Type	Containers		Preservative (in addition to ice)	Turnaround			Analyses			Sampler Comments	Laboratory Comments
				Soil	Water	Vapor	Grab	Composite	Quantity		Type	24 Hour	5 Working Days	10 Working Days	TPH-gasoline/BTEX/fuel oxygenates	VOCs (EPA 8260)		
Wastewater	—	05-Jan-12	1:10		X		X	4	40 mL VOA	HCl			X	X	X		4 subsamples	
Wastewater	—	05-Jan-12	1:10		X		X	1	250 mL Poly	HNO3			X		X		4 subsamples	
Subsamples were collected from the drummed wastewater from groundwater sampling. The subsamples were composited in field.																		

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: 1-6-12	Time: 6:30
Relinquished By: <i>[Signature]</i>	Received By: <i>[Signature]</i>	Date: 1-6-12	Time: 8:10

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? No	Streamborn Logcode: SBA	Global ID: T0600100430
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## Login Sample Receipt Checklist

Client: Streamborn

Job Number: 720-39643-1

**Login Number: 39643**

**List Source: TestAmerica San Francisco**

**List Number: 1**

**Creator: Mullen, Joan**

Question	Answer	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	
Is the Field Sampler's name present on COC?	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	
Sample Preservation Verified.	N/A	
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



## **ATTACHMENT 9**

Documentation Regarding Disposal of  
Waste Soil and Wastewater

When completed, please Fax to (909) 421-7103		Profile Acceptance #	
<b>Filter Recycling Services, Inc.</b>		Date:	
<b>P.O. Box 449 - Colton, California 92324</b>		Authorized By:	
<b>A. Generator Information</b>		<u>Household</u>	<u>CESQG</u>
<b>Generator Name:</b> Casimiro Damele		<b>Mailing/Manifest Address:</b>	
<b>Site Address:</b> 4401 Market Street		PO Box 8330	
<b>City, State, Zip</b> Oakland, CA 94608		Berkeley, CA 94707	
<b>U.S. E.P.A. ID #:</b> NA		<b>S.I.C. Code:</b>	
<b>Technical Contact:</b> Terry Hoehne		<b>Title:</b> Sales Manager	
<b>Phone Number:</b> 650.588.2838		<b>Fax Number:</b> 650.588.1950	
<b>Name of Waste:</b> Water		<b>Address PO Box 2148</b>	
<b>Process Generating the Waste:</b> Site assessment from LUFT		<b>City/State: SSF, CA 94083</b>	
		<b>Contact: Terry Hoehne</b>	
		<b>Phone: 650.588.2838</b>	
		<b>Fax: 650.588.1950</b>	


**D. Characteristics** ATTACH ANY MSDS and ANALYTICAL THAT HAS BEEN PERFORMED

<u>Color</u>	<u>Odor</u>		<u>Physical State @ 70*</u>		<u>Layers</u>		<u>Free Liquids</u>		<u>E. Metals</u>					
clear	X	None	X	Liquid		Multi-layered		No	X	None		TCLP (MG/L)	Totals (ppm)	
<u>BTU/LB</u>		Mild		Semi-Solid		Bi-layered	X	Yes	Arsenic		Selenium			
0		Strong		Solid	X	Single Layered	100	0%	Barium		Silver			
<u>Flash Point</u>			140 - 200° F			<u>Density</u>			Cadmium		Copper			
< 70° F			> 200° F			Lbs/Gal		8.4		Chromium		Nickel		
70-100° F			X	No Flash	Lbs/Ft				Lead		Zinc			
101-139° F			Exact			API Gravity				Mercury		Cyanides		

<u>pH Range</u>		<u>F. Physical/Chemical Composition</u>			<u>G. Shipping Information</u>								
≤ 2		Water			100		% Proper Shipping Name: Water, non-hazardous waste solid						
2.1- 4							% Hazard Class						
X	4.1- 10						% UN/NA #:						
10.1- 12.4							% State Code:						
≥ 12.5							% RCRA Hazardous						
Exact		<u>TOTAL (should = 100%)</u>					% EPA Code:						
							% Yes X No						
							% Volume: 4 x 55 gal.						
							% One-Time						
<u>Bulk Liquids</u>		<u>Bulk Solids</u>		X	<u>Drum(s)</u>		X	<u>Drums</u>		<u>Boxes/ Sacks</u>		<u>Monthly</u>	
<u>Method of Shipment</u>								<u>Gallons</u>		<u>Yards</u>		X	<u>Annually</u>

**H. Special Handling Information:**

Generator of this waste certifies, that the information above is true and accurate. The determination of this waste stream was derived by state certified analysis and/or generator knowledge. If the physical or chemical composition(s) of the waste stream changes, the generator will notify Filter Recycling Services Inc. prior to shipment. The generator is solely responsible for the disposal of any material that may be delivered to Filter Recycling Services, Inc. that is not disclosed in the above profile.

**Signature:**  **Printed Name:** Terry Hoehne **Title:** Sales Manager **Date:** 2/10/12

When completed, please Fax to (909) 421-7103		Profile Acceptance #	
<b>Filter Recycling Services, Inc.</b> <b>P.O. Box 449 - Colton, California 92324</b>		Date:	
		Authorized By:	
<b>A. Generator Information</b>		<u>Household</u>	<u>CESQG</u>
		<u>Check if applicable</u>	<b>B. FRS Sales Representative:</b>
Generator Name:	Casimiro Damele	Mailing/Manifest Address:	Name:
Site Address:	4401 Market Street	PO Box 8330	Phone #
City, State, Zip	Oakland, CA 94608	Berkeley, CA 94707	<b>C. Broker Information:</b>
U.S. E.P.A. ID #:	NA	S.I.C. Code:	Name: North State
Technical Contact:	Terry Hoehne	Title: Sales Manager	Address PO Box 2148 City/State: SSF, CA 94083
Phone Number:	650.588.2838	Fax Number: 650.588.1950	Contact: Terry Hoehne
Name of Waste:	Soil		Phone: 650.588.2838
Process Generating the Waste:	Site assessment from LUFT/well destruction		Fax: 650.588.1950


**D. Characteristics** ATTACH ANY MSDS and ANALYTICAL THAT HAS BEEN PERFORMED

<u>Color</u>	<u>Odor</u>		<u>Physical State @ 70*</u>	<u>Layers</u>		<u>Free Liquids</u>		<u>E. Metals</u>				
Brown	X	None	Liquid		Multi-layered	X	No	X	None		TCLP (MG/L)	Totals (ppm)
<u>BTU/LB</u>		Mild	Semi-Solid		Bi-layered		Yes	Arsenic		Selenium		
0		Strong	X Solid	X	Single Layered		%	Barium		Silver		
<u>Flash Point</u>			140 – 200° F		<u>Density</u>		Cadmium		Copper			
< 70° F			> 200° F		Lbs/Gal		Chromium		Nickel			
70-100° F			X	No Flash	Lbs/Ft		80		Lead		Zinc	
101-139° F				Exact	API Gravity		Mercury		Cyanides			

<u>pH Range</u>	<u>F. Physical/Chemical Composition</u>			<u>G. Shipping Information</u>				
≤ 2	Soil	100	%	Proper Shipping Name: Soil, non-hazardous waste solid				
2.1- 4			%	Hazard Class				
X 4.1- 10			%	UN/NA #:		State Code:		EPA Code:
10.1- 12.4			%	RCRA Hazardous		Yes	X	No
≥ 12.5			%	Volume: 12 x 55 gal.				One-Time
Exact	<u>TOTAL (should = 100%)</u>		%	X	Drums	Boxes/ Sacks	Monthly	
<u>Bulk Liquids</u>	<u>Bulk Solids</u>	X	<u>Drum(s)</u>		Gallons	Yards	X	Annually

**H. Special Handling Information:**

Generator of this waste certifies, that the information above is true and accurate. The determination of this waste stream was derived by state certified analysis and/or generator knowledge. If the physical or chemical composition(s) of the waste stream changes, the generator will notify Filter Recycling Services Inc. prior to shipment. The generator is solely responsible for the disposal of any material that may be delivered to Filter Recycling Services, Inc. that is not disclosed in the above profile.

Signature: 	Printed Name: Terry Hoehne	Title: Sales Manager	Date: 2/10/12
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# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <span style="float: right;">00249</span>	Manifest Document No. <span style="float: right;">1</span> <b>N800249</b>	2. Page 1 of
3. Generator's Name and Mailing Address <b>CASIMIRO DAMELE</b> P.O. BOX 8330 BERKELEY CA 94707 510-528-4234		N/A Site Address <b>4401 MARKET STREET</b> OAKLAND CA 94608		0539
4. Generator's Phone ( )		6. Carrier's EPA ID Number <b>CA R 06086</b>	A. State Transporter's ID	
5. Transporter 1 Company Name <b>NORTH STATE ENVIRONMENTAL</b>		B. Transporter 1 Phone <b>650-588-2838</b>		
7. Transporter 2 Company Name <b>Environmental Logistics, Inc.</b>		8. Carrier's EPA ID Number <b>CA R 07513</b>	C. State Transporter's ID <b>(510) 670-9901</b>	
8. State and Facility Name and Site Address <b>Richmond Facility Management Services, Inc.</b> 180 West Monte BLOOMINGTON CA 92316		9. Carrier's EPA ID Number <b>CA D 04481</b>	D. Transporter 2 Phone	
		E. State Facility's ID		
		F. Facility's Phone <b>(800) 698-4377</b>		
11. WASTE DESCRIPTION		12. Containers	13. Total Quantity	14. Unit WL/Vol.
a. NON-HAZARDOUS WASTE LIQUID (WATER)		No. Type		
		04 DM	0220	G
b. NON-HAZARDOUS WASTE SOLID (SOIL)				
		01 DM	0150	P
c.				
d.				
6. Additional Descriptions for Materials Listed Above <b>MR. WILDENBERG (510) 520-3277</b>		Emergency Contact:		H. Handling Codes for Wastes Listed Above
Trans 1 address: 220 SO. SPRUCE AVE. #200, , SO SAN FRANCISCO, CA 9				a: 4X55 b: 1X55
Trans 2 address:				c: d:
15. Spill/Leak Instructions and Additional Information 2 12012309				
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.				
Printed/Typed Name <b>MICHAEL KAMINSKI</b>		Signature <i>Michael Kaminski</i>		Date Month Day Year <b>03 06 12</b>
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name <b>Tommy Mattenei</b>		Signature <i>Tommy Mattenei</i>		Date Month Day Year <b>03 06 12</b>
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name <b>CHRIS WHITT</b>		Signature <i>Chris Whitt</i>		Date Month Day Year <b>3 6 12</b>
19. Discrepancy Indication Space				
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				
Printed/Typed Name		Signature		Date Month Day Year

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <span style="float: right;">0 0 2 4 9</span>		Manifest Document No. <span style="font-size: 2em; color: purple;">N800249</span>		2. Page 1 of 1	
3. Generator's Name and Mailing Address <b>CASTIMIRO DAMELE</b> P.O. BOX 8330 BERKELEY CA 94707 510-528-4234		Site Address 4401 MARKET STREET OAKLAND CA 94608		0539			
4. Generator's Phone ( )		5. Transporter 1 Company Name <b>NORTH STATE ENVIRONMENTAL</b>		6. CERCLA ID Number 06086		A. State Transporter's ID <del>650-588-2838</del>	
7. Transporter 2 Company Name <b>Environmental Logistics, Inc.</b>		8. CERCLA ID Number 017513		C. State Transporter's ID <del>(510) 670-9901</del>		B. Transporter 1 Phone	
9. Designated Receiving Facility Name <b>Filter Recycling Services, Inc.</b>		10. CERCLA ID Number 044481		D. Transporter 2 Phone		E. State Facility's ID	
11. WASTE DESCRIPTION		12. Containers		13. Total Quantity		14. Unit Wt./Vol.	
a. NON-HAZARDOUS WASTE LIQUID (WATER)		No. 04 Type DM		0220		G	
b. NON-HAZARDOUS WASTE SOLID (SOIL)		No. 01 Type DM		0150		P	
c.							
d.							
MR. Address: <b>WILDENBERG</b> (510) 520-3277 <b>Emergency Contact:</b>				H. Handling Codes for Wastes Listed Above			
Trans 1 address: 220 SO. SPRUCE AVE. #200, , SO SAN FRANCISCO, CA 9				a: 4x55 b: 1x55			
Trans 2 address:				c: d:			
15. Special Handling Instructions and Additional Information <div style="text-align: center; border: 1px solid black; padding: 5px;">                 FILTER RECYCLING SERVICES' RIALTO FACILITY, EPA #CAD982444481 HAS THE APPROPRIATE PERMIT(S) FOR AND WILL ACCEPT THIS WASTE AS SHIPPED.             </div> <span style="float: right; font-size: 2em; color: purple;">13521N</span>							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name		Signature		Date			
<b>Michael Kaminski</b>		<i>[Signature]</i>		03/06/12			
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Date	
		<b>Tony Mattenci</b>		<i>[Signature]</i>		03/06/12	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Date	
		<b>Chris Witt</b>		<i>[Signature]</i>		3/6/12	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name		Signature		Date			
<b>Steve Masters</b>		<i>[Signature]</i>		3/9/12			

NON-HAZARDOUS WASTE GENERATOR



**ATTACHMENT 10**

DWR-188s

## Note

Figures associated with each DWR-188 that appear earlier in this report have not been duplicated in this attachment.



**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

**STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)**

**REMOVED**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

# **ATTACHMENT 11**

Request to Rescind Encroachment Permits



## Note

This attachment presents an incomplete copy of the document sent to the City of Oakland. This attachment does not contain (1) the most recent groundwater monitoring report and (2) the report documenting decommissioning/abandonment of the wells.

City of Oakland  
Community & Economic Development Agency (CEDA)  
250 Frank H. Ogawa Plaza, Suite 2340  
Oakland CA 94612

9 March 2012

Project No. P257

Request to Rescind Encroachment Permits ENMI00033 and ENMI97046  
4401 Market Street  
Oakland CA

To whom it may concern:

The monitoring wells associated with encroachment permits ENMI00033 and ENMI97046, located in the roadway of 44<sup>th</sup> street near the subject property, have been properly decommissioned/abandoned. On behalf of the property owner/responsible party, Casimiro Damele, we request the encroachment permits be rescinded.

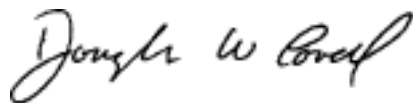
Please find attached the following items:

- Alameda County Health Care Services Agency Well Destruction Application Approval letter.
- Alameda County Public Works Agency Permit to decommission/abandon wells.
- The most recent groundwater monitoring report.
- The report documenting decommissioning/abandonment of the wells.
- Site maps showing the well locations, along with dimensions to identifiable landmarks.
- A check in the amount of \$382.12 for the fee associated with rescission of the encroachment permits.

Please contact us with any questions or comments.

Sincerely,

STREAMBORN



Douglas W. Lovell, PE  
Geoenvironmental Engineer

Attachments

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

Casimiro Damele/Property Owner and Responsible Party, Oakland CA (hardcopy)



ENVIRONMENTAL HEALTH DEPARTMENT  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

September 3, 2010

Casimiro Damele  
3750 Victor Avenue  
Oakland, CA 94619

Subject: Monitoring Well Destruction for Fuel Leak Case No. RO0000132 and GeoTracker  
Global ID T0600100430, ARCO, 4401 Market Street, Oakland, CA 94608

Dear Mr. Damele:

Final approval of a case closure for the underground storage tank investigation at the subject site is almost complete. A case summary report proposing closure has been forwarded to the Regional Water Quality Control Board (RWQCB) for their thirty (30) day review period. The RWQCB has until Monday, October 4, 2010 to comment on the proposed closure action. Following the thirty (30) day review period and if no comments opposing closure are received, the monitoring wells installed at the site must be properly destroyed, per California Water Code, prior to issuance of a remedial action completion certificate.

ACEH requests that you address the following technical comments, perform the proposed work, and send us the technical reports requested below. Upon receipt of the requested documents a remedial action completion certificate will be sent to the responsible party.

#### **TECHNICAL COMMENTS**

1. **Monitoring Well Destruction** – ACEH is requesting that you contact Alameda County Public Works Agency at (510) 567-6791, obtain the necessary permits, destroy the wells, and electronically upload the monitoring well destruction report to ACEH's FTP server and the State Water Resources Control Board's GeoTracker website within ninety (90) days from the date of this letter (December 2, 2010). Electronic reporting is described in detail below.

#### **NOTIFICATION OF FIELDWORK ACTIVITIES**

Please schedule and complete the fieldwork activities by the date specified below and provide ACEH with at least three (3) business days notification prior to conducting the fieldwork.

**TECHNICAL REPORT REQUEST**

Please submit technical reports to ACEH (Attention: Paresh Khatri), according to the following schedule:

- **December 2, 2010** – Monitoring Well Destruction Report

Thank you for your cooperation. Should you have any questions or concerns regarding this correspondence or your case, please call me at (510) 777-2478 or send me an electronic mail message at [paresh.khatri@acgov.org](mailto:paresh.khatri@acgov.org).

Sincerely,

Paresh C. Khatri  
Hazardous Materials Specialist

Enclosure: Responsible Party(ies) Legal Requirements/Obligations  
ACEH Electronic Report Upload (ftp) Instructions

cc: Douglas Lovell, Streamborn, P.O. Box 8330, Berkeley, CA 94707-8330 (*Sent via E-mail to: [doug\\_lovell@streamborn.com](mailto:doug_lovell@streamborn.com)*)  
Juli Brady, Streamborn, P.O. Box 8330, Berkeley, CA 94707-8330 (*Sent via E-mail to: [juli@streamborn.com](mailto:juli@streamborn.com)*)  
Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 (*Sent via E-mail to: [lgriffin@oaklandnet.com](mailto:lgriffin@oaklandnet.com)*)  
Donna Drogos, ACEH (*Sent via E-mail to: [donna.drogos@acgov.org](mailto:donna.drogos@acgov.org)*)  
Paresh Khatri, ACEH (*Sent via E-mail to: [paresh.khatri@acgov.org](mailto:paresh.khatri@acgov.org)*)  
GeoTracker  
File

## Responsible Party(ies) Legal Requirements/Obligations

### REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

### ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and [other](#) data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements ([http://www.swrcb.ca.gov/ust/electronic\\_submittal/report\\_rqmts.shtml](http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml)).

### PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "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." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

### PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

### UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

### AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

<b>Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)</b>	<b>REVISION DATE:</b> July 20, 2010
	<b>ISSUE DATE:</b> July 5, 2005
	<b>PREVIOUS REVISIONS:</b> October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
<b>SECTION:</b> Miscellaneous Administrative Topics & Procedures	<b>SUBJECT:</b> Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

## REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection.**
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:  
RO#\_Report Name\_Year-Month-Date (e.g., RO#5555\_WorkPlan\_2005-06-14)

## Submission Instructions

- 1) Obtain User Name and Password:
  - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
    - i) Send an e-mail to [dehloptoxic@acgov.org](mailto:dehloptoxic@acgov.org)
  - b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
  - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
    - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site.
  - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
  - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
  - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
  - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
  - a) Send email to [dehloptoxic@acgov.org](mailto:dehloptoxic@acgov.org) notify us that you have placed a report on our ftp site.
  - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
  - c) The subject line of the e-mail must start with the RO# followed by **Report Upload.** (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
  - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

# Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street  
Hayward, CA 94544-1395  
Telephone: (510)670-6633 Fax:(510)782-1939

**Application Approved on: 12/16/2011 By jamesy**

**Permit Numbers: W2011-0767 to W2011-0773**  
**Permits Valid from 01/05/2012 to 01/05/2012**

**Application Id:** 1323988689040  
**Site Location:** 4401 Market St, Oakland, CA  
**Project Start Date:** 12/27/2011  
**Assigned Inspector:** Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org  
**Extension Start Date:** 01/05/2012  
**Extension Count:** 1

**City of Project Site:** Oakland

**Completion Date:** 12/27/2011  
**Extension End Date:** 01/05/2012  
**Extended By:** vickyh1

**Applicant:** Streamborn - Kevin Wildenberg  
PO Box 8330, Berkeley, CA 94707  
**Property Owner:** Casimiro Damele  
3750 Victor Ave, Oakland, CA 94619  
**Client:** \*\* same as Property Owner \*\*

**Phone:** 510-528-4234

**Phone:** 510-531-0778

<b>Receipt Number: WR2011-0376</b>	<b>Total Due:</b> \$2779.00	
<b>Payer Name : Streamborn</b>	<b>Total Amount Paid:</b> \$2779.00	
	<b>Paid By:</b> CHECK	<b>PAID IN FULL</b>

**Works Requesting Permits:**

Well Destruction-Monitoring - 7 Wells

Driller: Cascade - Lic #: 938110 - Method: Scond

**Work Total: \$2779.00**

**Specifications**

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2011-0767	12/16/2011	03/26/2012	MW1	8.00 in.	2.00 in.	17.00 ft	24.60 ft	No Records	94569	No Records
W2011-0768	12/16/2011	03/26/2012	MW2	8.00 in.	2.00 in.	17.00 ft	24.60 ft	No Records	94569	No Records
W2011-0769	12/16/2011	03/26/2012	MW3	8.00 in.	2.00 in.	17.00 ft	24.60 ft	No Records	94569	No Records
W2011-0770	12/16/2011	03/26/2012	MW4	8.00 in.	2.00 in.	8.00 ft	24.50 ft	No Records	W00-667	No Records
W2011-0771	12/16/2011	03/26/2012	MW5	8.00 in.	2.00 in.	8.00 ft	24.90 ft	No Records	W00-673	No Records
W2011-0772	12/16/2011	03/26/2012	MW6	8.00 in.	2.00 in.	8.00 ft	24.80 ft	No Records	W00-677	No Records
W2011-0773	12/16/2011	03/26/2012	MW7	8.00 in.	2.00 in.	8.00 ft	24.60 ft	No Records	W00675	No Records

**Specific Work Permit Conditions**

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

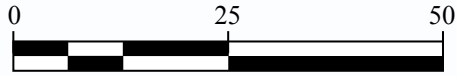
2. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the

## Alameda County Public Works Agency - Water Resources Well Permit

permits and requirements have been approved or obtained.

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.
  4. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
  5. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.
  6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
  7. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
  8. Remove the Christy box or similar structure. Destroy wells MW-2, MW-4, MW-5 and MW-6 by overdrilling upper 5 ft. bgs & Tremie Grouting with Cement. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.
  9. Remove the Christy box or similar structure. Destroy wells MW-1, MW-3 and MW-7 by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.
  10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
-

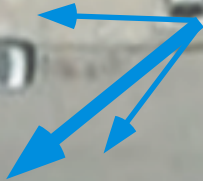




Approximate Scale in Feet

Basemap: Google Earth, downloaded Nov 2009. Google Earth imagery dated Jun 2007. Locations of former underground tanks and pump island from W.A. Craig report dated 1994.

Large arrow represents the average measured groundwater gradient: Direction = N 119° W. Magnitude = 0.01. Small arrows represent the range in the measured direction of groundwater gradient.



44th Street

George's Auto Repair  
4401 Market Street  
Oakland CA 94608-3423  
APN 13-1087-4

Former pump island

MW1

MW3

MW2

MW4

MW5

MW6

903 44th Street  
(residential)

MW7

Market Street

Legend



Former monitoring well



Former underground tank



Approximate limits of soil excavation during tank removal

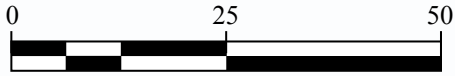
© 2009 Google  
© 2009 Europa Technologies

lat 37.833785° lon -122.273329° elev

Figure 1

Site Map

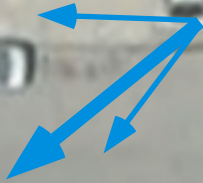
4401 Market Street  
Oakland CA



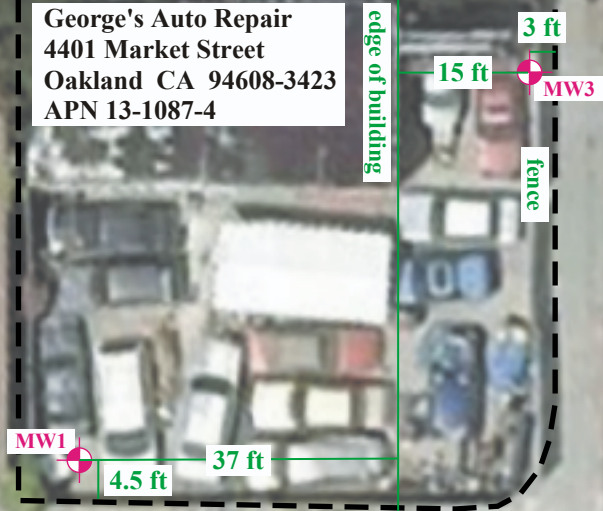
Approximate Scale in Feet

Basemap: Google Earth, downloaded Nov 2009. Google Earth imagery dated Jun 2007. Locations of former underground tanks and pump island from W.A. Craig report dated 1994.

Large arrow represents the average measured groundwater gradient: Direction = N 119° W. Magnitude = 0.01. Small arrows represent the range in the measured direction of groundwater gradient.



George's Auto Repair  
4401 Market Street  
Oakland CA 94608-3423  
APN 13-1087-4



44th Street

curb

curb

curb

903 44th Street  
(residential)

edge of building

Market Street

edge of building

17 ft

2 ft

fence

3 ft

3 ft

3 ft

3 ft

3 ft

3 ft

24 ft

47 ft

75 ft

© 2009 Google

© 2009 Europa Technologies

lat 37.833785° lon -122.273329° elev

Legend

Former monitoring well

Figure 2

Dimensioned Locations of the Wells

4401 Market Street  
Oakland CA

**STREAMBORN**

P.O. BOX 8330  
BERKELEY, CA 94707  
510-528-4234



JPMorgan Chase Bank, N.A.  
1870 Solano Ave.  
Berkeley, CA 94707  
www.Chase.com

90-7162-3222

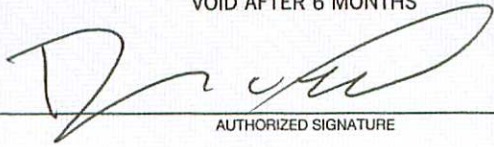
PAY Three Hundred Eighty-Two and 12/100 Dollars

DATE  
2/29/12

AMOUNT  
\$382.12

TO THE ORDER OF: City of Oakland, Comm & Econ Dev, Permit Services  
250 Frank H. Ogawa Plaza, Second Floor  
Oakland, CA 94612

VOID AFTER 6 MONTHS

  
AUTHORIZED SIGNATURE

Memo: Rescind encroachment permits ENMI00033 & ENMI97046.  
P257.

⑈00010484⑈ ⑆322271627⑆ 4953794463⑈

STREAMBORN P.O. BOX 8330 BERKELEY, CA 94707

10484

City of Oakland, Comm & Econ Dev, Permit 10484 2/29/12 \$382.12

Rescind encroachment permits ENMI00033 & ENMI97046. P257.  
Account Detail: 5-1000 Project Vendors, Subs, Exp \$382.12

STREAMBORN P.O. BOX 8330 BERKELEY, CA 94707

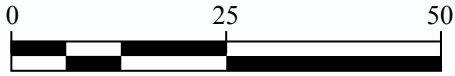
10484

City of Oakland, Comm & Econ Dev, Permit 10484 2/29/12 \$382.12

Rescind encroachment permits ENMI00033 & ENMI97046. P257.  
Account Detail: 5-1000 Project Vendors, Subs, Exp \$382.12

## **ATTACHMENT 12**

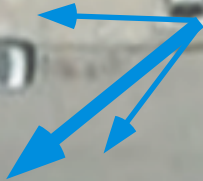
Dimensioned Locations of Monitoring Wells



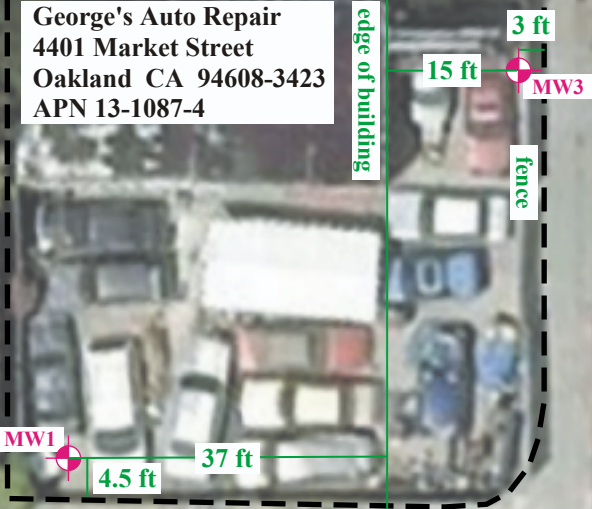
Approximate Scale in Feet

Basemap: Google Earth, downloaded Nov 2009. Google Earth imagery dated Jun 2007. Locations of former underground tanks and pump island from W.A. Craig report dated 1994.

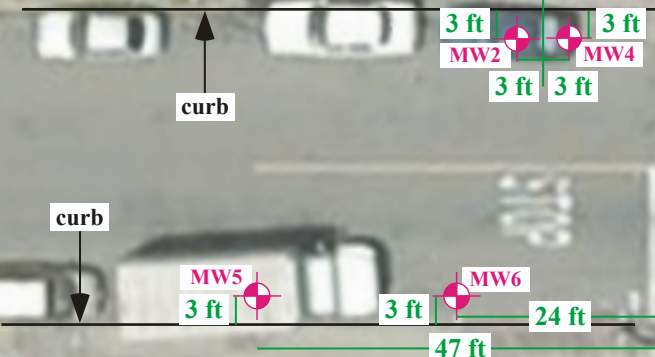
Large arrow represents the average measured groundwater gradient: Direction = N 119° W. Magnitude = 0.01. Small arrows represent the range in the measured direction of groundwater gradient.



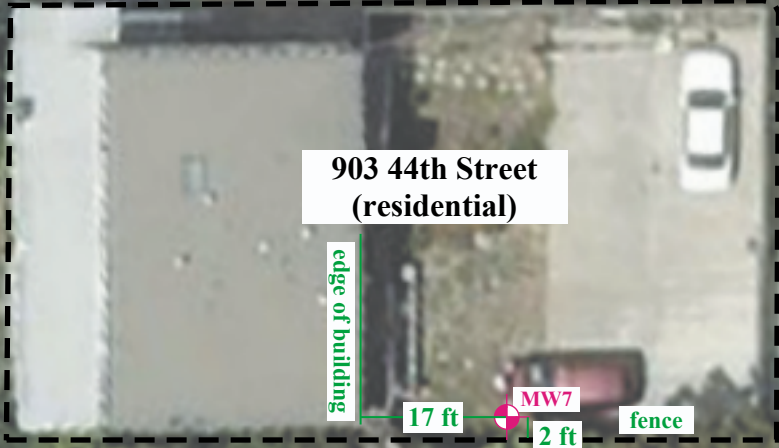
George's Auto Repair  
4401 Market Street  
Oakland CA 94608-3423  
APN 13-1087-4



44th Street



903 44th Street  
(residential)



Market Street

75 ft

© 2009 Google  
© 2009 Europa Technologies

lat 37.833785° lon -122.273329° elev

Legend

Former monitoring well

Dimensioned Locations of the Wells

4401 Market Street  
Oakland CA