

RECEIVED

10:10 am, Oct 20, 2011

Alameda County Environmental Health

Groundwater Monitoring Report
Fall 2010 Semiannual Sampling Event
Municipal Service Center
7101 Edgewater Drive
Oakland, California

October 19, 2011 LC010060.0013

Prepared for: City of Oakland, Public Works Agency Environmental Services Division 250 Frank H. Ogawa Plaza, Suite 5301 Oakland, California



October 19, 2011 LC010060.0013

Mr. Gopal Nair City of Oakland, Public Works Department Environmental Sciences Division 250 Frank H. Ogawa Plaza, Suite 5301 Oakland, California 94612

Subject: Groundwater Monitoring Report, Fall 2010 Semiannual Sampling Event, Municipal

Service Center, 7101 Edgewater Drive, Oakland, California

Dear Mr. Nair:

ARCADIS U.S., Inc. (ARCADIS) is pleased to present this report summarizing data collected during the Fall 2010 semiannual groundwater monitoring event at the Municipal Service Center, located at 7101 Edgewater Drive in Oakland, California ("the Site"). These activities were performed in a manner consistent with previous sampling events conducted at the Site.

If you have any questions regarding this report, please call me at (510) 596-9536.

Sincerely,

Charles H. Pardini, P.G. (6444)

Vice President, Principal Geologist

Attachment

CONTENTS

| CEI | RTIFICATION | III |
|-----|---|-----|
| 1.0 | INTRODUCTION | 1 |
| 2.0 | SITE BACKGROUND AND CORRECTIVE ACTION MEASURES | 1 |
| 3.0 | FALL 2010 SEMIANNUAL MONITORING ACTIVITIES | 2 |
| | 3.1 Field Activities | 2 |
| | 3.2 Sample Analyses | 3 |
| 4.0 | MONITORING RESULTS | 4 |
| | 4.1 Shallow Groundwater Topography | 4 |
| | 4.2 Occurrence of Separate-Phase Hydrocarbons | 4 |
| | 4.3 Contaminant Distribution in Groundwater | 5 |
| | 4.3.1 Screening Criteria | 5 |
| | 4.3.2 Benzene | 6 |
| | 4.3.3 Toluene | 6 |
| | 4.3.4 Ethylbenzene | 7 |
| | 4.3.5 Total Xylenes | 7 |
| | 4.3.6 MTBE | 7 |
| | 4.3.7 TPHg | 7 |
| | 4.3.8 TPHd | 8 |
| | 4.3.9 TPHmo | 8 |
| | 4.3.10TPHk | 8 |
| | 4.4 Laboratory Analysis | 9 |
| 5.0 | LABORATORY QUALITY ASSURANCE AND QUALITY CONTROL | 9 |
| | 5.1 Method Holding Times | 9 |
| | 5.2 Blanks | 9 |
| | 5.3 Laboratory Control Samples | 9 |
| | 5.4 Surrogates | 10 |
| | 5.5 False-Positive Petroleum Hydrocarbon Identification | 10 |

| 6.0 CONCLUSIONS AND RECOMMENDATIONS |
|--|
| 7.0 LIMITATIONS |
| 8.0 SELECTED REFERENCES 12 |
| TABLE |
| 1 Summary of Groundwater Analytical Data, Petroleum Hydrocarbons |
| FIGURES |
| 1 Site Vicinity Map |
| 2 Groundwater Elevation Contour Map and Hydrocarbon Concentrations in Shallow Groundwater, October 2010 |
| 3 Detail Plume Map, October 2010 |
| A DDENIDICEG |

APPENDICES

- A City of Oakland MSC Schedule and Protocol
- B Groundwater Sampling Field Data Sheets
- C Laboratory Results and Chain-of-Custody Documentation
- D Historical Tables

CERTIFICATION

All hydrogeologic and geologic information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by an ARCADIS U.S., Inc., California Professional Geologist.*

Charles H. Pardini Principal Geologist

California Professional Geologist (6444)

Judun

october 19, 2011

^{*} A professional geologist's certification of conditions comprises a declaration of his or her professional judgment. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations, and ordinances.

1.0 INTRODUCTION

This report presents the results of the Fall 2010 semiannual groundwater monitoring event conducted on October 19, 2010 ("the current monitoring event") at the Municipal Service Center (MSC), located at 7101 Edgewater Drive in Oakland, California ("the Site"; Figure 1). ARCADIS U.S., Inc. (ARCADIS) conducted monitoring activities at the Site in accordance with Assignment No. G08-LFR-08.

This report summarizes the monitoring activities conducted during the current monitoring event as well as the analytical results, distribution of contaminants in groundwater, conclusions, and recommendations. Also discussed are the anticipated annual monitoring activities to be performed in Fall 2011.

2.0 SITE BACKGROUND AND CORRECTIVE ACTION MEASURES

Eighteen 2-inch-diameter groundwater monitoring wells (MW-1 through MW-18) were installed on and off site to depths ranging from 13 feet below ground surface (bgs) to 20 feet bgs, at various times from 1989 to 2003. These wells have been monitored regularly since their installation. MW-3 and MW-4 were abandoned and sealed in 1999 (Ninyo & Moore 2004). In addition, six 6-inch-diameter wells (TBW-1 through TBW-6) were installed during backfilling of the excavation of former fuel hydrant lines in the early 1990s. TBW-1 through TBW-4 were abandoned and sealed in June 2007 by Baseline Environmental Consulting ("Baseline").

Eighteen 4-inch-diameter remediation wells and four 2-inch-diameter test/observation wells were installed on site to depths ranging from 13 feet bgs to 17 feet bgs, in December 2001 and January 2002 by others, according to Uribe & Associates' ("Uribe's") "Test/Observation Well Installation Report, U & A Project 291-03," dated April 2, 2002 (Uribe 2002). Seven of the wells (RW-Al, RW-A2, OB-A1, RW-B1, RW-B2, RW-B3, and RW-B4) were installed in the vicinity of Plumes A and B. Fifteen of the wells (RW-C1, RW-C2, RW-C3, RW-C4, RW-C5, RW-C6, RW-C7, OB-C1, RW-D1, RW-D2, RW-D3, RW-D4, RW-D5, OB-D1, and OB-D2) were installed in the vicinity of Plumes C and D. Each well, except OB-A1, was surveyed subsequent to the installation event. Six additional extraction wells (RW-D6 through RW-D11) were installed within the Plume D area in March 2007 by URS Corporation. These six wells are 6 inches in diameter and installed to an approximate depth of 20 feet bgs. The well locations are shown on Figures 2 and 3. The plume locations are shown on Figure 3.

According to the "Second Quarter 2003 Monitoring Report" (Uribe 2003), approximately 10,000 gallons of a groundwater/free product mixture were removed from on-site wells RW-B3 and RW-B4 (Plume B) in September and October 2002, using a trailer-mounted, dual-phase extraction (DPE) unit with a 10-horsepower vacuum pump. Additionally, approximately 10,000 gallons of liquid were removed

from wells RW-C3, RW-C4, RW-C5, and RW-C7 (Plume C) through five daily extractions over a two-month period. The liquid was pumped into a 21,000-gallon aboveground storage tank to allow separation of oil from water and drained through three 2,000-pound granular-activated carbon filters (in series). After filtration, the wastewater was discharged into a local storm drain. A National Pollutant Discharge Elimination System (NPDES) permit was issued prior to discharge.

Within the same time period, hydrogen peroxide, followed by water, was injected periodically into wells OB-Al, RW-Al, RW-A2, TBW-3, and TBW-4 (Plume A); MW-16 and MW-17 (Plume B); and MW-5 (active tank area), to promote in situ bioremediation. Hydrogen peroxide was also injected periodically into wells in the Plume C area from July 2004 through January 2009.

Construction of an extraction system to remove separate-phase hydrocarbons (SPH) within the vicinity of Plume D began in March 2006. Seven existing wells (RW-D1, RW-D2, RW-D3, RW-D4, RW-D5, TBW-5, and RW-1) were converted to extraction wells by URS Corporation. The extraction system was completed in April 2006, and the system began operation in mid-May 2006. Groundwater extracted from the seven wells was treated through an oil/water separator, followed by three 2,000-pound liquid-phase activated carbon units in series, and was discharged into the local storm drain via an NPDES permit. Extracted soil vapor was treated through a thermal oxidizer and discharged into the atmosphere via a permit issued by the Bay Area Air Quality Management District. Six additional wells were installed within the vicinity of Plume D in March 2007 (RW-D6, RW-D7, RW-D8, RW-D9, RW-D10, and RW-D11) and were connected to the extraction system on June 11, 2007. In addition, six existing wells in the Plume C area (RW-C2, RW-C4 through RW-C7, and OB-C1) were connected to the DPE system in May 2009, and extraction from these wells commenced on May 26, 2009.

The extraction remediation system was shut down on December 23, 2009. The system may be restarted if free-phase product is again detected or significant rebound of dissolved concentration of petroleum hydrocarbons is determined in subsequent groundwater monitoring events. Quarterly remediation system performance reports were submitted separately from this monitoring report to Alameda County Environmental Health (ACEH) and the Regional Water Quality Control Board – San Francisco Bay Region (RWQCB).

3.0 FALL 2010 SEMIANNUAL MONITORING ACTIVITIES

3.1 Field Activities

The field activities, which included depth-to-groundwater/product measurement and well sampling, were conducted in accordance with the revised City of Oakland MSC Schedule and Protocol Table that was included in the November 6, 2009 letter to

Alameda County Environmental Health Services proposing a revised groundwater monitoring schedule (Appendix A).

On October 19, 2010, ARCADIS personnel measured depth to water and depth to SPH using an electric oil/water interface probe in the following wells: MW-1, MW-2, MW-5 through MW-17, TBW-5, TBW-6, RW-1, RW-A1, RW-A2, OB-A1, RW-B1 through RW-B4, RW-C1 through RW-C7, OB-C1, RW-D1 through RW-D11, OB-D1, and OB-D2. A number of monitoring wells have been eliminated from the monitoring program. Monitoring wells MW-3 and MW-4 have been abandoned and sealed (Ninyo & Moore 2004). Wells TBW-1, TBW-2, TBW-3, and TBW-4 were abandoned and sealed by Baseline in June 2007.

The oil/water interface probe was decontaminated with liquinox and distilled water before use in each well to avoid potential cross contamination. Current and historical product thickness measurements, depth-to-groundwater measurements, and groundwater elevations calculated from groundwater measurements are presented in Table 1. Monitoring and remediation well locations are shown on Figures 2 and 3.

On October 19, 2010, ARCADIS personnel collected groundwater samples from monitoring wells MW-6, MW-9, MW-13, and MW-14.

Prior to sampling, a clean, disposable, polyvinyl chloride (PVC) sampling bailer was used to purge a minimum of three well-casing volumes of groundwater from each of the four monitoring wells sampled during the current monitoring event. The wells were allowed to recover to at least 80 percent of their original static groundwater levels before sampling. Dissolved oxygen, temperature, pH, conductivity, and oxidation-reduction potential (ORP) were measured for each well volume purged. Additionally, characteristics of the water (color, turbidity, odor, sheen) were noted on the field data sheets, which are included in Appendix B.

After the wells were purged, samples were collected using the disposable, PVC, bottom-discharging bailer that was used to purge the well. The samples were transferred from the bailer to the appropriate sample containers, labeled, and placed in a "wet chilled" cooler containing ice, under chain-of-custody protocol. The samples were secured in the cooler and transferred to Curtis & Tompkins, Ltd., Analytical Laboratories (C&T), a California Department of Health Services-certified environmental laboratory located in Berkeley, California. Purged and decontamination water generated during sampling activities was transferred into an on-site storage tank that was part of the on-site extraction and treatment system maintained by the City of Oakland.

3.2 Sample Analyses

The groundwater samples were analyzed by C&T for the following parameters:

- total petroleum hydrocarbons (TPH) as gasoline (TPHg) using U.S. Environmental Protection Agency (U.S. EPA) Method 8260B
- TPH as kerosene (TPHk), TPH as diesel (TPHd), and TPH as motor oil (TPHmo) using U.S. EPA Method 8015B, with a silica-gel cleanup
- the aromatic hydrocarbons benzene, toluene, ethylbenzene, and total xylenes (collectively known as BTEX) and methyl tertiary-butyl ether (MTBE) using U.S. EPA Method 8260B

4.0 MONITORING RESULTS

4.1 Shallow Groundwater Topography

Depth to groundwater was measured on October 19, 2010, using a Solinst oil/water interface meter (Table 1). Prior to groundwater measurement, the well caps were removed from all wells to allow the water column within each well to come into equilibrium with atmospheric pressure. Groundwater elevations were determined using well survey data from the "Second Quarter 2003 Monitoring Report" (Uribe 2003).

Groundwater elevations in the monitoring wells ranged from 1.24 feet mean sea level (msl) at MW-16 to 5.10 feet msl at MW-6 (Figure 2). Groundwater flow direction, measured between wells MW-1 and MW-10, is toward the northwest in the northern section of the Site at approximately 0.005 foot/foot (ft/ft), and toward the southwest (measured between wells MW-11 and MW-15) at approximately 0.011 ft/ft in the southern portion of the Site. A groundwater high (groundwater elevation of 5.97 feet msl) is observed in the vicinity of remediation well RW-A1, located in the vicinity of Plume A in the southern portion of the Site (Figure 3). The variation in the groundwater gradient may be due to differences in lithologic characteristics in the subsurface or preferential pathways (possibly due to backfilled utility trenches and underground storage tank pits). The groundwater flow direction for this sampling period was similar to that reported by Ninyo & Moore in its July 14, 2004 Spring Semiannual Groundwater Monitoring Report for the Site, and in more recent ARCADIS monitoring reports.

4.2 Occurrence of Separate-Phase Hydrocarbons

Floating SPH was not observed in any wells where depth-to-water and depth-to-SPH were measured during this monitoring event. The results of the SPH assessment are presented in Table 1. Although no SPH or sheen was observed in the remediation wells, an odor was noted in the water purged from Plume C remediation well RW-C5 and Plume D remediation well RW-D6 (Table 1). The lack of SPH or sheen observed during this monitoring event represents a significant decrease in the lateral extent of SPH in Plumes B, C, and D compared to the April 2004 monitoring event. SPH has not been detected in the Plume A wells historically.

4.3 Contaminant Distribution in Groundwater

The analytical data from this groundwater monitoring event are presented in Table 1, along with historical analytical results. Laboratory analytical data reports are included in Appendix C. Historical data for volatile organic compounds, semivolatile organic compounds, leaking underground fuel tank metals, and other metals are provided in Appendix D (Tables D-1, D-2, D-3, and D-4, respectively).

For quality assurance/quality control (QA/QC), ARCADIS collected a duplicate sample from well MW-6 on October 19, 2010 and analyzed it for TPHg, TPHk, TPHd, TPHmo, BTEX, and MTBE. Analytical results for the duplicate sample were consistent with those for the primary samples collected from well MW-6 for all analytes.

4.3.1 Screening Criteria

In the June 12, 2009 semiannual monitoring report, LFR Inc. recommended that groundwater quality results be compared to the RWQCB Environmental Screening Levels (ESLs) for Groundwater Screening Levels (groundwater is not a current or potential drinking water resource; RWQCB 2008; Table F-1b) because they are the most applicable screening criteria for the current site conditions. The groundwater quality results had previously been compared to the San Francisco Airport Ecological Protection Zone (SFAEPZ) Tier I Standard and the RWQCB ESL for Surface Water Screening Levels Marine Habitats. These standards/screening levels both relate to the quality of the water in San Francisco Bay but not groundwater.

A comparison of the previous screening criteria and the recommended screening criteria is included in the table below. The groundwater quality results will be compared to the recommended screening criteria in this semiannual monitoring report.

| Analyte | Previous Scre | eening Criteria | Recommended Screening Criteria |
|---------------|---------------------------------|---|---------------------------------------|
| , | SFAEPZ Tier 1 Standard (µg/) | ESL Surface Water (Table F-2b) (µg/) | ESL Groundwater (Table F-1b) (µg/) |
| Benzene | 71 | 71 | 46 |
| Toluene | NA | 40 | 130 |
| Ethylbenzene | 29,000 | 30 | 43 |
| Total Xylenes | NA | 100 | 100 |
| MTBE | NA | 180 | 1800 |

| Analyte | Previous Scre | ening Criteria | Recommended Screening Criteria |
|---------|---------------------------------|---|---------------------------------------|
| , | SFAEPZ Tier 1 Standard (µg/) | ESL Surface Water (Table F-2b) (µg/) | ESL Groundwater (Table F-1b) (µg/) |
| ТРНд | 3700 | 210 | 210 |
| TPHd | 640 | 210 | 210 |
| TPHmo | 640 | 210 | 210 |
| TPHk | NA | NA | 210 |

Notes:

 $\mu g/l = micrograms per liter$

NA = screening criteria not previously applied to analyte

4.3.2 Benzene

Benzene concentrations detected above laboratory analytical detection limits (LADLs) were reported in groundwater samples collected from one of the four monitoring wells sampled during the current monitoring event. Benzene was detected in well MW-6 at concentrations of 100 μ g/l and 110 μ g/l (primary and duplicate samples).

The RWQCB ESL Groundwater Screening Level (groundwater is not a current or potential drinking water resource) for benzene is 46 μ g/l (RWQCB 2008; Table F-1b). The benzene concentration present in well MW-6 during the current monitoring event is above the RWQCB ESL for benzene.

The benzene concentration detected in well MW-6 during the current monitoring period is consistent with concentrations detected since 2008. The benzene concentration in well MW-9 decreased from 5.0 μ g/l in April 2010. Benzene has been below the LADL of 0.5 μ g/l during the fall sampling events since 2008.

4.3.3 Toluene

Toluene was reported in groundwater samples collected from one of the four monitoring wells sampled during the current monitoring event. Toluene was detected in well MW-6 at concentrations of 1.7 μ g/l and 1.6 μ g/l (primary and duplicate samples).

The RWQCB ESL Groundwater Screening Level (groundwater is not a current or potential drinking water resource) for toluene is 130 μ g/l (RWQCB 2008; Table F-1b). The toluene concentrations present in MW-6 were well below the ESL of 130 μ g/l during the current monitoring event.

The toluene concentration measured in well MW-6 decreased relative to the last sample collected (4.1 μ g/l in October 2009).

4.3.4 Ethylbenzene

Ethylbenzene was not detected above the LADL in groundwater samples collected during the current monitoring event.

4.3.5 Total Xylenes

Total xylenes were reported in groundwater samples collected from two of the four monitoring wells sampled during the current monitoring event. Total xylenes were detected in monitoring wells MW-6 (2.0 μ g/l and 1.7 μ g/l; primary and duplicate concentrations) and MW-9 (0.51 μ g/l).

The RWQCB ESL Groundwater Screening Level (groundwater is not a current or potential drinking water resource) for total xylenes is 100 μ g/l (RWQCB 2008; Table F-1b). The concentrations of total xylenes detected in MW-6 and MW-9 during the current monitoring event were well below the ESL of 100 μ g/l .

Total xylenes concentrations measured in both MW-6 and MW-9 slightly decreased from the October 2009 monitoring event.

4.3.6 MTBE

MTBE was reported in the groundwater sample collected from one of the four monitoring wells sampled during the current monitoring event. MTBE was detected in well MW-6 at concentrations of 3.3 μ g/l and 3.1 μ g/l (primary and duplicate samples).

The RWQCB ESL Groundwater Screening Level (groundwater is not a current or potential drinking water resource) for MTBE is 1,800 μ g/l (RWQCB 2008; Table F-1b). Concentrations of MTBE were not detected above the ESL of 1,800 μ g/l in samples collected from the monitoring wells during the current monitoring event.

The MTBE concentration present in well MW-6 during this event was lower than the concentration in the last monitoring event (5.0 μ g/l in October 2009).

4.3.7 TPHg

TPHg was reported in groundwater samples collected from two of the four monitoring wells sampled during the current monitoring event. TPHg was detected in monitoring wells MW-6 (620 μ g/l and 610 μ g/l; primary and duplicate concentrations) and MW-14 (54 μ g/l).

smr-MSC-gw-Fall 2010-LC010060.doc

The RWQCB ESL Groundwater Screening Level (groundwater is not a current or potential drinking water resource) for TPHg is 210 μ g/l (RWQCB 2008; Table F-1b). The TPHg concentration detected in well MW-6 was above the ESL of 210 μ g/l.

The TPHg concentrations present in both MW-6 and MW-14 were slightly higher compared to the concentrations detected in October 2009.

4.3.8 TPHd

TPHd was reported in groundwater samples collected from three of the four monitoring wells sampled during the current monitoring event. The maximum TPHd concentrations were detected in well MW-6 at 400 μ g/l and 370 μ g/l (primary and duplicate samples). TPHd was also detected in wells MW-13 (150 μ g/l) and MW-14 (210 μ g/l).

The RWQCB ESL Groundwater Screening Level (groundwater is not a current or potential drinking water resource) for TPHd (middle distillates) is 210 μ g/l (RWQCB 2008; Table F-1b). TPHd concentrations were at or above the ESL of 210 μ g/l in samples collected from two monitoring wells (MW-6 and MW-14).

The TPHd concentrations detected during the current monitoring event were all higher than the TPHd concentrations detected in October 2009.

4.3.9 TPHmo

TPHmo was reported in the groundwater sample collected from one of the four monitoring wells sampled during the current monitoring event. TPHmo was detected in well MW-13 at a concentration of 940 μ g/l.

The RWQCB ESL Groundwater Screening Level (groundwater is not a current or potential drinking water resource) for TPHmo (middle distillates) is 210 μ g/l (RWQCB 2008; Table F-1b). The TPHmo concentration was above the ESL of 210 μ g/l in the sample collected from well MW-13.

The TPHmo concentration measured in well MW-13 increased relative to the concentration detected in April 2010 (330 μ g/l).

4.3.10 TPHk

TPHk was reported in groundwater samples collected from two of the four monitoring wells sampled during the current monitoring event. TPHk was detected in monitoring wells MW-6 (420 μ g/l and 400 μ g/l; primary and duplicate concentrations) and MW-14 (110 μ g/l).

The RWQCB ESL Groundwater Screening Level (groundwater is not a current or potential drinking water resource) for TPHk (middle distillates) is 210 μ g/l (RWQCB

2008; Table F-1b). The TPHk concentrations present in well MW-6 during the current monitoring event are above the RWQCB ESL for TPHk.

The TPHk concentration present in well MW-6 decreased from the concentration detected in October 2009 (1,000 μ g/l). TPHk increased in well MW-14 from below the LADL of 50 μ g/l in April 2010 and is the highest concentration of TPHk detected in the well since August 2000.

4.4 Laboratory Analysis

Current laboratory analytical results and historical results are presented in Table 1. Copies of laboratory data sheets and chain-of-custody documents are included in Appendix C.

5.0 LABORATORY QUALITY ASSURANCE AND QUALITY CONTROL

A laboratory QA/QC review was performed on the laboratory analytical data to evaluate the quality and usability of the analytical results. The following sections summarize the QA/QC review.

5.1 Method Holding Times

The procedures used to extract and analyze the collected samples were reviewed by ARCADIS personnel and were found to be within the appropriate holding times for all samples.

5.2 Blanks

One field blank (MW-6-FB) was collected along with the corresponding groundwater sample and was analyzed for TPHg, TPHk, TPHd, TPHmo, BTEX, and MTBE. Additionally, laboratory method blank results were reviewed for detection of target analytes. Total xylenes were detected at a concentration of $0.51~\mu g/l$ in MW-6-FB. In response to the detection of total xylenes in the field blank, all detections of total xylenes were qualified to identify that the analyte was detected in the associated field blank.

5.3 Laboratory Control Samples

Laboratory quality control samples were analyzed by C&T for TPHg, TPHd, TPHk, TPHmo, and BTEX. All samples were within the percentage recovery range required by the laboratory.

smr-MSC-gw-Fall 2010-LC010060.doc

5.4 Surrogates

All surrogates, including o-terphenyl for TPHd, TPHk, and TPHmo, and bromofluorobenzene, 1,2-dichloroethane-d4, dibromofluoromethane, and toluene-d8 for TPHg, BTEX, and MTBE were used for laboratory QA/QC analysis. All of the surrogates were within the acceptable laboratory recovery limits.

5.5 False-Positive Petroleum Hydrocarbon Identification

Qualifiers were reported in the laboratory analytical reports and noted in Table 1 and Figure 2.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The following summarizes the data collected during the Fall 2010 sampling event and presents the recommendations for the Fall 2011 monitoring period.

- Groundwater elevations in the monitoring wells ranged from 1.24 feet msl at MW-16 to 5.10 feet msl at MW-6. The direction of shallow groundwater flow is toward the northwest in the northern section of the Site at a horizontal gradient of 0.005 ft/ft toward the southwest in the southern portion of the Site at 0.011 ft/ft. A groundwater high was observed in the vicinity of well RW-A1 (Plume A) in the southern portion of the Site. This groundwater high is probably the result of higher subsurface permeability in areas of excavation backfill.
- SPH was not observed in any wells where depth-to-SPH was measured during this monitoring event.
- Benzene was detected above LADL in one of the four wells sampled. Benzene was detected in monitoring well MW-6 at concentrations of 100 μg/l and 110 μg/l (primary and duplicate samples). These benzene concentrations exceeded the RWQCB ESL Groundwater Screening Level (groundwater is not a current or potential drinking water resource) for benzene of 46 μg/l during the current monitoring event.
- Toluene was detected above LADL in one of the four wells sampled. Toluene was detected in monitoring well MW-6 at concentrations of 1.7 μg/l and 1.6 μg/l (primary and duplicate samples). No concentrations of toluene exceeded the RWQCB ESL Groundwater Screening Level (groundwater is not a current or potential drinking water resource) for toluene of 130 μg/l during the current monitoring event.
- Ethylbenzene was not detected above LADL in the four wells sampled.
- Total xylenes were detected above LADL in two of the four wells sampled. The maximum concentrations of total xylenes detected in shallow groundwater were $2.0~\mu g/l$ and $1.7~\mu g/l$ (primary and duplicate samples) in well MW-6. No concentrations of total xylenes exceeded the RWQCB ESL Groundwater Screening

- Level (groundwater is not a current or potential drinking water resource) for ethylbenzene of 100 μ g/l during the current monitoring event.
- MTBE was detected above LADL in one of the four wells sampled. MTBE was detected in well MW-6 at concentrations of 3.3 μg/l and 3.1 μg/l (primary and duplicate samples). No concentrations of MTBE exceeded the RWQCB ESL Groundwater Screening Level (groundwater is not a current or potential drinking water resource) for MTBE of 1,800 μg/l during the current monitoring event.
- TPHg was detected above LADL in two of the four wells sampled. The maximum concentrations of TPHg detected in shallow groundwater were 620 μg/l and 610 μg/l (primary and duplicate samples) in well MW-6. TPHg concentrations were above the RWQCB ESL Groundwater Screening Level (groundwater is not a current or potential drinking water resource) for TPHg of 210 μg/l in one of the wells sampled.
- TPHd was detected above LADL in three of the four wells sampled. The maximum concentrations detected were present in well MW-6 at concentration of 400 μ g/l and 370 μ g/l (primary and duplicate samples). TPHd concentrations were at or above the RWQCB ESL Groundwater Screening Level (groundwater is not a current or potential drinking water resource) for TPHd (middle distillates) of 210 μ g/l in two of the wells sampled.
- TPHmo was detected above LADL in one of the four wells sampled (MW-13) at a concentration of 940 μ g/l. The TPHmo concentration detected in MW-13 was above the RWQCB ESL Groundwater Screening Level (groundwater is not a current or potential drinking water resource) for TPHd (middle distillates) of 210 μ g/l.
- TPHk was detected above LADL in two of the four wells sampled. The maximum concentrations of TPHk detected were 420 μg/l and 400 μg/l (primary and duplicate samples) in well MW-6. TPHk concentrations were above the RWQCB ESL Groundwater Screening Level (groundwater is not a current or potential drinking water resource) for TPHk (middle distillates) of 210 μg/l in one of the wells sampled.

Based on the results of the Fall 2010 groundwater monitoring event, ARCADIS makes the following recommendations:

- Continue annual groundwater monitoring on site due to the elevated concentrations of TPHg, TPHd, TPHmo, and benzene reported during the current monitoring event.
- Continue monitoring SPH.

7.0 LIMITATIONS

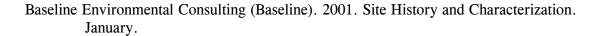
The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard of care exercised by environmental consultants performing similar work in the project area. No other

warranty, expressed or implied, is made regarding the professional opinions presented in this report. Please note this study did not include an evaluation of geotechnical conditions or potential geologic hazards.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions and the referenced literature. It should be understood that the conditions of a site can change with time as a result of natural processes or the activities of man at the site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which ARCADIS has no control.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. ARCADIS should be contacted if the reader requires any additional information or has questions regarding the content, interpretations presented, or completeness of this document.

8.0 SELECTED REFERENCES



- California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB). 2002. Authorization to Discharge Treated Groundwater Under the Requirements of Order No. 01-100, NPDES Permit No. CAG 912002. April 23.
- ———. 2007. Notice of General Permit Coverage for Discharge from the City of Oakland Municipal Service Center located at 7101 Edgewater Drive, Oakland, Alameda County, CA 94621, under the Requirements of Order No. R2-2006-0075, NPDES Permit No. CAG912002 (Fuel General Permit), March 12.
- 2008. Screening for Environmental Concerned Sites with Contaminated Soil and Groundwater. Interim Final – November 2007 (Revised May 2008).
 May.
- LFR Inc. (LFR). 2009. Groundwater Monitoring Report, Spring Semiannual, Municipal Service Center 7101 Edgewater Drive, Oakland, California. June 12.
- Ninyo & Moore. 2004. Groundwater Monitoring Report, Spring Semiannual, Municipal Service Center, 7101 Edgewater Drive, Oakland, California, Assignment No. G03-N&M-10. July 14.

Uribe & Associates (Uribe). 2002. Test/Observation Well Installation Report, U & A Project 291-03. April 2.

———. 2003. Final Report, Second Quarter 2003 Monitoring Report, City of Oakland Municipal Service Center. May.

smr-MSC-gw-Fall 2010-LC010060.doc Page 13

7101 Edgewater Drive, Oakland, California

| Well ID/ Date | TOC Elevation | Depth to Groundwater | Groundwater Elevation | BTEX Method | Notes | TPH-d (μg/l) | TPH-mo (µg/l) | TPH-k (µg/l) | TPH-g (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl- benzene | Total Xylenes | MTBE (µg/l) |
|------------------|------------------|-------------------------|--------------------------|----------------|--------------|-----------------|------------------|-----------------|-----------------|-------------------|-------------------|-------------------|------------------|----------------|
| | (feet) | (feet) | (feet) | | | | 7 0 | | | | , , | (µg/l) | (μg/l) | |
| MW-1 | | | | | | | | | | | | | | |
| 10/4/89 | 10.20 | | | 8020 | | | | | 540 | 65 | 26 | 14 | 22 | |
| 10/4/89 | 10.20 | | | 8240 | | | | | | 120 | 46 | 43 | 78 | |
| 4/27/93 | 10.20 | | | 8020 | | | | | <1,000 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | |
| 4/19/95 | 10.20 | | | 8020 | | | | | 3,200 | 880 | 15 | 23 | 21 | |
| 7/27/95 | 10.20 | 4.62 | 5.58 | 8020 | | | | | 980 | 130 | 3.6 | 1.4 | 5.6 | |
| 11/20/95 | 10.20 | 6.08 | 4.12 | 8020 | | | | | 400 | 99 | 2.8 | 1.1 | 4.6 | |
| 2/21/96 | 10.20 | 4.62 | 5.58 | 8020 | | | | | 1,700 | 340 | 8.4 | 5.3 | 16 | |
| 5/13/96 | 10.20 | 4.33 | 5.87 | 8020 | | | | | 7,300 | 2,000 | 30 | 42 | 38 | |
| 8/27/96 | 10.20 | 5.25 | 4.95 | 8020 | | | | | 380 | 61 | 2.4 | < 0.5 | 4.2 | |
| 2/23/98 | 10.20 | 1.75 | 8.45 | 8020 | | < 50 | < 500 | < 50 | 820 | 160 | 4.9 | 3 | 9.7 | |
| 8/19/98 | 10.20 | 4.78 | 5.42 | 8020 | SGC | 1,200 | | | 780 | 69 | 4.1 | 0.84 | 8.5 | < 5.0 |
| 11/11/98 | 10.20 | 5.64 | 4.56 | | | | | | | | | | | |
| 2/23/99 | 10.20 | 3.41 | 6.79 | 8020 | SGC | 1,200 | 1,600 | < 50 | 1,100 | 190 | 5 | 3 | 12 | < 5.0 |
| 5/27/99 | 10.20 | 3.96 | 6.24 | | | | | | | | | | | |
| 8/24/99 | 10.20 | 4.92 | 5.28 | 8020 | SGC | 640 | 1,900 | < 50 | 370 | 37 | 0.9 | < 0.5 | 1.9 | < 5.0 |
| 11/22/99 | 10.20 | 5.46 | 4.74 | | | | | | | | | | | |
| 1/18/00 | 10.05 | 5.41 | 4.64 | | | | | | | | | | | |
| 1/19/00 | 10.05 | | | 8020 | SGC | 50 | < 200 | < 50 | 660 | 43 | 2.3 | 1.1 | 6 | < 5.0 |
| 5/11/00 | 10.05 | 4.63 | 5.42 | | | | | | | | | | | |
| 8/24/00 | 10.05 | 5.07 | 4.98 | | | | | | | | | | | |
| 8/25/00 | 10.05 | | | 8020 | SGC | 340 | < 250 | 290 | 480 | 53 | 1.4 | < 0.5 | 2.9 | < 5.0 |
| 11/28/00 | 10.05 | 5.60 | 4.45 | | | | | | | | | | | |
| 2/27/01 | 10.05 | 3.95 | 6.10 | 8020 | Filtered+SGC | 270 | < 250 | < 61 | 1,500 | 110 | 6.3 | < 1.5 | 9.9 | < 15 |
| 5/17/01 | 10.05 | 4.00 | 6.05 | | | | | | | | | | | |
| 8/16/01 | 10.05 | 4.17 | 5.88 | | Filtered+SGC | 280 | < 200B | < 100 | 4,000 | 640 | 9.7 | 5.7 | 13 | < 5.0 |
| 12/15/01 | 10.05 | 5.52 | 4.53 | | | | | | | | | | | |
| 4/9/02 | 10.05 | 3.78 | 6.27 | 8021 | SGC | 1,100 | 1,000 | | 2,000 | 320 | 5.38 | 3.08 | 6.24 | < 5 |
| 6/21/02 | 10.05 | 4.92 | 5.13 | | | | | | | | | | | |
| 9/13/02 | 10.05 | 5.52 | 4.53 | 8021 | SGC | 88 b,c | < 300 | 88 | 260 | 9.6 | < 0.5 | < 0.5 | 1.0 | <2 |
| 4/22/03 | 10.05 | 4.41 | 5.64 | 8021B | SGC | 570 L Y | < 300 | 660 | 1,900 Z | 400.0 | 9.6 | 5.4 | 8.1 | < 2.0 |
| 4/28/04 | 10.05 | 3.95 | 6.10 | 8260B | SGC | < 100 | < 400 | < 100 | 154 | 20 | < 1.0 | < 1.0 | 2.3 | < 1.0 |
| 10/29/04 | 10.05 | 5.68 | 4.37 | 8260B | SGC | 230 L Y | < 300 | 240 | 340 H Z | 6.4 | 0.6 | < 0.5 | 1.4 | < 0.5 |
| 9/2/05 (1) | 10.05 | 4.35 | 5.70 | 8260B | SGC | 140 L Y | < 300 | 170 | 350 | 6.6 | 1.0 | < 0.5 | 2.3 | < 0.5 |
| 4/4/2006 (3) | 10.05 | 2.24 | 7.81 | 8260B | SGC | 830 L Y | < 300 | 1,100 L Y | 3,700 | 470 | 13 | 7.8 | 6.3 | <3.6 |
| 9/6/06 | 10.05 | 4.98 | 5.07 | 8260B | SGC | 3,400 H L | 400 L | 3,100 H | 480 | 4.2 | 1.0 | < 0.5 | 1.9 | < 0.5 |
| 4/5/07 | 10.05 | 3.56 | 6.49 | 8260B | SGC | 500 L Y | < 300 | 490 L Y | 1,500 Y | 170 | 7.2 | 3.6 | 5.7 | <1.3 |
| 10/2/07 | 10.05 | 5.59 | 4.46 | 8260B | SGC | 600 Y | < 300 | 710 Y | 460 Y | 6.1 | 1.1 | < 0.5 | 1.2 | < 0.5 |
| 3/20/08 (8) | 10.05 | 3.53 | 6.52 | 8260B | SGC | 1,000 Y | < 300 | 960 | 1,600 Y | 53 | 4.1 | 1.2 | 6.3 | < 0.5 |
| 3120100 | 10.03 | 3.33 | 0.32 | 0200D | 300 | 1,000 1 | \ 300 | 200 | 1,000 1 | 33 | 7.1 | 1.4 | 0.5 | ~ 0.3 |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|---------------|-----------|-------------|-------------|--------|-----------------|-----------------|--------|--------|---------|---------|---------|---------|---------|--------|
| Date | Elevation | Groundwater | Elevation | Method | | (µ g/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | benzene | Xylenes | (μg/l) |
| | (feet) | (feet) | (feet) | | | | | | | | | (µg/l) | (µg/l) | |
| 11/21/08 (10) | 10.05 | 5.48 | 4.57 | 8260B | SGC | 110 Y | < 300 | 87 Y | 210 Y | 2.4 | 0.52 | < 0.50 | 1.3 | < 0.50 |
| 4/1/09 | 10.05 | 3.30 | 6.75 | 8260B | SGC | 480 Y | < 300 | 540 | 1,300 Y | 79 | 6.40 | 2.9 | 5.1 | < 0.50 |
| 10/30/09 | 10.05 | 4.52 | 5.53 | 8260B | SGC | 810Y | < 300 | 820Y | 1,800Y | 59 | 9.40 | 3.5 | 10.7 | < 0.50 |
| 4/8/10 | 10.05 | 2.90 | 7.15 | 8260B | SPH: None; Odor | 210 Y | < 300 | 190 Y | 380 | 2.4 | 0.71 | < 0.50 | 1.6 | < 0.50 |
| 10/19/10 | 10.05 | 5.48 | 4.57 | | SPH: None | | | | | | | | | |
| MW-2 | | | | | | | | | | | | | | |
| 10/4/89 | 10.47 | | | 8020 | | | | | < 30 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | |
| 10/4/89 | 10.47 | | | 8240 | | | | | | 2 | < 2.0 | < 2.0 | < 2.0 | |
| 4/27/93 | 10.47 | | | 8020 | | | | | < 1,000 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | |
| 4/19/95 | 10.47 | | | 8020 | | | | | < 50 | 1.8 | < 0.5 | < 0.5 | < 0.5 | |
| 7/27/95 | 10.47 | 6.22 | 4.25 | 8020 | | | | | < 50 | 2.3 | < 0.5 | < 0.5 | < 0.5 | |
| 11/20/95 | 10.47 | 7.49 | 2.98 | 8020 | | | | | < 50 | 2.2 | < 0.5 | < 0.5 | < 0.5 | |
| 2/12/96 | 10.47 | 6.68 | 3.79 | 8020 | | | | | < 50 | 1.7 | < 0.5 | < 0.5 | 0.5 | |
| 5/13/96 | 10.47 | 6.32 | 4.15 | 8020 | | | | | | 2 | < 0.5 | < 0.5 | < 0.5 | |
| 8/27/96 | 10.47 | 6.84 | 3.63 | 8020 | | | | | | 2.4 | < 0.5 | < 0.5 | < 0.5 | |
| 2/24/98 | 10.47 | 5.44 | 5.03 | 8020 | | < 50 | < 500 | < 50 | | 1.6 | < 0.5 | < 0.5 | < 0.5 | |
| 8/19/98 | 10.47 | 6.56 | 3.91 | 8020 | SGC | 330 | | | < 50 | 4.1 | 3.4 | 0.8 | 2.6 | < 5.0 |
| 11/11/98 | 10.47 | 7.37 | 3.10 | | | | | | | | | | | |
| 2/23/99 | 10.47 | 8.68 | 1.79 | 8020 | SGC | 200 | 900 | < 50 | < 50 | 3.5 | 0.6 | 0.6 | 1.2 | < 5.0 |
| 5/27/99 | 10.47 | 5.20 | 5.27 | | | | | | | | | | | |
| 8/24/99 | 10.47 | 6.75 | 3.72 | 8020 | SGC | 140 | 700 | < 50 | < 50 | 2.6 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 11/22/99 | 10.47 | 7.58 | 2.89 | | | | | | | | | | | |
| 1/18/00 | 10.47 | 7.41 | 3.06 | 8020 | SGC | 60 a | 660 | < 50 | < 50 | 2.1 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/11/00 | 10.47 | 6.43 | 4.04 | | | | | | | | | | | |
| 8/24/00 | 10.47 | 8.91 | 1.56 | 8020 | SGC | 170 | 440 | 130 | < 50 | 2.4 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 11/28/00 | 10.47 | 7.35 | 3.12 | | | | | | | | | | | |
| 2/27/01 | 10.47 | 6.70 | 3.77 | 8020 | Filtered+SGC | < 59 | < 240 | < 59 | < 50 | 3.6 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 5/17/01 | 10.47 | 6.90 | 3.57 | | | | | | | | | | | |
| 8/16/01 | 10.47 | 6.95 | 3.52 | | Filtered+SGC | < 50 | 200B | < 100 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 12/15/01 | 10.47 | 7.21 | 3.26 | | | | | | | | | | | |
| 4/5/02 | 10.47 | 6.02 | 4.45 | 8021 | SGC | 200 | 400 | | < 50 | 2.9 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 6/21/02 | 10.47 | 8.07 | 2.40 | | | | | | | | | | | |
| 9/17/02 | 10.47 | 7.12 | 3.35 | 8021 | SGC | < 50 | < 300 | < 50 | < 50 | 2.1 | < 0.5 | < 0.5 | < 0.5 | <2 |
| 4/23/03 | 10.47 | 6.36 | 4.11 | 8021B | SGC | < 50 | < 300 | < 50 | < 50 | 1.6 | <.50 | <.50 | <.50 | < 2.0 |
| 4/28/04 | 10.47 | 5.99 | 4.48 | 8260B | SGC | < 100 | < 400 | < 100 | < 100 | < 0.5 | <1.0 | < 1.0 | 1.3 | < 1.0 |
| 9/1/05 (1) | 10.47 | 6.08 | 4.39 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | 2.8 | < 0.5 | < 0.5 | < 0.5 | 0.8 |
| 4/4/2006 (3) | 10.47 | 4.96 | 5.51 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | 2.1 | < 0.5 | < 0.5 | 0.5 | 0.5 |
| 9/6/06 | 10.47 | 9.31 | 1.16 | | | | | | | | | | | |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|-------------|-----------|---------------|-------------|--------------|-----------|-----------------|--------|--------|----------|---------|---------|---------|---------|--------|
| Date | Elevation | Groundwater | Elevation | Method | | (µ g/l) | (μg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | benzene | Xylenes | (μg/l) |
| | (feet) | (feet) | (feet) | | | | | | | | | (µg/l) | (µg/l) | |
| 4/5/07 | 10.47 | 9.21 | 1.26 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | 1.6 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 10/2/07 | 10.47 | 10.81 | -0.34 | | | | | | | | | | | |
| 3/20/08 (8) | 10.47 | 12.36 | -1.89 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | 1.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 11/18/08 | 10.47 | 11.07 | -0.60 | 8260B | | | | | | | | | | |
| 4/1/09 | 10.47 | 10.80 | -0.33 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | 1.3 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 4/1/09 dup | | | | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | 1.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 10/29/09 | 10.47 | 9.88 | 0.59 | | | | | | | | | | | |
| 4/8/10 | 10.47 | 8.00 | 2.47 | | SPH: None | | | | | | | | | |
| 10/19/10 | 10.47 | 7.02 | 3.45 | | SPH: None | | | | | | | | | |
| MW-3 | | | | | | | | | | | | | | |
| 10/4/89 | | | | 8020 | | | | | < 30 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | |
| 10/4/89 | | | | 8020 8240 | | | | | < 30 | < 2.0 | < 2.0 | <2.0 | < 2.0 | |
| 2/23/98 | | | | 0240 | | < 50 | < 500 | < 50 | | | | | | |
| 11/11/98 | | 5.83 | | | | | | | | | | | | |
| 2/23/99 | | J.63 | | | Submerged | | | | | | | | | |
| 5/27/99 | | 1.68 | | | Submerged | | | | | | | | | |
| 8/24/99 | | 4.76 | | | | | | | | | | | | |
| 11/22/99 | | 6.46 | | | | | | | | | | | | |
| 11/22/99 | | 0.40 | | | Destroyed | | | | | | | | | |
| 11/22/99 | | | | | Destroyed | | | | | | | | | |
| MW-4 | | | | | | | | | | | | | | |
| 10/4/89 | 7.89 | | | 8020 | | | | | < 30 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | |
| 10/4/89 | 7.89 | | | 8240 | | | | | | < 2.0 | < 2.0 | < 2.0 | < 2.0 | |
| 11/11/98 | 7.89 | 6.25 | 1.64 | | | | | | | | | | | |
| 2/23/99 | 7.89 | 3.10 | 4.79 | | | | | | | | | | | |
| 5/27/99 | 7.89 | 4.03 | 3.86 | | | | | | | | | | | |
| 8/24/99 | 7.89 | 5.07 | 2.82 | | | | | | | | | | | |
| 11/22/99 | 7.89 | 6.32 | 1.57 | | | | | | | | | | | |
| 11/22/99 | | | | | Destroyed | | | | | | | | | |
| MW-5 | | | | | | | | | | | | | | |
| 12/13/91 | 11.15 | | | 8020 | | 1,900 | | | 13,000 | 1,500 | 190 | 970 | 2,500 | |
| 12/13/91 | 11.15 | | | 8020 | Dup | | | | 16,000 | 1,400 | 180 | 870 | 2,500 | |
| 12/13/91 | 11.15 | | | 8240 | -r | | | | | 1,800 | <250 | 1,000 | 3,800 | |
| 12/13/91 | 11.15 | | | 8240 | Dup | | | | | 1,600 | <250 | 980 | 3,500 | |
| 4/27/93 | 11.15 | | | 8240 | F | 12,000 | | | 35,000 | 2,100 | < 1.0 | 1,800 | 2,700 | |
| 4/19/95 | 11.15 | | | 8240 | | 880 | 4,700 | | 14,000 | 490 | 51 | 610 | 1,200 | |
| 7/27/95 | 11.15 | 6.29 | 4.86 | 8240 | | 590 | 5,000 | | 22,000 | 1,300 | 54 | 1,500 | 2,400 | |
| | | ~· - / | | | | 370 | -,000 | | ,000 | -,200 | ٠. | -,500 | _, | |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|---------------|-----------|--------------|-------------|----------------|--------------|-----------|----------------|---------|------------------|------------|-------------|---------|---------|---------------|
| Date | Elevation | Groundwater | Elevation | Method | | (µg/l) | (µg/l) | (μg/l) | (µg/l) | (µg/l) | (µg/l) | benzene | Xylenes | (µg/l) |
| | (feet) | (feet) | (feet) | | | | | | | | | (µg/l) | (µg/l) | |
| 11/20/95 | 11.15 | 6.98 | 4.17 | 8020 | | < 50 | < 50 | < 50 | 8,900 | 430 | 31 | 610 | 880 | |
| 2/21/96 | 11.15 | 5.97 | 5.18 | 8020 | | 480 | < 50 | < 50 | 1,000 | 540 | 65 | 700 | 970 | |
| 5/13/96 | 11.15 | 6.25 | 4.90 | 8020 | | < 50 | < 50 | < 50 | 5,900 | 430 | 26 | 580 | 760 | |
| 5/13/96 | 11.15 | | | 8020 | Dup | < 50 | < 50 | < 50 | 7,300 | 360 | 22 | 49 | 640 | |
| 8/27/96 | 11.15 | 6.40 | 4.75 | 8020 | | 2,000 | < 51 | < 51 | 6,600 | 430 | 27 | 600 | 650 | |
| 8/27/96 | 11.15 | | | 8020 | Dup | 6,600 | < 51 | < 51 | 6,300 | 410 | 25 | 580 | 620 | |
| 2/23/98 | 11.15 | 4.22 | 6.93 | 8020 | | < 50 | < 500 | < 50 | 740 | 19 | 1.4 | 41 | 34 | |
| 8/19/98 | 11.15 | 6.14 | 5.01 | 8020 | | 1,400 | < 250 | 1700 | 5,800 | 500 | 25 | 730 | 300 | 5,900 |
| 8/19/98 | 11.15 | 6.14 | 5.01 | 8260 | SGC | | | | | | | | | 6,700 |
| 11/11/98 | 11.15 | 6.51 | 4.64 | | | | | | | | | | | |
| 2/23/99 | 11.15 | 3.59 | 7.56 | 8020 | SGC | 2,000 | 700 | < 50 | 6,700 | 300 | 26 | 800 | 690 | 1,600 |
| 5/27/99 | 11.15 | 5.71 | 5.44 | | | | | | | | | | | |
| 8/24/99 | 11.15 | 6.02 | 5.13 | 8020 | SGC | 220 | 2,000 | < 50 | 2,100 e | 190 e | 5.5 | 340 e | 78 | 380 e |
| 11/22/99 | 11.15 | 6.16 | 4.99 | | | | | | | | | | | |
| 1/18/00 | 11.15 | 6.60 | 4.55 | | | | | | | | | | | |
| 1/19/00 | 11.15 | | | 8020 | SGC | 100 | 320 | < 50 | 3,000 | 66 e | 6.3 | 400 e | 90 | 300 E (1,300) |
| 5/11/00 | 11.15 | 5.62 | 5.53 | | | | | | | | | | | |
| 8/24/00 | 11.15 | 6.32 | 4.83 | 8020 | SGC | 4,800 | 560 | 6,600 | 12,000 | 220 | 21 | 430 | 91 | 1,200 (1,400) |
| 11/28/00 | 11.15 | 6.47 | 4.68 | | | | | | | | | | | |
| 2/27/01 | 11.15 | 4.40 | 6.75 | 8020 | Filtered+SGC | 230 | < 250 | <61 | 6,300 | 150 | 7 | 350 | 55 | 830 |
| 5/17/01 | 11.15 | 5.77 | 5.38 | 8020 | Filtered+SGC | 190 | < 200 | < 50 | 7,500 | 140 | 7 | 580 | 101 | 170 |
| 8/16/01 | 11.15 | 4.87 | 6.28 | | Filtered+SGC | 320 | 500B | < 100 | 2,300 | 46 | < 5 | 110 | 24 | 850 |
| 12/15/01 | 11.15 | 5.50 | 5.65 | | | | | | | | | | | |
| 4/9/02 | 11.15 | 5.15 | 6.00 | 8021 | SGC | 480 | 260 | | 8,000 | 110 | 5.95 | 650 | 53.9 | 166 |
| 6/21/02 | 11.15 | 6.01 | 5.14 | 8021 | SGC | 200 a,b,c | < 300 | 190 | 4,600 | 130 | 33 | 380 | 56 | 440 |
| 9/12/02 | 11.15 | 6.40 | 4.75 | 8021 | SGC | 620 b,c | < 300 | 650 | 4,000 J | 120 | < 0.5 | 260 | 16 | 580 |
| 4/22/03 | 11.15 | 4.69 | 6.46 | 8021B | SGC | 1600 L Y | < 300 | 1800 | 6000 | 91 | < 1.0 | 870 | 59.4 | 150 C |
| 4/28/04 | 11.15 | 5.70 | 5.45 | 8260B | SGC | < 650 | < 400 | < 810 | 4780 | 34 | < 1.0 | 560 | 44 | 47 |
| 10/29/04 | 11.15 | 5.73 | 5.42 | 8260B | SGC | 840 L Y | < 300 | 940 | 3000 | 18 | 2.1 | 280 | 16.1 | 94 |
| 9/2/05 (1) | 11.15 | 6.08 | 5.07 | 8260B | SGC | 510 L Y | < 300 | 640 | 1600 | 13 | 1.4 | 55 | 8.6 | 92 |
| 4/5/06 (3) | 11.15 | 3.64 | 7.51 | 8260B | SGC | 840 L Y | < 300 | 850 H | 3,400 | 14 | 2.1 | 280 | 13 | 31 |
| 9/6/06 | 11.15 | 6.21 | 4.94 | 8260B | SGC | 340 Y | < 300 | 400 Y | 2000 | 8.3 | 1.1 | 8.2 | 6.8 | 50 |
| 4/5/07 | 11.15 | 5.31 | 5.84 | 8260B | SGC | 340 L Y | < 300 | 310 L Y | 3,100 Y | 9.3 | < 2.0 | 230 | 13 | 38 |
| 10/2/07 | 11.15 | 6.51 | 4.64 | 8260B | SGC | 400 Y | < 300 | 440 | 3,000 Y | 11 | 1.4 | 100 | 6.8 | 46 |
| 3/20/08 (8) | 11.15 | 5.37 | 5.78 | 8260B | SGC | 1,400 Y | < 300 | 1,400 | 4,100 Y | 8.4 | 1.7 | 270 | 12 | 23 |
| 11/21/08 (10) | 11.15 | 6.51 | 4.64 | 8260B | SGC | 660 Y | < 300 | 690 Y | 2,600 | 11 | 1.7 | 240 | 6.5 | 20 |
| 4/2/09 (12) | 11.15 | 4.89 | 6.26 | 8260B | SGC | 730 Y | <300 | 840 | 4,800 Y | 8.8 | 2.5 | 380 | 13.3 | |
| 10/30/09 | 11.15 | 4.89 5.86 | 5.29 | 8260B 8260B | SGC | 1,100Y | < 300 < 300 | 1,100Y | 4,800 f 3,100 | 8.8 5.2 | 2.5 <1.7 | 200 | 8.1 | 15 23 |
| | | | | | | | | | | | | | | |
| 10/30/09dup | | | | 8260B | Dup | 600Y | < 300 | 620Y | 3,300 | 5.3 | <1.7 | 210 | 8.7 | 20 |

7101 Edgewater Drive, Oakland, California

| Well ID/ Date | TOC Elevation (feet) | Depth to Groundwater (feet) | Groundwater Elevation (feet) | BTEX Method | Notes | TPH-d (µg/l) | TPH-mo (µg/l) | TPH-k (µg/l) | TPH-g (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl- benzene (µg/l) | Total Xylenes (µg/l) | MTBE (µg/l) |
|------------------|----------------------------|-----------------------------------|------------------------------------|----------------|-----------------------|-----------------|------------------|-----------------|-----------------|-------------------|-------------------|-----------------------------|----------------------------|----------------|
| 4/0/10 | 11.15 | 4.16 | 6.00 | 92600 | CDII N | 1200 W | 1200 | 1400 37 | 4.500 | 6.5 | 2.4 | | | 0.4 |
| 4/8/10 | 11.15 | 4.16 | 6.99 | 8260B | SPH: None | 1300 Y | < 300 | 1400 Y | 4,500 | 6.5 | 2.4 | 240 | 12 | 8.4 |
| 10/19/10 | 11.15 | 6.44 | 4.71 | | SPH: None | | | | | | | | | |
| MW-6 | | | | | | | | | | | | | | |
| 12/13/91 | 10.98 | | | 8020 | | 520 | | | 780 | 110 | 2.7 | < 2.5 | 5.5 | |
| 12/13/91 | 10.98 | | | 8240 | | | | | | 95 | 5 | < 5 | < 5 | |
| 4/27/93 | 10.98 | | | 8020 | | <1,000 | | | <1,000 | 430 | 4 | 5 | 10 | |
| 4/19/95 | 10.98 | | | 8020 | | 6,700 | | | 5,700 | 40 | < 0.8 | 3.9 | 29 | |
| 4/19/95 | 10.98 | | | 8020 | Dup | 3,700 | | | 3,000 | 310 | 3.1 | 2.7 | 100 | |
| 7/27/95 | 10.98 | 7.09 | 3.89 | 8020 | | 3,900 | | | 6,100 | 430 | 15 | 200 | 600 | |
| 7/27/95 | 10.98 | | | 8020 | Dup | 2,600 | | | 6,300 | 420 | 15 | 200 | 600 | |
| 11/20/95 | 10.98 | 7.89 | 3.09 | 8020 | | 850 | | | 6,800 | 160 | 4.6 | 8 | 240 | |
| 11/20/95 | 10.98 | | | 8020 | Dup | | | | 3,600 | 130 | 11 | 4.4 | 200 | |
| 2/21/96 | 10.98 | 7.40 | 3.58 | 8020 | Filtered+SGC | 1,700 | | | 2,800 | 230 | 2.8 | 3.8 | 44 | |
| 2/21/96 | 10.98 | | | 8020 | Dup | 2,500 | | | 2,200 | 280 | 3 | 4 | 4.6 | |
| 5/13/96 | 10.98 | 7.10 | 3.88 | 8020 | | 400 | < 50 | < 50 | 3,100 | 430 | 12 | 5.2 | 67 | |
| 8/27/96 | 10.98 | 7.42 | 3.56 | 8020 | | 3,100 | | | 4,200 | 300 | 9.3 | 110 | 110 | |
| 8/19/98 | 10.98 | | | | SPH: 0.125 ft. | | | | | | | | | |
| 11/11/98 | 10.98 | 7.09 | 3.93 | | SPH: 0.05 ft. | | | | | | | | | |
| 2/23/99 | 10.98 | 7.31 | 3.67 | | SPH: NM | | | | | | | | | |
| 5/27/99 | 10.98 | 6.91 | 4.25 | | SPH: 0.20 ft. | | | | | | | | | |
| 8/24/99 | 10.98 | 7.46 | 3.72 | | SPH: 0.03 ft. | | | | | | | | | |
| 11/22/99 | 10.98 | 7.96 | 3.15 | | SPH: 0.16 ft. | | | | | | | | | |
| 1/18/00 | 10.98 | 8.08 | 3.05 | | SPH: 0.19 ft. | | | | | | | | | |
| 5/11/00 | 10.98 | 7.52 | 4.47 | | SPH: 0.01 ft. | | | | | | | | | |
| 8/24/00 | 10.98 | 7.50 | 3.53 | | SPH: 0.06 ft. | | | | | | | | | |
| 11/28/00 | 10.98 | 6.39 | 4.62 | | SPH: 0.04 ft. | | | | | | | | | |
| 2/26/01 | 10.98 | 7.80 | 3.50 | 8020 | SPH: 0.40 ft., f | 820 | < 240 | < 60 | 6,100 | 181 | < 5 | 14.2 | < 5 | < 50 |
| 2/26/01 | 10.98 | | | 8260B | | | | | | 270 | 3 | 9 | 3 | (19) |
| 5/17/01 | 10.98 | 7.57 | 3.66 | | SPH: 0.32 ft. | | | | | | | | | |
| 8/16/01 | 10.98 | 7.75 | 3.49 | | SPH: 0.32 ft., f | 740 | 200B | < 100 | 4,200 | 360 | 4.6 | 13 | 12 | 14 |
| 12/15/01 | 10.98 | 7.58 | 3.40 | | SPH: 0.07 ft. | | | | | | | | | |
| 4/3/02 | 10.98 | 6.92 | 4.06 | | SPH: 0.11 ft. | | | | | | | | | |
| 6/21/02 | 10.98 | 7.05 | 3.93 | | SPH: 0.19 ft. | | | | | | | | | |
| 9/12/02 | 10.98 | 7.22 | 4.02 | | SPH: 0.33 ft. | | | | | | | | | |
| 4/22/03 | 10.98 | 4.71 | 6.27 | | SPH: 0.16 ft. | | | | | | | | | |
| 4/28/04 | 10.98 | 5.09 | 5.89 | | SPH: 0.23 ft. | | | | | | | | | |
| 10/27/04 | 10.98 | 6.12 | 4.86 | | SPH: product on probe | | | | | | | | | |

7101 Edgewater Drive, Oakland, California

| Name | Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|--|---------------|---------------------|-----------------------|---------------------|--------|----------------|---------|---------|---------|-----------------|---------|---------|-------------------|-------------------|--------|
| 1727/106 10.98 4.11 SPH: 0.57 ft. | Date | Elevation (feet) | Groundwater (feet) | Elevation (feet) | Method | | (µg/l) | (µg/l) | (µg/l) | (µ g/l) | (µg/l) | (µg/l) | benzene (µg/l) | Xylenes (μg/l) | (µg/l) |
| 1727/106 10.98 4.11 SPH: 0.57 ft. | | <u> </u> | | | | <u> </u> | | | | | | | | | |
| 96066 10.98 | | | | | | | | | | | | | | | |
| 96/66 10.98 | | | | | | | | | | | | | | | |
| 44407 10.98 | | | | | | | | | | , | | | | | |
| 10/2/07 10.98 7.25 3.73 82/08 SGC 2.400 340 Y 2000 890 Y 270 3.8 5.5 3 7.8 | | | | | | | | | | | | | | | |
| SPH: Residual Product noted while bailings SPH: None S | | | | | | | | | | | | | | | |
| Note | 10/2/07 | 10.98 | 7.25 | 3.73 | 8260B | | 2,400 | 340 Y | 2000 | 890 Y | 270 | 3.8 | 5.5 | 3 | 7.8 |
| 3/20/08 | | | | | | | | | | | | | | | |
| 11/21/08 10.98 | (0) | | | | | | | | | | | | | | |
| 11/21/08 10.98 | 3/20/08 (8) | 10.98 | 6.59 | 4.39 | 8260B | | | 820 | 5,900 | 1,100 Y | 500 | 3.5 | 5.9 | 3.1 | 7.7 |
| 11/21/08 (***) 10.98 | | | | | | | | | | | | | | | |
| 4/1/09 10.98 4.48 6.50 SPH: 0.03 ft | 11/21/08 (10) | 10.98 | 6.06 | 4.92 | 8260B | | 1,500 Y | < 300 | 1,200 Y | 450 Y | 96 | 1.9 | < 0.50 | 1.2 | 5.7 |
| 10/30/09 10/98 4.20 6.78 SPH: None - | | | | | | | | | | | | | | | |
| A X 10 10.98 4.20 6.78 SPH: None | | | | | 8260B | SGC | 1.200Y | < 300 | 1.000Y | 560Y | 98 | 4.1 | 3.0 | 4.76 | 5.0 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | * | | * | | | | | | |
| MW-7 | 10/19/10 | | | | 8260B | SPH: None; SGC | 400 | < 300 | 420 | 620 | 100 | 1.7 | < 1.0 | 2.0 B1 | 3.3 |
| MW-7 12/13/91 11.51 8020 <50 | | | | | | SGC | 370 | < 300 | | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | MW-7 | | | | | | | | | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 12/13/91 | 11.51 | | | 8020 | | < 50 | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 12/13/91 | 11.51 | | | 8240 | | | | | | < 5 | < 5 | < 5 | < 5 | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 4/27/93 | 11.51 | | | 8240 | | < 1,000 | | | < 1,000 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | |
| 11/20/95 11.51 8.48 3.03 8020 <50 | 4/19/95 | 11.51 | | | 8240 | | < 50 | < 1,000 | | < 50 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 7/27/95 | 11.51 | 6.87 | 4.64 | 8240 | | < 50 | < 1,000 | | < 50 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | |
| 5/13/96 11.51 6.95 4.56 8020 <50 | 11/20/95 | 11.51 | 8.48 | 3.03 | 8020 | | < 50 | | | < 50 | < 0.5 | < 0.5 | < 0.5 | 1.5 | |
| 8/27/96 11.51 6.80 4.71 8020 | 2/21/96 | 11.51 | 6.29 | 5.22 | 8020 | | < 50 | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | |
| 8/19/98 11.51 6.88 4.63 | 5/13/96 | 11.51 | 6.95 | 4.56 | 8020 | | < 50 | | | | < 0.5 | < 0.5 | < 0.5 | < 0.5 | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 8/27/96 | 11.51 | 6.80 | 4.71 | 8020 | | | | | | < 0.5 | < 0.5 | < 0.5 | < 0.5 | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 8/19/98 | 11.51 | 6.88 | 4.63 | | | | | | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 11/11/98 | 11.51 | 7.40 | 4.11 | | | | | | | | | | | |
| 8/24/99 11.51 6.29 5.22 8020 SGC <50 | 2/23/99 | 11.51 | 5.57 | 5.94 | 8020 | | < 50 | < 200 | < 50 | 80 | < 0.5 | < 0.5 | < 0.5 | 1 | < 5.0 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 5/27/99 | 11.51 | 6.56 | 4.95 | | | | | | | | | | | |
| 1/18/00 11.51 7.31 4.20 <t< td=""><td>8/24/99</td><td>11.51</td><td>6.29</td><td>5.22</td><td>8020</td><td>SGC</td><td>< 50</td><td>< 200</td><td>< 50</td><td>< 50</td><td>< 0.5</td><td>< 0.5</td><td>< 0.5</td><td>< 0.5</td><td>5</td></t<> | 8/24/99 | 11.51 | 6.29 | 5.22 | 8020 | SGC | < 50 | < 200 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 5 |
| 1/18/00 11.51 7.31 4.20 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | | | | | | | | | | | |
| 1/19/00 11.51 8020 SGC <50 | | | | | | | | | | | | | | | |
| 8/24/00 11.51 7.11 4.40 8020 <50 <50 <50 <0.5 <0.5 <0.5 <5.0 | 1/19/00 | 11.51 | | | 8020 | SGC | < 50 | < 200 | < 50 | 54 | 1.5 | 1.5 | 2.4 | 3.8 | < 5.0 |
| | 5/11/00 | 11.51 | 6.41 | 5.10 | | | | | | | | | | | |
| | | | | | 8020 | | < 50 | < 250 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| | | 11.51 | 7.30 | 4.21 | | | | | | | | | | | |

7101 Edgewater Drive, Oakland, California

| Well ID/ Date | TOC Elevation | Depth to Groundwater | Groundwater Elevation | BTEX Method | Notes | ΤΡΗ-d (μg/l) | TPH-mo (µg/l) | TPH-k (µg/l) | TPH-g (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl- benzene | Total Xylenes | MTBE (μg/l) |
|------------------|------------------|-------------------------|--------------------------|----------------|--------------|-----------------|------------------|-----------------|-----------------|-------------------|-------------------|-------------------|-------------------|----------------|
| Date | (feet) | (feet) | (feet) | Method | | (µg/1) | (µg/I) | (µg/I) | (µg/I) | (µg/I) | (µg/I) | (μg/l) | γylenes (μg/l) | (µg/I) |
| 2/27/01 | 11.51 | 5.75 | 5.76 | 8020 | Filtered+SGC | < 50 | < 200 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <5 |
| 5/17/01 | 11.51 | 6.65 | 4.86 | | | | | | | | | | | |
| 8/16/01 | 11.51 | 5.97 | 5.54 | | Filtered+SGC | < 50 | 600B | < 100 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 12/15/01 | 11.51 | 6.43 | 5.08 | | | | | | | | | | | |
| 4/8/02 | 11.51 | 6.17 | 5.34 | 8021 | SGC | 80 | < 200 | | < 50 | < 0.5 | 0.5 | 0.6 | < 0.5 | < 5 |
| 6/21/02 | 11.51 | 6.75 | 4.76 | 8021 | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 3.3 |
| 9/12/02 | 11.51 | 7.05 | 4.46 | 8021 | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 2.6 |
| 4/22/03 | 11.51 | 6.24 | 5.27 | 8021B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 4 C |
| 4/28/04 | 11.51 | 6.61 | 4.90 | 8260B | SGC | < 100 | < 400 | < 100 | < 100 | 1.6 | <1.0 | < 1.0 | < 1.0 | < 1.0 |
| 9/2/05 (1) | 11.51 | 6.56 | 4.95 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 3.2 |
| 4/5/06 (3) | 11.51 | 4.58 | 6.93 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | 2.7 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 9/6/06 | 11.51 | 6.67 | 4.84 | | | | | | | | | | | |
| 4/5/07 | 11.51 | 6.13 | 5.38 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 2.7 |
| 10/2/07 | 11.51 | 7.07 | 4.44 | | | | | | | | | | | |
| 3/20/08 (8) | 11.51 | 6.24 | 5.27 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 2.7 |
| 3/20/08 dup | | | | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 2.6 |
| 11/18/08 | 11.51 | 7.40 | 4.11 | | | | | | | | | | | |
| 4/2/09 (12) | 11.51 | 6.95 | 4.56 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 1.3 |
| 10/29/09 | 11.51 | 6.60 | 4.91 | 8260B | SGC | | | | | | | | | |
| 4/8/10 | 11.51 | 5.11 | 6.4 | | SPH: None | | | | | | | | | |
| 10/19/10 | 11.51 | 7.05 | 4.46 | | SPH: None | | | | | | | | | |
| MW-8 | | | | | | | | | | | | | | |
| 11/20/96 | 12.22 | | | 8020 | | 880 | | | < 50 | 0.66 | < 0.5 | < 0.5 | < 0.5 | |
| 11/20/97 | 12.22 | 9.59 | 2.63 | 8020 | | 200 | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 2 |
| 2/24/98 | 12.22 | 8.42 | 3.80 | 8020 | | < 50 | < 500 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | |
| 6/8/98 | 12.22 | 9.57 | 2.65 | 8020 | | 1,200 | 1,000 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | |
| 8/19/98 | 12.22 | 9.49 | 2.73 | 8020 | SGC | < 50 | < 250 | < 50 | < 50 | 1.6 | 3.4 | 1 | 2.8 | < 5.0 |
| 11/11/98 | 12.22 | 9.64 | 2.58 | 8020 | SGC | < 50 | < 200 | < 50 | < 50 | 0.9 | 0.8 | 0.6 | 2.3 | < 5.0 |
| 2/23/99 | 12.22 | 11.53 | 0.69 | 8020 | | 700 | 1,500 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/27/99 | 12.22 | 9.65 | 2.57 | 8020 | | < 50 | < 200 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 8/24/99 | 12.22 | 9.62 | 2.60 | 8020 | SGC | 70 | < 200 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 11/22/99 | 12.22 | 9.64 | 2.58 | 8020 | SGC | 57 | < 200 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 1/18/00 | 12.22 | 8.31 | 3.91 | 8020 | SGC | < 50 | < 200 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/11/00 | 12.22 | 9.69 | 2.53 | 8020 | SGC | < 50 | < 200 | < 50 | < 50 | < 0.5 | 1.3 | < 0.5 | 2.1 | < 5.0 |
| 8/24/00 | 12.22 | 9.40 | 2.82 | | | | | | | | | | | |
| 8/25/00 | 12.22 | | | 8020 | SGC | 85 | <250 | < 50 | < 50 | | | | | |
| 11/28/00 | 12.22 | 9.40 | 2.83 | 8020 | SGC | < 50 | 910 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 2/27/01 | 12.22 | 9.50 | 2.72 | 8020 | Filtered+SGC | < 50 | < 200 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|---------------------|----------------|--------------|--------------|--------------|-----------------|----------------|--------------|--------------|--------------|------------|------------|--------------|--------------|----------------|
| Date | Elevation | Groundwater | Elevation | Method | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | benzene | Xylenes | (µg/l) |
| | (feet) | (feet) | (feet) | | | | | | | | | (µg/l) | (µg/l) | |
| 5/17/01 | 12.22 | 9.71 | 2.51 | | | | | | | | | | | |
| 5/18/01 | 12.22 | | | 8020 | Filtered+SGC | < 50 | < 200 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 8/16/01 | 12.22 | 9.80 | 2.42 | | Filtered+SGC | < 50 | < 200 | < 100 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 12/15/01 | 12.22 | 9.28 | 2.94 | 8021 | SGC | 390 | 1,300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 4/8/02 | 12.22 | 9.55 | 2.67 | 8021 | SGC | 440 | 800 | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 6/21/02 | 12.22 | 9.71 | 2.51 | | | | | | | | | | | |
| 9/18/02 | 12.22 | 9.86 | 2.36 | 8021 | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <2 |
| 4/22/03 | 12.22 | 9.54 | 2.68 | 8021B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 2 |
| 4/28/04 | 12.22 | | | | | | | | | | | | | |
| 10/27/04 | 12.22 | $NM^{(4)}$ | | | | | | | | | | | | |
| 4/5/06 (3) | 12.22 | 8.73 | 3.49 | 8260B | SGC | 54 Y | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 9/6/06 | 12.22 | 9.50 | 2.72 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 4/3/07 | 12.22 | 9.58 | 2.64 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 10/3/07 | 12.22 | 9.54 | 2.68 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 3/21/08 (8) | 12.22 | 9.61 | 2.61 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 11/19/08 (10) | 12.22 | 9.58 | 2.64 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 4/2/09 (12) | 12.22 | 9.54 | 2.68 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 10/30/09 | 12.22 | 9.67 | 2.55 | 8260B | SGC | < 50 | <300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 4/8/10 | 12.22 | 9.57 | 2.65 | | SPH: None | | | | | | | | | |
| 10/19/10 | 12.22 | 9.61 | 2.61 | | SPH: None | | | | | | | | | |
| | | | | | | | | | | | | | | |
| MW-9 | | | | 0000 | | 4 000 | | | | | | | | |
| 11/20/96 | 10.77 | 5 01 | | 8020 | | 1,900 | | | 240 | 21 | 0.81 | 1.8 | 2.2 | |
| 11/20/97 | 10.77 | 7.91 | 2.86 | 8020 | | | | | 300 | 20 | < 0.5 | < 0.5 | 1.8 | <1.0 |
| 2/24/98 | 10.77 | 6.11 | 4.66 | 8020 | | < 50 | < 500 | < 50 | 2,200 | 540 | 5.6 | 1.6 | 4.9 | |
| 6/8/98 | 10.77 | 7.14 | 3.63 | 8020 | 000 | 1,800 | 890 | < 50 | 840 | 450 | 6.1 | 3.3 0.99 | 5.3 | |
| 8/19/98 | 10.77 | 7.88 | 2.89 | 8020 | SGC SGC | 190 | <250 | 160 | 740 | 370 | 8.6 | | 7.3 | < 5.0 |
| 11/11/98 2/23/99 | 10.77 10.77 | 8.23 6.65 | 2.54 4.12 | 8020 8020 | SGC | < 50 1,100 | 230 3,700 | <50 <50 | 700 1,100 | 130 620 | 4.3 9.7 | < 0.5 1.5 | 3.9 7.7 | <5.0 <5.0 |
| 5/27/99 | 10.77 | 7.70 | 3.07 | 8020 | SGC | 70 | 3,700 | < 50 < 50 | 950 | 470 | 9.7 11 | 1.5 | 9.2 | < 5.0 < 5.0 |
| 8/24/99 | 10.77 | 8.12 | 2.65 | 8020 | SGC | 890 | 1,700 | < 50 | 290 | | 2.8 | < 0.5 | 3 | < 5.0 < 5.0 |
| 11/22/99 | 10.77 | 8.33 | 2.44 | 8020 | SGC | 1,000 | 6,000 | < 50 < 50 | 170 | 45 12 | 1.8 | < 0.5 | 2 | <5.0 <5.0 |
| 1/18/00 | 10.77 | 8.63 | 2.44 | 8020 | SGC | 200 a | 2,300 | < 50 < 50 | 160 | 5.7 | 1.8 | 0.6 | 4.2 | |
| 5/11/00 | 10.77 | 8.63 7.70 | 3.07 | 8020 8020 | SGC | 200 a 180 a | 2,300 980 | < 100 | 1,050 | 280 | 7.0 | <2.5 | 4.2 5.9 | <5.0 <25 |
| 8/24/00 | 10.77 | 8.31 | 2.46 | 8020 | 300 | 160 a | 980 | < 100 | 1,030 | 280 | 7.0 | < 2.3 | 3.9 | |
| 8/25/00 | 10.77 | 0.31 | 2.40 | 8020 | SGC | 580 | 2,200 | 170 | 180 | 23 | 2.4 | < 0.5 | 2.7 | < 5.0 |
| 11/28/00 | 10.77 | 8.45 | 2.32 | 8020 | SGC | 200 | 1,600 | < 50 | 130 | 1.9 | < 0.5 | < 0.5 | < 0.5 | <5.0 <5.0 |
| 11/28/00 | 10.77 | 8.45 | 2.32 | | Filtered+SGC | < 50 | <200 | < 50 | | 1.9 | | | | < 5.0 |
| 2/26/01 | 10.77 | 6.40 | 4.37 | 8020 | Filtered+SGC | 120 | <200 | < 50 | 142 | 33 | 1.8 | < 0.5 | < 0.5 | < 5.0 |
| 2/20/01 | 10.77 | 0.70 | ١٠.٦ | 0020 | I litered SGC | 120 | \200 | \30 | 174 | 33 | 1.0 | \0. 5 | \0. 3 | ₹3.0 |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|---------------|-----------|-------------|-------------|--------|----------------|----------|--------|----------|--------|---------|---------|---------|---------|--------|
| Date | Elevation | Groundwater | Elevation | Method | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | benzene | Xylenes | (µg/l) |
| | (feet) | (feet) | (feet) | | | | | | | | | (µg/l) | (µg/l) | |
| 5/17/01 | 10.77 | 9.88 | 0.89 | | | | | | | | | | | |
| 5/18/01 | 10.77 | | | 8020 | Filtered+SGC | < 50 | < 200 | < 50 | 74 | 4.6 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 8/16/01 | 10.77 | 8.05 | 2.72 | | Filtered+SGC | < 50 | < 200 | < 100 | 70 | 0.62 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 12/16/01 | 10.77 | 7.75 | 3.02 | 8021 | SGC | 1,400 | 4,100 | < 50 | 210 | 15 | 1.6 | < 0.5 | 2.2 | < 5 |
| 4/5/02 | 10.77 | 7.50 | 3.27 | 8021 | SGC | 870 | 1,000 | | 1,498 | 367 | 11 | 2.1 | 7.8 | < 5 |
| 6/20/02 | 10.77 | 8.27 | 2.50 | 8021 | SGC | < 50 | < 300 | < 50 | 430 | 180 | 5.7 | 2.4 | 4.15 | < 2 |
| 9/18/02 | 10.77 | 8.25 | 2.52 | 8021 | SGC | 63 b,c | < 300 | 60 | 250 | 49 | 5.8 | < 0.5 | 3.1 | <2 |
| 4/22/03 | 10.77 | 7.25 | 3.52 | 8021B | SGC | < 50 | < 300 | < 50 | 69 | 4.1 C | < 0.5 | < 0.5 | 0.9 | <2 |
| 4/28/04 | 10.77 | | | | | | | | | | | | | |
| 10/27/04 | 10.77 | $NM^{(4)}$ | | | | | | | | | | | | |
| 9/6/06 | 10.77 | 8.44 | 2.33 | 8260B | SGC | 210 Y | < 300 | 150 Y | 240 | 58 | 5.3 | < 0.5 | 5.68 | < 0.5 |
| 4/3/07 | 10.77 | 8.28 | 2.49 | 8260B | SGC | 180 H Y | < 300 | 140 H | 240 Z | 27 | 4.2 | < 0.5 | 5.32 | < 0.5 |
| 4/3/07 | 10.77 | | | 8260B | Dup | 190 H Y | < 300 | 160 H | 260 Z | 28 | 4.5 | < 0.5 | 5.87 | < 0.5 |
| 10/3/07 | 10.77 | 8.58 | 2.19 | 8260B | SGC | 110 Y | < 300 | 110 Y Z | 240 Y | 1 | 2.4 | < 0.5 | 3.53 | < 0.5 |
| 3/20/08 (8) | 10.77 | 8.46 | 2.31 | 8260B | SGC | 170 Y | < 300 | 150 Y | 230 | 65 | 4.2 | < 0.5 | 5.13 | < 0.5 |
| 3/20/08 dup | | | | 8260B | SGC | 190 Y | < 300 | 180 Y | 250 | 66 | 4.4 | < 0.5 | 5.5 | < 0.5 |
| 11/21/08 (10) | 10.77 | 8.63 | 2.14 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 4/2/09 (12) | 10.77 | 8.08 | 2.69 | 8260B | SGC | 130 Y | 380 | 53 Y | 70 Y | 82 | 1.4 | < 0.50 | 1.0 | < 0.50 |
| 10/30/09 | 10.77 | 8.91 | 1.86 | 8260B | SGC | 220Y | < 300 | 130Y | < 50 | < 0.50 | < 0.50 | < 0.50 | 0.61 | < 0.50 |
| 4/8/10 | 10.77 | 7.37 | 3.4 | 8260B | SPH: None | 110 Y, F | < 300 | 52 Y, F | | | | | | |
| 4/8/10 dup | | | | 8260B | | 250 Y, F | < 300 | 170 Y, F | | | | | | |
| 4/29/10 | 10.77 | 7.3 | 3.47 | 8260B | SPH: None | 90 Y, F | < 300 | < 50 | 87 | 5.0 | 1.2 | < 0.50 | 1.8 | < 0.50 |
| 4/29/10 dup | | | | 8260B | | <50 F | < 300 | < 50 | 98 | 4.9 | 1.2 | < 0.50 | 1.7 | < 0.50 |
| 10/19/10 | 10.77 | 8.37 | 2.40 | 8260B | SPH: None; SGC | < 50 | < 300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | 0.51 B1 | < 0.50 |
| MW-10 | | | | | | | | | | | | | | |
| 11/20/96 | 10.59 | | | 8020 | | 940 | | | < 50 | 49 | 0.59 | 0.54 | 1.2 | |
| 11/20/97 | 10.59 | 7.70 | 2.89 | 8020 | | | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | |
| 2/24/98 | 10.59 | 4.39 | 6.20 | 8020 | | < 50 | < 500 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | |
| 6/8/98 | 10.59 | 6.94 | 3.65 | 8020 | | 500 | < 500 | < 50 | < 50 | 7.3 | < 0.5 | < 0.5 | < 0.5 | |
| 8/19/98 | 10.59 | 6.99 | 3.60 | 8020 | SGC | 240 | 520 | 110 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 11/11/98 | 10.59 | 7.57 | 3.02 | 8020 | SGC | < 50 | < 200 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 2/23/99 | 10.59 | 5.51 | 5.08 | 8020 | | 170 | 1,200 | < 50 | < 50 | 1.3 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/27/99 | 10.59 | 6.72 | 3.87 | 8020 | SGC | < 50 | < 200 | < 50 | 350 | 170 | 1.5 | 0.5 | 2.3 | < 5.0 |
| 8/24/99 | 10.59 | 7.27 | 3.32 | 8020 | SGC | 140 | 300 | < 50 | 380 | 160 e | < 0.5 | < 0.5 | 2.6 | < 5.0 |
| 11/22/99 | 10.59 | 7.71 | 2.88 | 8020 | SGC | 570 | 3,400 | < 50 | 110 | 5.1 | < 0.5 | < 0.5 | 0.72 | < 5.0 |
| 1/18/00 | 10.59 | 7.77 | 2.82 | | | | | | | | | | | |
| 1/19/00 | 10.59 | | | 8020 | SGC | 120 a,b | 1,200 | < 50 | 100 | < 0.5 | < 0.5 | 0.8 | < 0.5 | < 5.0 |
| 5/11/00 | 10.59 | 7.00 | 3.59 | 8020 | SGC | 110 a | 990 | < 50 | 145 | 1.62 | 0.5 | 0.5 | 0.9 | < 5.0 |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|---------------|-----------|-------------|-------------|--------|--------------|-----------|--------|--------|-----------|-----------------|---------|---------|---------|--------|
| Date | Elevation | Groundwater | Elevation | Method | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µ g/l) | (µg/l) | benzene | Xylenes | (µg/l) |
| | (feet) | (feet) | (feet) | | | | | | | | | (µg/l) | (µg/l) | |
| 8/24/00 | 10.59 | 7.31 | 3.28 | | | | | | | | | | | |
| 8/25/00 | 10.59 | | | 8020 | SGC | 430 | 1,300 | 110 | < 50 | 1.0 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 11/28/00 | 10.59 | 7.90 | 2.69 | 8020 | SGC | 220 | 1,500 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 2/27/01 | 10.59 | 5.80 | 4.79 | 8020 | Filtered+SGC | 85 | < 230 | < 57 | < 50 | 1.3 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/17/01 | 10.59 | 6.27 | 4.32 | | | | | | | | | | | |
| 5/18/01 | 10.59 | | | 8020 | Filtered+SGC | < 50 | < 200 | < 50 | < 50 | 0.7 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 8/16/01 | 10.59 | 8.75 | 1.84 | | Filtered+SGC | < 50 | < 200 | < 100 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 12/16/01 | 10.59 | 6.97 | 3.62 | 8021 | SGC | 410 | 2,100 | < 50 | < 50 | 2.4 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 4/8/02 | 10.59 | 6.51 | 4.08 | 8021 | SGC | 220 | 300 | | < 50 | 1.1 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 6/20/02 | 10.59 | 8.10 | 2.49 | 8021 | SGC | 1,100 a,c | 6,200 | < 50 | 120 | 34 | < 0.5 | < 0.5 | < 0.5 | <2 |
| 9/17/02 | 10.59 | 7.66 | 2.93 | 8021 | SGC | 150 a,c | 880 | < 50 | 130 a,c,j | 32 | < 0.5 | 2.3 | < 0.5 | <2 |
| 4/22/03 | 10.59 | 6.81 | 3.78 | 8021B | SGC | < 50 | < 300 | < 50 | 51 | 1.0 C | <.50 | 1.2 | <.50 | <2 |
| 4/28/04 | 10.59 | 6.70 | 3.89 | 8260B | SGC | < 100 | <400 | < 100 | 114 | 14 | <1.0 | 6.9 | 5.2 | 3.5 |
| 10/28/04 | 10.59 | 6.98 | 3.61 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 9/1/05 (1) | 10.59 | 6.76 | 3.83 | 8260B | SGC | < 50 | < 300 | < 50 | 110 | 2.4 | < 0.5 | < 0.5 | 0.7 | < 0.5 |
| 4/5/06 (3) | 10.59 | 4.86 | 5.73 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | 2.1 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 9/6/06 | 10.59 | 9.01 | 1.58 | 8260B | SGC | 98 H Y | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 4/4/07 | 10.59 | 8.99 | 1.60 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 10/3/07 | 10.59 | 9.78 | 0.81 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | 30 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 3/21/08 (8) | 10.59 | 10.20 | 0.39 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | 3.9 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 11/19/08 (10) | 10.59 | 9.55 | 1.04 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | 11 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 11/19/08 dup | | | | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | 11 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 4/1/09 | 10.59 | 7.52 | 3.07 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 10/30/09 | 10.59 | 8.80 | 1.79 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 4/8/10 | 10.59 | 6.23 | 4.36 | | SPH: None | < 50 | < 300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 10/19/10 | 10.59 | 7.38 | 3.21 | | SPH: None | | | | | | | | | |
| MW-11 | | | | | | | | | | | | | | |
| 1/18/00 | 11.60 | 7.08 | 4.52 | | | | | | | | | | | |
| 1/19/00 | 11.60 | | | 8020 | SGC | < 50 | 500 | < 50 | 220 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/11/00 | 11.60 | 5.95 | 5.65 | 8020 | SGC | < 50 | 430 | < 50 | 600 | 23 | 2.1 | 18 | 15 | < 5.0 |
| 8/24/00 | 11.60 | 6.58 | 5.02 | 8020 | | < 50 | < 250 | < 50 | 110 | 5.9 | < 0.5 | 0.73 | 0.64 | < 5.0 |
| 11/28/00 | 11.60 | 6.91 | 4.69 | 8020 | SGC | < 50 | < 200 | < 50 | 180 | 4 | < 0.5 | 1.9 | < 0.5 | < 5.0 |
| 2/27/01 | 11.60 | 5.65 | 5.95 | 8020 | Filtered+SGC | 86 | < 240 | < 60 | 720 | 29 | 5.2 | 38 | 36 | < 5.0 |
| 5/17/01 | 11.60 | 6.85 | 4.75 | 8020 | Filtered+SGC | < 50 | < 200 | < 50 | 720 | 36 | 3.4 | 15 | 18 | 9.7 |
| 8/16/01 | 11.60 | 6.01 | 5.59 | | Filtered+SGC | < 50 | 500B | < 100 | 110 | 4.8 | < 0.5 | 1.4 | < 0.5 | < 5 |
| 12/15/01 | 11.60 | 6.26 | 5.34 | 8021 | SGC | 200 | 300 | < 50 | 170 | 1.7 | 0.6 | 2.4 | 1.8 | < 2 |
| 4/5/02 | 11.60 | 5.47 | 6.13 | 8021 | SGC | 160 | < 200 | | 330 | 8.9 | 2.0 | 6.9 | 8.7 | < 5 |
| 6/21/02 | 11.60 | 6.17 | 5.43 | 8021 | SGC | < 50 | < 300 | < 50 | 280 | 16 | 1.8 | 8.7 | 9.6 | 3.6 |

7101 Edgewater Drive, Oakland, California

| Well ID/ Date | TOC Elevation | Depth to Groundwater | Groundwater Elevation | BTEX Method | Notes | TPH-d (μg/l) | TPH-mo (µg/l) | TPH-k (μg/l) | TPH-g (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl- benzene | Total Xylenes | MTBE (μg/l) |
|------------------|------------------|-------------------------|--------------------------|----------------|--------------|-----------------|------------------|-----------------|-----------------|-------------------|-------------------|-------------------|------------------|----------------|
| | (feet) | (feet) | (feet) | | | | | | | | | (µg/l) | (μg/l) | |
| 9/12/02 | 11.60 | 6.60 | 5.00 | 8021 | SGC | < 50 | < 300 | < 50 | 93 | < 0.5 | < 0.5 | 1.1 | < 0.5 | 2.1 |
| 4/24/03 | 11.60 | 5.71 | 5.89 | 8021B | SGC | < 50 | < 300 | < 50 | 320 | 21 | 2.1 | 12 | 6.13 | 8.9 |
| 4/28/04 | 11.60 | 5.92 | 5.68 | 8260B | SGC | < 100 | < 400 | < 100 | 360 | 18 | < 1.0 | 6.5 | 4.5 | 4 |
| 10/27/04 | 11.60 | 6.59 | 5.01 | 8260B | SGC | | | | | | | | | |
| 9/2/05 (1) | 11.60 | 6.22 | 5.38 | 8260B | SGC | < 50 | < 300 | < 50 | 85 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 4.5 |
| 4/4/06 (3) | 11.60 | 4.17 | 7.43 | 8260B | SGC | 71 LY | < 300 | 75 L Y | 230 | 5.7 | 0.9 | 14 | 7.0 | 6.5 |
| 4/4/06 | 11.60 | | | 8260B | dup | < 50 | < 300 | 55 L Y | 220 | 6.5 | 1.0 | 15 | 7.3 | 7.4 |
| 9/6/06 | 11.60 | 6.46 | 5.14 | | | | | | | | | | | |
| 4/5/07 | 11.60 | 5.60 | 6.00 | 8260B | SGC | 66 Y | < 300 | 55 Y | 270 Y | 9.6 | 0.7 | 7.3 | 2.4 | 11 |
| 10/2/07 | 11.60 | 6.83 | 4.77 | | | | | | | | | | | |
| 3/20/08 (8) | 11.60 | 6.83 | 4.77 | 8260B | SGC | < 50 | < 300 | < 50 | 160 | 3.5 | < 0.5 | 5.4 | 0.92 | 13 |
| 11/18/08 | 11.60 | 7.00 | 4.60 | | | | | | | | | | | |
| 4/2/09 (12) | 11.60 | 5.24 | 6.36 | 8260B | SGC | < 50 | < 300 | < 50 | 94 Y | 0.98 | < 0.50 | 2.9 | < 0.50 | 13 |
| 10/29/09 | 11.60 | 6.33 | 5.27 | 8260B | SGC | | | | | | | | | |
| 4/8/10 | 11.60 | 4.51 | 7.09 | | SPH: None | | | | | | | | | |
| 10/19/10 | 11.60 | 6.67 | 4.93 | | SPH: None | | | | | | | | | |
| MW-12 | | | | | | | | | | | | | | |
| 1/18/00 | 10.43 | 8.11 | 2.32 | | | | | | | | | | | |
| 1/19/00 | 10.43 | | | 8020 | SGC | 1,800 a | 11,000 | < 50 | 200 | < 0.5 | 3.4 | 1.5 | 8.4 | < 5.0 |
| 5/11/00 | 10.43 | 6.78 | 3.65 | 8020 | SGC | 2,400 a | 4,900 | < 100 | 370 | < 0.5 | < 0.5 | < 0.5 | 0.9 | < 5.0 |
| 8/24/00 | 10.43 | 7.56 | 2.87 | | | | | | | | | | | |
| 8/25/00 | 10.43 | | | 8020 | SGC | 3,500 | 5,000 | 3,700 | 170 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 11/28/00 | 10.43 | 8.13 | 2.30 | 8020 | SGC | 2,100 | 14,000 | < 50 | 290 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 11/28/00 | 10.43 | 8.13 | 2.30 | | Filtered+SGC | 50 | < 200 | < 50 | | | | | | |
| 2/27/01 | 10.43 | 6.00 | 4.43 | 8020 | Filtered+SGC | 320 | < 250 | 66 | 110 | 1.4 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/17/01 | 10.43 | 7.01 | 3.42 | 8020 | Filtered+SGC | < 50 | < 200 | < 50 | 220 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 8/16/01 | 10.43 | 8.47 | 1.96 | 8020 | Filtered+SGC | 200 | 300B | < 100 | 160 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 4/8/02 | 10.43 | 6.65 | 3.78 | 8021 | SGC | 500 | 500 | | 180 | < 0.5 | < 0.5 | 0.7 | <1.5 | < 5 |
| 6/21/02 | 10.43 | 7.10 | 3.33 | 8021 | SGC | 1,100 a,b,c | 3,000 h | 640 | 180 | < 0.5 | < 0.5 | 0.63 | 1.62 | <2 |
| 9/17/02 | 10.43 | 7.75 | 2.68 | 8021 8021P | SGC | 220 a,b,c | 360 | 190 | 130 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <2 |
| 4/22/03 | 10.43 | 6.60 | 3.83 | 8021B | SGC | 140 L Y | < 300 | 120 | 150 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <2 |
| 4/28/04 | 10.43 | 6.60 | 3.83 | 8260B | SGC | <550 | 1,020 | < 100 | < 100 | < 0.5 | < 1.0 | < 1.0 | <1.0 | <1.0 |
| 10/29/04 | 10.43 | 7.87 | 2.56 | 8260B | SGC | 240 H L Y | 460 | 180 | 170 H | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 9/2/05 (1) | 10.43 | 7.04 | 3.39 | 8260B | SGC | < 50 | < 300 | < 50 | 170 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 9/2/05 (1) | 10.43 | 7.04 | 3.39 | 8260B | SGC | 110 L Y | < 300 | 120 | 150 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 4/4/06 (3) | 10.43 | 4.49 | 5.94 | 8260B | SGC | 110 Y | < 300 | 110 Y | 110 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 9/6/06 | 10.43 | 7.43 | 3.00 | 8260B | SGC | 230 Y | < 300 | 200 Y | 120 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|---------------|---------------------|-----------------------|---------------------|--------|----------------|-----------------|---------|---------|--------|---------|---------|---------|-------------------|--------|
| Date | Elevation (feet) | Groundwater (feet) | Elevation (feet) | Method | | (µ g/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | benzene | Xylenes (µg/l) | (µg/l) |
| | (reet) | (reet) | (reet) | | | | | | | | | (µg/l) | (µg/1) | |
| 4/5/07 | 10.43 | 6.58 | 3.85 | 8260B | SGC | 340 H Y | 360 H L | 230 H Y | 160 Y | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 10/2/07 | 10.43 | 8.14 | 2.29 | 8260B | SGC | 290 Y | < 300 | 230 | 160 Y | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 3/19/08 | 10.43 | 6.45 | 3.98 | 8260B | SGC | 620 Y | 340 | 430 | 130 Y | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 11/21/08 (10) | 10.43 | 8.27 | 2.16 | 8260B | SGC | 170 Y | < 300 | 120 Y | 59 Y | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 4/1/09 | 10.43 | 6.30 | 4.13 | 8260B | SGC | 330 Y | < 300 | 300 | 100 Y | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 10/29/09 | 10.43 | 7.73 | 2.70 | 8260B | SGC | 280Y | < 300 | 220Y | 160Y | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 4/8/10 | 10.43 | 6.07 | 4.36 | 8260B | SPH: None | 320 Y | < 300 | 250 | 140 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 10/19/10 | 10.43 | 7.85 | 2.58 | | SPH: None | | | | | | | | | |
| MW-13 | | | | | | | | | | | | | | |
| 1/18/00 | 11.34 | 9.63 | 1.71 | 8020 | SGC | 8,800 a | 120,000 | < 50 | < 50 | < 0.5 | 0.8 | < 0.5 | < 0.5 | < 5.0 |
| 5/11/00 | 11.34 | 10.12 | 1.22 | 8020 | SGC | 11,000 a | 110,000 | < 500 | 70 | 1.6 | 5.4 | 1.2 | 7.6 | < 5.0 |
| 8/24/00 | 11.34 | 10.22 | 1.12 | | | | | | | | | | | |
| 8/25/00 | 11.34 | | | 8020 | SGC | 3,100 | 13,000 | 1,200 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 11/28/00 | 11.34 | 10.50 | 0.84 | 8020 | SGC | 2,400 | 36,000 | < 1300 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 11/28/00 | 11.34 | 10.50 | 0.84 | | Filtered+SGC | 280 | 1,100 | < 50 | | | | | | |
| 2/26/01 | 11.34 | 9.60 | 1.74 | 8020 | Filtered+SGC | 100 | < 260 | < 64 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/17/01 | 11.34 | 10.10 | 1.24 | | | | | | | | | | | |
| 5/18/01 | 11.34 | | | 8020 | Filtered+SGC | < 50 | < 200 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 8/16/01 | 11.34 | 10.50 | 0.84 | | Filtered+SGC | < 50 | 300B | < 100 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 12/16/01 | 11.34 | 9.43 | 1.91 | 8021 | SGC | 1,900 | 18,000 | < 250 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 4/8/02 | 11.34 | 10.24 | 1.10 | 8021 | SGC | 440 | 900 | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 6/20/02 | 11.34 | 10.75 | 0.59 | 8021 | SGC | 270 a,c | 1,500 h | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <2 |
| 9/18/02 | 11.34 | 10.60 | 0.74 | 8021 | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <2 |
| 4/22/03 | 11.34 | 10.46 | 0.88 | 8021B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 2.0 |
| 4/28/04 | 11.34 | 10.22 | 1.12 | 8260B | SGC | < 100 | 799 | < 100 | < 100 | < 0.5 | < 1.0 | < 1.0 | <1.0 | < 1.0 |
| 10/28/04 | 11.34 | 9.50 | 1.84 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 9/1/05 (1) | 11.34 | 9.56 | 1.78 | 8260B | SGC | < 50 | 320 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 4/5/06 (3) | 11.34 | 7.86 | 3.48 | 8260B | SGC | 180 H Y | 910 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 9/6/06 | 11.34 | 10.53 | 0.81 | 8260B | SGC | 150 H Y | 730 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 4/4/07 | 11.34 | 9.73 | 1.61 | 8260B | SGC | 58 H Y | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 10/3/07 | 11.34 | 10.18 | 1.16 | 8260B | SGC | 120 Y | 460 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 3/20/08 (8) | 11.34 | 9.54 | 1.80 | 8260B | SGC | 53 Y | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 11/21/08 (10) | 11.34 | 10.41 | 0.93 | 8260B | SGC | 120 Y | 630 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 4/2/09 (12) | 11.34 | 10.41 | 0.93 | 8260B | SGC | 110 Y | 610 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 10/30/09 | 11.34 | 9.65 | 1.69 | 8260B | SGC | 81Y | 650 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 4/8/10 | 11.34 | 9.96 | 1.38 | 8260B | SPH: None | 61 Y | 330 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 10/19/10 | 11.34 | 9.50 | 1.84 | 8260B | SPH: None; SGC | 150 Y | 940 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|---------------|---------------------|-----------------------|---------------------|--------|----------------|----------|--------|--------|--------|---------|---------|-------------------|-------------------|-----------------|
| Date | Elevation (feet) | Groundwater (feet) | Elevation (feet) | Method | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | benzene (µg/l) | Xylenes (µg/l) | (/ g/l) |
| MW-14 | | ı | | | | ı | | | | | | | | |
| 1/18/00 | 10.05 | 7.37 | 2.68 | 8020 | SGC | 1,700 a | 22,000 | < 50 | 120 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/11/00 | 10.05 | 6.73 | 3.32 | 8020 | SGC | 360 a | 4,300 | < 100 | 120 | < 0.5 | < 0.5 | < 0.5 | 0.5 | <5.0 |
| 8/24/00 | 10.05 | 7.30 | 2.75 | | 550 | | | | | | | | | |
| 8/25/00 | 10.05 | | | 8020 | SGC | 1,000 | 3,100 | 460 | 90 | 6.3 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 11/28/00 | 10.05 | 7.40 | 2.65 | 8020 | SGC | 380 | 6,400 | < 250 | 140 | 7.4 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 11/28/00 | 10.05 | 7.40 | 2.65 | | Filtered+SGC | < 50 | < 200 | < 50 | | | | | | |
| 2/26/01 | 10.05 | 6.20 | 3.85 | 8020 | Filtered+SGC | 150 | <230 | < 58 | 73 | 2.3 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/17/01 | 10.05 | 7.74 | 2.31 | | | | | | | | | | | |
| 5/18/01 | 10.05 | | | 8020 | Filtered+SGC | 120 | < 200 | < 50 | 100 | 11 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 8/16/01 | 10.05 | 7.85 | 2.20 | | Filtered+SGC | < 50 | < 200 | < 100 | 60 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 12/16/01 | 10.05 | 6.60 | 3.45 | 8021 | SGC | 1,110 | 3,000 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 4/9/02 | 10.05 | 6.58 | 3.47 | 8021 | SGC | 870 | 1,100 | | 250 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 6/20/02 | 10.05 | 7.52 | 2.53 | 8021 | SGC | < 50 | 310 h | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <2 |
| 9/18/02 | 10.05 | 7.55 | 2.50 | 8021 | SGC | < 50 | < 300 | < 50 | < 50 | 1.3 | < 0.5 | 0.80 | < 0.5 | <2 |
| 4/22/03 | 10.05 | 6.71 | 3.34 | 8021B | SGC | < 50 | < 300 | < 50 | 61 | 4.2 | < 0.5 | 1.0 | < 0.5 | 12.0 |
| 4/28/04 | 10.05 | 6.81 | 3.24 | 8260B | SGC | < 230 | < 400 | < 100 | 241 | 1.4 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| 10/28/04 | 10.05 | 6.99 | 3.06 | 8260B | SGC | < 50 | < 300 | < 50 | 56 | 3.5 | < 0.5 | < 0.5 | < 0.5 | 0.5 |
| 10/28/04 | 10.05 | | | 8260B | dup | < 50 | < 300 | < 50 | 53 | 1.9 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 9/1/05 (1) | 10.05 | 7.60 | 2.45 | 8260B | SGC | < 50 | < 300 | < 50 | 79 | 6.7 | < 0.5 | < 0.5 | < 0.5 | 0.7 |
| 4/5/06 (3) | 10.05 | 5.91 | 4.14 | 8260B | SGC | 50 Y | < 300 | < 50 | < 50 | 1.7 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 9/6/06 | 10.05 | 7.70 | 2.35 | 8260B | SGC | 140 H Y | < 300 | 79 H Y | 60 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 0.51 |
| 4/4/07 | 10.05 | 7.52 | 2.53 | 8260B | SGC | 100 H Y | < 300 | 50 H Y | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 4/4/07 | 10.05 | | | 8260B | Dup | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 10/3/07 | 10.05 | 8.45 | 1.60 | 8260B | SGC | 61 Y | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 3/20/08 (8) | 10.05 | 7.80 | 2.25 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 11/21/08 (10) | 10.05 | 8.45 | 1.60 | 8260B | SGC | 150 Y | 660 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 4/2/09 (12) | 10.05 | 7.20 | 2.85 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 10/30/09 | 10.05 | 9.11 | 0.94 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 4/8/10 | 10.05 | 6.62 | 3.43 | 8260B | SPH: None | < 50 | < 300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 10/19/10 | 10.05 | 7.23 | 2.82 | 8260B | SPH: None; SGC | 210 | < 300 | 110 | 54 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| MW-15 | | | | | | | | | | | | | | |
| 1/18/00 | 12.36 | 10.56 | 1.80 | 8020 | SGC | 12,000 a | 89,000 | < 50 | 110 | 3.8 | 2.1 | 1 | 4.6 | < 5.0 |
| 5/11/00 | 12.36 | 10.03 | 2.33 | 8020 | SGC | 120 a | 590 | < 50 | 90 | 0.9 | 0.9 | < 0.5 | 3.3 | < 5.0 |
| 8/24/00 | 12.36 | 10.22 | 2.14 | | | | | | | | | | | |
| 8/25/00 | 12.36 | | | 8020 | SGC | 1,900 | 8,600 | 1,000 | < 50 | 1.9 | < 0.5 | < 0.5 | 1.5 | < 5.0 |
| 11/28/00 | 12.36 | 10.30 | 2.06 | 8020 | SGC | 2,500 | 36,000 | < 1300 | 80 | 1.7 | < 0.5 | < 0.5 | 1.6 | < 5.0 |
| 11/28/00 | 12.36 | 10.30 | 2.06 | | Filtered+SGC | 73 | < 200 | < 50 | | | | | | |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|---------------|-----------|-------------|-------------|--------|----------------|---------|---------|---------|--------|---------|---------|---------|---------|--------|
| Date | Elevation | Groundwater | Elevation | Method | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | benzene | Xylenes | (µg/l) |
| | (feet) | (feet) | (feet) | | | | | | | | | (µg/l) | (µg/l) | |
| 2/26/01 | 12.36 | 9.30 | 3.06 | 8020 | Filtered+SGC | 190 | < 240 | < 60 | 55 | 0.6 | < 0.5 | < 0.5 | 0.5 | < 5.0 |
| 5/17/01 | 12.36 | 10.09 | 2.27 | | | | | | | | | | | |
| 5/18/01 | 12.36 | | | 8020 | Filtered+SGC | 210 | <230 | < 57 | 66 | 1.5 | < 0.5 | < 0.5 | 2.1 | < 5.0 |
| 8/16/01 | 12.36 | 10.20 | 2.16 | | Filtered+SGC | < 50 | B500 | < 100 | < 50 | < 0.5 | < 0.5 | < 0.5 | 2.4 | < 5 |
| 12/16/01 | 12.36 | 9.80 | 2.56 | 8021 | SGC | 3,800 | 15,000 | < 250 | < 50 | < 0.5 | < 0.5 | < 0.5 | 2 | < 5 |
| 4/5/02 | 12.36 | 9.58 | 2.78 | 8021 | SGC | 1,000 | 1,400 | | < 50 | < 0.5 | < 0.5 | < 0.5 | 2.3 | < 5 |
| 6/20/02 | 12.36 | 10.24 | 2.12 | 8021 | SGC | 670 a,c | 2,700 h | 95 c,i | < 50 | 0.83 | < 0.5 | < 0.5 | 2.20 | <2 |
| 9/18/02 | 12.36 | 9.89 | 2.47 | 8021 | SGC | 70 a,c | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | 1.5 | 1.71 | <2 |
| 4/22/03 | 12.36 | 9.55 | 2.81 | 8021B | SGC | < 50 | < 300 | < 50 | < 50 | 1 C | <.50 | 1.4 | 1.9 | <2 |
| 4/28/04 | 12.36 | 9.68 | 2.68 | 8260B | SGC | < 250 | 567 | < 100 | < 100 | < 0.5 | < 1.0 | < 1.0 | < 1.0 | 2.8 |
| 10/28/04 | 12.36 | 9.58 | 2.78 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | 2.2 | < 0.5 |
| 9/1/05 (1) | 12.36 | 9.56 | 2.80 | 8260B | SGC | 420 Y | < 300 | 120 H Y | 55 | < 0.5 | < 0.5 | < 0.5 | 2.0 | < 0.5 |
| 4/5/06 (3) | 12.36 | 8.76 | 3.60 | 8260B | SGC | 300 H Y | 760 | 87 H Y | < 50 | < 0.5 | < 0.5 | < 0.5 | 2.4 | < 0.5 |
| 9/6/06 | 12.36 | 9.98 | 2.38 | 8260B | SGC | 220 H Y | 400 | 80 H Y | < 50 | < 0.5 | < 0.5 | < 0.5 | 2.06 | < 0.5 |
| 4/3/07 | 12.36 | 10.05 | 2.31 | 8260B | SGC | 130 H Y | < 300 | 63 H Y | < 50 | < 0.5 | < 0.5 | < 0.5 | 2.38 | < 0.5 |
| 10/3/07 | 12.36 | 10.16 | 2.20 | 8260B | SGC | 150 Y | 550 | < 50 | 55 Y | < 0.5 | < 0.5 | < 0.5 | 1.96 | < 0.5 |
| 3/20/08 (8) | 12.36 | 10.08 | 2.28 | 8260B | SGC | 88 Y | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | 2.02 | < 0.5 |
| 11/19/08 (10) | 12.36 | 10.28 | 2.08 | 8260B | SGC | 110 Y | < 300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | 1.78 | < 0.50 |
| 4/2/09 (12) | 12.36 | 9.91 | 2.45 | 8260B | SGC | 85 Y | < 300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | 0.82 | < 0.50 |
| 10/30/09 | 12.36 | 10.24 | 2.12 | 8260B | SGC | 110Y | < 300 | < 50 | 81Y | < 0.50 | < 0.50 | < 0.50 | 2.41 | < 0.50 |
| 4/8/10 | 12.36 | 9.59 | 2.77 | | SPH: None | | | | | | | | | |
| 10/19/10 | 12.36 | 10.21 | 2.15 | | SPH: None | | | | | | | | | |
| | | | | | | | | | | | | | | |
| MW-16 | | | | | | | | | | | | | | |
| 1/18/00 | 13.57 | 10.22 | 3.43 | | SPH: 0.1 ft. | | | | | | | | | |
| 5/11/00 | 13.57 | 13.31 | 0.27 | | SPH: 0.01 ft. | | | | | | | | | |
| 8/24/00 | 13.57 | 8.91 | 4.66 | | SPH: NM | | | | | | | | | |
| 11/28/00 | 13.57 | 13.05 | 0.86 | | SPH: 0.42 ft. | | | | | | | | | |
| 2/26/01 | 13.57 | 13.10 | 0.79 | | SPH: 0.40 ft. | | | | | | | | | |
| 5/17/01 | 13.57 | 12.62G | | | SPH: NM | | | | | | | | | |
| 8/16/01 | 13.57 | 11.94G | | | SPH: NM | | | | | | | | | |
| 12/15/01 | 13.57 | NM | | | SPH: NM | | | | | | | | | |
| 4/3/02 | 13.57 | 12.88 | 0.69 | | an | | | | | | | | | |
| 6/21/02 | 12.22 | NM | | | SPH: NM | | | | | | | | | |
| 4/22/03 | 12.22 | 12.40 | 0.26 | 02.600 | Well cap stuck | 1000 | 1020 | 1260 | 2000 | 150 | .1.0 | 46 | -1.0 | .1.0 |
| 4/28/04 | 12.22 | 12.48 | -0.26 | 8260B | SGC | <230 | 1030 | < 260 | 2000 | 150 | <1.0 | 46 | <1.0 | < 1.0 |
| 10/28/04 | 12.22 | 11.97 | 0.25 | 8260B | SGC | 450 L Y | < 300 | 480 | 1100 | 18 | 1.7 | 29 | 1.7 | < 0.5 |
| 8/31/05 | 12.22 | 12.09 | 0.13 | | SPH: None | | | | | | | | | |
| 4/5/06 (3) | 12.22 | 3.80 | 8.42 | 8260B | SGC | 95 H Y | 420 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|--------------------|---------------------|-----------------------|---------------------|----------------|------------------------------|-----------------|---------|--------------|--------------|---------|-----------------|-------------------|-------------------|--------|
| Date | Elevation (feet) | Groundwater (feet) | Elevation (feet) | Method | | (μ g/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µ g/l) | benzene (µg/l) | Xylenes (µg/l) | (µg/l) |
| | (ICCI) | (leet) | (icei) | | | | | | | | | (P5/1) | (με/1) | |
| 9/6/06 | 12.22 | | | | Dry | | | | | | | | | |
| 4/4/07 (5) | 12.22 | 10.72 | 1.5 | 8260B | SGC | | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 10/3/07 | 12.22 | 10.92 | 1.3 | 8260B | SGC | 2,300 Y | 4300 | 1700 | 480 Y | 31 | 1.7 | 4.5 | 1.6 | < 0.5 |
| 3/19/08 (9) | 12.22 | 10.72 | 1.5 | | | | | | | | | | | |
| 11/19/08 (10) | 12.22 | 12.33 | -0.11 | 8260B | SGC | 52,000 Y | 110,000 | 31,000 | 150 Y | 21 | 1.7 | 2.7 | 1.1 | < 0.50 |
| 4/2/09 (12) | 12.22 | 11.25 | 0.97 | 8260B | SGC | | | | 59 Y | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 10/30/09 | 12.22 | 11.37 | 0.85 | 8260B | SGC | 5,600Y | 12,000 | 4,100Y | 590 | 59 | 3.5 | 3.1 | 3.03 | < 0.50 |
| 4/8/10 | 12.22 | 10.45 | 1.77 | | SPH: None | | | | | | | | | |
| 10/19/10 | 12.22 | 10.98 | 1.24 | | SPH: None | | | | | | | | | |
| | | | | | | | | | | | | | | |
| MW-17 | | | | | | | | | | | | | | |
| 1/18/00 | 9.86 | 5.35 | 4.51 | 8020 | SGC | 850 a | 21,000 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/11/00 | 9.86 | 9.85 | 0.01 | 8020 | SGC | 150 a | 2,900 | < 100 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 8/24/00 | 9.86 | 8.59 | 1.27 | | 000 | | | | | | | | | |
| 8/25/00 | 9.86 | | | 8020 | SGC | 190 | 610 | 71 | < 50 | 0.58 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 11/28/00 | 9.86 | 9.25 | 0.61 | 8020 | SGC | <250 | 2,400 | < 250 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 11/28/00 | 9.86 | 9.25 | 0.61 | 9020 | Filtered+SGC Filtered+SGC | < 50 | <200 | <50 | 50 | | | | | |
| 2/26/01 5/17/01 | 9.86 9.86 | 9.40 8.32 | 0.46 1.54 | 8020 | rillered+3GC | < 50 | < 200 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/18/01 | 9.86 | 6.32 | 1.54 | 8020 | Filtered+SGC | < 50 | <200 | <50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <5.0 |
| 8/16/01 | 9.86 | 10.35 | -0.49 | 8020 | Filtered+SGC | < 50 | 400B | < 100 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <5.0 |
| 12/16/01 | 9.86 | 8.01 | 1.85 | 8021 | SGC | 940 | 1,000 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <5.0 |
| 4/9/02 | 9.86 | 9.76 | 0.10 | 8021 | SGC | 590 | 880 | | 60 | < 0.5 | < 0.5 | 1.6 | < 0.5 | <5.0 |
| 6/21/02 | 9.86 | 9.79 | 0.07 | 8021 | SGC | 99 a,c | 650 h | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <2 |
| 9/18/02 | 9.86 | 8.25 | 1.61 | 8021 | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <2 |
| 4/23/03 | 9.86 | 9.75 | 0.11 | 8021B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <2 |
| 4/28/04 | 9.86 | 8.90 | 0.96 | 8260B | SGC | < 100 | < 400 | < 100 | < 100 | < 0.5 | < 1.0 | 2.4 | < 1.0 | < 1.0 |
| 10/28/04 | 9.86 | 8.32 | 1.54 | | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 9/1/05 (1) | 9.86 | 8.38 | 1.48 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 4/5/06 (3) | 9.86 | 6.86 | 3.00 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 9/6/06 | 9.86 | 9.85 | 0.01 | 8260B | SGC | < 50 | <300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 4/3/07 | 9.86 | 7.67 | 2.19 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 10/3/07 | 9.86 | 7.97 | 1.89 | 8260B | SGC | < 50 | <300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 10/3/07 dup | | | | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 3/20/08 (8) | 9.86 | 6.70 | 3.16 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 11/19/08 (10) | 9.86 | 9.53 | 0.33 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 4/2/09 (12) | 9.86 | 9.56 | 0.30 | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 10/30/09 | 9.86 9.86 | 7.21 | 2.65 | 8260B 8260B | SGC | < 50 < 50 | < 300 | < 50 < 50 | < 50 < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 10/30/09 | 9.00 | 1.41 | 2.03 | 0200D | 300 | < 30 | < 300 | < 30 | < 30 | < 0.50 | <0.50 | < 0.50 | < 0.50 | < 0.50 |

7101 Edgewater Drive, Oakland, California

| Well ID/ Date | TOC Elevation (feet) | Depth to Groundwater (feet) | Groundwater Elevation (feet) | BTEX Method | Notes | TPH-d (µg/l) | TPH-mo (µg/l) | TPH-k (µg/l) | TPH-g (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl- benzene (µg/l) | Total Xylenes (µg/l) | MTBE (µg/l) |
|--------------------|----------------------------|-----------------------------------|------------------------------------|----------------|--|-----------------|------------------|-----------------|-----------------|-------------------|-------------------|-----------------------------|----------------------------|----------------|
| 4/8/10 | 9.86 | 9.15 | 0.71 | 8260B | SPH: None | < 50 | < 300 | < 50 | 77 | 2.3 | < 0.50 | 2.2 | < 0.50 | < 0.50 |
| 10/19/10 | 9.86 | 6.82 | 3.04 | | SPH: None | | | | | | | | | |
| MW-18 | | | | | | | | | | | | | | |
| 4/24/03 4/28/04 | | 6.49 | | 8021B | SGC Developed to monitor a utility trench, not sampled | < 50 | < 300 | < 50 | < 50 | <0.5 | <0.5 | 2.4 | < 0.5 | <2 |
| 8/31/05 | | | | | sampleu | | | | | | | | | |
| 3/27/06 | | | | | | | | | | | | | | |
| 9/6/06 | | | | | | | | | | | | | | |
| TBW-1 | | | | | | | | | | | | | | |
| 2/23/99 | | 6.25 | | | SPH: 0.10 ft. | | | | | | | | | |
| 5/27/99 | | 5.29 | | | SPH: 0.01 ft. | | | | | | | | | |
| 8/24/99 | | 6.99 | | | SPH: 0.18 ft. | | | | | | | | | |
| 11/22/99 | | | | | Inaccessible | | | | | | | | | |
| 1/18/00 | | | | | Inaccessible | | | | | | | | | |
| 5/11/00 | | 6.90 | | | SPH: 0.10 ft. | | | | | | | | | |
| 8/24/00 | | 7.12 | | | SPH: NM | | | | | | | | | |
| 11/28/00 | | 7.75 | | | SPH: 0.36 ft. | | | | | | | | | |
| 2/27/01 | | 9.06 | | | SPH: 0.51 ft. | | | | | | | | | |
| 5/17/01 | | 6.98 | | | SPH: 0.28 ft. | | | | | | | | | |
| 8/16/01 | | 6.62 | | | SPH: 0.66 ft., f | 1,100 | 700B | < 100 | 17,000 | 2,100 | 75 | 730 | 850 | <1 |
| 12/15/01 | | 6.86 | | | SPH 0.35 ft. | | | | | | | | | |
| 4/3/02 | | 6.14 | | | SPH: None | | | | | | | | | |
| 9/12/02 | | 7.52 | | | SPH: None | | | | | | | | | |
| 4/22/03 | | 6.41 | | | SPH: None | | | | | | | | | |
| 4/28/04 | | 6.33 | | | SPH: None | | | | | | | | | |
| 10/28/04 | | NM | | | | | | | | | | | | |
| 8/31/05 | | 6.50 | | | Well cap smashed 6" | | | | | | | | | |
| 3/27/06 | | 5.20 | | | SPH: None | | | | | | | | | |
| 9/6/06 | | NM | | | SPH: None | | | | | | | | | |
| 4/4/07 | | 8.26 | | | | | | | | | | | | |
| 10/2/07 | | NM | | | Abandoned | | | | | | | | | |
| TBW-2 | | | | | | | | | | | | | | |
| 6/21/02 | | 8.28 | | | | | | | | | | | | |
| 4/22/03 | | 6.70 | | | SPH globules | | | | | | | | | |

7101 Edgewater Drive, Oakland, California

| Well ID/ Date | TOC Elevation | Depth to Groundwater | Groundwater Elevation | BTEX Method | Notes | TPH-d (µg/l) | TPH-mo (µg/l) | ΤΡΗ-k (μg/l) | TPH-g | Benzene (µg/l) | Toluene (µg/l) | Ethyl- benzene | Total Xylenes | MTBE (µg/l) |
|------------------|------------------|-------------------------|--------------------------|----------------|---------------|-----------------|------------------|-----------------|--------|-------------------|-------------------|-------------------|------------------|----------------|
| Date | (feet) | (feet) | (feet) | Method | | (µg/1) | (µ g/1) | (µg/1) | (µg/l) | (µg/1) | (µg/1) | (µg/l) | (µg/l) | (µg/1) |
| | | | | | | | | | | | | | | |
| 4/28/04 | | 6.61 | | | SPH: None | | | | | | | | | |
| 10/28/04 | | 7.31 | | | SPH: None | | | | | | | | | |
| 8/31/05 | | NM | | | | | | | | | | | | |
| 3/27/06 | | $NM^{(4)}$ | | | | | | | | | | | | |
| 9/6/06 | | $NM^{(4)}$ | | | SPH: None | | | | | | | | | |
| 4/4/07 | | $NM^{(4)}$ | | | | | | | | | | | | |
| 10/2/07 | | NM | | | Abandoned | | | | | | | | | |
| TBW-3 | | | | | | | | | | | | | | |
| 8/19/98 | | 2.67 | | 8020 | SGC | 810,000 | | | 920 | 3.2 | < 0.5 | < 0.5 | 0.77 | < 10 |
| 8/19/98 | | 2.67 | | 8260 | 560 | | | | | | | | | < 5.0 |
| 2/23/98 | | 1.25 | | 8020 | | 3,800 | 3,000 | < 50 | 110 | 1.6 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/27/99 | | | | | DTW: NM | | | | | | | | | |
| 8/24/99 | | 3.25 | | | SPH globules | | | | | | | | | |
| 11/22/99 | | 3.68 | | | C | | | | | | | | | |
| 1/18/00 | 9.92 | 3.73 | 6.19 | | SPH globules | | | | | | | | | |
| 5/11/00 | 9.92 | 2.07 | 7.85 | | - | | | | | | | | | |
| 8/24/00 | 9.92 | 2.82 | 7.10 | | SPH: sheen | 44,000 | 13,000 | 34,000 | 570 | 4.7 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 11/28/00 | 9.92 | | | | | | | | | | | | | |
| 2/27/01 | 9.92 | 1.29 | 8.63 | 8020 | Filtered+SGC | 560 | < 230 | < 57 | 120 | 1.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/17/01 | 9.92 | 2.47 | 7.45 | | | | | | | | | | | |
| 8/16/01 | 9.92 | 1.81 | 8.11 | | Filtered+SGC | 1,500 | 400B | < 100 | 180 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <1 |
| 12/15/01 | 9.92 | 2.52 | | | SPH: 0.02 ft. | | | | | | | | | |
| 4/3/02 | 9.92 | 1.50 | | | SPH: None | | | | | | | | | |
| 6/21/02 | 9.92 | 2.37 | 7.55 | | SPH: None | | | | | | | | | |
| 9/12/02 | 9.92 | 3.48 | 6.44 | | SPH: None | | | | | | | | | |
| 4/22/03 | 9.92 | 1.45 | 8.47 | | Sheen | | | | | | | | | |
| 4/28/04 | 9.92 | 2.26 | 7.66 | | SPH: None | | | | | | | | | |
| 10/28/04 | 9.92 | 3.42 | 6.50 | | Sheen | | | | | | | | | |
| 8/31/05 | 9.92 | 2.99 | 6.93 | | SPH: None | | | | | | | | | |
| 3/27/06 | 9.92 | 0.49 | 9.43 | | SPH: None | | | | | | | | | |
| 9/6/06 | 9.92 | 3.42 | 6.50 | | SPH:0.01 ft. | | | | | | | | | |
| 4/4/07 | 9.92 | 1.93 | 7.99 | | Abondanad | | | | | | | | | |
| 10/2/07 | | NM | | | Abandoned | | | | | | | | | |
| TBW-4 | | | | | | | | | | | | | | |
| 2/27/01 | | 1.35 | | 8020 | Filtered+SGC | 410 | < 230 | < 57 | 250 | 1.9 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/17/01 | | 2.52 | | | | | | | | | | | | |
| 8/16/01 | | 1.88 | | | Filtered+SGC | 2,600 | 700B | < 100 | 390 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5 |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|------------|-----------|-------------|-------------|--------|-----------------------|--------|--------|--------|--------|-----------------|---------|---------|---------|--------|
| Date | Elevation | Groundwater | Elevation | Method | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µ g/l) | (µg/l) | benzene | Xylenes | (µg/l) |
| | (feet) | (feet) | (feet) | | | | | | | | | (µg/l) | (µg/l) | |
| 6/21/02 | | 2.32 | | | | | | | | | | | | |
| 4/22/03 | | 1.41 | | | Sheen | | | | | | | | | |
| 4/28/04 | | 2.21 | | | | | | | | | | | | |
| 10/27/04 | | 3.37 | | | Sheen | | | | | | | | | |
| 8/31/05 | | 2.92 | | | | | | | | | | | | |
| 3/27/06 | | 0.49 | | | SPH: None | | | | | | | | | |
| 9/6/06 | | 3.37 | | | SPH:0.01 ft. | | | | | | | | | |
| 4/4/07 | | 1.88 | | | | | | | | | | | | |
| 10/2/07 | | NM | | | Abandoned | | | | | | | | | |
| TBW-5 | | | | | | | | | | | | | | |
| 2/23/99 | | 9.72 | | | SPH: 1.45 ft. | | | | | | | | | |
| 5/27/99 | | 7.03 | | | SPH: 1.43 ft. | | | | | | | | | |
| 8/24/99 | | 6.52 | | | SPH: 1.33 ft. | | | | | | | | | |
| 11/22/99 | | 8.31 | | | SPH: 1.29 ft. | | | | | | | | | |
| 1/18/00 | 10.22 | 6.20 | 4.74 | | SPH: 0.90 ft. | | | | | | | | | |
| 5/11/00 | 10.22 | 9.41 | 1.05 | | SPH: 0.30 ft. | | | | | | | | | |
| 8/24/00 | 10.22 | 9.62 | 0.81 | | SPH: 0.26 ft. | | | | | | | | | |
| 11/28/00 | 10.22 | 10.25 | 0.34 | | SPH: 0.46 ft. | | | | | | | | | |
| 2/27/01 | 10.22 | 9.06 | 1.45 | | SPH: 0.36 ft. | | | | | | | | | |
| 5/17/01 | 10.22 | 8.75 | 1.47 | | SPH: 0.67 ft. | | | | | | | | | |
| 8/16/01 | 10.22 | 8.32 | 2.51 | 8020 | SPH: 0.76 ft., f | 550 | 400B | < 100 | 30,000 | 2,900 | 100 | 1,500 | 5,100 | <1 |
| 12/15/01 | 10.22 | 9.09 | 1.13 | | SPH: 0.36 ft. | | | | | | | | | |
| 4/3/02 (6) | | | | | | | | | | | | | | |
| 6/21/02 | 10.22 | 7.87 | 2.35 | | SPH: 0.03 ft. | | | | | | | | | |
| 9/12/01 | 10.22 | 7.26 | 2.97 | | SPH: 0.01 ft. | | | | | | | | | |
| 4/22/03 | 10.22 | 6.22 | 4.00 | | SPH: 0.06 ft. | | | | | | | | | |
| 4/28/04 | 10.22 | 6.26 | 3.96 | | SPH: 0.21 ft. | | | | | | | | | |
| 10/27/04 | 10.22 | 3.62 | 6.60 | | SPH: None | | | | | | | | | |
| 8/31/05 | 10.22 | 6.41 | | | SPH: 0.30 ft. | | | | | | | | | |
| 3/27/06 | 10.22 | $NM^{(2)}$ | | | | | | | | | | | | |
| 9/6/06 | 10.22 | $NM^{(2)}$ | | | | | | | | | | | | |
| 4/4/07 | 10.22 | $NM^{(2)}$ | | | | | | | | | | | | |
| 10/2/07 | | NM | | | SPH: viscous residual | | | | | | | | | |
| 3/19/08 | | NM | | | SPH: None | | | | | | | | | |
| 11/18/08 | 10.22 | 9.32 | 0.9 | | | | | | | | | | | |
| 4/1/09 | | NM | | | NA | | | | | | | | | |
| 10/29/09 | 10.22 | 8.50 | 1.72 | | | | | | | | | | | |
| 4/8/10 | 10.22 | 5.54 | 4.68 | | SPH: None | | | | | | | | | |
| ., 0, 10 | 19.22 | 2.21 | | | 5111.110110 | | | | | | | | | |

7101 Edgewater Drive, Oakland, California

| Well ID/ Date | TOC Elevation (feet) | Depth to Groundwater (feet) | Groundwater Elevation (feet) | BTEX Method | Notes | TPH-d (µg/l) | TPH-mo (µg/l) | TPH-k (µg/l) | TPH-g (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl- benzene (µg/l) | Total Xylenes | MTBE (µg/l) |
|------------------|----------------------------|-----------------------------------|------------------------------------|----------------|---------------|-----------------|------------------|-----------------|-----------------|-------------------|-------------------|-----------------------------|------------------|----------------|
| | (leet) | (leet) | (leet) | | | | | | | | | (µg/1) | (µg/l) | |
| 10/19/10 | 10.22 | 6.91 | 3.31 | | SPH: None | | | | | | | | | |
| TBW-6 | | | | | | | | | | | | | | |
| 2/23/99 | | 2.09 | | 8020 | | 160 | 600 | < 50 | 60 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/27/99 | | 3.31 | | | | | | | | | | | | |
| 8/24/99 | | 7.29 | | 8020 | SGC | 180 | 400 | < 50 | 130 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 11/22/99 | | 4.37 | | | | | | | | | | | | |
| 1/18/00 | 9.49 | 3.83 | 5.66 | | | | | | | | | | | |
| 1/19/00 | 9.49 | | | 8020 | SGC | 55 C | < 200 | < 50 | 170 | 0.6 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/11/00 | 9.49 | 2.51 | 6.98 | | | | | | | | | | | |
| 8/24/00 | 9.49 | 4.34 | 5.15 | | | | | | | | | | | |
| 8/25/00 | 9.49 | | | 8020 | SGC | 320 | < 250 | 200 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 11/28/00 | 9.49 | 4.74 | 4.75 | | | | | | | | | | | |
| 2/27/01 | 9.49 | 2.30 | 7.19 | 8020 | Filtered+SGC | < 57 | < 230 | < 57 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/17/01 | 9.49 | 3.35 | 6.14 | | | | | | | | | | | |
| 8/16/01 | 9.49 | 3.85 | 5.64 | | Filtered+SGC | < 50 | < 200 | < 100 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 12/15/01 | 9.49 | 3.96 | 5.53 | | | | | | | | | | | |
| 4/3/02 | 9.49 | 2.51 | 6.98 | | | | | | | | | | | |
| 6/21/02 | 9.49 | 3.58 | 5.91 | | | | | | | | | | | |
| 9/12/02 | 9.49 | 6.07 | 4.56 | | SPH: 1.42 ft. | | | | | | | | | |
| 4/23/03 | 9.49 | 2.42 | 7.07 | | | | | | | | | | | |
| 4/28/04 | 9.49 | 3.21 | 6.28 | | | | | | | | | | | |
| 10/27/04 | 9.49 | 4.49 | 5.00 | | SPH: None | | | | | | | | | |
| 8/31/05 | 9.49 | 4.43 | | | SPH: 0.52 ft. | | | | | | | | | |
| 3/27/06 | 9.49 | 1.90 | 7.59 | | SPH: None | | | | | | | | | |
| 9/6/06 | 9.49 | 4.33 | 5.16 | | SPH:0.01 ft. | | | | | | | | | |
| 4/4/07 | 9.49 | 3.08 | 6.41 | | | | | | | | | | | |
| 10/2/07 | 9.49 | 4.98 | 4.51 | | SPH: None | | | | | | | | | |
| 3/19/08 | 9.49 | 3.16 | 6.33 | | SPH: None | | | | | | | | | |
| 11/18/08 | 9.49 | 5.32 | 4.17 | | SPH: None | | | | | | | | | |
| 4/1/09 | 9.49 | 2.87 | 6.62 | | SPH: sheen | | | | | | | | | |
| 10/29/09 | | | | | No Access | | | | | | | | | |
| 4/8/10 | 9.49 | 1.87 | 7.62 | | SPH: None | | | | | | | | | |
| 10/19/10 | 9.49 | 4.79 | 4.70 | | SPH: None | | | | | | | | | |
| RW-A1 | | | | | | | | | | | | | | |
| 4/22/03 | | 1.81 | | | | | | | | | | | | |
| 4/28/04 | 10.09 | 2.52 | 7.57 | | | | | | | | | | | |
| 10/27/04 | 10.09 | 3.03 | 7.06 | | SPH: None | | | | | | | | | |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|--------------------|---------------------|-----------------------|---------------------|--------|------------------------|--------|--------|-----------------|--------|---------|-----------------|-------------------|-------------------|--------|
| Date | Elevation (feet) | Groundwater (feet) | Elevation (feet) | Method | | (µg/l) | (µg/l) | (µ g/l) | (µg/l) | (µg/l) | (µ g/l) | benzene (µg/l) | Xylenes (μg/l) | (µg/l) |
| | (IEEI) | (leet) | (leet) | | | | | | | | | (µg/1) | (µg/1) | |
| 8/31/05 | 10.09 | 3.31 | 6.78 | | SPH: None | | | | | | | | | |
| 3/27/06 | 10.09 | 0.62 | 9.47 | | SPH: None | | | | | | | | | |
| 9/6/06 | 10.09 | 3.52 | 6.57 | | SPH: None | | | | | | | | | |
| 4/3/07 | 10.09 | 2.93 | 7.16 | | | | | | | | | | | |
| 10/2/07 | 10.09 | $NM^{(7)}$ | | | | | | | | | | | | |
| 3/19/08 | 10.09 | 3.16 | 6.93 | | SPH: None | | | | | | | | | |
| 11/20/08 (10) | 10.09 | 4.49 | 5.60 | 8260B | SGC | 56 Y | < 300 | < 50 | < 50 | 8.8 | < 0.50 | < 0.50 | < 0.50 | 4.5 |
| 4/1/09 | 10.09 | 2.48 | 7.61 | | SPH: None | | | | | | | | | |
| 10/29/09 | 10.09 | 3.49 | 6.60 | | | | | | | | | | | |
| 4/8/10 | 10.09 | 1.54 | 8.55 | | SPH: None | | | | | | | | | |
| 10/19/10 | 10.19 | 4.22 | 5.97 | | SPH: None | | | | | | | | | |
| | | | | | | | | | | | | | | |
| RW-A2 | | | | | | | | | | | | | | |
| 4/22/03 | | 1.22 | | | Sheen | | | | | | | | | |
| 4/28/04 | 9.67 | 2.01 | 7.66 | | | | | | | | | | | |
| 10/27/04 | 9.67 | 3.20 | 6.47 | | SPH: None | | | | | | | | | |
| 8/31/05 | 9.67 | 2.75 | 6.92 | | SPH: None | | | | | | | | | |
| 3/27/06 | 9.67 | 0.30 | 9.37 | | SPH: None | | | | | | | | | |
| 9/6/06 | 9.67 | 3.19 | 6.48 | | SPH: 0.01 ft. | | | | | | | | | |
| 4/4/07 | 9.67 | 1.70 | 7.97 | 8260B | SGC | 200 Y | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 10/2/07 | 9.67 | 3.81 | 5.86 | | SPH: None | | | | | | | | | |
| 3/19/08 | 9.67 | 1.71 | 7.96 | | SPH: None | | | | | | | | | |
| 11/20/08 (10) | 9.67 | 3.96 | 5.71 | 8260B | SGC | 590 Y | < 300 | 160 Y | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 4/1/09 | 9.67 | 1.58 | 8.09 | | SPH: None | | | | | | | | | |
| 10/29/09 | 9.67 | 2.89 | 6.78 | | | | | | | | | | | |
| 4/8/10 | 9.67 | 0.93 | 8.74 | | SPH: None | | | | | | | | | |
| 10/19/10 | 9.67 | 3.72 | 5.95 | | SPH: None | | | | | | | | | |
| OB-A1 | | | | | | | | | | | | | | |
| | | 2.24 | | | SPH: .01 ft. | | | | | | | | | |
| 4/22/03 4/28/04 | | 2.24 3.01 | | | SPH: .01 it. SPH: None | | | | | | | | | |
| 4/28/04 | | 3.01 | | | SPH: None (strong | | | | | | | | | |
| 10/27/04 | | 5.11 | | | odor) | | | | | | | | | |
| 8/31/05 | | 4.10 | | | SPH: None | | | | | | | | | |
| 3/27/06 | | 1.25 | | | SPH: None | | | | | | | | | |
| 9/7/06 | | 4.49 | | | | | | | | | | | | |
| 4/4/07 | | 2.72 | | | | | | | | | | | | |
| 10/2/07 | | 5.34 | | | | | | | | | | | | |
| 3/19/08 | | 2.73 | | | SPH: None | | | | | | | | | |

7101 Edgewater Drive, Oakland, California

| Well ID/ Date | TOC Elevation | Depth to Groundwater | Groundwater Elevation | BTEX Method | Notes | ΤΡΗ-d (μg/l) | TPH-mo (µg/l) | TPH-k (μg/l) | TPH-g (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl- benzene | Total Xylenes | MTBE (µg/l) |
|------------------|------------------|-------------------------|--------------------------|----------------|-------------------|-----------------|------------------|-----------------|-----------------|-------------------|-------------------|-------------------|------------------|----------------|
| | (feet) | (feet) | (feet) | | | V -8-7 | V -8-7 | V -8-7 | 4 -8-9 | V-8-7 | V -8-7 | (μg/l) | (μg/l) | 4-8-7 |
| 11/18/08 | | 5.31 | | | | | | | | | | | | |
| 4/1/09 | | 2.61 | | | | | | | | | | | | |
| 10/29/09 | | 4.68 | | | | | | | | | | | | |
| 4/8/10 | | 1.95 | | | SPH: None | | | | | | | | | |
| 10/19/10 | | 5.09 | | | SPH: None | | | | | | | | | |
| RW-B1 | | | | | | | | | | | | | | |
| 4/22/03 | | 7.26 | | | Sheen | | | | | | | | | |
| 4/28/04 | 11.22 | 7.20 | 4.02 | | | | | | | | | | | |
| 10/27/04 | 11.22 | 7.80 | 3.42 | | SPH: None | | | | | | | | | |
| 8/31/05 | 11.22 | 7.14 | 4.08 | | SPH: None | | | | | | | | | |
| 3/27/06 | 11.22 | 6.10 | 5.12 | | SPH: None | | | | | | | | | |
| 9/6/06 | 11.22 | 7.39 | 3.83 | | SPH:0.01 ft. | | | | | | | | | |
| 4/4/07 | 11.22 | 7.06 | 4.16 | 8260B | SGC | 130 L | < 300 | 100 H | 220 | 410 | 23 | 9.4 | 16 | 6.3 |
| 10/2/07 | 11.22 | 7.70 | 3.52 | | SPH: None | | | | | | | | | |
| 3/19/08 | 11.22 | 7.06 | 4.16 | | SPH: None | | | | | | | | | |
| 11/18/08 | 11.22 | 7.90 | 3.32 | | SPH: None | | | | | | | | | |
| 4/1/09 | 11.22 | 7.15 | 4.07 | | SPH: None | | | | | | | | | |
| 10/29/09 | 11.22 | 7.76 | 3.46 | | | | | | | | | | | |
| 4/8/10 | 11.22 | 6.78 | 4.44 | | SPH: None | | | | | | | | | |
| 10/19/10 | 11.22 | 7.66 | 3.56 | | SPH: None | | | | | | | | | |
| RW-B2 | | | | | | | | | | | | | | |
| 4/22/03 | | 7.29 | | | Sheen, Odor | | | | | | | | | |
| 4/28/04 | 11.23 | 7.20 | 4.03 | | | | | | | | | | | |
| 10/27/04 | 11.23 | 7.81 | 3.42 | | SPH: None | | | | | | | | | |
| 8/31/05 | 11.23 | 7.14 | 4.09 | | SPH: None | | | | | | | | | |
| 3/27/06 | 11.23 | 6.09 | 5.14 | | SPH: None | | | | | | | | | |
| 9/6/06 | 11.23 | 7.39 | 3.84 | | SPH: None | | | | | | | | | |
| 4/4/07 | 11.23 | 9.84 | 1.39 | 8260B | SGC | 500 L Y | < 300 | 500 L | 11000 | 3400 | 2700 | 190 | 1100 | < 10 |
| 10/2/07 | 11.23 | 7.71 | 3.52 | | SPH: None | | | | | | | | | |
| | | | | | SPH: None (strong | | | | | | | | | |
| 3/19/08 | 11.23 | 7.07 | 4.16 | | odor) | | | | | | | | | |
| 11/20/08 (10) | 11.23 | 7.92 | 3.31 | 8260B | SGC | 190 Y | < 300 | 150 Y | 7,900 Y | 3,200 | 2,100 | 140 | 720 | < 25 |
| 4/1/09 | 11.23 | 7.16 | 4.07 | | SPH: None | | | | | | | | | |
| 10/29/09 | 11.23 | 7.78 | 3.45 | | | | | | | | | | | |
| 4/8/10 | 11.23 | 6.80 | 4.43 | | SPH: None | | | | | | | | | |
| 10/19/10 | 11.23 | 7.67 | 3.56 | | SPH: None | | | | | | | | | |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|---------------|-----------|-------------|-------------|--------|------------------|-----------|--------|---------|---------|---------|---------|---------|---------|--------|
| Date | Elevation | Groundwater | Elevation | Method | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | benzene | Xylenes | (μg/l) |
| | (feet) | (feet) | (feet) | | | | | | | | | (µg/l) | (µg/l) | |
| RW-B3 | | | | | | | | | | | | | | |
| 4/22/03 | | 9.90 | | | visible Product | | | | | | | | | |
| 4/28/04 | 11.14 | 13.20 | -2.06 | | SPH: 3.09 | | | | | | | | | |
| 10/27/04 | 11.14 | 9.33 | 1.81 | | SPH: None | | | | | | | | | |
| 8/31/05 | 11.14 | 9.60 | 1.54 | | SPH: 0.01 | | | | | | | | | |
| 3/27/06 | 11.14 | 9.08 | 2.06 | | SPH: None | | | | | | | | | |
| 9/6/06 | 11.14 | 9.61 | 1.53 | | SPH: None | | | | | | | | | |
| 4/4/07 | 11.14 | 9.84 | 1.30 | 8260B | SGC | 3,600 L Y | 880 | 4,000 L | 7900 | 4300 | 130 | 520 | 357 | < 31 |
| 10/2/07 | 11.14 | 9.56 | 1.58 | | SPH: None | | | | | | | | | |
| 3/19/08 | | $NM^{(7)}$ | | | NM | | | | | | | | | |
| 11/18/08 | 11.14 | 9.57 | 1.57 | | | | | | | | | | | |
| 4/1/09 | 11.14 | 9.80 | 1.34 | | | | | | | | | | | |
| 10/29/09 | 11.14 | 9.61 | 1.53 | | | | | | | | | | | |
| 4/8/10 | 11.14 | 9.61 | 1.53 | | SPH: None | | | | | | | | | |
| 10/19/10 | 11.14 | 9.50 | 1.64 | | SPH: None | | | | | | | | | |
| RW-B4 | | | | | | | | | | | | | | |
| 4/22/03 | | 10.55 | | | SPH: .55 ft. | | | | | | | | | |
| 4/28/04 | 11.29 | 10.22 | 1.07 | | SPH: None | | | | | | | | | |
| 10/27/04 | 11.29 | 9.55 | 1.74 | | SPH: None | | | | | | | | | |
| 8/31/05 | 11.29 | 9.70 | 1.59 | | SPH: None | | | | | | | | | |
| 3/27/06 | 11.29 | 9.23 | 2.06 | | SPH: None | | | | | | | | | |
| 9/6/06 | 11.29 | 9.69 | 1.60 | | SPH: None | | | | | | | | | |
| 4/4/07 | 11.29 | 10.04 | 1.25 | 8260B | SGC | 3,500 Y | 360 | 4,000 L | 16000 | 3200 | 150 | 460 | 1430 | < 8.3 |
| 10/2/07 | 11.29 | 9.72 | 1.57 | | SPH: None | | | | | | | | | |
| 3/19/08 | 11.29 | 9.87 | 1.42 | | SPH: None (odor) | | | | | | | | | |
| 11/20/08 (10) | 11.29 | 9.75 | 1.54 | 8260B | SGC | 3,100 Y | 2,900 | 930 | 6,000 Y | 3,100 | 100 | 270 | 679 | < 25 |
| 4/1/09 | 11.29 | 9.87 | 1.42 | | SPH: None | | | | | | | | | |
| 10/29/09 | 11.29 | 9.85 | 1.44 | | | | | | | | | | | |
| 4/8/10 | 11.29 | 9.72 | 1.57 | | SPH: None | | | | | | | | | |
| 10/19/10 | 11.29 | 9.80 | 1.49 | | SPH: None | | | | | | | | | |
| RW-C1 | | | | | | | | | | | | | | |
| 4/24/03 | | 8.34 | | | | | | | | | | | | |
| 4/28/04 | 10.44 | 8.00 | 2.44 | | | | | | | | | | | |
| 10/27/04 | 10.44 | 7.59 | 2.85 | | SPH: None | | | | | | | | | |
| 8/31/05 | 10.44 | 5.81 | 4.63 | | SPH: None | | | | | | | | | |
| 3/27/06 | 10.44 | 1.94 | 8.50 | | SPH: None | | | | | | | | | |
| 9/6/06 | 10.44 | 6.71 | 3.73 | | SPH: 0.01 ft. | | | | | | | | | |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|---------------|---------------------|-----------------------|---------------------|--------|----------------|-----------------|-----------|------------|--------|---------|---------|-------------------|-------------------|--------|
| Date | Elevation (feet) | Groundwater (feet) | Elevation (feet) | Method | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | benzene (µg/l) | Xylenes (µg/l) | (µg/l) |
| 4/5/07 | 10.44 | 6.66 | 3.78 | 8260B | | 220 H Y | 1300 | 63 H Y | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 10/2/07 | 10.44 | 8.48 | 1.96 | | SPH: 0.01 ft. | | | | | | | | | |
| 3/19/08 | 10.44 | 8.56 | 1.88 | | SPH: None | | | | | | | | | |
| 11/20/08 (10) | 10.44 | 8.29 | 2.15 | 8260B | SGC | 290 Y | 1,200 | 76 Y | < 50 | 6.4 | < 0.50 | < 0.50 | 0.51 | < 0.50 |
| 4/1/09 | 10.44 | 8.16 | 2.28 | | SPH: None | | | | | | | | | |
| 10/29/09 | 10.44 | 8.64 | 1.80 | | | | | | | | | | | |
| 4/8/10 | 10.44 | 5.62 | 4.82 | | SPH: None | | | | | | | | | |
| 10/19/10 | 10.44 | 5.57 | 4.87 | | SPH: None | | | | | | | | | |
| RW-C2 | | | | | | | | | | | | | | |
| 4/24/03 | | 6.22 | | | SPH: .03 ft. | | | | | | | | | |
| 4/28/04 | 10.58 | 6.19 | 4.39 | | SPH: 0.06 ft | | | | | | | | | |
| 10/27/04 | 10.58 | 7.00 | 3.58 | | SPH: Present | | | | | | | | | |
| 8/31/05 | 10.58 | 6.30 | 4.28 | | SPH: 0.01 ft. | | | | | | | | | |
| 3/27/06 | 10.58 | 5.10 | 5.48 | | SPH: None | | | | | | | | | |
| 9/6/06 | 10.58 | 8.19 | 2.39 | | SPH: 0.12 ft. | | | | | | | | | |
| 4/4/07 | 10.58 | 8.28 | 2.30 | | | | | | | | | | | |
| 10/2/07 | 10.58 | 9.75 | 0.83 | | SPH: 0.015 ft. | | | | | | | | | |
| 10/3/07 | 10.58 | 9.39 | 1.19 | | SPH: None | | | | | | | | | |
| 11/18/08 | 10.58 | 9.38 | 1.20 | | | | | | | | | | | |
| 4/1/09 | 10.58 | 7.64 | 2.94 | | | | | | | | | | | |
| 10/29/09 | 10.58 | 8.90 | 1.68 | | | | | | | | | | | |
| 4/8/10 | 10.58 | 5.86 | 4.72 | | SPH: None | | | | | | | | | |
| 10/19/10 | 10.58 | 6.59 | 3.99 | | SPH: None | | | | | | | | | |
| RW-C3 | | | | | | | | | | | | | | |
| 4/24/03 | | 6.36 | | | | | | | | | | | | |
| 4/28/04 | 10.71 | 6.25 | 4.46 | | | | | | | | | | | |
| 10/27/04 | 10.71 | 7.10 | 3.61 | | SPH: None | | | | | | | | | |
| 8/31/05 | 10.71 | 6.39 | 4.32 | | SPH: None | | | | | | | | | |
| 3/27/06 | 10.71 | 5.30 | 5.41 | | SPH: None | | | | | | | | | |
| 9/6/06 | 10.71 | 8.10 | 2.61 | | SPH: 0.01 ft. | | | | | | | | | |
| 4/5/07 | 10.71 | 7.97 | 2.74 | 8260B | SPH: None | 540 H L Y | 360 H L | 430 H L Y | 520 | 13 | 14 | 32 | 54 | < 0.5 |
| 10/2/07 | 10.71 | 8.59 | 2.12 | | SPH: 0.01 ft. | | | | | | | | | |
| 3/19/08 | 10.71 | 8.38 | 2.33 | | SPH: None | | | | | | | | | |
| 11/20/08 (10) | 10.71 | 8.61 | 2.10 | 8260B | SGC | 720 Y $^{(11)}$ | 1600 (11) | 170 Y (11) | < 50 | 1.1 | < 0.50 | 0.67 | < 0.50 | < 0.50 |
| 4/1/09 | 10.71 | 6.98 | 3.73 | | SPH: None | | | | | | | | | |
| 10/29/09 | 10.71 | 8.56 | 2.15 | | | | | | | | | | | |
| 4/8/10 | 10.71 | 5.93 | 4.78 | | SPH: None | | | | | | | | | |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|---------------|---------------------|-----------------------|---------------------|--------|-----------------|---------|--------|---------|---------|---------|---------|-------------------|-------------------|--------|
| Date | Elevation (feet) | Groundwater (feet) | Elevation (feet) | Method | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | benzene (µg/l) | Xylenes (µg/l) | (µg/l) |
| | (ICCI) | (icci) | (icci) | | | | | | | | | (P 5/1) | (P5/1) | |
| 10/19/10 | 10.71 | 6.82 | 3.89 | | SPH: None | | | | | | | | | |
| RW-C4 | | | | | | | | | | | | | | |
| 4/22/03 | | 7.15 | | | Strong odor | | | | | | | | | |
| 4/28/04 | 11.32 | 6.95 | 4.37 | | SPH: 0.01 ft | | | | | | | | | |
| 10/27/04 | 11.32 | 7.45 | 3.87 | | SPH: None | | | | | | | | | |
| 8/31/05 | 11.32 | 6.71 | 4.61 | | SPH: None | | | | | | | | | |
| 3/27/06 | 11.32 | 6.47 | 4.85 | | SPH: None | | | | | | | | | |
| 9/6/06 | 11.32 | 8.16 | 3.16 | | SPH: 0.01 ft. | | | | | | | | | |
| 4/4/07 | 11.32 | 8.50 | 2.82 | | | | | | | | | | | |
| 10/2/07 | 11.32 | 8.62 | 2.70 | | SPH: None | | | | | | | | | |
| 3/19/08 | 11.32 | 9.13 | 2.19 | | SPH: None | | | | | | | | | |
| 11/18/08 | 11.32 | 8.99 | 2.33 | | | | | | | | | | | |
| 4/1/09 | 11.32 | 8.52 | 2.80 | | | | | | | | | | | |
| 10/29/09 | 11.32 | 8.53 | 2.79 | | | | | | | | | | | |
| 4/8/10 | 11.32 | NM | | | Could not open | | | | | | | | | |
| 4/29/10 | 11.32 | 6.07 | 5.25 | | SPH: None | | | | | | | | | |
| 10/19/10 | 11.32 | 6.84 | 4.48 | | SPH: None | | | | | | | | | |
| | | | | | | | | | | | | | | |
| RW-C5 | | | | | | | | | | | | | | |
| 4/22/03 | | 6.46 | | | | | | | | | | | | |
| 4/28/04 | 10.79 | 6.39 | 4.40 | | | | | | | | | | | |
| 10/27/04 | 10.79 | 7.21 | 3.58 | | SPH: Present | | | | | | | | | |
| 8/31/05 | 10.79 | 6.51 | 4.28 | | SPH: None | | | | | | | | | |
| 3/27/06 | 10.79 | 5.33 | 5.46 | | SPH: None | | | | | | | | | |
| 9/6/06 | 10.79 | 8.03 | 2.76 | | SPH: 0.01 ft. | | | | | | | | | |
| 4/4/07 | 10.79 | 8.27 | 2.52 | 8260B | SGC | 3,800 Y | 310 | 4,100 L | 12000 | 3400 | 170 | 520 | 1300 | < 25 |
| 10/2/07 | 10.79 | 8.95 | 1.84 | | SPH: None | | | | | | | | | |
| 3/19/08 | 10.79 | 8.82 | 1.97 | | SPH: 0.01 ft. | | | | | | | | | |
| 11/20/08 (10) | 10.79 | 8.92 | 1.87 | 8260B | SPH: None/ SGC | 3,700 Y | 430 | 3,300 | 5,800 Y | 2,900 | 91 | 120 | 437 | < 20 |
| 11/20/08 dup | | | | 8260B | SGC: Oder | 3,400 Y | < 300 | 3,100 | 3,900 Y | 2,700 | 78 | 91 | 358 | < 25 |
| 4/1/09 | 10.79 | 7.88 | 2.91 | | SPH: None | | | | | | | | | |
| 10/29/09 | | | | | No Access | | | | | | | | | |
| 4/8/10 | 10.79 | NM | | | Could not open | | | | | | | | | |
| 4/29/10 | 10.79 | 5.59 | 5.2 | | SPH: None | | | | | | | | | |
| 10/19/10 | 10.79 | 6.54 | 4.25 | | SPH: None, odor | | | | | | | | | |
| | | | | | | | | | | | | | | |
| RW-C6 | | | | | | | | | | | | | | |
| 4/22/03 | | 6.05 | | | SPH: 0.07 ft. | | | | | | | | | |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|----------|-----------|-------------|-------------|--------|-----------------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| Date | Elevation | Groundwater | Elevation | Method | | (μg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | benzene | Xylenes | (µg/l) |
| | (feet) | (feet) | (feet) | | | | | | | | | (µg/l) | (µg/l) | |
| 4/28/04 | 10.31 | 6.30 | 4.01 | | SPH: 0.05 ft. | | | | | | | | | |
| 10/27/04 | 10.31 | 6.85 | | | SPH: 0.15 ft. | | | | | | | | | |
| 8/31/05 | 10.31 | 6.81 | | | SPH: 0.93 ft. | | | | | | | | | |
| 3/27/06 | 10.31 | 5.66 | | | SPH: 0.96 ft. | | | | | | | | | |
| 9/6/06 | 10.31 | 7.96 | 2.35 | | SPH: 0.18ft. | | | | | | | | | |
| 4/4/07 | 10.31 | $NM^{(4)}$ | | | | | | | | | | | | |
| 10/2/07 | 10.31 | 8.45 | 1.86 | | SPH: residual | | | | | | | | | |
| 3/19/08 | 10.31 | 8.32 | 1.99 | | SPH: None | | | | | | | | | |
| 11/18/08 | 10.31 | 8.42 | 1.89 | | SPH: Oder | | | | | | | | | |
| 4/1/09 | 10.31 | 7.36 | 2.95 | | SPH: None | | | | | | | | | |
| 10/29/09 | | | | | No Access | | | | | | | | | |
| 4/8/10 | 10.31 | NM | | | Could not open | | | | | | | | | |
| 4/29/10 | 10.31 | 5.43 | 4.88 | | SPH: None | | | | | | | | | |
| 10/19/10 | 10.31 | 6.4 | 3.91 | | SPH: None | | | | | | | | | |
| RW-C7 | | | | | | | | | | | | | | |
| 4/22/03 | | 6.51 | | | visible Product | | | | | | | | | |
| 4/28/04 | 10.12 | 6.60 | 3.52 | | SPH: 0.02 ft. | | | | | | | | | |
| 10/27/04 | 10.12 | NM | | | | | | | | | | | | |
| 8/31/05 | 10.12 | NM | | | | | | | | | | | | |
| 3/27/06 | 10.12 | $NM^{(4)}$ | | | | | | | | | | | | |
| 9/6/06 | 10.12 | 8.34 | 1.78 | | SPH: 0.01 ft. | | | | | | | | | |
| 4/4/07 | 10.12 | $NM^{(4)}$ | | | | | | | | | | | | |
| 10/2/07 | 10.12 | 9.01 | 1.11 | | SPH: None | | | | | | | | | |
| 3/19/08 | 10.12 | 8.85 | 1.27 | | SPH: None | | | | | | | | | |
| 11/18/08 | 10.12 | 8.97 | 1.15 | | | | | | | | | | | |
| 4/1/09 | 10.12 | 7.89 | 2.23 | | SPH: 0.01 ft. | | | | | | | | | |
| 10/29/09 | | 9.23 | | | | | | | | | | | | |
| 4/8/10 | 10.12 | NM | | | Could not open | | | | | | | | | |
| 4/29/10 | 10.12 | 5.71 | 4.41 | | SPH: None | | | | | | | | | |
| 10/19/10 | 10.12 | 6.68 | 3.44 | | SPH: None | | | | | | | | | |
| OB-C1 | | | | | | | | | | | | | | |
| 4/22/03 | | 6.26 | | | | | | | | | | | | |
| 4/28/04 | 10.39 | 7.39 | 3.00 | | SPH: 1.27 ft. | | | | | | | | | |
| 10/27/04 | 10.39 | 8.06 | 2.33 | | SPH: 1.08 ft. | | | | | | | | | |
| 8/31/05 | 10.39 | 7.84 | | | SPH: 1.55 ft. | | | | | | | | | |
| 3/27/06 | 10.39 | 6.15 | | | SPH: 1.05 ft. | | | | | | | | | |
| 9/6/06 | | $NM^{(4)}$ | | | Buried | | | | | | | | | |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|----------|---------------------|-----------------------|---------------------|--------|----------------|----------|--------|--------|---------|---------|-----------------|-------------------|-------------------|--------|
| Date | Elevation (feet) | Groundwater (feet) | Elevation (feet) | Method | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µ g/l) | benzene (µg/l) | Xylenes (µg/l) | (μg/l) |
| | (leet) | (leet) | (leet) | | | | | | | | | (µg/1) | (µg/1) | |
| 4/4/07 | 10.39 | 7.78 | 2.61 | | | | | | | | | | | |
| 10/2/07 | 10.39 | 8.67 | 1.72 | | SPH: 0.02 ft. | | | | | | | | | |
| 3/19/08 | 10.39 | 8.49 | 1.90 | | SPH: 0.29 ft. | | | | | | | | | |
| 11/18/08 | 10.39 | 8.57 | 1.82 | | SPH: 0.03 ft. | | | | | | | | | |
| 4/1/09 | 10.39 | 7.96 | 2.43 | | SPH: 0.64 ft. | | | | | | | | | |
| 10/29/09 | | | | | No Access | | | | | | | | | |
| 4/8/10 | 10.39 | NM | | | Could not open | | | | | | | | | |
| 4/29/10 | 10.39 | 5.95 | 4.44 | | SPH: None | | | | | | | | | |
| 10/19/10 | 10.39 | 6.37 | 4.02 | | SPH: None | | | | | | | | | |
| RW-D1 | | | | | | | | | | | | | | |
| 4/22/03 | | 6.97 | | | | | | | | | | | | |
| 4/28/04 | 10.18 | 5.62 | 4.56 | | | | | | | | | | | |
| 10/27/04 | 10.18 | 6.67 | 3.51 | | SPH: Present | | | | | | | | | |
| 8/31/05 | 10.18 | 5.75 | | | SPH: 0.02 ft. | | | | | | | | | |
| 3/27/06 | 10.18 | $NM^{(2)}$ | | | | | | | | | | | | |
| 9/6/06 | 10.18 | $NM^{(2)}$ | | | No Access | | | | | | | | | |
| 4/4/07 | 10.18 | $NM^{(2)}$ | | | | | | | | | | | | |
| 10/2/07 | 10.18 | $NM^{(2)}$ | | | | | | | | | | | | |
| 3/19/08 | | $NM^{(2)}$ | | | | | | | | | | | | |
| 11/19/08 | 10.18 | 11.29 | -1.11 | 6260B | SGC | 11,000 Y | 4,900 | 9,400 | 5,100 Y | 270 | 85 | 150 | 710 | < 2.0 |
| 4/1/09 | | $NM^{(2)}$ | | | | | | | | | | | | |
| 10/29/09 | | $NM^{(2)}$ | | | SPH: None | | | | | | | | | |
| 4/8/10 | 10.18 | 7.70 | 2.48 | | SPH: None | | | | | | | | | |
| 10/19/10 | 10.18 | 6.85 | 3.33 | | SPH: None | | | | | | | | | |
| RW-D2 | | | | | | | | | | | | | | |
| 4/22/03 | | 7.15 | | | SPH 1.25 ft. | | | | | | | | | |
| 4/28/04 | 10.33 | 7.45 | 2.88 | | SPH: 0.1 ft. | | | | | | | | | |
| 10/27/04 | 10.33 | 6.41 | 3.92 | | SPH: Present | | | | | | | | | |
| 8/31/05 | 10.33 | 8.44 | | | SPH: 3.12 ft. | | | | | | | | | |
| 3/27/06 | 10.33 | NM ⁽²⁾ | | | | | | | | | | | | |
| 9/6/06 | 10.33 | $NM^{(2)}$ | | | No Access | | | | | | | | | |
| 4/4/07 | 10.33 | NM ⁽²⁾ | | | | | | | | | | | | |
| 10/2/07 | 10.33 | NM ⁽²⁾ | | | | | | | | | | | | |
| 3/19/08 | 10.55 | NM ⁽²⁾ | | | | | | | | | | | | |
| 11/18/08 | 10.33 | 10.95 | -0.62 | | | | | | | | | | | |
| 4/1/09 | 10.55 | NM ⁽²⁾ | -0.02 | | | | | | | | | | | |
| 4/1/09 | | IAIAI | | | | | | | | | | | | |

Table 1 Summary of Groundwater Analytical Data, Petroleum Hydrocarbons Municipal Service Center

7101 Edgewater Drive, Oakland, California

Concentrations expressed in micrograms per liter (µg/l)

| Well ID/ Date | TOC Elevation (feet) | Depth to Groundwater (feet) | Groundwater Elevation (feet) | BTEX Method | Notes | TPH-d (µg/l) | TPH-mo (µg/l) | TPH-k (µg/l) | TPH-g (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl- benzene (µg/l) | Total Xylenes (µg/l) | MTBE (µg/l) |
|------------------|----------------------------|-----------------------------------|------------------------------------|----------------|---------------|-----------------|------------------|-----------------|-----------------|-------------------|-------------------|-----------------------------|----------------------------|----------------|
| 10/29/09 | | NM ⁽²⁾ | | | SPH: None | | | | | | | | | |
| 4/8/10 | 10.33 | 7.21 | 3.12 | | SPH: None | | | | | | | | | |
| 10/19/10 | 10.33 | 6.35 | 3.98 | | SPH: None | | | | | | | | | |
| RW-D3 | | | | | | | | | | | | | | |
| 4/22/03 | | 6.89 | | | SPH: 1.58 ft. | | | | | | | | | |
| 4/28/04 | 10.07 | 8.18 | 1.89 | | SPH: 3.25 ft. | | | | | | | | | |
| 10/27/04 | 10.07 | 6.37 | 3.70 | | SPH: Present | | | | | | | | | |
| 8/31/05 | 10.07 | 7.72 | | | SPH: 2.46 | | | | | | | | | |
| 3/27/06 | 10.07 | NM ⁽²⁾ | | | | | | | | | | | | |
| 9/6/06 | 10.07 | $NM^{(2)}$ | | | No Access | | | | | | | | | |
| 4/4/07 | 10.07 | $NM^{(2)}$ | | | | | | | | | | | | |
| 10/2/07 | 10.07 | $NM^{(2)}$ | | | | | | | | | | | | |
| 3/19/08 | | $NM^{(2)}$ | | | | | | | | | | | | |
| 11/18/08 | 10.07 | 10.10 | -0.03 | | | | | | | | | | | |
| 4/1/09 | | $NM^{(2)}$ | | | | | | | | | | | | |
| 10/29/09 | | $NM^{(2)}$ | | | SPH: None | | | | | | | | | |
| 4/8/10 | 10.07 | 7.43 | 2.64 | | SPH: None | | | | | | | | | |
| 10/19/10 | 10.07 | 6.97 | 3.10 | | SPH: None | | | | | | | | | |
| RW-D4 | | | | | | | | | | | | | | |
| 4/22/03 | | 8.11 | | | SPH: 1.98 ft. | | | | | | | | | |
| 4/28/04 | 10.22 | 7.99 | 2.23 | | SPH: 2.09 ft. | | | | | | | | | |
| 10/27/04 | 10.22 | 6.49 | 3.73 | | SPH: Present | | | | | | | | | |
| 8/31/05 | 10.22 | 8.09 | | | SPH: 2.12 ft. | | | | | | | | | |
| 3/27/06 | 10.22 | NM ⁽²⁾ | | | | | | | | | | | | |
| 9/6/06 | 10.22 | NM ⁽²⁾ | | | No Access | | | | | | | | | |
| 4/4/07 | 10.22 | NM ⁽²⁾ | | | | | | | | | | | | |
| 10/2/07 | 10.22 | NM ⁽²⁾ | | | | | | | | | | | | |
| 3/19/08 | | $NM^{(2)}$ | | | | | | | | | | | | |
| 11/19/08 (10) | 10.22 | 9.10 | 1.12 | 8260B | SGC | 55,000 | 9,700 | 46,000 | 7,600 Y | 210 | 17 | 270 | 280 | < 1.7 |
| 4/1/09 | | $NM^{(2)}$ | | | | | | | | | | | | |
| 10/29/09 | | $NM^{(2)}$ | | | SPH: None | | | | | | | | | |
| 4/8/10 | 10.22 | 5.00 | 5.22 | | SPH: None | | | | | | | | | |
| 10/19/10 | 10.22 | 6.37 | 3.85 | | SPH: None | | | | | | | | | |

RW-D5

7101 Edgewater Drive, Oakland, California

| Well ID/ Date | TOC Elevation (feet) | Depth to Groundwater (feet) | Groundwater Elevation (feet) | BTEX Method | Notes | TPH-d (µg/l) | TPH-mo (µg/l) | TPH-k (µg/l) | TPH-g (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl- benzene (µg/l) | Total Xylenes (µg/l) | MTBE (µg/l) |
|------------------|----------------------------|-----------------------------------|------------------------------------|----------------|-----------------|-----------------|------------------|-----------------|-----------------|-------------------|-------------------|-----------------------------|----------------------------|----------------|
| 4/22/03 | | 6.04 | | | SPH: 0.07 ft. | | | | | | | | | |
| 4/28/04 | 9.99 | 5.96 | 4.03 | | SPH: None | | | | | | | | | |
| 10/27/04 | 9.99 | 6.48 | 3.51 | | SPH: Present | | | | | | | | | |
| 8/31/05 | 9.99 | 7.02* | | | SPH: 1.01 ft. | | | | | | | | | |
| 3/27/06 | 9.99 | $NM^{(2)}$ | | | | | | | | | | | | |
| 9/6/06 | 9.99 | $NM^{(2)}$ | | | No Access | | | | | | | | | |
| 4/4/07 | 9.99 | $NM^{(2)}$ | | | | | | | | | | | | |
| 10/2/07 | 9.99 | $NM^{(2)}$ | | | | | | | | | | | | |
| 3/19/08 | | $NM^{(2)}$ | | | | | | | | | | | | |
| 11/18/08 | 9.99 | 9.45 | 0.54 | | | | | | | | | | | |
| 4/1/09 | | $NM^{(2)}$ | | | | | | | | | | | | |
| 10/29/09 | | $NM^{(2)}$ | | | SPH: None | | | | | | | | | |
| 4/8/10 | 9.99 | 4.97 | 5.02 | | SPH: None | | | | | | | | | |
| 10/19/10 | 9.99 | 6.30 | 3.69 | | | | | | | | | | | |
| RW-D6 | | | | | | | | | | | | | | |
| 11/18/08 | | 11.10 | | | | | | | | | | | | |
| 4/1/09 | | $NM^{(2)}$ | | | | | | | | | | | | |
| 10/29/09 | | $NM^{(2)}$ | | | SPH: None | | | | | | | | | |
| 4/8/10 | | 7.10 | | | SPH: None; Odor | | | | | | | | | |
| 10/19/10 | | 6.45 | | | SPH: None; Odor | | | | | | | | | |
| RW-D7 | | | | | | | | | | | | | | |
| 11/19/08 (10) | | 9.62 | | 8260B | SGC | 54,000 Y | 59,000 | 43,000 | 3,400 | 100 | 54 | 13 | 830 | < 3.1 |
| 4/1/09 | | $NM^{(2)}$ | | | | | | | | | | | | |
| 10/29/09 | | $NM^{(2)}$ | | | SPH: None | | | | | | | | | |
| 4/8/10 | | 5.55 | | | SPH: None | | | | | | | | | |
| 10/19/10 | | 6.45 | | | SPH: None | | | | | | | | | |
| RW-D8 | | | | | | | | | | | | | | |
| 11/18/08 | | 8.48 | | | | | | | | | | | | |
| 4/1/09 | | NM ⁽²⁾ | | | | | | | | | | | | |
| 10/29/09 | | NM ⁽²⁾ | | | SPH: None | | | | | | | | | |
| 4/8/10 | | 4.27 | | | SPH: None | | | | | | | | | |
| 10/19/10 | | 5.19 | | | SPH: None | | | | | | | | | |
| RW-D9 | | | | | | | | | | | | | | |
| 11/18/08 | | 9.70 | | | | | | | | | | | | |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|-------------------|--------------|-------------------|--------------|--------|----------------------------|---------|--------|--------|--------|---------|---------|---------|---------|--------|
| Date | Elevation | Groundwater | Elevation | Method | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | benzene | Xylenes | (µg/l) |
| | (feet) | (feet) | (feet) | | | | | | | | | (µg/l) | (µg/l) | |
| 4/1/09 | | $NM^{(2)}$ | | | | | | | | | | | | |
| 10/29/09 | | NM ⁽²⁾ | | | SPH: None | | | | | | | | | |
| 4/8/10 | | 6.92 | | | SPH: None | | | | | | | | | |
| 10/19/10 | | 6.34 | | | SPH: None | | | | | | | | | |
| | | | | | W | | | | | | | | | |
| RW-D10 | | | | | | | | | | | | | | |
| 11/18/08 | | 8.84 | | 8260B | SGC | 1,000 Y | 650 | 760 | 640 Y | 2.7 | 0.69 | 5.6 | 17.71 | < 0.50 |
| 4/1/09 | | $NM^{(2)}$ | | | | | | | | | | | | |
| 10/29/09 | | $NM^{(2)}$ | | | SPH: None | | | | | | | | | |
| 4/8/10 | | 4.87 | | | SPH: None | | | | | | | | | |
| 10/19/10 | | 6.22 | | | SPH: None | | | | | | | | | |
| | | | | | | | | | | | | | | |
| RW-D11 | | | | | | | | | | | | | | |
| 11/18/08 | | 8.66 | | | | | | | | | | | | |
| 4/1/09 | | $NM^{(2)}$ | | | | | | | | | | | | |
| 10/29/09 | | $NM^{(2)}$ | | | SPH: None | | | | | | | | | |
| 4/8/10 | | 4.71 | | | SPH: Sheen | | | | | | | | | |
| 10/19/10 | | 6.04 | | | SPH: None | | | | | | | | | |
| | | | | | | | | | | | | | | |
| OB-D1 | | | | | | | | | | | | | | |
| 4/22/03 | | 5.41 | | | Strong Odor | | | | | | | | | |
| 4/28/04 | 9.46 | 5.31 | 4.15 | | Strong Odor | | | | | | | | | |
| 10/27/04 | 9.46 | 5.89 | 3.57 | | CDIL N | | | | | | | | | |
| 8/31/05 | 9.46 | 5.42 | | | SPH: None SPH: None | | | | | | | | | |
| 3/27/06 9/6/06 | 9.46 9.46 | 3.09 8.31 | 6.37 1.15 | | SPH: None SPH: 0.01 ft. | | | | | | | | | |
| 4/4/07 | 9.46 | 7.77 | 1.69 | | 3FH. 0.01 II. | | | | | | | | | |
| 10/2/07 | 9.46 | 8.66 | 0.80 | | SPH: None | | | | | | | | | |
| 3/19/08 | 9.46 | 8.90 | 0.56 | | SPH: None | | | | | | | | | |
| 11/18/08 | 9.46 | 8.41 | 1.05 | | | | | | | | | | | |
| 4/1/09 | 9.46 | 8.50 | 0.96 | | SPH: sheen | | | | | | | | | |
| 10/29/09 | 9.46 | 7.65 | 1.81 | | SPH: None | | | | | | | | | |
| 4/8/10 | 9.46 | 4.71 | 4.75 | | Strong Odor | | | | | | | | | |
| 10/19/10 | 9.46 | 6.10 | 3.36 | | SPH: None | | | | | | | | | |
| | | | | | | | | | | | | | | |
| OB-D2 | | | | | | | | | | | | | | |
| 4/22/03 | | 5.14 | | | | | | | | | | | | |
| 4/28/04 | 9.95 | 5.25 | 4.70 | | | | | | | | | | | |
| 10/27/04 | 9.95 | 6.42 | 3.53 | | SPH: None | | | | | | | | | |

7101 Edgewater Drive, Oakland, California

| Well ID/ | TOC | Depth to | Groundwater | BTEX | Notes | TPH-d | TPH-mo | TPH-k | TPH-g | Benzene | Toluene | Ethyl- | Total | MTBE |
|-------------|-----------|-------------------|-------------|--------|---------------|-----------------|--------|--------|--------|---------|---------|-----------------|---------|--------|
| Date | Elevation | Groundwater | Elevation | Method | | (µ g/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (μg/l) | benzene | Xylenes | (µg/l) |
| | (feet) | (feet) | (feet) | | | | | | | | | (µ g/l) | (µg/l) | |
| 8/31/05 | 9.95 | 5.71 | | | SPH: 0.01 ft. | | | | | | | | | |
| 3/27/06 | 9.95 | 2.32 | 7.63 | | SPH: None | | | | | | | | | |
| 9/6/06 | 9.95 | 8.39 | 1.56 | | SPH: 0.01 ft. | | | | | | | | | |
| 4/4/07 | 9.95 | 7.94 | 2.01 | | | | | | | | | | | |
| 10/2/07 | 9.95 | 9.07 | 0.88 | | SPH: None | | | | | | | | | |
| 3/19/08 | 9.95 | 8.64 | 1.31 | | SPH: None | | | | | | | | | |
| 11/18/08 | 9.95 | 8.94 | 1.01 | | | | | | | | | | | |
| 4/1/09 | 9.95 | 7.00 | 2.95 | | SPH: None | | | | | | | | | |
| 10/29/09 | 9.95 | 8.24 | 1.71 | | SPH: None | | | | | | | | | |
| 4/8/10 | 9.95 | 5.38 | 4.57 | | SPH: None | | | | | | | | | |
| 10/19/10 | 9.95 | 6.55 | 3.40 | | SPH: None | | | | | | | | | |
| RW-1 | | | | | | | | | | | | | | |
| 4/22/03 | | 6.43 | | | | | | | | | | | | |
| 4/28/04 | | 5.73 | | | | | | | | | | | | |
| 10/27/04 | | 6.34 | | | SPH: None | | | | | | | | | |
| 8/31/05 | | 5.83 | | | SPH: None | | | | | | | | | |
| 3/27/06 | | NM ⁽²⁾ | | | | | | | | | | | | |
| 9/6/06 | | NM ⁽²⁾ | | | No Access | | | | | | | | | |
| | | NM ⁽²⁾ | | | | | | | | | | | | |
| 4/4/07 | | | | | | | | | | | | | | |
| 10/2/07 | | NM ⁽²⁾ | | | | | | | | | | | | |
| 3/19/08 | | NM ⁽²⁾ | | | | | | | | | | | | |
| 11/18/08 | | 8.81 | | | | | | | | | | | | |
| 4/1/09 | | NM ⁽²⁾ | | | | | | | | | | | | |
| 10/29/09 | | 8.17 | | | | | | | | | | | | |
| 4/8/10 | | 5.21 | | | SPH: None | | | | | | | | | |
| 10/19/10 | | 6.60 | | | SPH: None | | | | | | | | | |
| Field Blank | | | | | | | | | | | | | | |
| 10/28/04 | | | | 8260B | | | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 9/1/05 | | | | 8260B | | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 9/2/05 | | | | 8260B | | | | | < 50 | | | | | |
| 4/4/06 | | | | 8260B | | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 9/7/06 | | | | 8260B | | < 50 | <300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 4/3/07 | | | | 8260B | | <50 | < 300 | < 50 | < 50 | < 0.5 | 0.54 | < 0.5 | < 0.5 | <0.5 |
| 10/2/07 | | | | 8260B | | < 50 | < 300 | < 50 | < 50 | < 0.5 | 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 3/20/08 | | | | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 11/19/08 | | | | 8260B | SGC | < 50 | <300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 11/20/08 | | | | 8260B | SGC | < 50 | <300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 11,20,00 | | | | 02000 | 230 | -50 | - 500 | -20 | - 50 | - 5.50 | - 3.50 | - 3.50 | - 5.50 | -0.50 |

7101 Edgewater Drive, Oakland, California

Concentrations expressed in micrograms per liter (µg/l)

| Well ID/ Date | TOC Elevation (feet) | Depth to Groundwater (feet) | Groundwater Elevation (feet) | BTEX Method | Notes | TPH-d (µg/l) | TPH-mo (µg/l) | TPH-k (µg/l) | TPH-g (μg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl- benzene (µg/l) | Total Xylenes (µg/l) | MTBE (µg/l) |
|------------------|----------------------------|-----------------------------------|------------------------------------|----------------|--------------|-----------------|------------------|-----------------|-----------------|-------------------|-------------------|-----------------------------|----------------------------|----------------|
| 11/21/08 | | | | 8260B | SGC | < 50 | <300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 4/1/09 | | | | 8260B | SGC | < 50 | < 300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 10/30/09 | | | | 8260B | SGC | < 50 | <300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 4/8/10 | | | | 8260B | SGC | < 50 | <300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 10/19/10 | | | | 8260B | SGC | < 50 | <300 | < 50 | < 50 | < 0.50 | < 0.50 | < 0.50 | 0.51 | < 0.50 |
| Trip Blank | | | | | | | | | | | | | | |
| 8/19/98 | | | | 8020 | | | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 11/22/99 | | | | 8020 | | | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 11/28/00 | | | | 8020 | | | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 2/27/01 | | | | 8020 | Filtered+SGC | | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 5/17/01 | | | | 8020 | SGC | | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 12/16/01 | | | | 8021 | | | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5.0 |
| 4/5/02 | | | | 8021 | Trip Blank 1 | | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 4/5/02 | | | | 8021 | Trip Blank 2 | | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 6/21/02 | | | | 8021 | Trip Blank 1 | | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 5 |
| 9/12/02 | | | | 8021 | Trip Blank 1 | | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <2 |
| 9/13/02 | | | | 8021 | Trip Blank 2 | | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 2 |
| 4/23/03 | | | | 8021B | Trip Blank 1 | | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <2 |
| 4/28/04 | | | | 8260B | Trip Blank 1 | | | | < 100 | < 0.5 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| 10/29/04 | | | | 8260B | Trip Blank 2 | | | | < 50 | | | | | |
| 4/3/07 | | | | 8260B | Trip Blank 1 | | | | | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 10/2/07 | | | | 8260B | Trip Blank 1 | | | | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |

Notes:

Groundwater elevations corrected for the presence of free product according to the calculation: GW Elevation = TOC - DTW + (0.8 x SPH thickness)

^{(1) =} Depth to groundwater measured on August 31, 2005.

^{(2) =} Converted to an extraction well, and access port is too small for the oil/water probe.

^{(3) =} Depth to groundwater measured on March 27, 2006.

⁽⁴⁾ = Could not locate well.

⁽⁵⁾ = Well dewatered, field staff unable to collect all samples.

⁽⁶⁾ = Well has active remediation unit/recovery.

⁽⁷⁾ = Well was covered by car or heavy equipment.

⁽⁸⁾ = Depth to groundwater measured on March 19, 2008.

^{(9) =} Well dewatered, field staff unable to collect samples.

^{(10) =} Depth to groundwater measured on November 18, 2008.

^{(11) =} Low surrogate recovery was observed for hexacosane. The sample was re-extracted, but was outside the EPA recommended hold time.

Table 1

Summary of Groundwater Analytical Data, Petroleum Hydrocarbons Municipal Service Center

7101 Edgewater Drive, Oakland, California

Concentrations expressed in micrograms per liter (µg/l)

| Ī | Well ID/ Date | TOC Elevation | Depth to Groundwater | Groundwater Elevation | BTEX Method | Notes | TPH-d (µg/l) | TPH-mo (µg/l) | TPH-k (μg/l) | TPH-g (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl- benzene | Total Xylenes | ΜΤΒΕ (μg/l) |
|---|------------------|------------------|-------------------------|--------------------------|----------------|-------|-----------------|------------------|-----------------|-----------------|-------------------|-------------------|-------------------|------------------|----------------|
| | | (feet) | (feet) | (feet) | | | | | | | | | (µ g/l) | (µg/l) | |

(12) = Depth to groundwater measured on April 1, 2009.

--- = Not measured/analyzed

BTEX = Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020 or 8240/8260

DTW = Depth to water

Dup = Duplicate sample

Filtered = Groundwater samples were filtered through a 0.45-micron glass membrane filter.

ID = Identification

MTBE = Methyl tertiary-butyl ether by EPA Method 8020 or 8260. Confirmation 8260 results shown in parentheses.

NM = Not measured. Well obstructed or could not be located.

RPD = Relative percent difference

SPH = Separate-phase hydrocarbons; measured thickness

SGC = Silica gel cleanup based on Method 3630B prior to TPH-d, TPH-k, or TPH-mo analysis, following California Regional Water Quality Control Board February 16, 1999 memorandum

TBW = Tank backfill well

TOC = Top of casing

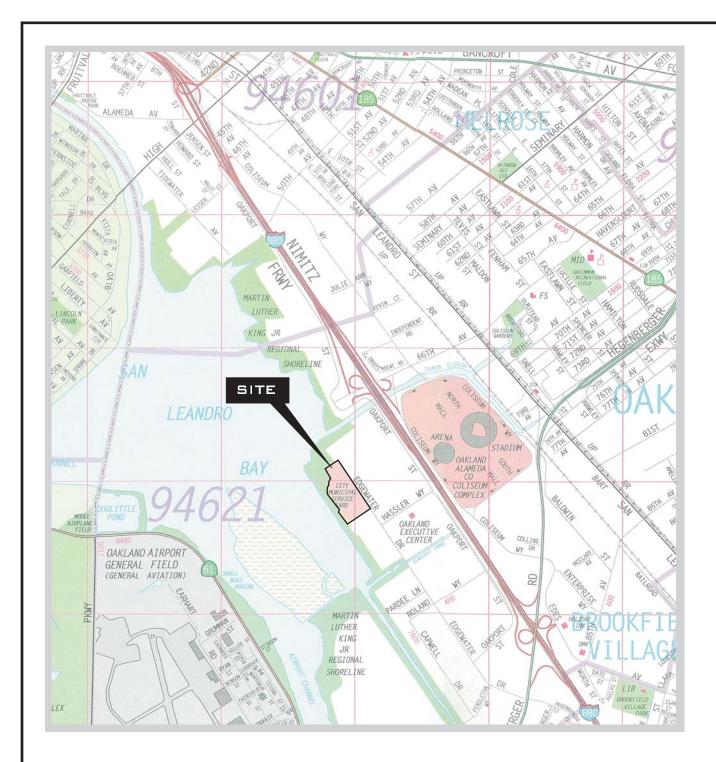
TPH-d = Total petroleum hydrocarbons quantitated as diesel - analyzed by EPA Method 8015B

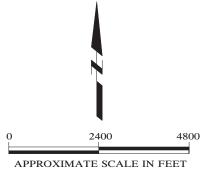
TPH-g = Total petroleum hydrocarbons quantitated as gasoline - analyzed by EPA Method 8015B

TPH-k = Total petroleum hydrocarbons quantitated as kerosene - analyzed by EPA Method 8015B

TPH-mo = Total petroleum hydrocarbons quantitated as motor oil - analyzed by EPA Method 8015B

- a = The analytical laboratory reviewed the data and noted that petroleum hydrocarbons quantified in the diesel range actually resemble heavier fuels at the front end of the motor oil pattern.
- b = The analytical laboratory reviewed the data and noted that petroleum hydrocarbons quantified in the diesel range actually resemble lighter fuels; the response looks like lower carbon chain compounds close to the gasoline range.
- c = The analytical laboratory reviewed the data and noted that the sample exhibits a fuel pattern that does not resemble the standard.
- e = Results are estimated due to concentrations exceeding the calibration range.
- f= Filtration with 0.45-micron glass membrane filter and silica gel treatment.
- h = The analytical laboratory reviewed the data and noted that petroleum hydrocarbons quantified in the motor oil range are actually from the front end of the kerosene oil pattern.
- i= The analytical laboratory reviewed the data and noted that petroleum hydrocarbons quantified in the motor oil range are actually from the back end of the kerosene oil pattern.
- j= The analytical laboratory reviewed the data and noted that the sample exhibited an unknown peak or peaks.
- B= Results flagged with "B" indicate motor oil was detected in the method blank.
- B1=Analyte detected in associated equipment blank.
- C = Footnote assigned by Ninyo and Moore, not defined in their historical tables.
- E= Footnote assigned by Ninyo and Moore, not defined in their historical tables.
- F = Original and duplicate sample results RPD was greater than 30 percent.
- H = Heavier hydrocarbons contributed to the quantitation.
- J= Value qualified as "estimated."
- L= Lighter hydrocarbons contributed to the quantitation.
- Y = Sample exhibits chromatographic pattern that does not resemble standard.
- Z = Sample exhibits unknown single peak or peaks.



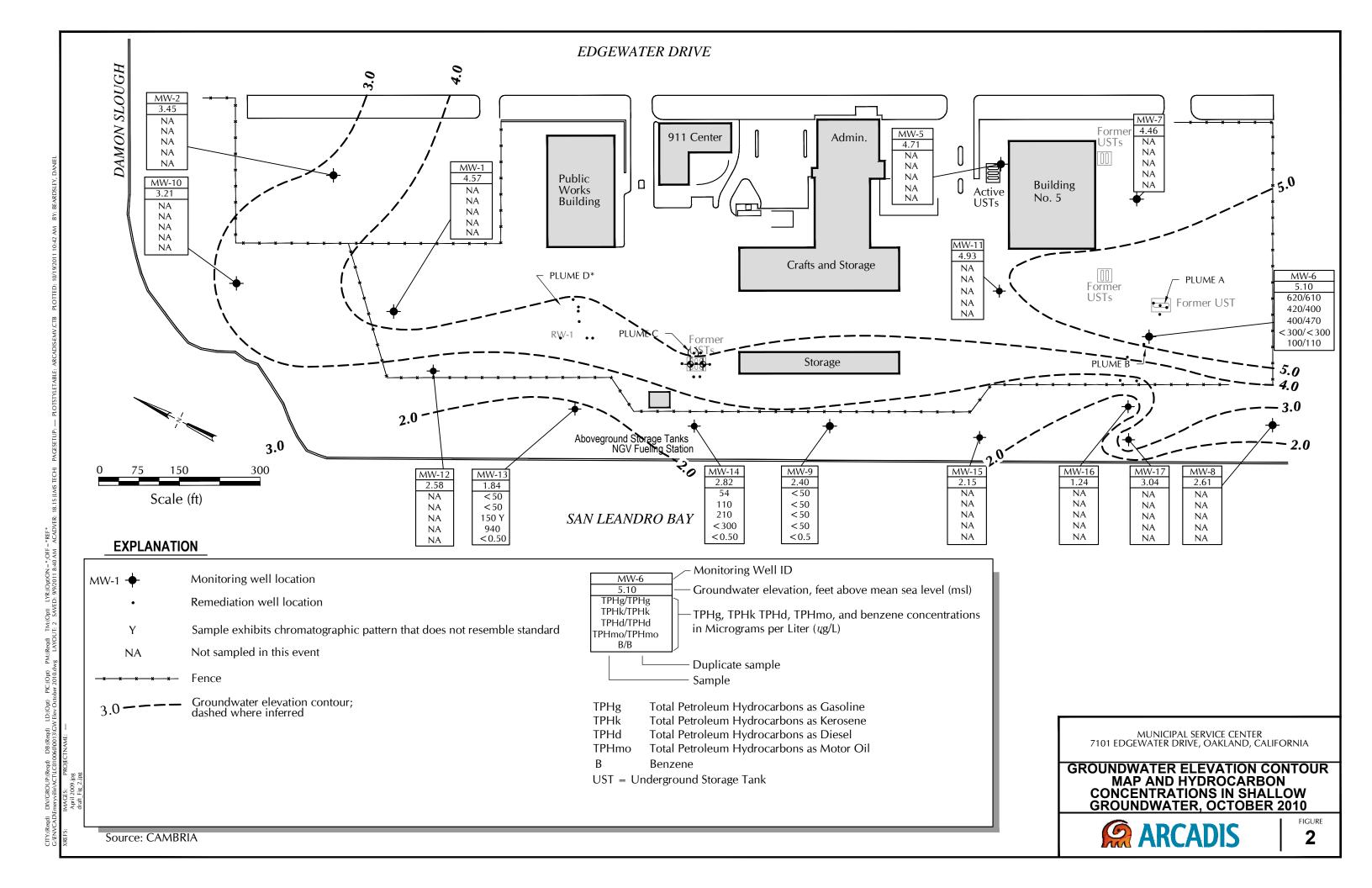


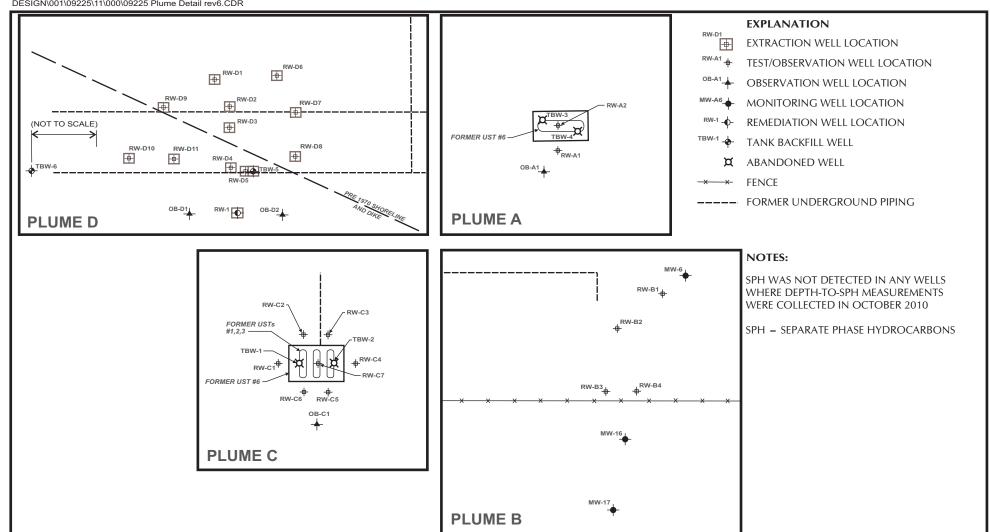
MUNICIPAL SERVICE CENTER 7101 EDGEWATER DRIVE, OAKLAND, CALIFORNIA

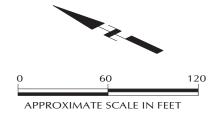
SITE VICINITY MAP



FIGURE 1







NOTE: ALL DIMENSIONS, DIRECTIONS, AND LOCATIONS ARE APPROXIMATE SOURCE: NINYO & MOORE - JULY 2004

MUNICIPAL SERVICE CENTER 7101 EDGEWATER DRIVE, OAKLAND, CALIFORNIA

> **DETAIL PLUME MAP OCTOBER 2010**



APPENDIX A

City of Oakland MSC Schedule and Protocol



CITY OF OAKLAND



DALZIEL BUILDING • 250 FRANK H. OGAWA PLAZA, SUITE 5301 • OAKLAND, CALIFORNIA 94612-2034

Public Works Agency Environmental Services FAX (510) 238-7286 TDD (510) 238-7644

November 6, 2009

Mr. Paresh Khatri Hazardous Materials Specialist Alameda-County- Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Re: Revised Groundwater Monitoring Schedule- Fuel Leak Case No. RO0000293-7101 Edgewater Drive, Municipal Service Center, Oakland, CA

Dear Mr. Khatri:

Thank you very much for our meeting on October 7, 2009 related to the above referenced project. Based on our discussions, we have reviewed the groundwater monitoring program, and have revised the sampling schedule. The recommendations for the revised sampling schedule are based on the contaminants concentrations, the site history, and the well locations.

Please see the attached table (Table 1) showing the revised monitoring schedule. It shows the proposed groundwater monitoring schedule for the sampling events in March 2010, September 2010, and September 2011 (annual) and thereafter. I have also attached a well location map as well as the existing monitoring schedule (Table 2) for comparison. Groundwater elevation and floating product (if any) measurements will be continued at all well locations, including the locations proposed for reduction in groundwater sampling and analysis. I request you to review and approve this revised monitoring plan.

If you have any questions, or would like additional information, please call me at (510) 238-6361.

Sincerely,

Gopal Nair

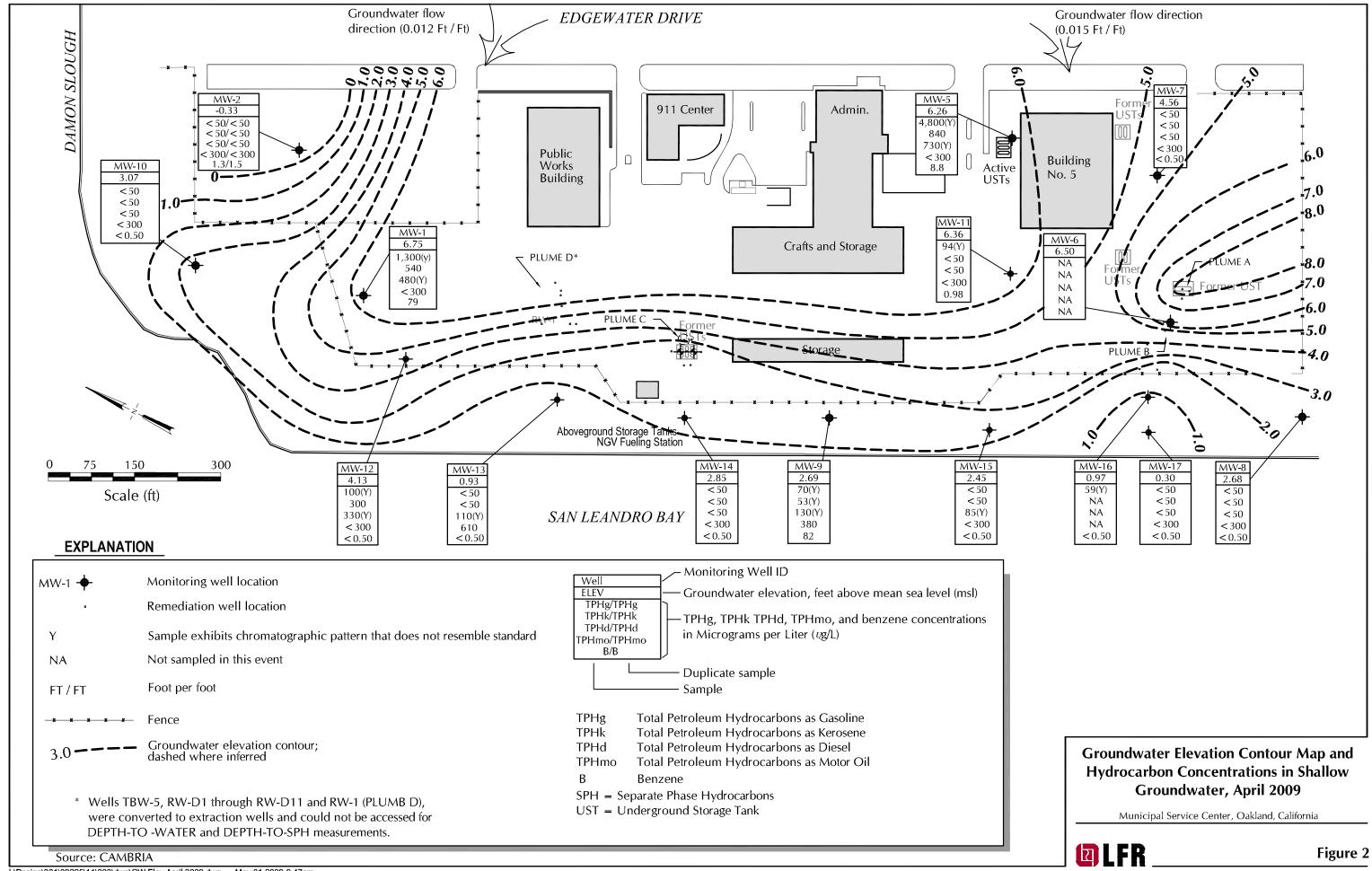
Environmental Specialist

Lopal Nais

cc: Charles Pardini, LFR, Inc. (sent via email)

| | | | Table | 1 - Revised | | | | ocol | | | | |
|------------------|-----------------------|---------------------------------------|--------------------------|--|----------------------|----------|--------------|----------|----------|----------------|--------------|---|
| | ··· | | | City of Oak | and Municip | | | | | | | |
| Well ID | | | · | | ··ş······· | | Parameters t | | | | , | Notes |
| | March-2010 | | Sept-2011 | Elevation | Floating | рН | Dissolved | Temp. | Specific | TPH gas | TPH | |
| | semi-annual | semi-annuai | annual thereafter | | Product Thickness | | Oxygen | | Conduct. | BTEX & MTBE | d/k/mo | |
| MW-1 | X | gauge only | X | Х | X | Х | X | X | Х | X | Х | benzene at 79 ug/L in April 09; interior well |
| MW-2 | gauge only | | gauge only | · · · · · · · · · · · · · · · · · · · | X | ^ | | ^ | | | | up/cross gradient well, benzene <2 ug/L since 07 |
| MW-3 | closed/destro | | gaage omy | | | | | | | | | de la companya de la |
| MW-4 | closed/destro | | | | | | | | | | | |
| MW-5 | X | gauge only | X | Х | Χ | Χ | Х | Χ | X | Χ | Х | TPH-g still over 2,000 ug/L; near active USTs |
| MW-6 | gauge only | X | X | Х | Χ | Χ | Х | Χ | Х | Χ | Х | 0.03" free-phase product in April 09 |
| MW-7 | gauge only | gauge only | gauge only | | Χ | | | | | | | upgradient well, only MTBE around 2 ug/L since 06 |
| MW-8 | gauge only | gauge only | gauge only | | Χ | | | | | | | ND for all constituents since Sept 02 |
| MW-9 | X | X | Χ | Χ | X | Χ | X | X | Χ | Χ | X | benzene still at 82 ug/L in April 09; perimeter/sentinel well |
| MW-10 | X | gauge only | X | Х | Х | X | Х | Х | Χ | X | X | ND for everything except benzene around 10 ug/L since 08 |
| MW-11 | gauge only | gauge only | gauge only | | X | | | | <u> </u> | | | interior/upgradient well, only benzene around 5 ug/L since 05 |
| MW-12 | X | gauge only | gauge only | | X | X | X | X | X | X | X | TPH-g around 150 ug/L, benzene ND (<0.5) since 2002 |
| MW-13 MW-14 | X | X | X X | X X | X | X | X | X | X | X X | X | only TPH-d around 100 ug/L, TPH-mo 600 ug/L since 06; perimeter/sentinel well all ND in April 09, but TPHmo at 660 ug/l in Nov 08; perimeter/sentinel well |
| MW-15 | gauge only | gauge only | gauge only | | X | X | X | X | X | X | X | only TPH-d around 100 ug/L since Sept 02; bezene ND since 04 |
| MW-16 | gauge only | gauge only | gauge only | ···· | X | | ^ | ^ | ^ | ^ | _ ^ | often dry/no water, MW-17 directly downgradient as sentinel well |
| MW-17 | X X | gauge only | X X | X | X | Х | Х | Х | Х | Х | Х | ND for all since 02, but directly downgredient of Plume B; perimeter/sentinel well |
| MW-18 | gauge only | | gauge only | ~~~ ` ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | X | <u> </u> | | 1 | | | <u> </u> | not located since 2003, seach & apply for closure in 2010 |
| TBW-1 | closed/destro | | | | | | | | | | | |
| TBW-2 | closed/destro | yed | | | | | | | | | | |
| TBW-3 | closed/destro | yed | | | | | | | | | | |
| TBW-4 | closed/destro | | | | | | | | | | | |
| TBW-5 | gauge only | | gauge only | | X | | | | | | | remediation well |
| TBW-6 | gauge only | | gauge only | | X | | | | | | | excavation backfill well |
| RW-A1 | gauge only | | gauge only | | X | | | - | | | | remediation well |
| RW-A2 OB-A1 | gauge only | gauge only | gauge only gauge only | | X | | | | | | | remediation well remediation observation well |
| RW-B1 | gauge only gauge only | gauge only gauge only | gauge only | | X | | | · | | | | remediation vell |
| RW-B2 | gauge only | gauge only | gauge only | · · · · · · · · · · · · · · · · · · · | X | | - | | | | | remediation well |
| RW-B3 | gauge only | | gauge only | | X | | | <u> </u> | | | | remediation well |
| RW-B4 | gauge only | gauge only | gauge only | ···· | Χ | | | | | | | remediation well |
| RW-C1 | gauge only | gauge only | gauge only | X | Χ | | | | | | | remediation well |
| RW-C2 | gauge only | gauge only | gauge only | | Χ | | | | | | | remediation well |
| RW-C3 | gauge only | | gauge only | | Х | | | | | | | remediation well |
| RW-C4 | gauge only | | gauge only | | X | | | | | | | remediation well |
| RW-C5 | gauge only | | gauge only | | X | | | | _ | | | remediation well |
| RW-C6 RW-C7 | gauge only | | gauge only | | X | | - | ļ | | | | remediation well |
| OB-C1 | gauge only gauge only | gauge only gauge only | gauge only gauge only | | X | | | | | | | remediation observation well |
| RW-D1 | gauge only | | gauge only | ~~~ | X | | | - | | | | remediation well |
| RW-D2 | gauge only | gauge only | gauge only | ~~ ^ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | X | · | | 1 | | | | remediation well |
| RW-D3 | gauge only | gauge only | gauge only | | Χ | | | | | | | remediation well |
| RW-D4 | gauge only | gauge only | gauge only | | Χ | | | | | | | remediation well |
| RW-D5 | gauge only | gauge only | gauge only | | Χ | | | | | | | remediation well |
| RW-D6 | gauge only | gauge only | gauge only | | Χ | | | ļ | | | | remediation well |
| RW-D7 | gauge only | · · · · · · · · · · · · · · · · · · · | gauge only | | Х | | | | | | | remediation well |
| RW-D8 | | gauge only | | | X | ļ | - | ļ | | | | remediation well |
| RW-D9 | gauge only | | gauge only | | X | | | 1 | | | | remediation well |
| RW-D10 RW-D11 | gauge only gauge only | | gauge only gauge only | | X | - | | - | | | | remediation well remediation well |
| RW-1 | gauge only | | gauge only | ····• | X | - | | † | <u> </u> | | - | remediation well |
| OB-D1 | gauge only | | gauge only | | X | | | | | | | remediation observation well |
| OB-D2 | gauge only | | gauge only | ~~~ | X | | \ | 1 | | | | remediation observation well |
| Notes: | 9 9 7 7 7 7 | 33 | ggy | + | | + | | - | | | - | |
| | / = measure gr | l oundwater ele | vation and flo | nating produc | ct thickness | only | | | | | - | |
| | o = total petrol | | | | | | a gel cleanu | D. | | | - | |
| | the column m | | | | | | | <u> </u> | | | | |
| | | | | | | * | | | | | | |

| | lab | le 2 - Existin | | | | | | tober 2009 | 9 | |
|----------------|-------------|-----------------------|-------------|-------------|----------|-------------|---------|------------|----------|----------|
| | | | City of Oa | ıkland Muni | cipal Se | ervices Cen | ter | | | |
| Well ID | Monitoring | g Schedule | | | Dar | ameters to | ha Mani | torod | | |
| עוווט | March | September | Flevation | Floating | рН | Dissolved | | Specific | TPH gas | TPH |
| | Water | Ocpterriber | Licvation | Product | рп | Oxygen | Temp. | Conduct. | BTEX & | d/k/mo |
| | | | | Thickness | | Охуден | | Corradot. | MTBE | G/101110 |
| MW-1 | Х | Χ | Х | X | Χ | Х | Х | Х | X | Х |
| MW-2 | X | gauge only | X | X | X | X | X | X | X | X |
| MW-3 | closed/dest | | | | , , | | , , | | | |
| MW-4 | closed/dest | | | | | | | | | |
| MW-5 | Х | X | Х | Х | Х | Х | Х | Х | Х | Х |
| MW-6 | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| MW-7 | Х | gauge only | Х | Х | Х | Х | Х | Х | Х | Х |
| MW-8 | Х | Х | Х | X | Х | Х | Х | Х | Х | Х |
| MW-9 | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| MW-10 | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| MW-11 | Х | gauge only | Х | Х | Х | Х | Х | Х | Х | Х |
| MW-12 | Х | X | Х | Х | X | Х | Х | Х | Х | Х |
| MW-13 | X | X | X | X | X | X | Χ | X | Χ | Х |
| MW-14 | X | X | X | X | X | X | Χ | X | Χ | Х |
| MW-15 | X | X | X | X | X | X | X | X | X | Х |
| MW-16 | X | X | X | X | X | X | X | X | X | Х |
| MW-17 | Χ | Χ | X | Х | X | X | X | Х | X | Х |
| MW-18 | | gauge only | X | X | | | | | | |
| TBW-1 | | gauge only | X | Χ | | | | | | |
| TBW-2 | | gauge only | X | X | | | | | | |
| TBW-3 | | gauge only | X | X | | | | | | |
| TBW-4 | | gauge only | X | X | | | | | | |
| TBW-5 | | gauge only | | X | | | | | | - |
| TBW-6 | | gauge only | X | X | | | | | | |
| RW-A1 | | gauge only | X | X | | | | | | |
| RW-A2 | | gauge only | X | X | | | | | | |
| OB-A1 | | gauge only | | X | | | | | | |
| RW-B1 | | gauge only | | X | | | | | | |
| RW-B2 | | gauge only | | X | | | | | | |
| RW-B3 RW-B4 | | gauge only | X | X | | | | | | |
| RW-C1 | | | | X | | | | | | |
| RW-C1 | | gauge only gauge only | X | X | | | | | | |
| RW-C3 | | gauge only | X | X | | | | | | |
| RW-C4 | | gauge only | X | X | | | | | | |
| RW-C5 | | gauge only | | X | | | | | | |
| RW-C6 | | gauge only | | X | | | | | | |
| RW-C7 | | gauge only | | X | | | | | | |
| OB-C1 | | gauge only | | X | | | | | | |
| RW-D1 | | gauge only | | X | | | | | | - |
| RW-D2 | | gauge only | X | X | | | | | | |
| RW-D3 | | gauge only | X | X | | | | | | |
| RW-D4 | • • • | gauge only | X | X | | | | | | 1 |
| RW-D5 | | gauge only | | X | | | | | | 1 |
| OB-D1 | | gauge only | | X | | | | | | 1 |
| OB-D2 | | gauge only | | X | | | | | | |
| Notes: | 3~~9° 01119 | 39- 0111y | ,, | , | | | | | | |
| | / = measure | groundwate | r elevation | and floatin | g produ | ct thicknes | s only | | | |
| | | roleum hydr | | | | | | silica ael | cleanup. | |
| | | , | | | | | | | | |



APPENDIX B

Groundwater Sampling Field Data Sheets

| | 200 | '400000 | - | - | - | | |
|--|----------|----------------|---|-----|-----|---|--|
| 0 | Λ | n | | Λ | | | |
| | <u> </u> | ĸ | | ш | 1 1 | 1 | |
| W 100 100 100 100 100 100 100 100 100 10 | # 1 | | | * * | 1.0 | | |

WATER-LEVEL MEASUREMENTS LOG

| Project No | LC010060.0013.00001 | _ Date | Octob | oer 19, 2010 | Page <u>1</u> of <u>2</u> | | | |
|-------------------|---------------------------------|------------|----------|--------------|---------------------------|---------|-------|------|
| Project Name | Oakland MSC | _ Day: □ S | un 🗆 Mor | Tues | □ Weds | ☐ Thurs | □ Fri | □ Sa |
| Field Personnel _ | Andrea Valdivia and Brian Prowd | | | | | | | |
| General Observa | tions MW-18 not found since | 2003-4 | bruo | rell th | ot we | & thou | ent t | Z. |
| | a (see det balan) | | | | | - < | Ú | |

| Time Measured | | | | | | | | | | |
|----------------|--------|--------|----------------|-------------|------------------|---|---------------------------|--|--|--|
| WELL | Time | | O WATER | -WATER | WELL SI | | REMARKS | | | |
| NO. | Opened | 1 | 2 | - ELEVATION | Υ | N | (UNITS = FEET) | | | |
| MW-1 | 0810 | 5.48 | 5.48 | 1014 | X_ | | * | | | |
| MW-2 | 0910 | 7.02 | 7.02 | 1109 | × | | | | | |
| MM-3 | | | | | | | CLOSED/DESTROYED | | | |
| MW-4 | | | | | | | CLUSED/DESTROYED | | | |
| MW-5 | 0905 | 6.44' | 6.44' | 1100 | X | | Ne bottos | | | |
| MM-C | C853 | 5.88 | 5,88 | 105°4A | X | | TD= 13.95 | | | |
| MW-7 | 0902 | 7.05 | 7.05 | 1058 | $^{\sim} \times$ | | No botto | | | |
| MW-8 | C928 | 9.61' | 9,61 | 1132 | X | | | | | |
| MW-9 | 0921 | 8.37 | 8.37 | 1123 | \times | | I bold missing TD=H.15 | | | |
| MW-10 | 0914 | 7.38 | 7.38 | 1114 | \sim | | I bolt missing | | | |
| MM-11 | 0852 | 6.67 | 6.67 | 1102 | \sim | | 15/16 | | | |
| MW-12 | 0916 | 7.85 | 7 <i>8</i> 5′ | 1016 | X | | | | | |
| MW-13 | 0917 | 9.50' | 9.50 | 3111 | \times | | Nobalts TD=20.25 | | | |
| MW-14 | 0920 | 7.23 | 7.23 | 1138 | X | | I had b missing TD=14.38' | | | |
| MW-15 | 0924 | 10.21 | 10.21' | 1125 | \times | | I bold missing | | | |
| WW-16 | 0925 | 10.98' | 10.98 | 1128 | \times | | No bolts | | | |
| MM-17 | 0926 | 6.82 | 6.82' | 1129 | \times | | No bolts | | | |
| MN-18 | 1107 | 10.78 | 6.78 | 1414 | × | | Boltz rebedin box a lab | | | |
| TBN-1 | | | | | | | CLOSED/DESTROYED | | | |
| TBN-2 | | e | | | | | CLOSED/DESTROYED | | | |
| TBW-3 | | | | | | | CLOSED/DESTROYED | | | |
| TBN-4 | | | | | | - | CLCSED/DESTROYED | | | |
| TBW-5 | 08-46 | 6911 | 6.91 | 1033 | X | | | | | |
| TBW-C | C&52 | 4.791 | 4.791 | 1012 | × | | | | | |
| RW-A1 | 0902 | 4.22' | 4.22' | 1056 | X | | * | | | |
| RN-A2 | 09043 | 4.22' | MODEL | 1057 | X | | | | | |
| OB-Al | 0901 | 5.091 | 5.09' | 1055 | \times | | | | | |
| RW-BI | 0855 | 7.66 | 7.66 | 10583 | | | | | | |
| RW-R2 | 08 5h | 7.67 | 7.67 | 10512 | $\sqrt{\infty}$ | | , | | | |
| RW-B2 RW-B3 | 0857 | 9.50 | 1,67' 9.50' | 10520 | | | | | | |
| RW-BA | C8 ≤ 8 | 9.80 | 9,80' | 105% | X | | | | | |
| RW-BA RW-CI | 0948 | 5.57 | 5.57 | 0958 | X | | | | | |
| | - 10 | J. J. | 0.0 | 100 | / | 1 | | | | |

| WELL NO. | WELL ELEVATION | DEPTH TO | O WATER | WATER ELEVATION | WELL SI | ECURE? | REMARKS (UNITS = FEET) |
|-------------|-------------------|----------|---------|--------------------|-----------|--------|---|
| RW-C2 | 0854 | 6.591 | 6.59 | 1001 | \propto | | |
| RW-C3 | 0855 | 6.82 | 6.82 | 1002 | × | | |
| RNGA | 0853 | 6.8A' | 6.84 | 1003 | X | | |
| RW-C5 | 0940 | 6.5A' | 6.56 | 1004 | X | | Strong oder - product NM |
| RN-C6 | 0941 | 6.40' | 6.40 | 1009 | X | | The passes in the same of the |
| RW-C7 | 0943 | 6.68 | ්රීම. ම | 1000 | X | | |
| OB-CI | 0945 | 6.37 | 6.31' | 1006 | X | | Well filled w/sediment 2"well |
| RW-DI | 0837 | 6.85 | 6.85 | 1024 | X | | |
| RW-D2 | 0840 | 635 | 6.35 | 1025 | X | | |
| RNYDS | 0842 | 6,97 | 6.97' | 1027 | X | | -97-43-41-31-31-31-31-31-31-31-31-31-31-31-31-31 |
| RN-DA | 0844 | 637 | 6.371 | 1030 | X | | |
| RW-D5 | 0845 | 6.30 | 6.30 | 1032 | X | | |
| RN-DG | 0851 | 6.45 | 6.45 | 1045 | X | | Strong oder |
| RW-DT | 0850 | 6.45 | 6.45 | 1043 | X | | |
| RW-D8 | 0849 | 5,191 | 5.19' | 1041 | X | | |
| RW-D9 | 0835 | 6.3A' | 6.3A) | 1023 | X | | |
| RW-DIO | 9830 | 6.22 | 6.22' | 1020 | X | | |
| RW-DII | 0832 | 6.04 | 6,0A | 1027 | X | | |
| RW-1 | CEST | 6.60 | 6.60 | 1035 | X | | · · |
| OB-DI | 3430 | 6.101 | 6.10' | 1038 | X | ×+ | · |
| OB-D2 | 0849 | 6.55 | 6.55 | 1040 | X | | |
| | | | | | | | |
| | *** | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | . * | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | - | |
| | | | | | | | |
| | | | | | | | , |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| , | | | - | | | | |
| | | | | | , | | |
| | | | | | | | |



| Project No. <u>LC010060.0013.00001</u> | Date: October | Date: October 19,2016 Page 1 of | | | | | |
|--|--|---------------------------------|-----|--|--|--|--|
| Project Name: MSC Oakland Edgewater | | , | | | | | |
| Sampler's Name: Brian Proud/ | | | | | | | |
| Sampling Plan By:DCR | Dated: 10/18/10 | C.O.C. No.: | DUP | | | | |
| Purge Method: ☐ Centrifugal Pump ☐ Disposat | ole Bailer □ Hand Bail □ Submersible Pur | np ☐ Teflon Bailer ☐ Other | | | | | |
| Purge Water Storage Container Type:55 gallo | n drum Storage Location: | On-site | | | | | |
| Date Purge Water Disposed: | Where Disposed: | On-site | | | | | |
| Analyses Requested TPHg / BTEX / MTBE by 8260 TPHd / TPHmo / TPHk by 8010 with silica gel clear Lab Name: Curtis and Tompkins Delivery By Courier | an-up 1 Liter Amber | | | | | | |
| Well No | Depth of Water 9.50′ Well Depth 20.25′ Water Column Height 10.75′ Well Volume 1.72 gallars | | | | | | |

| Time | Inlet Depth | Depth to Water | Volume Purged (gal) | DO (mg/L) | Temperature (C°) | PH (SU) | Cond (uS/cm C) | ORP (mV) | Turb NTU | Remarks |
|------|----------------|-------------------|------------------------|--------------|---------------------|------------|-------------------|-------------|-------------|--------------|
| 1236 | | 9.50 | Ø | 2.51 | 21.1 | 676 | 11.3 | -53 | 110,0 | |
| 1239 | | | 2.0 | 2.74 | 20,0 | 6.93 | 15,0 | -63 | - | |
| 1242 | | | ~4.0 | 274 | 19.4 | 6,98 | 15.6 | -23 | _ | |
| 1245 | | | ~5.5 | 2.70 | 194 | 6.93 | 16.2 | -76 | | |
| 1255 | End | | | | | | | → | Samo | de Collected |
| | | | | | | | | | ì | |
| | | | | | | | | | | |
| | | | | | | | | | - | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Continue remarks on reverse, if needed.



| | | | | | | | | | | • |
|---|--------------------------------------|-------------------|--------------------------|--------------|---------------------|--------------|-------------------|-------------|----------------|---------------|
| Project No | LC010 | 0060.0013.00 | 0001 | | Date: _ | 10/ | 19/1 | O | | Page 1 of |
| Project Name | : MSC Oal | kland Edgew | ater | | Sampl | ing Location | n: <u>7101 E</u> | Edgewater | Drive, Oakland | d, Ca |
| Sampler's Na | ne: Br | ian Pro | wd/A. | asida | 514 | | Sampl | e No.: | MW-14 | ├ □ FB |
| Sampling Plan | n By: | DCR _ | | | Dated: | 10/18/10 | | C.O.C. N | lo.: | DUP |
| Purge Method | l: 🗆 Centri | fugal Pump [| Disposable E | Bailer □ Ha | and Bail 🗆 Su | bmersible F | Pump □ Te | flon Bailer | □ Other | |
| Purge Water | Storage Cont | tainer Type: | 55 gallon dr | <u>um</u> | Stor | age Location | on:(| On-site | | - |
| Date Purge W | ater Dispose | ed: | | d: On-site | | | | | | |
| TPHd / TPHm Lab Name: Delivery By | o / TPHk by Curtis □ Courier _ | 8010 with sil | ica gel clean-u nsX ι | 3 VOAs | 1 Liter Amber | servative _ | | | | |
| Well Diamete | r: 2" gal/feet) | | | | 80% [| DTW | | | | |
| Time | Inlet Depth | Depth to Water | Volume Purged (gal) | DO (mg/L) | Temperature (C°) | PH (SU) | Cond (uS/cm C) | ORP (mV) | Turb. (NTU) | Remarks |
| 1300 | Start | 1.23 | Ø | 2.25 | 7.56 | 144 | -111 | 1936 | | |

| Inlet Depth | Depth to Water | Volume Purged (gal) | DO (mg/L) | Temperature (C°) | PH (SU) | Cond (uS/cm C) | ORP (mV) | てた。 (パン) Remarks | |
|----------------|-------------------|----------------------------|---|---|---|---|--|---|--|
| Start | 1.23 | Ø | 2.25 | 20,4 | 7.56 | 14.4 | -111 | 16936 | |
| | | 1.5 | 2.19 | 20.7 | 7.59 | 14.0 | -151 | 4,000 | |
| | | 2.75 | 2.21 | 20.7 | 7.62 | H.0 | -154 | | |
| | | 3.5 | | 20,8 | 7,64 | 140 | -151 | ******* | |
| End | | | | | | | \longrightarrow | Sample | |
| | | | | | | | | • | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| - | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| _ | Depth Start | Depth to Water Start 1.23 | Depth to Water Purged (gal) Start 1.23 | Depth to Water Purged (gal) (mg/L) Sbxt 7.23 | Depth to Water Purged (gal) (mg/L) (c°) Sbort 7.23 | Depth to Water Purged (gal) (mg/L) (c°) (SU) Sbort 7.23' \(\text{ 2.25 20.4 7.56} \) - 1.5 2.19 20.7 7.59 - 2.15 2.21 20.1 7.62 - 3.5 2.15 20.8 7.64 | Depth to Water Purged (gal) (mg/L) (c°) (SU) (uS/cm C) Sbx4 1.23' 2.25 20.4 7.56 14.4 - 1.5 2.19 20.7 7.59 14.6 - 2.15 2.21 20.7 7.62 14.0 - 3.5 2.15 20.8 7.64 14.0 | Depth to Water Purged (gal) (mg/L) (C°) (SU) (uS/cm C) (mV) Sbort 7.23 | Depth to Water Purged (gal) (mg/L) (C°) (SU) (uS/cm C) (mV) (NTU) Remarks Sbx+b 1.23 0 2.25 20.4 7.56 14.4 -111 14.93.6 - 1.5 2.19 20.7 7.59 14.6 -151 - - 2.15 2.21 20.7 7.62 14.0 -154 - - 3.5 2.15 20.8 7.64 140 -151 - |

Continue remarks on reverse, if neede



| Project No. <u>LC010060.0013.00001</u> | Date: | Page 1 of |
|---|---|-----------------------------------|
| Project Name: MSC Oakland Edgewater | Sampling Location: _ | 7101 Edgewater Drive, Oakland, Ca |
| Sampler's Name: Bran Praud /A | ndrea Valdivia | Sample No.: MW-G DFB |
| Sampling Plan By:DCR | Dated: <u>10/18/10</u> | C.O.C. No.: DUP |
| Purge Method: ☐ Centrifugal Pump ☑ Disposal | ole Bailer □ Hand Bail □ Submersible Pun | np □ Teflon Bailer □ Other |
| Purge Water Storage Container Type:55 gallo | n drum Storage Location: | On-site |
| Date Purge Water Disposed: | Where Disposed: | On-site |
| Analyses Requested TPHg / BTEX / MTBE by 8260 TPHd / TPHmo / TPHk by 8010 with silica gel clear Lab Name: Curtis and Tompkins | an-up 1 Liter Amber | |
| Delivery By Courier | X Hand | |
| Well No | Depth of Water 8.37 Well Depth 14.15 Water Column Height 5.78 Well Volume 0.92 | |

| Time | Inlet Depth | Depth to Water | Volume Purged (gal) | DO (mg/L) | Temperature (C°) | PH (SU) | Cond (uS/cm C) | ORP (mV) | Turb (NTU) | Remarks |
|------|----------------|-------------------|------------------------|--------------|---------------------|------------|-------------------|-------------|---------------|---------|
| 1318 | Start | e.37' | Ø | 2:40 | 21.4 | 7.14 | 19.9 - | 12,9 | my se | 21.4 |
| 1322 | | | 1.0 | 2.01 | 21.2 | 7.09 | 201 | -132 | 186.0 | |
| 1324 | | | 2.0 | 201 | 21.0 | 7.11 | 21,4 | -133 | 336.0 | |
| 1326 | | | 3.0 | 2.04 | 20,6 | 7.13 | 22.1 | -134 | 2008 | |
| 1330 | End | | | | | | | → | 8600 Samp | sle |
| | | | | | | , | | | , | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Continue remarks on reverse, if needed.

| 0 | AF | RC/ | 4D | IS | |
|---|----|-----|----|----|--|
|---|----|-----|----|----|--|

| | | | | | | | | | | Page 1 of _ |
|---------------|------------------------|-------------------|--------------------------|--------------|---------------------|-----------------|-------------------|-------------|---------------|--------------|
| | | | | | | | | | | nd, Ca |
| | | | | | | | | | | \$\fig FB@V |
| Sampling Plan | n By: | DCR _ | | | Dated: | <u>10/18/10</u> | | C.O.C. N | lo.: | X DUP MW- |
| _ | | | | | | | , | | | |
| | | | | | | | | | | |
| Date Purge W | ater Dispose | ed: | | | Wh | ere Dispose | ed: On-site | | | |
| | Analyses Re | equested | | No. a | and Type of Bot | tles Used | | | | |
| TPHg / BTE | EX/MTBE b | oy 8260 | | 3 VOAs | with HCl pre | servative _ | | | | |
| TPHd / TPHm | o / TPHk by | 8010 with si | ica gel clean-u | p | 1 Liter Amber | | | | | |
| Lab Name: | | | | | | | | | | |
| Delivery By | ☐ Courier _ | | | Hand | | | | | | |
| Well Diamete | r: 2" | | De | ell Depth _ | 13,95 | o' | | | | |
| | gal/feet) gal/feet) | | al/feet) W al/feet) W | | n Height | | | 80% [| OTW | |
| Time | inlet Depth | Depth to Water | Volume Purged (gal) | DO (mg/L) | Temperature (C°) | PH (SU) | Cond (uS/cm ⋬) | ORP (mV) | Turb (NTU) | Remarks |
| 1431 | Start | 5,88 | Ø | 2A3 | 228 | 7,13 | 3,52 | -33 | 116 | |
| 1434 | | | 1,5 | 2,39 | 22.8 | 7,69 | 3.27 | -68 | | |
| 1436 | | - | 3,6 | 2.46 | 22.5 | 7.16 | 3,32 | -48 | _ | |
| 1438 | | | 4.0 | 2.49 | 22.4 | 7,06 | 3,30 | -5 | | |
| 1438 | End | | | | | | | > | Sam | .ple |
| 1450 | | | | | | | | > | Sam | rabe |
| | | | | | | | | | • | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Continue remarks on reverse, if needed.

APPENDIX C

Laboratory Results and Chain-of-Custody Documentation





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 223317 ANALYTICAL REPORT

Arcadis Project : LC010060.0013.00001

1900 Powell St. Location: MSC Oakland

Emeryville, CA 94608 Level : II

| Sample ID | <u>Lab ID</u> |
|------------|---------------|
| TRIP BLANK | 223317-001 |
| MW-13 | 223317-002 |
| MW-14 | 223317-003 |
| MW-9 | 223317-004 |
| MW-6-FB | 223317-005 |
| MW-6 | 223317-006 |
| MW-6-DUP | 223317-007 |

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:

Project Manager

Date: <u>10/26/2010</u>

NELAP # 01107CA



CASE NARRATIVE

Laboratory number: 223317 Client: Arcadis

Project: LC010060.0013.00001

Location: MSC Oakland
Request Date: 10/19/10
Samples Received: 10/19/10

This data package contains sample and QC results for six water samples, requested for the above referenced project on 10/19/10. The samples were received cold and intact. All data were e-mailed to Daren Roth on 10/26/10.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

MW-6 (lab # 223317-006) and MW-6-DUP (lab # 223317-007) had pH greater than 2. No other analytical problems were encountered.

Curtis & Tompkins, Ltd.

Analytical Laboratory Since 1878 2323 Fifth Street Berkeley, CA 94710 (510) 486-0900 Phone (510) 486-0532 Fax

CHAIN OF CUSTODY

Page of

Analysis

| Projec | Project No.: LCO\co\co\co\co\co\co\co\co\co\co\co\co\co\ | | | | | | | EPA 8266 | 1 1 | | | |
|----------------|--|-----------------------|------|--------|--------------------|---------------|----------------------|----------|-----|-----|----|---|
| Turnar | ound Time: Standard | Fax: | | | | <u> </u> | | XAMTE | | - | | |
| | | | M | latrix | | Preserv | ative | BIEX | | | | |
| Lab No. | Sample ID. | Sampling Date Time | Soil | Waste | # of Containers | 15 % 10° % | OE | THE B | | | | |
| 1 | Trip Blank | 19/19/10 | X | 1 | 1 | X | | X | - | ++ | ++ | |
| 2 | MW-13 | 10/19/10 1755 | > | | A | X | | XX | | | - | |
| 3 | MW-14 | 10/19/10 13/5 | T | 1 | 4 | X | $ \hat{\mathbf{x}} $ | XX | | | | _ |
| - 4 | MW-9 | 10/19/10/1330 | × | | 4 | X | X | XX | | | | _ |
| 5 | MW-6-FB | 10/19/10 1420 | × | | A | X | X | XX | | 11 | | |
| <u>b</u> | MW-6 | 10/19/10 1445 | | | 4 | × | | XX | | T | | |
| 7 | MW-G-Dup | 10/19/10 1450 | X | | 4 | X | X | XX | | | | |
| | | ļ | | | | | | | | | 11 | |
| | | | - | - | | | | | | | | |
| 1 | İ | 1 | 1 1 | | i | 1 1 1 | 1 1 1 | 1 1 | 1 1 | 1 1 | | |

Notes: USE SILICA GEL CLEANUP ON THE TPHd/mo/k SAMPLES PRICE TO ANALYSIS

| SAMPLE RECEIPT | | | | | | |
|----------------|---------|--|--|--|--|--|
| Intact | Cold | | | | | |
| On Ice | Ambient | | | | | |

Preservative Correct?

RELINQUISHED BY: Andfu Valeanie

RECEIVED BY: 10/4/10/164 DATE / TIME

| + | Device Titrault |
|---|-----------------|
| = | World Strains |

10/19/10 1644 DATE / TIME

HOLD

Yes No N/A

DATE / TIME

DATE / TIME

DATE / TIME

DATE / TIME

SIGNATURE

| Login # 227517 | Date Received | shalis | Normalian of an al | |
|--|---|------------------------------|--|--------|
| Client AXCOUS | | | Number of cools | ers (|
| Date Opened _ lo//1/10 By (p | | | May | 2 |
| Did cooler come with a shipp Shipping info | ing slip (airbill, etc) | | YE | S ONO |
| 2A. Were custody seals present How many | Name | | | |
| 2B. Were custody seals intact up 3. Were custody papers dry and 4. Were custody papers filled ou 5. Is the project identifiable from 6. Indicate the packing in cooler | intact when received at properly (ink, sign on custody papers? (I | ed, etc)? If so fill out to | XE XO | S NO |
| ☐ Bubble Wrap ☐ Cloth material ☐ 7. Temperature documentation: | Foam blocks Cardboard | □ Bags □ Styrofoam | ☐ None ☐ Paper to | owels |
| Type of ice used: We | et 🔲 Blue/Gel | □None | Temp(°C)_Z. | 2 |
| ☐ Samples Received on | ice & cold without a | temperature 1 | olank | |
| ☐ Samples received on i | | _ | | m |
| 8. Were Method 5035 sampling If YES, what time were t | containers present? | | process had begu | YES 😿 |
| 9. Did all bottles arrive unbroker | n/unopened? | | | YES NO |
| 10. Are samples in the appropria | ate containers for inc | licated tests?_ | | BS NO |
| 11. Are sample labels present, in | good condition and | complete? _ | | XES NO |
| 12. Do the sample labels agree w | 71th custody papers? | | | YES NO |
| 13. Was sufficient amount of san14. Are the samples appropriatel | npie sent for tests re | quested? | 7.05 h | YES NO |
| 17 4 1 111 | | | —————————————————————————————————————— | NO N/A |
| 16. Was the client contacted cond | cerning this sample | felivery? | Y& | NO N/A |
| 15. Are bubbles > 6mm absent in16. Was the client contacted condIf YES, Who was called? | cerning uns sample (| By | Date: | YES NO |
| COMMENTS | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

SOP Volume:

Client Services

Section:

1.1.2

Page:

1 of 1

Rev. 6 Number 1 of 3

Effective: 23 July 2008 Z:\qc\forms\checklists\Cooler Receipt Checklist_rv6.doc



Total Extractable Hydrocarbons MSC Oakland EPA 3520C Lab #: 223317 Location: Client: Arcadis Prep: LC010060.0013.00001 Project#: Analysis: EPA 8015B 10/19/10 10/19/10 Matrix: Water Sampled: Units: ug/L Received: Diln Fac: 1.000 10/20/10 Prepared: Batch#: 168172 10/21/10 Analyzed:

Field ID: MW-13 Lab ID: 223317-002 Type: SAMPLE Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Kerosene C10-C16 | ND | 50 | |
| Diesel C10-C24 | 150 Y | 50 | |
| Motor Oil C24-C36 | 940 | 300 | |

| Surrogate | %REC | Limits | |
|-------------|------|--------|--|
| o-Terphenyl | 87 | 60-129 | |

Field ID: MW-14 Lab ID: 223317-003 Type: SAMPLE Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Kerosene C10-C16 | 110 | 50 | |
| Diesel C10-C24 | 210 | 50 | |
| Motor Oil C24-C36 | ND | 300 | |

| Surrogate | %REC | Limits | |
|-------------|------|--------|--|
| o-Terphenyl | 94 | 60-129 | |

Field ID: MW-9 Lab ID: 223317-004 Type: SAMPLE Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Kerosene C10-C16 | ND | 50 | |
| Diesel C10-C24 | ND | 50 | |
| Motor Oil C24-C36 | ND | 300 | |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 94 | 60-129 |

Field ID: MW-6-FB Lab ID: 223317-005 Type: SAMPLE Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Kerosene C10-C16 | ND | 50 | |
| Diesel C10-C24 | ND | 50 | |
| Motor Oil C24-C36 | ND | 300 | |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 92 | 60-129 |

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit

Page 1 of 2

3.0



| | Total Extra | actable Hydrocar | rbons |
|-----------|---------------------|------------------|-------------|
| Lab #: | 223317 | Location: | MSC Oakland |
| Client: | Arcadis | Prep: | EPA 3520C |
| Project#: | LC010060.0013.00001 | Analysis: | EPA 8015B |
| Matrix: | Water | Sampled: | 10/19/10 |
| Units: | ug/L | Received: | 10/19/10 |
| Diln Fac: | 1.000 | Prepared: | 10/20/10 |
| Batch#: | 168172 | Analyzed: | 10/21/10 |

Field ID: MW-6 Lab ID: 223317-006 SAMPLE Cleanup Method: EPA 3630C Type:

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Kerosene C10-C16 | 420 | 50 | |
| Diesel C10-C24 | 400 | 50 | |
| Motor Oil C24-C36 | ND | 300 | |

| Surrogate | %REC | Limits | |
|----------------|-------|--------|--|
| bullogate | -9KEC | птштср | |
| o-Terphenyl | 92 | 60-129 | |
| O ICI DIICII I | 24 | | |

Field ID: MW-6-DUP Lab ID: 223317-007 SAMPLE Cleanup Method: EPA 3630C Type:

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Kerosene C10-C16 | 400 | 50 | |
| Diesel C10-C24 | 370 | 50 | |
| Motor Oil C24-C36 | ND | 300 | |

BLANK QC565146 Cleanup Method: EPA 3630C Type:

Lab ID:

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Kerosene C10-C16 | ND | 50 | |
| Diesel C10-C24 | ND | 50 | |
| Motor Oil C24-C36 | ND | 300 | |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 98 | 60-129 |

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit

Page 2 of 2



| | Total Extra | actable Hydrocar | rbons |
|-----------|---------------------|------------------|-------------|
| Lab #: | 223317 | Location: | MSC Oakland |
| Client: | Arcadis | Prep: | EPA 3520C |
| Project#: | LC010060.0013.00001 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 168172 |
| Units: | ug/L | Prepared: | 10/20/10 |
| Diln Fac: | 1.000 | Analyzed: | 10/21/10 |

Type: BS Cleanup Method: EPA 3630C

Lab ID: QC565147

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 2,500 | 1,957 | 78 | 54-125 |

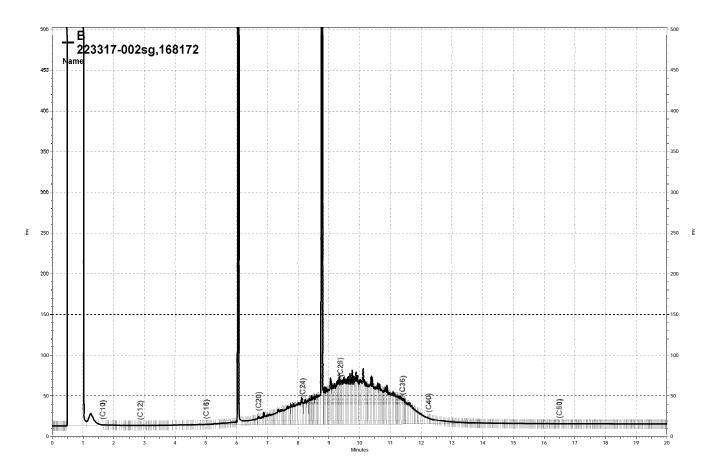
| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 100 | 60-129 |

Type: BSD Cleanup Method: EPA 3630C

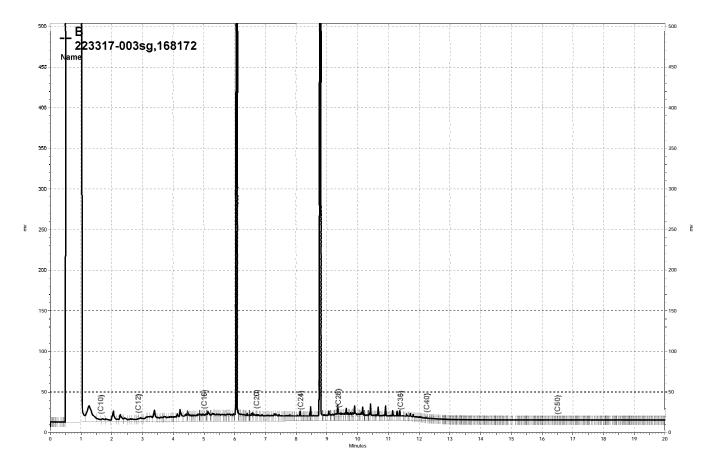
Lab ID: QC565148

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C10-C24 | 2,500 | 2,118 | 85 | 54-125 | 8 | 53 |

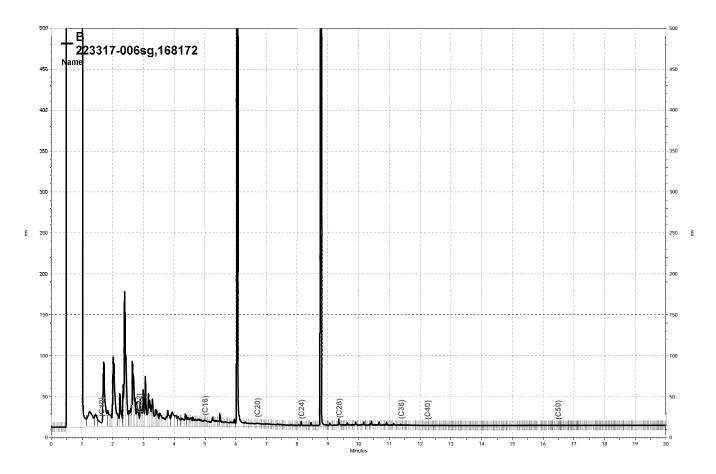
| Surrogate | %REC | Limits | |
|-------------|------|--------|--|
| o-Terphenyl | 103 | 60-129 | |



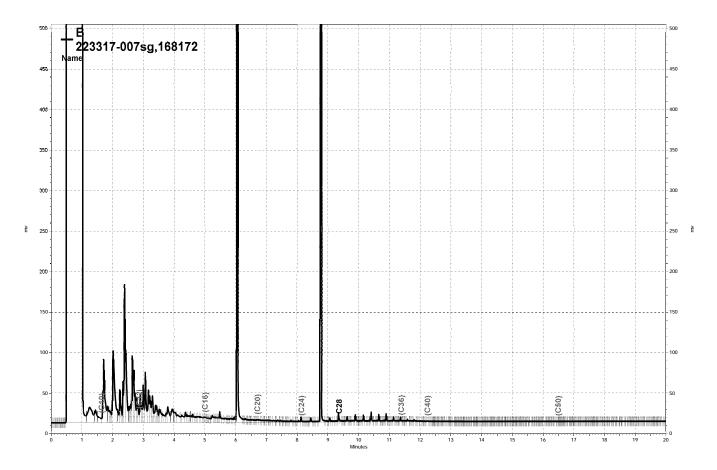
\Lims\gdrive\ezchrom\Projects\GC15B\Data\294b020, B



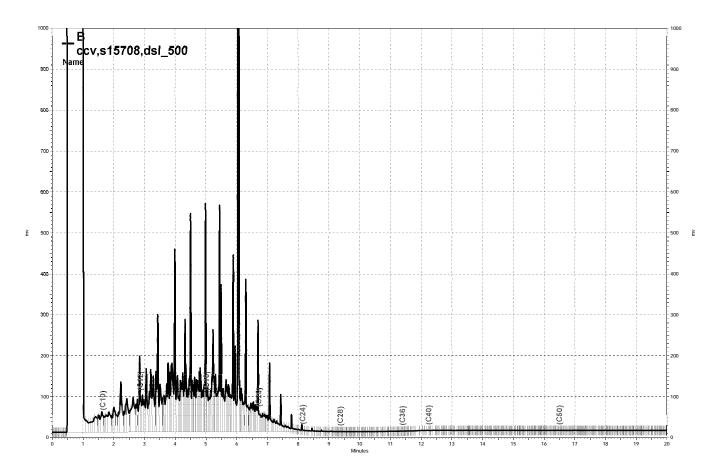
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\294b021, B



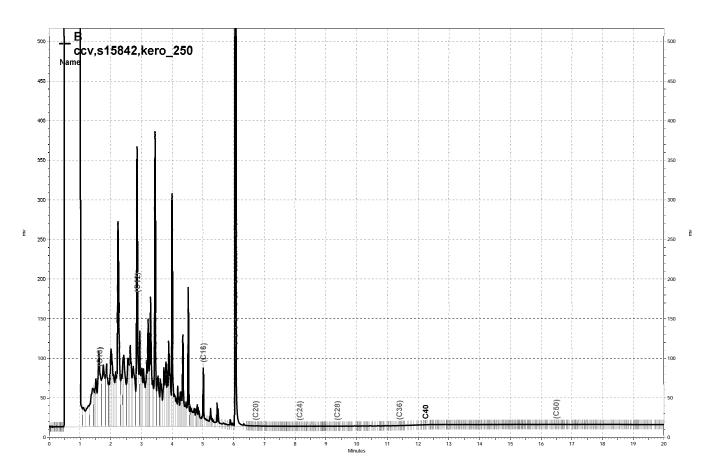
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\294b024, B



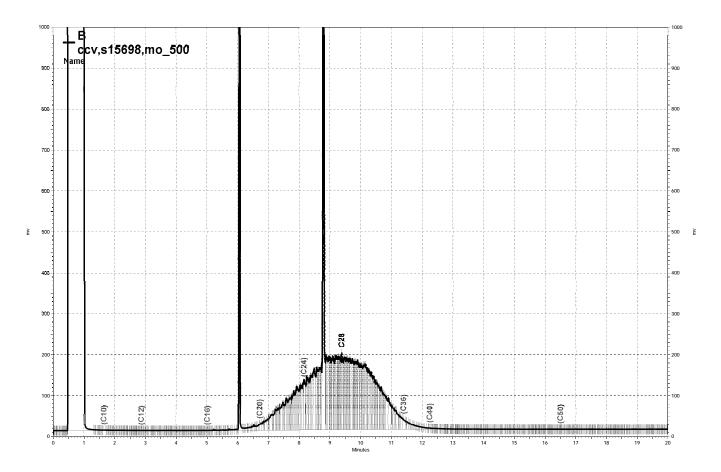
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\294b025, B



\Lims\gdrive\ezchrom\Projects\GC15B\Data\294b012, B



\Lims\gdrive\ezchrom\Projects\GC15B\Data\294b015, B



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\294b013, B



| | Gasoline by GC/MS | | | | | |
|-----------|---------------------|-----------|-------------|--|--|--|
| Lab #: | 223317 | Location: | MSC Oakland | | | |
| Client: | Arcadis | Prep: | EPA 5030B | | | |
| Project#: | LC010060.0013.00001 | Analysis: | EPA 8260B | | | |
| Matrix: | Water | Sampled: | 10/19/10 | | | |
| Units: | ug/L | Received: | 10/19/10 | | | |

Field ID: MW-13 Diln Fac: 1.000
Type: SAMPLE Batch#: 168144
Lab ID: 223317-002 Analyzed: 10/20/10

| Analyte | Result | RL | |
|-----------------|--------|------|--|
| Gasoline C7-C12 | ND | 50 | |
| MTBE | ND | 0.50 | |
| Benzene | ND | 0.50 | |
| Toluene | ND | 0.50 | |
| Ethylbenzene | ND | 0.50 | |
| m,p-Xylenes | ND | 0.50 | |
| o-Xylene | ND | 0.50 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 90 | 80-122 |
| 1,2-Dichloroethane-d4 | 111 | 71-140 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 89 | 80-121 |

Field ID: MW-14 Diln Fac: 1.000
Type: SAMPLE Batch#: 168144
Lab ID: 223317-003 Analyzed: 10/20/10

| Analyte | Result | RL | |
|-----------------|--------|------|--|
| Gasoline C7-C12 | 54 | 50 | |
| MTBE | ND | 0.50 | |
| Benzene | ND | 0.50 | |
| Toluene | ND | 0.50 | |
| Ethylbenzene | ND | 0.50 | |
| m,p-Xylenes | ND | 0.50 | |
| o-Xylene | ND | 0.50 | |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 87 | 80-122 | |
| 1,2-Dichloroethane-d4 | 109 | 71-140 | |
| Toluene-d8 | 96 | 80-120 | |
| Bromofluorobenzene | 90 | 80-121 | |

ND= Not Detected

RL= Reporting Limit

Page 1 of 5

6.1



| | Gasoline by GC/MS | | | | | |
|-----------|---------------------|-----------|-------------|--|--|--|
| Lab #: | 223317 | Location: | MSC Oakland | | | |
| Client: | Arcadis | Prep: | EPA 5030B | | | |
| Project#: | LC010060.0013.00001 | Analysis: | EPA 8260B | | | |
| Matrix: | Water | Sampled: | 10/19/10 | | | |
| Units: | ug/L | Received: | 10/19/10 | | | |

Field ID: MW-9 Diln Fac: 1.000
Type: SAMPLE Batch#: 168144
Lab ID: 223317-004 Analyzed: 10/20/10

| Analyte | Result | RL | |
|-----------------|--------|------|--|
| Gasoline C7-C12 | ND | 50 | |
| MTBE | ND | 0.50 | |
| Benzene | ND | 0.50 | |
| Toluene | ND | 0.50 | |
| Ethylbenzene | ND | 0.50 | |
| m,p-Xylenes | 0.51 | 0.50 | |
| o-Xylene | ND | 0.50 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 88 | 80-122 |
| 1,2-Dichloroethane-d4 | 109 | 71-140 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 90 | 80-121 |

Field ID: MW-6-FB Diln Fac: 1.000
Type: SAMPLE Batch#: 168144
Lab ID: 223317-005 Analyzed: 10/20/10

| Analyte | Result | RL | |
|-----------------|--------|------|--|
| Gasoline C7-C12 | ND | 50 | |
| MTBE | ND | 0.50 | |
| Benzene | ND | 0.50 | |
| Toluene | ND | 0.50 | |
| Ethylbenzene | ND | 0.50 | |
| m,p-Xylenes | ND | 0.50 | |
| o-Xylene | ND | 0.50 | |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 88 | 80-122 | |
| 1,2-Dichloroethane-d4 | 109 | 71-140 | |
| Toluene-d8 | 95 | 80-120 | |
| Bromofluorobenzene | 90 | 80-121 | |

ND= Not Detected

RL= Reporting Limit

Page 2 of 5



| Gasoline by GC/MS | | | | | |
|-------------------|---------------------|-----------|-------------|--|--|
| Lab #: | 223317 | Location: | MSC Oakland | | |
| Client: | Arcadis | Prep: | EPA 5030B | | |
| Project#: | LC010060.0013.00001 | Analysis: | EPA 8260B | | |
| Matrix: | Water | Sampled: | 10/19/10 | | |
| Units: | ug/L | Received: | 10/19/10 | | |

Diln Fac: Field ID: MW-6 2.000 168289 Batch#: Type: SAMPLE Lab ID: 223317-006 Analyzed: 10/25/10

| Analyte | Result | RL | |
|-------------------------|--------|-----|--|
| Gasoline C7-C12 | 620 | 100 | |
| MTBE | 3.3 | 1.0 | |
| Benzene | 100 | 1.0 | |
| Toluene | 1.7 | 1.0 | |
| Ethylbenzene | ND | 1.0 | |
| m,p-Xylenes o-Xylene | 2.0 | 1.0 | |
| o-Xylene | ND | 1.0 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 90 | 80-122 |
| 1,2-Dichloroethane-d4 | 102 | 71-140 |
| Toluene-d8 | 97 | 80-120 |
| Bromofluorobenzene | 90 | 80-121 |

Field ID: Diln Fac: MW-6-DUP 2.000 168236 Type: SAMPLE Batch#: Lab ID: 223317-007 Analyzed: 10/22/10

| Analyte | Result | RL | |
|-----------------|--------|-----|--|
| Gasoline C7-C12 | 610 | 100 | |
| MTBE | 3.1 | 1.0 | |
| Benzene | 110 | 1.0 | |
| Toluene | 1.6 | 1.0 | |
| Ethylbenzene | ND | 1.0 | |
| m,p-Xylenes | 1.4 | 1.0 | |
| o-Xylene | ND | 1.0 | |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 87 | 80-122 | |
| 1,2-Dichloroethane-d4 | 107 | 71-140 | |
| Toluene-d8 | 97 | 80-120 | |
| Bromofluorobenzene | 89 | 80-121 | |

ND= Not Detected

RL= Reporting Limit

Page 3 of 5 6.1



| Gasoline by GC/MS | | | | |
|-------------------|---------------------|-----------|-------------|--|
| Lab #: | 223317 | Location: | MSC Oakland | |
| Client: | Arcadis | Prep: | EPA 5030B | |
| Project#: | LC010060.0013.00001 | Analysis: | EPA 8260B | |
| Matrix: | Water | Sampled: | 10/19/10 | |
| Units: | ug/L | Received: | 10/19/10 | |

Type: BLANK Batch#: 168144
Lab ID: QC565105 Analyzed: 10/20/10

Diln Fac: 1.000

| Analyte | Result | RL | |
|-----------------|--------|------|--|
| Gasoline C7-C12 | ND | 50 | |
| MTBE | ND | 0.50 | |
| Benzene | ND | 0.50 | |
| Toluene | ND | 0.50 | |
| Ethylbenzene | ND | 0.50 | |
| m,p-Xylenes | ND | 0.50 | |
| o-Xylene | ND | 0.50 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 92 | 80-122 |
| 1,2-Dichloroethane-d4 | 110 | 71-140 |
| Toluene-d8 | 96 | 80-120 |
| Bromofluorobenzene | 91 | 80-121 |

Type: BLANK Batch#: 168236 Lab ID: QC565399 Analyzed: 10/22/10

Diln Fac: 1.000

| Analyte | Result | RL | |
|-----------------|--------|------|--|
| Gasoline C7-C12 | ND | 50 | |
| MTBE | ND | 0.50 | |
| Benzene | ND | 0.50 | |
| Toluene | ND | 0.50 | |
| Ethylbenzene | ND | 0.50 | |
| m,p-Xylenes | ND | 0.50 | |
| o-Xylene | ND | 0.50 | |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 89 | 80-122 | |
| 1,2-Dichloroethane-d4 | 114 | 71-140 | |
| Toluene-d8 | 96 | 80-120 | |
| Bromofluorobenzene | 92 | 80-121 | |

ND= Not Detected

RL= Reporting Limit

Page 4 of 5

6.1



| Gasoline by GC/MS | | | | |
|-------------------|---------------------|-----------|-------------|--|
| Lab #: | 223317 | Location: | MSC Oakland | |
| Client: | Arcadis | Prep: | EPA 5030B | |
| Project#: | LC010060.0013.00001 | Analysis: | EPA 8260B | |
| Matrix: | Water | Sampled: | 10/19/10 | |
| Units: | ug/L | Received: | 10/19/10 | |

Batch#: Type: BLANK 168289 Lab ID: Analyzed: 10/25/10 QC565619

Diln Fac: 1.000

| Analyte | Result | RL | |
|-----------------|--------|------|--|
| Gasoline C7-C12 | ND | 50 | |
| MTBE | ND | 0.50 | |
| Benzene | ND | 0.50 | |
| Toluene | ND | 0.50 | |
| Ethylbenzene | ND | 0.50 | |
| m,p-Xylenes | ND | 0.50 | |
| o-Xylene | ND | 0.50 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 89 | 80-122 |
| 1,2-Dichloroethane-d4 | 106 | 71-140 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 89 | 80-121 |

ND= Not Detected RL= Reporting Limit

Page 5 of 5



| Gasoline by GC/MS | | | | |
|-------------------|---------------------|-----------|-------------|--|
| Lab #: | 223317 | Location: | MSC Oakland | |
| Client: | Arcadis | Prep: | EPA 5030B | |
| Project#: | LC010060.0013.00001 | Analysis: | EPA 8260B | |
| Matrix: | Water | Batch#: | 168144 | |
| Units: | ug/L | Analyzed: | 10/20/10 | |
| Diln Fac: | 1.000 | | | |

Type: BS Lab ID: QC565058

| Analyte | Spiked | Result | %REC | Limits |
|--------------|--------|--------|------|--------|
| MTBE | 25.00 | 20.98 | 84 | 66-120 |
| Benzene | 25.00 | 23.63 | 95 | 80-122 |
| Toluene | 25.00 | 24.81 | 99 | 80-120 |
| Ethylbenzene | 25.00 | 24.92 | 100 | 80-123 |
| m,p-Xylenes | 50.00 | 52.17 | 104 | 80-126 |
| o-Xylene | 25.00 | 25.86 | 103 | 80-122 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 90 | 80-122 |
| 1,2-Dichloroethane-d4 | 106 | 71-140 |
| Toluene-d8 | 97 | 80-120 |
| Bromofluorobenzene | 89 | 80-121 |

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------|--------|--------|------|--------|-----|-----|
| MTBE | 25.00 | 20.27 | 81 | 66-120 | 3 | 20 |
| Benzene | 25.00 | 22.89 | 92 | 80-122 | 3 | 20 |
| Toluene | 25.00 | 24.09 | 96 | 80-120 | 3 | 20 |
| Ethylbenzene | 25.00 | 24.51 | 98 | 80-123 | 2 | 20 |
| m,p-Xylenes | 50.00 | 50.50 | 101 | 80-126 | 3 | 20 |
| o-Xylene | 25.00 | 24.94 | 100 | 80-122 | 4 | 20 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 88 | 80-122 |
| 1,2-Dichloroethane-d4 | 106 | 71-140 |
| Toluene-d8 | 97 | 80-120 |
| Bromofluorobenzene | 90 | 80-121 |



| | Gasol | line by GC/MS | |
|-----------|---------------------|---------------|-------------|
| Lab #: | 223317 | Location: | MSC Oakland |
| Client: | Arcadis | Prep: | EPA 5030B |
| Project#: | LC010060.0013.00001 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 168144 |
| Units: | ug/L | Analyzed: | 10/20/10 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC565103

| Analyte | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 1,000 | 1,051 | 105 | 80-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 90 | 80-122 |
| 1,2-Dichloroethane-d4 | 107 | 71-140 |
| Toluene-d8 | 96 | 80-120 |
| Bromofluorobenzene 8 | 89 | 80-121 |

| Analyte | Spiked | Result | %REC | Limits | RPD L | im |
|-----------------|--------|--------|------|--------|-------|----|
| Gasoline C7-C12 | 1,000 | 1,013 | 101 | 80-120 | | 20 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 87 | 80-122 |
| 1,2-Dichloroethane-d4 | 108 | 71-140 |
| Toluene-d8 | 96 | 80-120 |
| Bromofluorobenzene | 90 | 80-121 |



| | Gasol | ine by GC/MS | | |
|-----------|---------------------|--------------|-------------|--|
| Lab #: | 223317 | Location: | MSC Oakland | |
| Client: | Arcadis | Prep: | EPA 5030B | |
| Project#: | LC010060.0013.00001 | Analysis: | EPA 8260B | |
| Matrix: | Water | Batch#: | 168236 | |
| Units: | ug/L | Analyzed: | 10/22/10 | |
| Diln Fac: | 1.000 | | | |

Type: BS Lab ID: QC565397

| Analyte | Spiked | Result | %REC | Limits |
|--------------|--------|--------|------|--------|
| MTBE | 25.00 | 20.42 | 82 | 66-120 |
| Benzene | 25.00 | 23.50 | 94 | 80-122 |
| Toluene | 25.00 | 24.06 | 96 | 80-120 |
| Ethylbenzene | 25.00 | 25.07 | 100 | 80-123 |
| m,p-Xylenes | 50.00 | 51.32 | 103 | 80-126 |
| o-Xylene | 25.00 | 25.10 | 100 | 80-122 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 90 | 80-122 |
| 1,2-Dichloroethane-d4 | 109 | 71-140 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 89 | 80-121 |

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------|--------|--------|------|--------|-----|-----|
| MTBE | 25.00 | 21.57 | 86 | 66-120 | 5 | 20 |
| Benzene | 25.00 | 24.21 | 97 | 80-122 | 3 | 20 |
| Toluene | 25.00 | 24.82 | 99 | 80-120 | 3 | 20 |
| Ethylbenzene | 25.00 | 25.65 | 103 | 80-123 | 2 | 20 |
| m,p-Xylenes | 50.00 | 52.18 | 104 | 80-126 | 2 | 20 |
| o-Xylene | 25.00 | 25.93 | 104 | 80-122 | 3 | 20 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 91 | 80-122 |
| 1,2-Dichloroethane-d4 | 108 | 71-140 |
| Toluene-d8 | 97 | 80-120 |
| Bromofluorobenzene | 90 | 80-121 |



| | Gasol | ine by GC/MS | | |
|-----------|---------------------|--------------|-------------|--|
| Lab #: | 223317 | Location: | MSC Oakland | |
| Client: | Arcadis | Prep: | EPA 5030B | |
| Project#: | LC010060.0013.00001 | Analysis: | EPA 8260B | |
| Matrix: | Water | Batch#: | 168236 | |
| Units: | ug/L | Analyzed: | 10/22/10 | |
| Diln Fac: | 1.000 | | | |

Type: BS Lab ID: QC565442

| Analyte | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 1,000 | 1,107 | 111 | 80-120 |

| Surrogate | %REC | Limits |
|-------------------------|------|--------|
| Dibromofluoromethane 8 | 89 | 80-122 |
| 1,2-Dichloroethane-d4 1 | 110 | 71-140 |
| Toluene-d8 9 | 97 | 80-120 |
| Bromofluorobenzene 8 | 89 | 80-121 |

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-----------------|--------|--------|------|--------|-----|-----|
| Gasoline C7-C12 | 1,000 | 989.7 | 99 | 80-120 | 11 | 20 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 90 | 80-122 |
| 1,2-Dichloroethane-d4 | 107 | 71-140 |
| Toluene-d8 | 96 | 80-120 |
| Bromofluorobenzene | 91 | 80-121 |



| | Gasol | ine by GC/MS | |
|-----------|---------------------|--------------|-------------|
| Lab #: | 223317 | Location: | MSC Oakland |
| Client: | Arcadis | Prep: | EPA 5030B |
| Project#: | LC010060.0013.00001 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 168289 |
| Units: | ug/L | Analyzed: | 10/25/10 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC565617

| Analyte | Spiked | Result | %REC | Limits |
|--------------|--------|--------|------|--------|
| MTBE | 25.00 | 20.20 | 81 | 66-120 |
| Benzene | 25.00 | 22.63 | 91 | 80-122 |
| Toluene | 25.00 | 23.57 | 94 | 80-120 |
| Ethylbenzene | 25.00 | 23.80 | 95 | 80-123 |
| m,p-Xylenes | 50.00 | 49.44 | 99 | 80-126 |
| o-Xylene | 25.00 | 24.50 | 98 | 80-122 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 88 | 80-122 |
| 1,2-Dichloroethane-d4 | 103 | 71-140 |
| Toluene-d8 | 96 | 80-120 |
| Bromofluorobenzene | 88 | 80-121 |

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------|--------|--------|------|--------|-----|-----|
| MTBE | 25.00 | 19.82 | 79 | 66-120 | 2 | 20 |
| Benzene | 25.00 | 22.16 | 89 | 80-122 | 2 | 20 |
| Toluene | 25.00 | 23.32 | 93 | 80-120 | 1 | 20 |
| Ethylbenzene | 25.00 | 23.62 | 94 | 80-123 | 1 | 20 |
| m,p-Xylenes | 50.00 | 48.09 | 96 | 80-126 | 3 | 20 |
| o-Xylene | 25.00 | 24.37 | 97 | 80-122 | 1 | 20 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 89 | 80-122 |
| 1,2-Dichloroethane-d4 | 101 | 71-140 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 88 | 80-121 |



| Gasoline by GC/MS | | | | | | | | |
|-------------------|---------------------|-----------|-------------|--|--|--|--|--|
| Lab #: | 223317 | Location: | MSC Oakland | | | | | |
| Client: | Arcadis | Prep: | EPA 5030B | | | | | |
| Project#: | LC010060.0013.00001 | Analysis: | EPA 8260B | | | | | |
| Matrix: | Water | Batch#: | 168289 | | | | | |
| Units: | ug/L | Analyzed: | 10/25/10 | | | | | |
| Diln Fac: | 1.000 | | | | | | | |

Type: BS Lab ID: QC565645

| Analyte | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 1,000 | 1,073 | 107 | 80-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 89 | 80-122 |
| 1,2-Dichloroethane-d4 | 104 | 71-140 |
| Toluene-d8 | 97 | 80-120 |
| Bromofluorobenzene | 90 | 80-121 |

| Analyte | Spiked | Result | %REC | Limits | RPD L |
|-----------------|--------|--------|------|--------|-------|
| Gasoline C7-C12 | 1,000 | 1,044 | 104 | 80-120 | 3 20 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 88 | 80-122 |
| 1,2-Dichloroethane-d4 | 104 | 71-140 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 89 | 80-121 |

Page 2

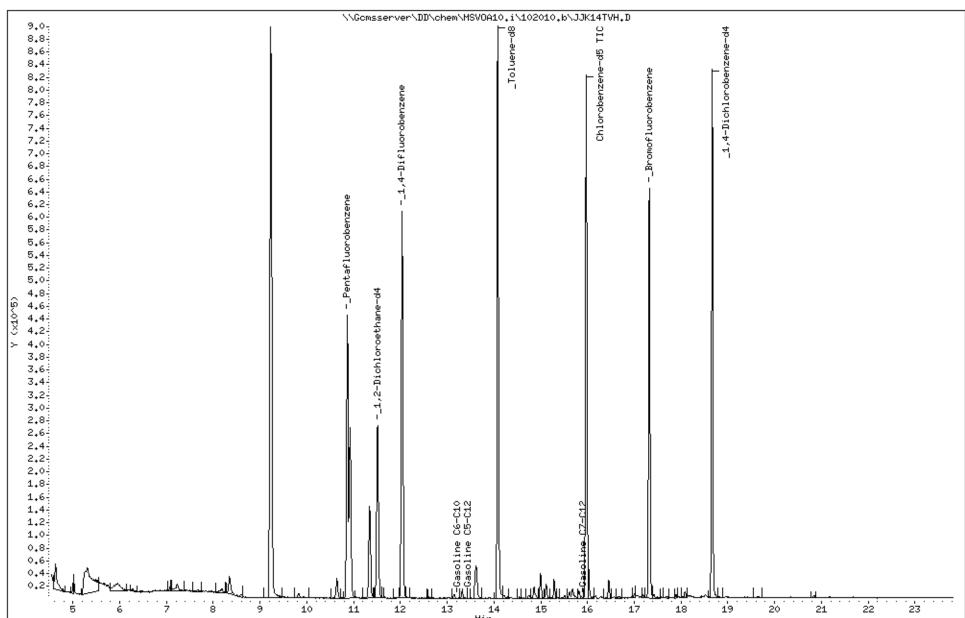
Data File: \\Gcmsserver\DD\chem\MSVOA10.i\102010.b\\JJK14TVH.D

Date : 20-0CT-2010 15:52 Client ID: DYNA P&T Sample Info: S,223317-003,

Instrument: MSVOA10.i

Operator: VOA

Column phase: Column diameter: 2.00



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\102510.b\JJP20.D

Date : 25-0CT-2010 19:38 Client ID: DYNA P&T Sample Info: ib

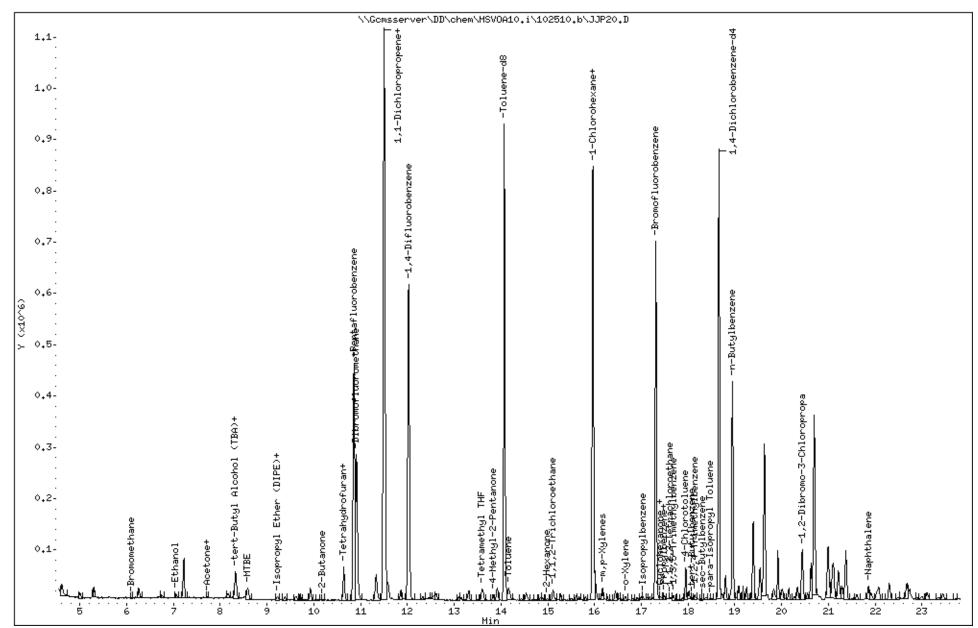
Purge Volume: 5.0

Column phase: RTx Volatiles

Instrument: MSVOA10.i

Operator: VOA

Column diameter: 0.32



Page 2

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\102210.b\\JJM14TVH.D

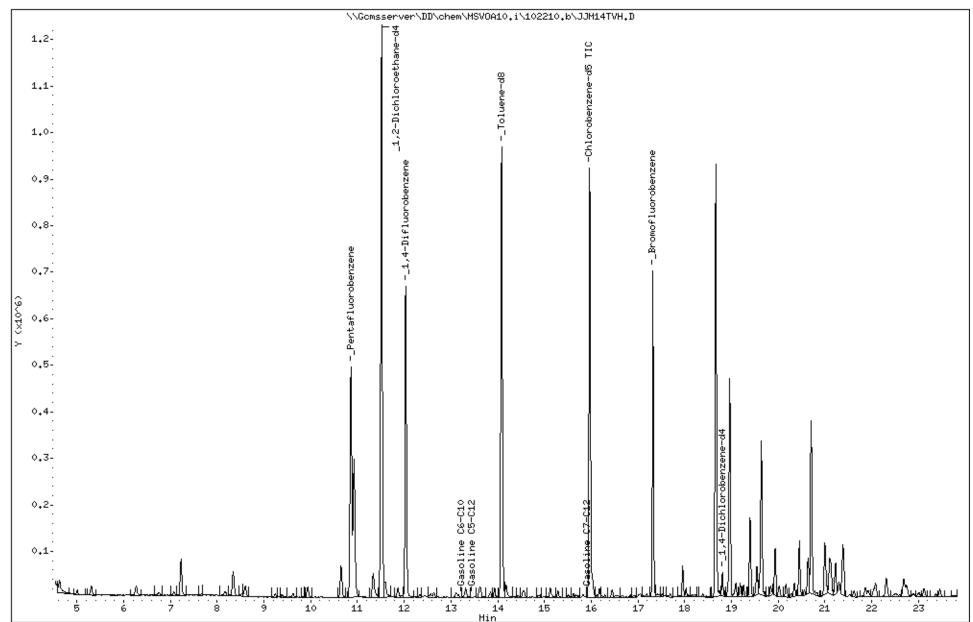
Date : 22-0CT-2010 16:35 Client ID: DYNA P&T

Instrument: MSVOA10.i

Sample Info: 223317-007,

Operator: VOA

Column phase: Column diameter: 2.00



Page 2

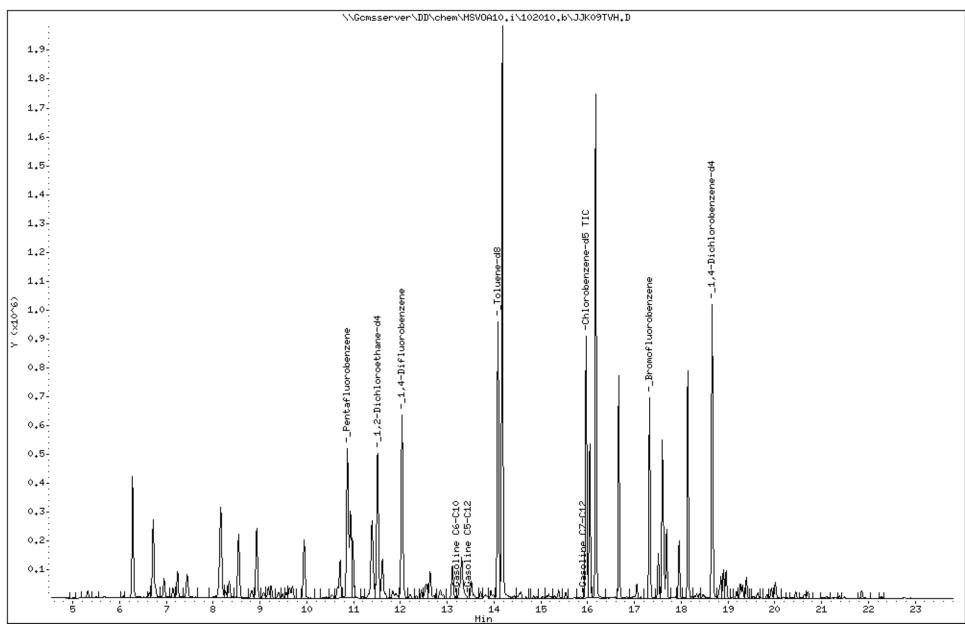
Data File: \\Gcmsserver\DD\chem\MSVOA10.i\102010.b\\JJK09TVH.D

Date : 20-0CT-2010 12:41 Client ID: DYNA P&T

Sample Info: CCV/BS,QC565103,168144,S14540,

Operator: VOA

Column phase: Column diameter: 2.00



Instrument: MSVOA10.i

APPENDIX D

Historical Tables

Table D-1
Summary of Groundwater Analytical Data, VOCs
Municipal Service Center, 7101 Edgewater Drive, Oakland, California

Concentrations expressed in micrograms per liter (µg/l)

| Well ID/ Date | Benzene (µg/l) | n-Butyl- benzene (µg/l) | , | tert-Butyl- benzene (µg/l) | Chloro- ethane (µg/l) | Chloro- form (µg/l) | Methyl Chloride (µg/l) | 1,2- DCA (µg/l) | cis-1,2- DCE (µg/l) | 1,2- DCP (µg/l) | Ethyl- benzene (µg/l) | Isopropyl- benzene (µg/l) | p-Isopropyl- toluene (µg/l) | MTBE (µg/l) | Napthalene (µg/l) | n-Propyl- benzene (µg/l) | Toluene (µg/l) | 1,2,4- TMB (µg/l) | 1,3,5- TMB (µg/l) | Xylenes (µg/l) |
|----------------------|-------------------|-------------------------------|----|----------------------------------|-----------------------------|---------------------------|------------------------------|-----------------------|---------------------------|-----------------------|-----------------------------|---------------------------------|-----------------------------------|----------------|----------------------|--------------------------------|-------------------|-------------------------|-------------------------|-------------------|
| MW-5 2/27/01 | 180 | 9 | 4 | ND | 3 | ND | ND | 7 | ND | 3 | 260 | 23 | 6 | 1,100 | 43 | 68 | 7 | 1 | 11 | 53 |
| MW-6 | | | | | | | | | | | | | | | | | | | | |
| 2/27/01 | 270 | 11 | 3 | ND | < 1 | ND | ND | 7 | ND | < 1 | 9 | 6.0 | 1.0 | 19.0 | 62 | 21 | 3 | 1 | < 1 | 3 |
| 8/20/01 | E280 | 14 | <1 | <1 | < 1 | 3 | 2 | <1 | <1 | <1 | 11 | 4.0 | <1 | 14.0 | E82 | 14 | 4 | <1 | <1 | 9 |
| TBW-1 8/20/01 | E530 | 30 | <1 | 54 | <1 | 4 | 10 | <1 | 2 | <1 | E540 | 36 | 54 | <1 | E300 | E120 | 79 | E430 | <1 | E790 |
| TBW-3 8/20/01 | 10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 6 | <1 | <1 | <1 | 5 | <1 | <1 | <1 | <1 | 3 |
| TBW-5 8/20/01 | E620 | <1 | <1 | E160 | <1 | 3 | <1 | <1 | <1 | <1 | E730 | 40 | E160 | <1 | E450 | E140 | E110 | <1 | <1 | E3100 |

Notes:

cis-1,2-DCE = cis-1,2-dichloroethene

E = Estimated concentration.

MTBE = methyl tertiary-butyl ether

ND = Not detected.

VOCs = Volatile organic compounds by EPA Method 8260. Sample not subject to silica gel cleanup or filtration prior to analysis.

1,2-DCA = 1,2-dichloroethane

1,2-DCP = 1,2-dichloropropane

1,2,4-TMB = 1,2,4-trimethylbenzene

1,3,5-TMB = 1,3,5-trimethylbenzene

Table D-2 Summary of Groundwater Analytical Data, SVOCs Municipal Service Center, 7101 Edgewater Drive, Oakland, California

Concentrations expressed in micrograms per liter (µg/l)

| Well ID/ Date | Napthalene (µg/l) | Pyrene (µg/l) | Other SVOCs (µg/l) |
|------------------|----------------------|------------------|-----------------------|
| | | | |
| MW-6 | | | |
| 2/27/01 | 19 | ND | ND |
| 8/20/01 | 52 | <5 | 39 |
| MW-9 | | | |
| 11/28/00 | ND | ND | ND |
| MW-13 | | | |
| 11/28/00 | ND | 10 | ND |
| MW-17 | | | |
| 11/28/00 | ND | ND | ND |
| TBW-1 | | | |
| 8/20/01 | 140 | 8 | 387 |
| TBW-3 | | | |
| 8/20/01 | < 5 | <5 | 5 |
| TBW-5 | | | |
| 8/20/01 | 220 | <5 | 73 |
| | | | |

Notes:

SVOCs = Semivolatile organic compounds by EPA Method 8270.

ND = Not detected

Samples not subject to silica gel cleanup or filtration before analysis.

Table D-3
Summary of Groundwater Analytical Data, LUFT Metals
Municipal Service Center, 7101 Edgewater Drive, Oakland, California

Concentrations expressed in milligrams per liter (mg/l)

| Well ID/ Date | Cadmium (mg/l) | Chromium (mg/l) | Lead (mg/l) | Nickel (mg/l) | Zinc (mg/l) | Notes |
|------------------|-------------------|--------------------|----------------|------------------|----------------|--------------|
| MW-2 | | | | | | |
| 8/19/98 | | | < 100 | | | a |
| MW-6 | | | | | | |
| 2/28/01 | < 0.001 | 0.035 | 0.23 | 0.046 | 0.19 | non-filtered |
| 8/16/01 | < 0.001 | 0.020 | 0.12 | 0.032 | 0.11 | |
| TBW-1 | | | | | | |
| 8/16/01 | < 0.001 | 0.017 | 0.042 | 0.034 | 0.10 | 0.1* |
| | | | | | | |
| TBW-3 | | | | | | |
| 8/16/01 | < 0.001 | 0.008 | 0.01 | 0.019 | < 0.02 | |
| TBW-5 | | | | | | |
| 8/16/01 | < 0.001 | < 0.005 | 0.01 | 0.008 | 0.03 | |
| 0/10/01 | \0.001 | V 0.003 | 0.01 | 0.000 | 0.03 | |

Notes:

LUFT = Leaking Underground Fuel Tank

LUFT metals by EPA Method 6010. Samples filtered in lab before analysis, unless noted otherwise.

^{--- =} Not measured/analyzed.

^{* =} Note was indicated but not defined in historical data tables.

a = Analyzed for organic lead.

Table D-4 Summary of Groundwater Analytical Data, Additional Metals Municipal Service Center, 7101 Edgewater Drive, Oakland, California

Concentrations expressed in milligrams per liter (mg/l)

| Sample ID/ Date | Antimony (mg/l) | Arsenic (mg/l) | Beryllium (mg/l) | Copper (mg/l) | Selenium (mg/l) | Silver (mg/l) | Thallium (mg/l) |
|--------------------|--------------------|-------------------|---------------------|------------------|--------------------|------------------|--------------------|
| | | | | | | | |
| MW-6 | | | | | | | |
| 8/16/01 | < 0.01 | 0.033 | < 0.001 | 0.025 | < 0.01 | < 0.003 | < 0.01 |
| TBW-1 | | | | | | | |
| 8/16/01 | < 0.01 | 0.015 | < 0.001 | 0.017 | < 0.01 | < 0.003 | < 0.01 |
| TDXX 2 | | | | | | | |
| TBW-3 | | | | | | | |
| 8/16/01 | < 0.01 | 0.009 | < 0.001 | 0.008 | < 0.01 | < 0.003 | < 0.01 |
| TBW-5 | | | | | | | |
| 8/16/01 | < 0.01 | 0.020 | < 0.001 | < 0.005 | < 0.01 | < 0.003 | < 0.01 |
| | | | | | | | |

Notes:

Metals by EPA Method 6010. Samples filtered in lab before analysis, unless noted otherwise.