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By lopprojectop at 9:04 am, Nov 17, 2005

November 16, 2005

Mr. Barney Chan
Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

**RE: 3rd Quarter 2005, Quarterly Groundwater Monitoring and Product Recovery
Report – 2277 Seventh Street, Oakland, CA**

Dear Mr. Chan:

Please find enclosed the subject Port of Oakland (Port) groundwater monitoring and product recovery report for 2277 Seventh Street in Oakland, California. This report is being submitted in accordance with Alameda County Health Care Services Agency (ACHCSA) requirements.

The next monitoring event will be performed during the fourth quarter of 2005, and will be in accordance with the aforementioned requirements. If you have any questions or comments regarding the results, please contact me at (510) 627-1134.

Sincerely,

Jeffrey L. Rubin, CPSS, REA
Port Associate Environmental Scientist
Environmental Health and Safety Compliance

Enclosure: noted

Cc (w encl.): Michele Heffes

Cc (w/o encl.): Jeff Jones
Rogerio Leong (Innovative Technical Solutions, Inc.)
Rachel B. Hess (Innovative Technical Solutions, Inc.)
Jeffrey D. Hess (Innovative Technical Solutions, Inc.)



November 8, 2005

Mr. Jeff Rubin
Associate Environmental Scientist
Port of Oakland
530 Water Street
Oakland, California 94607

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By loprojectop at 9:04 am, Nov 17, 2005

**Third Quarter of 2005 Quarterly Groundwater Monitoring
and Product Monitoring Report
2277 Seventh Street
Oakland, California**

Dear Mr. Rubin:

Innovative Technical Solutions, Inc. (ITSI) is pleased to submit this report to the Port of Oakland (Port) for the groundwater monitoring and sampling program at 2277 7th Street in Oakland, California (Figure 1). This report summarizes the quarterly monitoring of four groundwater monitoring wells (MW-2, MW-4, MW-5, and MW-8A) at 2277 7th Street. The locations of these wells are shown on Figure 2.

Collection of groundwater samples from monitoring wells MW-1 and MW-3 was not performed this quarter due to the presence of measurable thickness of separate-phase petroleum hydrocarbons floating on the groundwater surface.

BACKGROUND

Monitoring wells were installed to assess groundwater quality following the removal of underground storage tanks (USTs) from the site in September 1993. The former USTs, located on the south side of Building C-401, consisted of two 10,000-gallon gasoline tanks (CF-17 and CF-18), one 500-gallon oil tank (CF-19), and one 300-gallon waste oil tank (CF-20). On April 20, 2000, Harding ESE (Harding) performed oversight of the abandonment of monitoring well MW-8, located at the northern edge of the property. This monitoring well was properly destroyed¹ to accommodate the construction of a railroad track associated with the Port of Oakland Vision 2000 improvements. All surface structures, including the well, needed to be removed.

Harding monitored MW-8 from 1998 until it was abandoned. During this time, no groundwater samples were collected because the well contained a thick, viscous, tar-like petroleum product. After the railroad construction was completed, the Port had a replacement well, MW-8A, installed in the same vicinity on October 2, 2001 by ITSI. MW-8A has been sampled since the fourth quarter of 2001, and no separate phase petroleum has been detected.

¹ - Destruction and abandonment of all monitoring wells were performed in accordance with Alameda County Public Works Agency Guidelines.

Providing Turnkey Civil/Environmental Engineering and Construction

Site preparation activities for the construction of a new Harbor Facilities Center (HFC) were initiated in November 2002 at 2277 7th Street site. The eastern side of Building C-401 was demolished, and the asphalt pavement east of the building was removed in December 2002. A concrete ring was placed around each well for protection and prevention from damage by heavy equipment during site demolition. Two monitoring wells (MW-6 and MW-7) were properly destroyed to facilitate the construction plans at the site, and six monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-8A) still remain onsite. The surface grade was raised approximately 2 feet in the vicinity of wells MW-2 and MW-3 during the first quarter of 2003.

Three additional monitoring wells were previously installed at the adjacent 2225 7th Street site to assess groundwater quality following the removal of USTs in 1989 and 1992. The 2225 7th Street site was also modified and included for the expansion plan of HFC. Buildings C-406 and C-407 were demolished and the entire surrounding asphalt pavement was removed in November 2002. The three former monitoring wells (MW-1, MW-2, and MW-3) located at the site were also properly destroyed to facilitate the Port's construction plans.

On April 16, 2003, ITSI on behalf of the Port oversaw the removal of a 100-foot section of the product recovery conveyance system (refer to Figure 2). The Port contracted Dillard Environmental Services (Dillard) to perform the work. The section of product recovery system was removed to minimize interference with site development. The conveyance system consisted of a PVC conduit pipe containing the pneumatic and product recovery lines. These lines connected the system control box and the recovery tank to the skimmer pump installed in well MW-3. Portions of the surface concrete pieces and asphalt from the trench line were excavated, removed and stockpiled onsite. Sections of the removed conduit pipes and product line were appropriately disposed of and transported offsite by Dillard as non-RCRA hazardous solid waste material under the Uniform Hazardous Waste Manifest. A new product removal system was installed as part of the HFC construction activities. The system was operational in November 2004 after the HFC development activities were completed.

On November 17 and 18, 2003, ITSI personnel raised monitoring wells MW-2 and MW-3 to match the asphalt surface elevation of the future HFC parking lot. New traffic rated well boxes were placed on the two wells and the elevation of the top of each well box was set with a laser level instrument. The elevations of the wells were subsequently surveyed on November 26, 2003 to a relative Port of Oakland datum by PLS Surveys, Inc. (PLS).

GROUNDWATER MONITORING

ITSI personnel performed groundwater monitoring and sampling at the 2277 7th Street site on September 29, 2005. Prior to purging and sampling the monitoring wells, the depth to groundwater below the top of the well casing was measured with a water level indicator. After measuring the depth to water, the wells were purged using a disposable bailer. Conductivity, pH, and temperature were monitored periodically during purging. Collection of groundwater samples was performed after removing a minimum of three well-casing volumes of water and upon stabilization of three consecutive measurements of conductivity, pH, and temperature. The depths to groundwater and field parameter measurements were recorded on the respective Monitoring Well Water Level Measurement and Monitoring Well Purging and Sampling forms included as Appendix A. The purge water was stored onsite in a 55-gallon DOT drum. Dillard Environmental Services Company, Inc. (Dillard) periodically removes and appropriately disposes of the purge water.

ITSI collected groundwater samples from the monitoring wells using Teflon disposable bailers and then transferred the groundwater into laboratory-provided containers. A duplicate sample was collected for quality assurance. Sample containers were labeled with the sample number, date and time of collection, and sampler's initials, and then placed in an insulated cooler with ice. The samples were accompanied by a laboratory provided trip blank and delivered under chain-of-custody protocol to McCampbell Analytical, Inc. (MAI) in Pacheco, a California certified analytical laboratory.

The third quarter 2005 groundwater monitoring event at 2277 7th Street involved monitoring and sampling of monitoring wells MW-2, MW-4, MW-5, and MW-8A, and monitoring of the free-phase petroleum product in wells MW-1 and MW-3. Groundwater level measurements are summarized in Table 1 and product thickness measurements are summarized on Table 2. The groundwater gradient direction is presented on Figure 3. Copies of the respective Monitoring Well Water Level Measurement and Monitoring Well Purging and Sampling forms are included in Appendix A.

LABORATORY ANALYSIS OF GROUNDWATER SAMPLES

MAI performed the chemical analyses of the groundwater samples using the following analytical methods:

- Total petroleum hydrocarbons as gasoline (TPHg) in accordance with EPA Method 8015B.
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl t-butyl ether (MTBE) in accordance with EPA Method 8260B.
- TPH as diesel (TPHd) in accordance with EPA Method 8015B following a silica-gel cleanup procedure.
- TPH as motor oil (TPHmo) in accordance with EPA Method 8015B following a silica-gel cleanup procedure.

The laboratory results for 2277 7th Street are summarized in Table 3 and are shown on Figure 4. Copies of the laboratory results and chain-of-custody forms are provided in Appendix B.

FINDINGS

Groundwater measurements were conducted on September 29, 2005. The water levels are presented in Table 1. The groundwater elevation contour map is presented on Figure 3. According to these contours, the groundwater appears to be flowing towards the north-northeast. The groundwater flow direction observed during September 2005 is consistent with the historic flow direction reported in the previous reports.

Results of the September 29, 2005 groundwater sampling at 2277 7th Street are summarized below:

- TPHg was detected in one well at a concentration of 360 µg/L in MW-4. This result was qualified by the laboratory as unmodified or weakly modified gasoline is significant.
- Benzene was detected in one well at a concentration of 160 µg/L in MW-4.
- Toluene was not detected above the reporting limit in any of the wells sampled this quarter.
- Ethylbenzene was not detected above the reporting limit in any of the wells sampled this quarter.
- Total xylenes were not detected above the reporting limit in any of the wells sampled this quarter.

- MTBE was not detected above the reporting limit in any of the wells sampled this quarter.
- TPHd was detected in two wells at concentrations of 59 µg/L in well MW-4 and 66 µg/L in well MW-8A, respectively. The MW-4 result was qualified by the laboratory as gasoline range compounds are significant and the MW-8A result as diesel range compounds are significant; no recognizable pattern.
- TPHmo was not detected above reporting limit in any of the wells sampled this quarter.

QUALITY ASSURANCE AND QUALITY CONTROL

A duplicate sample was collected simultaneously from monitoring well MW-4 and labeled as MW-4D at 2277 7th Street on September 29, 2005 and submitted to the analytical laboratory to evaluate the precision of the analytical results. Precision is an indication of the reproducibility of results and is assessed by calculating the Relative Percent of Difference (RPD) between the primary sample result (X₁) and the duplicate sample result (X₂), as follows:

$$RPD = \frac{X_1 - X_2}{(X_1 + X_2)/2} \times 100$$

For example: A low RPD indicates high precision; a RPD of 67 percent indicates the two results differ by a factor of two. As shown below, the RPD was calculated for chemical compounds detected above the reporting limit in either the duplicate or primary sample.

2277 7 th St. MW-4 09/29/05	ANALYTE	X ₁	X ₂	RPD
	MTBE	<5.0	<5.0	--
	B	160	150	6.45
	T	<5.0	<5.0	--
	E	<5.0	<5.0	--
	X	<5.0	<5.0	--
	TPHd	59	<50	--
	TPHmo	<250	<250	--
	TPHg	360	420	15.38

- The overall RPD values are low indicating results from the sample and the duplicate analysis are in agreement.

PRODUCT RECOVERY SYSTEM AT 2277 7TH STREET

Until April 16, 2003 the product recovery system at 2277 7th Street consisted of an air-actuated (active) product skimmer in MW-3. The product in MW-3 was discharged to a product recovery 1,000-gallon tank that Foss Environmental Services Company, Inc. *(former contractor) emptied at various times throughout a quarter. A passive skimmer was installed in MW-1, and it was subsequently removed on May 22, 2000 because no measurable product appeared in the well. The passive skimmer was reinstalled in MW-1 after free product was detected in the well on September 6, 2000. The active and passive product recovery skimmers were subsequently removed from the wells in April 2003 due to activities related to the construction of the new HFC.

The Port recently replaced the former free product recovery system with the installation of two new mitigation systems at the site. Overaa Construction (Overaa) completed the installation of a soil gas venting system beneath the new HFC's building slab. The system was completed in early 2005 and initial testing was performed in April 2005. Final "as built" drawings and an operation and maintenance manual have been prepared for the soil gas venting system. Beliveau Engineering Contractors, Inc., subcontracted to Dillard, completed a new product recovery system in November 2004 designed to recover the product floating on the groundwater beneath the site. Initial testing and calibration began during December 2004. The system is currently fully operational and free product is being removed from the surface of shallow groundwater. Further testing and calibration of the system will continue for a full year through the end of 2005 accounting for seasonal variations. Final "as built" drawings and an operation and maintenance manual have been prepared for the free product recovery system.

The free-phase petroleum product has been monitored in wells MW-1 and MW-3 on a quarterly basis in conjunction with the quarterly groundwater sampling event. During this third quarter monitoring event, free-phase petroleum product was measured at 0.67 feet and 1.40 feet in MW-1 and MW-3, respectively. Table 2 presents a summary of the product thickness data. A summary of the activities during the past quarters associated with the operation and maintenance of the product recovery system is presented in Table 4.

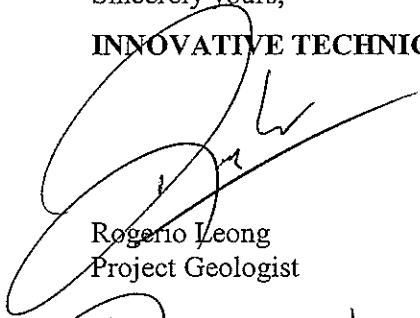
* Effective October 31, 2003, Foss Environmental Services, Inc. was acquired as a wholly owned subsidiary of National Response Corporation, Inc. (NRC)

Third Quarter of 2005 Groundwater Monitoring
and Product Monitoring Report
2277 Seventh Street, Oakland, California


We appreciate the opportunity to present this report and trust that this document meets with your approval.
Please do not hesitate to contact us at (925) 946-3105 with any questions or comments.

Sincerely yours,

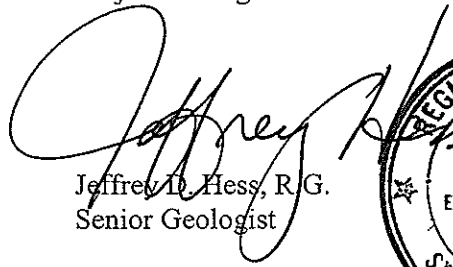
INNOVATIVE TECHNICAL SOLUTIONS, INC.



Rogerio Leong
Project Geologist



Rachel B. Hess
Project Manager



Jeffrey D. Hess, R.G.
Senior Geologist



Attachments:

- Table 1 – Groundwater Elevations Data, 2277 7th Street
- Table 2 – Summary of Product Removal and Product Thickness, 2277 7th Street
- Table 3 – Groundwater Sample Results, 2277 7th Street
- Table 4 – Summary of Operation and Maintenance Activities

- Figure 1 – Site Location Map
- Figure 2 – Site Plan
- Figure 3 – Groundwater Elevations, 2277 7th Street, September 29, 2005
- Figure 4 – Groundwater Sample Results, 2277 7th Street, September 29, 2005

- Appendix A – Monitoring Well Water Level Measurement Form and
Monitoring Well Purging and Sampling Form
- Appendix B - Laboratory Reports
- Appendix C - Daily Field Activity Report

TABLES

Table 1
Groundwater Elevations Data
Port of Oakland, 2277 7th Street, Oakland, California

Well ID	Elevation Top of Casing (feet)	Date Of Monitoring	Depth to Water (feet)	Groundwater Elevation (feet)
MW-1	14.14	4/18/2000	8.21	5.93
		5/22/2000	8.17	5.97
		7/10/2001	10.00	4.14
		12/12/2001	NA	NA
		3/8/2002	NA	NA
		6/13/2002	NA	NA
		9/26/2002	NA	NA
		12/12/2002	NA	NA
		3/17/2003	NA	NA
		6/18/2003	NA	NA
		9/3/2003	NA	NA
		11/26/2003	NA	NA
		3/5/2004	NA	NA
		6/2/2004	NA	NA
		9/3/2004	NA	NA
		12/16/2004	NA	NA
		3/29/2005	NA	NA
6/14/2005	NA	NA		
8/10/2005	NA	NA		
9/29/2005	NA	NA		

Table 1
Groundwater Elevations Data
Port of Oakland, 2277 7th Street, Oakland, California

Well ID	Elevation Top of Casing (feet)	Date Of Monitoring	Depth to Water (feet)	Groundwater Elevation (feet)	
MW-2	14.36	12/31/1997	8.73	5.63	
		4/13/1998	7.72	6.64	
		11/6/1998	9.43	4.93	
		3/19/1999	8.21	6.15	
		6/24/1999	8.91	5.45	
		9/28/1999	9.42	4.94	
		11/12/1999	9.63	4.73	
		2/11/2000	8.54	5.82	
		5/22/2000	8.10	6.26	
		9/6/2000	8.79	5.57	
		12/19/2000	9.19	5.17	
		2/21/2001	7.99	6.37	
		4/3/2001	8.23	6.13	
		7/10/2001	8.70	5.66	
		12/12/2001	8.16	6.20	
		1/22/2002	7.64	6.72	
		3/8/2002	8.31	6.05	
		6/13/2002	8.64	5.72	
		9/26/2002	8.95	5.41	
		12/12/2002	9.17	5.19	
		3/17/2003	7.77	6.59	
		6/18/2003	8.44	5.92	
		9/3/2003	8.98	5.38	
		11/26/2003	17.21	12.01	5.20
		3/5/2004		9.75	7.46
		6/2/2004		11.22	5.99
		9/3/2004		11.62	5.59
	12/16/2004		10.80	6.41	
3/29/2005		9.67	7.54		
6/14/2005		10.68	6.53		
8/10/2005		11.05	6.16		
9/29/2005		11.32	5.89		

Table 1
Groundwater Elevations Data
Port of Oakland, 2277 7th Street, Oakland, California

Well ID	Elevation Top of Casing (feet)	Date Of Monitoring	Depth to Water (feet)	Groundwater Elevation (feet)
MW-4	13.15	12/31/1997	7.09	6.06
		4/13/1998	7.71	5.44
		11/6/1998	8.69	4.46
		3/19/1999	8.00	5.15
		6/24/1999	8.45	4.70
		9/28/1999	8.73	4.42
		11/12/1999	8.83	4.32
		2/11/2000	7.71	5.44
		5/22/2000	8.09	5.06
		9/6/2000	8.32	4.83
		12/19/2000	8.47	4.68
		2/21/2001	7.51	5.64
		4/3/2001	8.13	5.02
		7/10/2001	8.12	5.03
		12/12/2001	7.65	5.50
		1/22/2002	7.60	5.55
		3/8/2002	7.96	5.19
		6/13/2002	8.20	4.95
		9/26/2002	8.21	4.94
		12/12/2002	8.38	4.77
		3/17/2003	7.72	5.43
		6/18/2003	8.02	5.13
		9/3/2003	8.29	4.86
		11/26/2003	8.69	4.46
		3/5/2004	7.45	5.70
		6/2/2004	8.25	4.90
9/3/2004	8.31	4.84		
12/16/2004	7.96	5.19		
3/29/2005	7.11	6.04		
6/14/2005	7.90	5.25		
8/10/2005	7.86	5.29		
9/29/2005	8.00	5.15		

Table 1
Groundwater Elevations Data
Port of Oakland, 2277 7th Street, Oakland, California

Well ID	Elevation Top of Casing (feet)	Date Of Monitoring	Depth to Water (feet)	Groundwater Elevation (feet)
MW-5	13.49	12/31/1997	6.38	7.11
		4/13/1998	5.56	7.93
		11/6/1998	6.59	6.90
		3/19/1999	6.20	7.29
		6/24/1999	6.73	6.76
		9/28/1999	6.91	6.58
		11/12/1999	7.06	6.43
		2/11/2000	7.00	6.49
		5/22/2000	6.21	7.28
		9/6/2000	6.56	6.93
		12/19/2000	6.68	6.81
		2/21/2001	6.08	7.41
		4/3/2001	6.38	7.11
		7/10/2001	6.58	6.91
		12/12/2001	6.40	7.09
		1/22/2002	6.10	7.39
		3/8/2002	6.10	7.39
		6/13/2002	6.31	7.18
		9/26/2002	6.60	6.89
		12/12/2002	6.75	6.74
		3/17/2003	5.73	7.76
		6/18/2003	6.10	7.39
		9/3/2003	6.50	6.99
		11/26/2003	6.70	6.79
		3/5/2004	5.70	7.79
		6/2/2004	6.27	7.22
9/3/2004	6.61	6.88		
12/16/2004	6.02	7.47		
3/29/2005	5.25	8.24		
6/14/2005	5.82	7.67		
8/10/2005	6.00	7.49		
9/29/2005	6.26	7.23		

Table 1
Groundwater Elevations Data
Port of Oakland, 2277 7th Street, Oakland, California

Well ID	Elevation Top of Casing (feet)	Date Of Monitoring	Depth to Water (feet)	Groundwater Elevation (feet)
MW-6	14.00	6/24/1999	8.61	5.39
		9/28/1999	9.26	4.74
		11/12/1999	8.01	5.99
		2/11/2000	7.20	6.80
		5/22/2000	7.13	6.87
		9/6/2000	7.12	6.88
		12/19/2000	7.57	6.43
		2/21/2001	7.50	6.50
		4/3/2001	6.88	7.12
		7/10/2001	7.15	6.85
		12/12/2001	9.50	4.50
		1/22/2002	6.69	7.31
		3/8/2002	6.98	7.02
		6/13/2002	7.45	6.55
		9/26/2002	7.95	6.05
		12/12/2002	7.71	6.29
		12/18/2002	Monitoring well was destroyed	
MW-7	14.35	12/31/1997	8.88	5.47
		4/13/1998	7.86	6.49
		11/6/1998	9.55	4.80
		3/19/1999	8.41	5.94
		6/24/1999	9.08	5.27
		9/28/1999	9.60	4.75
		11/12/1999	9.77	4.58
		2/11/2000	8.67	5.68
		5/22/2000	8.43	5.92
		9/6/2000	8.88	5.47
		12/19/2000	9.21	5.14
		2/21/2001	8.13	6.22
		4/3/2001	8.45	5.90
		7/10/2001	8.87	5.48
		12/12/2001	8.39	5.96
		1/22/2002	7.99	6.36
3/8/2002	8.51	5.84		
6/13/2002	8.90	5.45		
9/26/2002	9.00	5.35		
12/12/2002	9.28	5.07		
		12/18/2002	Monitoring well was destroyed	

Table 1
Groundwater Elevations Data
Port of Oakland, 2277 7th Street, Oakland, California

Well ID	Elevation Top of Casing (feet)	Date Of Monitoring	Depth to Water (feet)	Groundwater Elevation (feet)
MW-8A	12.94	12/12/2001	7.20	NA
		1/22/2002	7.20	5.74
		3/8/2002	7.70	5.24
		6/13/2002	7.72	5.22
		9/26/2002	7.91	5.03
		12/12/2002	8.15	4.79
		3/17/2003	7.28	5.66
		6/18/2003	7.72	5.22
		9/3/2003	8.18	4.76
		11/26/2003	8.55	4.39
		3/5/2004	6.92	6.02
		6/2/2004	7.92	5.02
		9/3/2004	8.16	4.78
		12/16/2004	7.62	5.32
		3/29/2005	6.63	6.31
6/14/2005	7.60	5.34		
8/10/2005	7.50	5.44		
9/29/2005	7.76	5.18		

¹ Elevation data relative to Port of Oakland datum; well surveys performed on September 12, 1996, February 4, 1998, and November 26, 2003, by PLS Surveys.

- Data prior to November 6, 1998 taken from *Groundwater Monitoring, Sampling and Product Removal System O&M Report* dated July 21, 1998, by Innovative Technical Solutions, Inc.
 - Monitoring MW-8 was abandoned on April 20, 2000 in order to construct a railroad track associated with the Port of Oakland's New Harbor Facility.
- NA = Not available

Table 2
Summary of Product Removal and Product Thickness
Port of Oakland, 2277 7th Street, Oakland, California

Well ID	Elevation of Top of Casing (feet)	Date Of Monitoring	Depth to Free Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Estimated Product Removed (gallons)	Product Removal Method ²
MW-1	14.14	12/31/1997	-	-	-	0.2	passive skimmer
		1/29/1998	-	-	-	0.2	passive skimmer
		3/2/1998	-	-	-	0.018	passive skimmer
		5/11/1998	-	-	-	0.02	passive skimmer
		6/15/1998	-	-	-	0.2	passive skimmer
		11/6/1998	9.34	10.3	0.96	1.2	passive skimmer
		1/7/1999	-	-	-	0.2	passive skimmer
		2/11/1999	-	-	-	0.2	passive skimmer
		3/12/1999	-	-	-	0.2	passive skimmer
		3/19/1999	NM	8.45	>0.01	0.07	passive skimmer
		4/14/1999	-	-	-	0.2	passive skimmer
		5/11/1999	-	-	-	0.2	passive skimmer
		6/24/1999	8.88	9.63	0.8	0.2	passive skimmer
		7/15/1999	--	--	--	0.2	passive skimmer
		7/16/1999	--	--	--	0.2	passive skimmer
		8/27/1999	--	--	--	0.2	passive skimmer
		9/28/1999	--	--	0.65	0.2	passive skimmer
		10/5/1999	--	--	--	0.2	passive skimmer
		11/12/1999	9.38	10.27	0.89	0.2	passive skimmer
		12/21/1999	--	--	--	0.2	passive skimmer
		1/26/2000	--	--	--	0.2	passive skimmer
		1/28/2000	9.22	9.24	0.02	--	passive skimmer
		2/11/2000	--	7.00	0.00	0.2	passive skimmer
		3/1/2000	--	7.45	0.00	0.0	passive skimmer
		3/21/2000	NM	7.34	0.00	0.0	passive skimmer
		4/18/2000	NM	8.21	0.00	0.0	passive skimmer
		5/22/2000 ³	NM	8.51	0.00	0.0	passive skimmer
		9/6/2000 ⁴	8.52	9.24	0.72	0.0	passive skimmer
		9/21/2000	8.71	9.26	0.55	0.0	passive skimmer
		10/11/2000	--	--	--	0.0	passive skimmer
		11/30/2000	--	--	--	0.0	passive skimmer
		12/19/2000	9.5	9.89	0.39	0.0	passive skimmer
		2/22/2001	8.3	8.4	0.13	0.0	passive skimmer
		4/3/2001	8.3	8.55	0.25	0.0	passive skimmer
		4/23/2001	--	--	--	0.0	passive skimmer
		5/11/2001	--	--	--	0.0	passive skimmer
		5/30/2001	8.5	8.9	0.40	0.0	passive skimmer
		6/14/2001	--	--	--	0.0	passive skimmer
		7/10/2001	8.8	10	1.20	0.0	passive skimmer
		12/12/2001	NA	NA	NA	1.0	passive skimmer
3/8/2002	NA	NA	NA	NA	passive skimmer		
4/3/2002	8.3	9.2	0.90	--	passive skimmer		
4/23/2002	8.5	9.6	1.10	--	passive skimmer		
5/10/2002	8.7	9.6	0.90	--	passive skimmer		
5/24/2002	8.8	10	1.20	--	passive skimmer		

Table 2
Summary of Product Removal and Product Thickness
Port of Oakland, 2277 7th Street, Oakland, California

Well ID	Elevation of Top of Casing (feet)	Date Of Monitoring	Depth to Free Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Estimated Product Removed (gallons)	Product Removal Method ²
MW-1 (Cont'd)	14.14	6/13/2002	8.7	10	1.30	--	passive skimmer
		6/21/2002	8.8	10	1.20	--	passive skimmer
		7/5/2002	8.5	9.4	0.90	0.2	passive skimmer
		7/19/2002	8.6	9.6	1.00	0.2	passive skimmer
		7/30/2002	8.5	9.3	0.80	0.2	passive skimmer
		8/14/2002	8.5	9.3	0.80	0.2	passive skimmer
		9/13/2002	8.8	9.6	0.80	0.2	passive skimmer
		9/26/2002	8.6	9.5	0.90	0.2	passive skimmer
		10/14/2002	9.0	10.1	1.10	0.2	passive skimmer
		11/4/2002	9.22	10.12	0.90	0.2	passive skimmer
		11/21/2002	8.48	8.86	0.38	0.2	passive skimmer
		12/6/2002	8.85	9.38	0.53	0.0	passive skimmer
		12/18/2002	8.05	8.26	0.21	0.2	passive skimmer
		12/30/2002	7.61	7.63	0.02	<0.1	passive skimmer
		1/2/2003	7.36	7.36	sheen	<0.1	passive skimmer
		1/3/2003	7.35	7.35	sheen	<0.1	passive skimmer
		1/14/2003	7.35	7.36	sheen	<0.1	passive skimmer
		1/30/2003	7.75	7.81	0.06	<0.1	passive skimmer
		2/18/2003	7.81	8.35	0.54	<0.1	passive skimmer
		2/26/2003	7.72	8.62	0.90	<0.1	passive skimmer
		3/13/2003	7.80	8.11	0.89	0.2	passive skimmer
		3/17/2003	7.61	8.88	1.27	0.2	passive skimmer
		4/16/2003	7.42	8.71	1.29	<0.2	passive skimmer
		6/18/2003	8.20	9.44	1.24	<0.2	passive skimmer
		9/3/2003	8.50	9.40	0.90	--	8
		11/26/2003	8.85	9.25	0.40	--	8
		3/5/2004	6.76	7.07	0.31	--	8
		6/2/2004	8.26	8.71	0.45	--	8
		9/3/2004	8.70	9.11	0.41	--	8
		12/16/2004	7.75	7.92	0.17	--	8
		3/29/2005	6.21	6.38	0.17	--	8
6/14/2005	7.41	7.61	0.20	--	8		
8/10/2005	8.05	8.55	0.50	--	8		
9/29/2005	8.28	8.95	0.67	--	8		
MW-3	14.22	12/31/1997	-	-	-	30	active skimmer
		1/29/1998	-	-	-	10	active skimmer
		4/13/1998	-	-	-	240	active skimmer
		5/11/1998	-	-	-	1,545	active skimmer
		6/15/1998	-	-	-	1,950	active skimmer
		11/6/1998	8.84	9.94	1.1	500	active skimmer
		1/5/1999	-	-	-	275 ²	active skimmer
		1/14/1999	-	-	-	400 ²	active skimmer
		2/3/1999	-	-	-	400 ²	active skimmer
		2/26/1999	-	-	-	570 ²	active skimmer

Table 2
Summary of Product Removal and Product Thickness
Port of Oakland, 2277 7th Street, Oakland, California

Well ID	Elevation of Top of Casing (feet)	Date Of Monitoring	Depth to Free Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Estimated Product Removed (gallons)	Product Removal Method ²
MW-3 (Cont'd)	14.22	3/19/1999	7.52	8.05	0.5	211	active skimmer
		6/16/1999	-	-	-	310	active skimmer
		6/24/1999	8.38	8.56	0.2	--	active skimmer
		7/14/1999	--	--	--	50 ²	active skimmer
		9/28/1999	--	--	0.2	--	active skimmer
		10/29/1999	--	--	--	125 ²	active skimmer
		11/12/1999	9.14	9.23	0.09	--	active skimmer
		1/28/2000	--	--	--	135	active skimmer
		2/11/2000	7.97	8.37	0.40	40	active skimmer
		3/1/2000	6.59	7.24	0.65	0.0	active skimmer
		3/21/2000	6.50	6.56	0.06	35	active skimmer
		4/18/2000	--	--	--	--	active skimmer
		5/22/2000	7.51	8.05	0.54	40	active skimmer
		6/26/2000	7.82	8.2	0.38	90	active skimmer
		7/25/2000	7.90	8.92	1.02	20	active skimmer
		8/31/2000	8.15	9.5	1.35	30	active skimmer
		9/6/2000	8.21	9.42	1.21	--	active skimmer
		9/21/2000	8.30	8.88	0.58	115	active skimmer
		10/11/2000	--	--	--	170	active skimmer
		11/30/2000	--	--	--	105	active skimmer
		12/19/2000	8.60	9.65	1.05	10	active skimmer
		2/22/2001	6.36	8.15	1.79	--	active skimmer
		4/3/2001	7.48	8.88	1.40	--	active skimmer
		4/23/2001	7.85	9.1	1.25	--	active skimmer
		5/11/2001	--	--	--	--	active skimmer
		5/30/2001	7.75	9.1	1.35	--	active skimmer
		6/14/2001	--	--	--	--	active skimmer
		7/10/2001	8.10	9.6	1.50	--	active skimmer
		12/12/2001	NA	NA	NA	1,000 ⁵	active skimmer
		3/8/2002	7.80	8	0.20	1,000 ⁵	active skimmer
		4/3/2002	7.60	7.7	0.10	--	active skimmer
		4/23/2002	7.90	8.4	0.50	--	active skimmer
		4/25/2002	7.90	8.8	0.90	--	active skimmer
		5/10/2002	8.10	8.2	0.10	--	active skimmer
5/24/2002	8.05	8.1	0.05	--	active skimmer		
6/13/2002	8.10	8.7	0.60	1,000 ⁵	active skimmer		
7/5/2002	8.10	8.95	0.85	--	active skimmer		
7/19/2002	8.10	8.9	0.80	--	active skimmer		
7/30/2002	8.10	8.9	0.80	--	active skimmer		
8/14/2002	8.10	8.9	0.80	--	active skimmer		
9/13/2002	8.30	9.3	1.00	--	active skimmer		
9/26/2002	8.30	9.0	0.70	--	active skimmer		
10/14/2002	8.60	9.5	0.90	--	active skimmer		
11/4/2002	8.75	9.99	1.24	--	active skimmer		
11/21/2002	8.59	11.29	2.70	150 ⁶	active skimmer		
12/6/2002	8.56	9.3	0.74	150 ⁶	active skimmer		

Table 2
Summary of Product Removal and Product Thickness
Port of Oakland, 2277 7th Street, Oakland, California

Well ID	Elevation of Top of Casing (feet)	Date Of Monitoring	Depth to Free Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Estimated Product Removed (gallons)	Product Removal Method ²
MW-3 (Cont'd)	14.22	12/18/2002	7.35	8.43	1.08	25 ⁶	active skimmer
		12/30/2002	6.50	7.15	0.65	25 ⁶	active skimmer
		1/2/2003	6.20	6.20	sheen	--	active skimmer
		1/3/2003	6.21	6.21	sheen	--	active skimmer
		1/14/2003	6.20	6.21	0.01	--	active skimmer
		1/30/2003	6.81	6.85	0.04	--	active skimmer
		2/18/2002	7.09	7.15	0.06	--	active skimmer
		2/26/2003	7.04	7.11	0.07	--	active skimmer
		3/13/2003	7.22	8.11	0.89	--	active skimmer
		3/17/2003	7.15	7.50	0.35	5 ⁶	active skimmer
		4/16/2003	7.27	8.25	0.98	--	active skimmer
		6/18/2003	7.78	9.00	1.22	--	7
		9/3/2003	8.31	9.96	1.65	--	7
		11/26/2003	10.79	12.85	2.06	--	7
		3/5/2004	8.39	9.85	1.46	--	7
		6/2/2004	10.03	11.35	1.32	--	7
		9/3/2004	10.46	12.06	1.59	--	7
		12/16/2004	9.41	10.38	0.97	--	7
		3/29/2005	8.17	9.01	0.84	--	7
	6/14/2005	9.59	10.55	0.96	--	7	
8/10/2005	9.91	11.15	1.24	--	7		
9/29/2005	10.21	11.61	1.40	--	7		
MW-6	14.00	13/31/97	-	-	-	0.0014	passive skimmer
		1/29/1998	-	-	-	0.0014	passive skimmer
		3/2/1998	-	-	-	0.0014	passive skimmer
		11/6/1998	NM	9.62	>0.01	0.0	passive skimmer
		3/19/1999	NM	7.37	>0.01	0.0	passive skimmer
MW-8 ¹	12.94	12/31/1997	8.49	8.82	0.33	4.38	-
		11/6/1998	9.25	10.3	1.1	3.48	-

Table 2
Summary of Product Removal and Product Thickness
Port of Oakland, 2277 7th Street, Oakland, California

Well ID	Elevation of Top of Casing (feet)	Date Of Monitoring	Depth to Free Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Estimated Product Removed (gallons)	Product Removal Method ²
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- Data prior to November 6, 1998 taken from *Groundwater Monitoring, Sampling and Product Removal System O&M Report* dated July 21, 1998, by Innovative Technical Solutions, Inc.
- Data prior to November 6, 1998 taken from *Groundwater Monitoring, Sampling and Product Removal System O&M Report* dated July 21, 1998, by Innovative Technical Solutions, Inc.
- Product removal volumes from 11/6/98 on represent total product removed during that reporting period.
- ¹ Free product in well is too viscous to allow product thickness or groundwater level measurements.
- ² Product removal totals for MW-3 are estimated from documentation of product removal from the treatment system performed by Performance Excavators, Inc.
- ³ The passive skimmer was removed from MW-1 on 5/22/00.
- ⁴ The passive skimmer replaced MW-1 on 9/6/00.
- ⁵ Removal total is the volume of both product and wastewater removed from the treatment system by Foss Environmental Services Company, Inc.
- ⁶ Product removed is based on volume measured in the 1,000-gallon holding poly-tank.
- ⁷ The active skimmer was removed from MW-3 on 04/16/2003
- ⁸ Passive skimmer was removed from MW-1
- ⁹ Elevation data relative to Port of Oakland datum; well surveys performed on November 26, 2003, by PLS Survey.

NM - Well checked for free product but not able to detect a measurable amount in the well.

Shaded area indicates data from this reporting period.

NA - Not Available

Table 3
Groundwater Sample Results
Port of Oakland, 2277 7th Street, Oakland California

Monitoring Well ID	Date	TPHg (µg/l)	TPHd (µg/l)	TPHmo (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (µg/l)
MW-1	05/22/00	3,600	41,000	<3,000	100	13 ⁸	2.9	2.05	3.2 ⁸
MW-2	05/27/94	87	470	NA	<0.5	<0.5	<0.5	<0.5	NA
	03/29/95	<50	110	1,400	<0.4	<0.3	<0.3	<0.4	NA
	09/06/95	<50	NA	NA	<0.4	<0.3	<0.3	<0.4	NA
	01/08/96	<50	<50	1200	<0.4	<0.3	<0.3	<0.4	NA
	04/04/96	<50	160	320	<0.5	<0.5	<0.5	<1.0	NA
	07/10/96	<50	120	1400	<0.4	<0.3	<0.3	<0.4	NA
	12/03/96	<50	230 ^{1,2}	<250	<0.5	<0.5	<0.5	<1.0	NA
	03/28/97	<50	714	<250	<0.5	<0.5	<0.5	<1.0	NA
	06/13/97	51	<50	<250	<0.5	<0.5	<0.5	<1.0	NA
	09/18/97	82	<50	<250	0.56	<0.5	<0.5	<1.0	NA
	12/31/97	<50	<47	<280	1.4	<0.5	<0.5	<1.0	NA
	04/13/98	<50	<50	<300	<0.5	<0.5	<0.5	<1.0	NA
	11/06/98	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2
	03/19/99	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2
	06/24/99	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2
	09/28/99	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2
	11/12/99	<50	120 ^{2,6}	<300	<0.5	<0.5	<0.5	<0.5	6.3 ^{8,9}
	02/11/00	<50	<50	<300	5.4	<0.5	<0.5	<0.5	<2
	05/22/00	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2
	09/06/00	<50	<50	<300	0.76 ⁸	<0.5	<0.5	<0.5	<0.5 ¹⁰
	12/19/00	200 ^{3,11}	<50	<300	39	1.8	<0.5	2.6	<0.5 ^{10,12}
	02/21/01	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2.0
	07/10/01	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2.0
	12/05/01	<50	<50	<300	4.4	<0.5	<0.5	<0.5	5.0 ¹⁴
	03/08/02	<50	<50	<500	<0.5	<0.5	<0.5	<0.5	<5.0
	06/13/02	62 ¹⁵	<57	<570	<0.5	<0.5	<0.5	<0.5	<5.0
	09/26/02	69 ²	<50	<500	1.8	<0.5	<0.5	<0.5	<5.0
12/12/02	<50	<50	<300	0.98	<0.5	<0.5	<0.5	<2.0	
03/17/03	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2.0	
06/18/03	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2.0	
09/03/03	<50	<50	<300	3.2	<0.5	<0.5	<0.5	<2.0	
11/26/03	<50	<50	<300	3.0	<0.5	<0.5	<0.5	<2.0	
03/05/04	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2.0	
06/02/04	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2.0	
09/03/04	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2.0	
12/16/04	<50	96 ^{6,15}	<300	<0.5	<0.5	<0.5	<0.5	<2.0	
03/29/05	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2.0	
08/10/05	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
09/29/05	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	

Table 3
Groundwater Sample Results
Port of Oakland, 2277 7th Street, Oakland California

Monitoring Well ID	Date	TPHg (µg/l)	TPHd (µg/l)	TPHmo (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (µg/l)
MW-4	09/11/95	150	<200	500	23	<0.3	<0.3	<0.4	NA
	01/08/96	790	90	400	170	1.2	0.6	0.6	NA
	04/04/96	1,100	180	300	320	1.6	1.1	1.2	NA
	07/10/96	1,200	120	300	470	1.5	0.8	0.8	NA
	12/03/96	990	220 ^{1,2}	<250	350	3.3	1.3	1.3	NA
	03/28/97	440 ²	<50	<250	190	1.2	0.64	<1.0	NA
	06/13/97	1,300	92 ⁵	<250	500	5.5	3.4	2.8	NA
	09/18/97	1,300	150	<250	550	4.9	2.1	2.00	NA
	12/31/97	73 ^{1,2,3}	<47	<280	110 ¹	1.0 ¹	<0.5	<1.0	NA
	04/13/98	150 ^{2,3}	<50	<300	520	2.9	<2.5	<5.0	NA
	11/06/98	<50	<50	<300	250	1.7	<1	<1	<4
	03/19/99	81	<50	<300	250	<1	1.2	<1	<4
Dup.	06/24/99	190	<50	<300	360	1.4	2.2	1	24
	09/28/99	750 ^{3,5}	63 ^{3,5}	<300	280	1.5	<1	<1	<4
	11/12/99	330 ³	840 ²	<300	740	<2.5	<2.5	<2.5	42 ⁹
	02/11/00	200 ²	<50	<300	58	0.73	<0.5	<0.5	4.4 ⁸
	05/22/00	240	<50	<300	500	<2.5	<2.5	<2.5	17
	09/06/00	530 ^{2,3}	<50	<300	190	0.93	0.6	0.57	<0.5 ¹⁰
	12/19/00	960 ^{3,11}	70 ⁵	<300	420	<2.5	<2.5	<2.5	<0.5 ^{10,12}
	12/19/00	1,200 ^{3,11}	<50	<300	440	<2.5	<2.5	<2.5	<0.5 ^{10,12}
	02/21/01	450 ¹³	<50	<300	120	<0.5	<0.5	<0.5	<0.5 ¹⁰
	07/10/01	<250	110 ^{2,13}	<300	620	2.6	2.9	<2.5	<0.5 ^{8,10}
	12/05/01	180	<50	<300	61	<0.5	<0.5	<0.5	3.8 ¹⁴
	03/08/02	490 ²	54 ²	<500	180	<2.5	<2.5	<2.5	<25
	06/13/02	830 ²	<50	<500	250	<5.0	<5.0	<5.0	<50
Dup.	06/13/02	820 ²	<56	<560	240	<5.0	<5.0	<5.0	<50
	09/26/02	390 ²	57	<500	150	2.1	<1.0	<1.0	<10
Dup.	09/26/02	500 ²	<50 ¹⁶	<500 ¹⁶	200	1.5	<1.0	<1.0	<10
	12/12/02	580	<50	<300	240	1.4	0.56	<0.5	<2.0
Dup.	12/12/02	2,400	<50	<300	680	5.0	2.3	1.4	<2.0
	03/17/03	130 ¹⁵	<50	<300	320 ¹⁷	<0.5	<0.5	<0.5	<0.5 ¹⁰
Dup.	03/17/03	82 ¹⁵	<50	<300	190	0.64 ¹⁷	0.56	0.53	<0.5 ¹⁰
	06/18/03	360 ^{11, 15}	<50	<300	150	<0.5	<0.5	<0.5	<2.0
Dup.	06/18/03	330 ^{11, 15}	<50	<300	140	<0.5	<0.5	<0.5	<2.0
	09/03/03	140 ^{11, 15}	<50	<300	240	1.3	<0.5	<0.5	<2.0
Dup.	09/03/03	83 ^{11, 15}	<50	<300	130	0.58 ¹⁷	<0.5	<0.5	<2.0
	11/26/03	160 ¹⁵	68 ¹⁵	<300	320	0.91 ¹⁷	<0.5	0.53	<2.0
Dup.	11/26/03	120 ¹⁵	<50	<300	210	0.66 ¹⁷	<0.5	<0.5	<2.0
	03/05/04	90 ¹¹	<50	<300	190	1.1	0.55	0.50 ¹⁷	23 ^{14, 17} , <0.5 ¹⁰
Dup.	03/05/04	84 ¹¹	<50	<300	180	0.81	<0.5	<0.5	21 ^{14, 17} , <0.5 ¹⁰
	06/02/04	620 ¹³	<50	<300	210	0.55 ¹⁷	<0.5	<0.5	<2.0
Dup.	06/02/04	400 ¹³	<50	<300	130	<0.5	<0.5	<0.5	<2.0
	09/03/04	780 ^{13, 15}	<50	<300	<0.5	1.0 ¹⁷	<0.5	0.57	<2.0
Dup.	09/03/04	370 ^{13, 15}	<50	<300	<0.5	<0.5	<0.5	<0.5	<2.0

Table 3
Groundwater Sample Results
Port of Oakland, 2277 7th Street, Oakland California

Monitoring Well ID	Date	TPHg (µg/l)	TPHd (µg/l)	TPHmo (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (µg/l)
MW-4	12/16/04	840	<50	<300	290	1.3 ¹⁷	0.69	0.75	<2.0
Dup.	12/16/04	670	<50	<300	230	1.3 ¹⁷	<0.5	<0.5	<2.0
	03/29/05	440 ¹³	<50	<300	140	0.57	<0.5	<0.5	<2.0
Dup.	03/29/05	540 ¹³	<50	<300	170	0.72	<0.5	<0.5	<2.0
	08/10/05	500 ¹⁸	<50	<250	180	<2.5	<2.5	<2.5	<2.5
	09/29/05	360 ¹⁸	59 ²⁰	<250	160	<5.0	<5.0	<5.0	<5.0
Dup.	09/29/05	420 ¹⁸	<50	<250	150	<5.0	<5.0	<5.0	<5.0
MW-5	09/11/95	90	<300	2,500	3.3	<0.3	<0.3	<0.4	NA
	04/04/96	<50	180	520	<0.5	<0.5	<0.5	<1.0	NA
	07/10/96	<50	120	1,500	<0.4	<0.3	<0.3	<0.4	NA
	12/03/96	<50	200 ^{1,2}	<250	<0.5	<0.5	<0.5	<1.0	NA
	03/28/97	<50	<50	<250	<0.5	<0.5	<0.5	<1.0	NA
	06/13/97	<50	<50	<250	<0.5	<0.5	<0.5	<1.0	NA
	09/18/97	<50	<50	<250	<0.5	<0.5	<0.5	<1.0	NA
	12/31/97	<50	<47	<280	<0.5	<0.5	<0.5	<1.0	NA
	04/13/98	<50	<47	<280	<0.5	<0.5	<0.5	<1.0	NA
	11/06/98	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2
	03/19/99	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2
	06/24/99	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	3.1
	09/28/99	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2
	11/12/99	<50	110 ^{2,6}	<300	<0.5	<0.5	<0.5	<0.5	5.5 ⁹
	02/11/00	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2
	05/22/00	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2
	09/06/00	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2
	12/19/00	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2
	02/21/01	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2
	07/10/01	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2
	12/05/01	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2
	03/08/02	<50	<50	<500	<0.5	<0.5	<0.5	<0.5	<5.0
	06/13/02	<50	<50	<500	<0.5	<0.5	<0.5	<0.5	<5.0
	09/26/02	<50	<50	<500	<0.5	<0.5	<0.5	<0.5	<5.0
	12/12/02	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2.0
	03/17/03	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5 ¹⁰
	06/18/03	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2.0
	09/03/03	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2.0
	11/26/03	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	4.1 ¹⁴ , <0.5 ¹⁰
	03/05/04	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2.0
	06/02/04	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2.0
	09/03/04	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2.0
	12/16/04	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	2.2 ¹⁴ , <0.5 ¹⁰
	03/29/05	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2.0
	08/10/05	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5
MW-5D	08/10/05	<50 ¹⁹	<50 ¹⁹	<250	<0.5	<0.5	<0.5	<0.5	<0.5
	09/29/05	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5

Table 3
Groundwater Sample Results
Port of Oakland, 2277 7th Street, Oakland California

Monitoring Well ID	Date	TPHg (µg/l)	TPHd (µg/l)	TPHmo (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (µg/l)	
MW-6	11/06/98	120	12,000	1,200	19	0.65	1.8	<0.5	<2	
	03/19/99	170	3,800	580	21	0.86	1.5	2.9	<2	
	06/24/99	120	1,700 ⁷	<300 ⁷	18	<0.5	1.0	<0.5	54	
	09/28/99	130 ^{3,5}	820	<300	20	0.51	2.2	<0.5	<2	
	11/12/99	150	11,000 ^{2,6}	3,000 ^{3,6}	27	<0.5	2.2	<0.5	13 ⁹	
	02/11/00	270 ²	2,300	<300	23	0.51	2.7	<0.5	5.8	
	05/22/00	350	3,000	<300	18	0.51	<0.5	<0.5	7.7	
	09/06/00	190	610	<300	26	<0.5	1.7	<0.5	<0.5 ¹⁰	
	12/19/00	130 ^{3,11}	620	<300	24	<0.5	1.6	<0.5	<2	
	02/21/01	120 ¹³	440	<300	21	<0.5	0.96	<0.5	<2	
	07/10/01	120	560	<300	29	<0.5	0.99	<0.5	<2	
	12/12/01	53	550	<300	27	<0.5	1.3	<0.5	<2.0	
	03/08/02	160 ²	640 ²	<500	30	<0.5	<0.5	<0.5	5.0 ¹⁴	
	06/13/02	160 ²	670 ²	<500	34	<0.5	<0.5	<0.5	<5.0	
	09/26/02	230 ²	1400 ²	<500	40	0.64	0.8	<0.5	<5.0	
12/12/02	53	110	<300	43	<0.5	<0.5	<0.5	<2.0		
12/18/02	Monitoring well was destroyed									
MW-7	09/06/95	<50	<300	800	<0.4	<0.3	<0.3	<0.4	NA	
	01/08/96	<50	410	110	<0.4	<0.3	<0.3	<0.4	NA	
	04/04/96	<50	530	340	<0.5	<0.5	<0.5	<1.0	NA	
	07/10/96	80	840	1,700	<0.4	<0.3	<0.3	<0.4	NA	
	12/03/96	<50	280 ^{1,2}	<250	<0.5	<0.5	<0.5	<1.0	NA	
	03/28/97	65 ⁶	94 ²	<250	<0.5	<0.5	<0.5	<1.0	NA	
	06/13/97	<50	100	<250	<0.5	<0.5	<0.5	<1.0	NA	
	09/18/97	<50	240	<250	<0.5	<0.5	<0.5	<1.0	NA	
	12/31/97	<50	53 ^{2,3}	<280	<0.5	<0.5	<0.5	<1.0	NA	
	04/13/98	<50	<48	<290	<0.5	<0.5	<0.5	<1.0	NA	
	11/06/98	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2	
	03/19/99	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	5.3	
	06/24/99	73	<50	<300	<0.5	<0.5	<0.5	<0.5	12	
	09/28/99	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	14	
	11/12/99	<50	600 ^{2,6}	420 ³	<0.5	<0.5	<0.5	<0.5	15 ⁹	
	02/11/00	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	51	
	05/22/00	110	53 ²	<300	<0.5	<0.5	<0.5	<0.5	75	
	09/06/00	50 ⁶	<50	<300	<0.5	<0.5	<0.5	<0.5	40 ¹⁰	
	12/19/00	54 ¹¹	51 ⁵	<300	<0.5	<0.5	<0.5	<0.5	47 ^{10,12}	
	02/21/01	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	66 ¹⁰	
	Dup.	02/21/01	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	60 ¹⁰
		07/10/01	<50	51 ²	<300	<0.5	<0.5	<0.5	<0.5	76 ¹⁰
	Dup.	07/10/01	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	75 ¹⁰
	12/12/01	51	<50	<300	<0.5	<0.5	<0.5	<0.5	98 ¹⁴	
Dup.	12/12/01	64	52 ^{13,15}	<300	<0.5	<0.5	<0.5	<0.5	96 ¹⁴	
	03/08/02	52 ²	<50	<500	<0.5	<0.5	<0.5	<0.5	24 ¹⁴	
	06/13/02	87 ²	54 ²	<500	<0.5	<0.5	<0.5	<0.5	51	
	09/26/02	83 ²	84 ²	<500	<0.5	<0.5	<0.5	<0.5	75 ¹⁰	
	12/12/02	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	58 ¹⁴	
	12/18/02	Monitoring well was destroyed								

Table 3
Groundwater Sample Results
Port of Oakland, 2277 7th Street, Oakland California

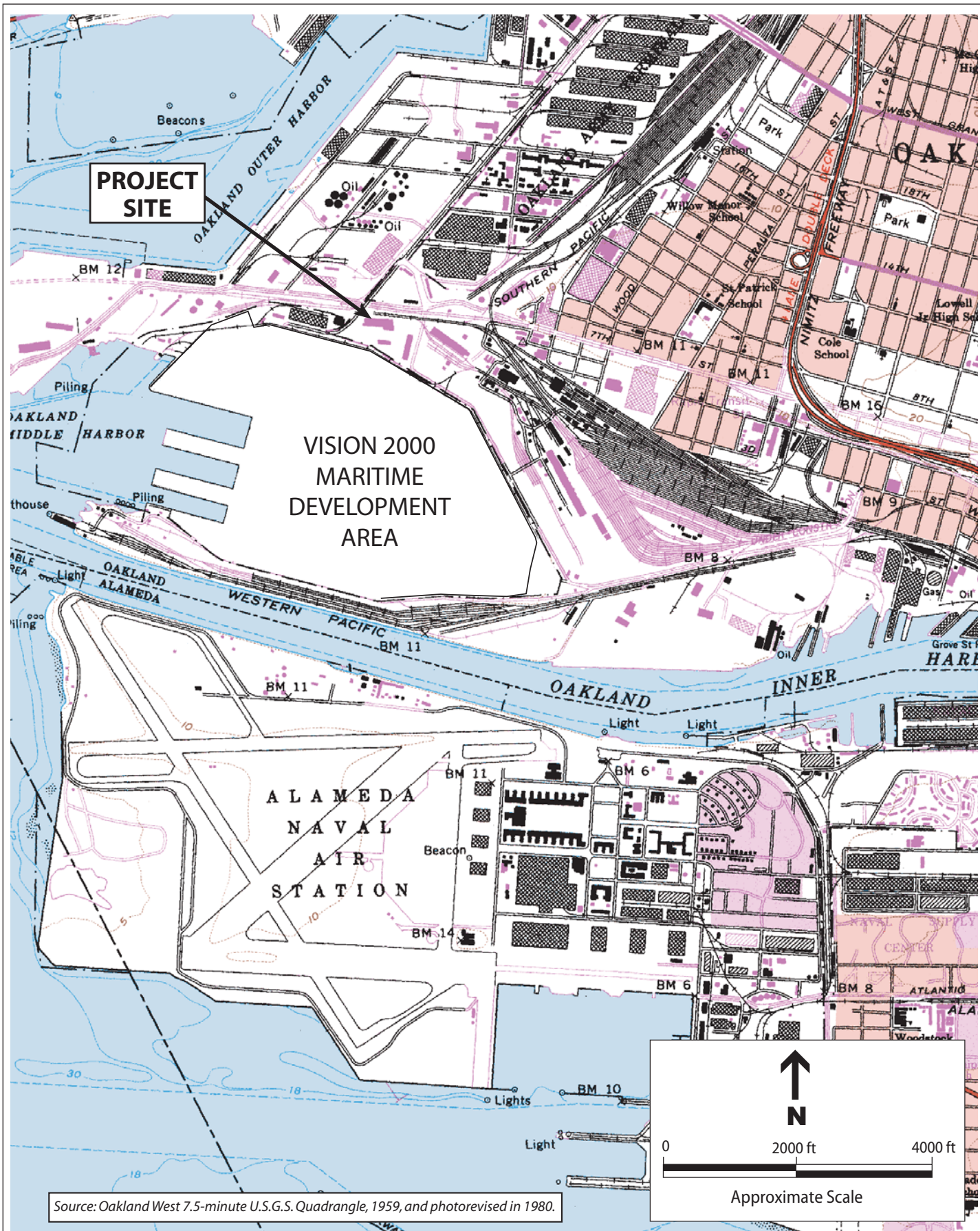
Monitoring Well ID	Date	TPHg (µg/l)	TPHd (µg/l)	TPHmo (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (µg/l)
MW-8A	12/12/01	68	720 ^{11,15}	<300	<0.5	<0.5	<0.5	<0.5	<2.0
	03/08/02	<50	760 ²	<570	<0.5	<0.5	<0.5	<0.5	<5.0
Dup.	03/08/02	<50	350 ²	<580	<0.5	<0.5	<0.5	<0.5	<5.0
	06/13/02	<50	570 ²	<570	<0.5	<0.5	<0.5	<0.5	<5.0
	09/26/02	<50	410 ²	<500	<0.5	<0.5	<0.5	<0.5	<5.0
	12/12/02	<50	160 ¹⁵	<300	<0.5	<0.5	<0.5	<0.5	<2.0
	03/17/03	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5 ¹⁰
	06/18/03	<50	74 ¹⁵	<300	<0.5	<0.5	<0.5	<0.5	<2.0
	09/03/03	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	3.0 ¹⁴ , <0.5 ¹⁰
	11/26/03	<50	94 ¹⁵	<300	<0.5	<0.5	<0.5	<0.5	<2.0
	03/05/04	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2.0
	06/02/04	<50	67 ¹⁵	<300	<0.5	<0.5	<0.5	<0.5	<2.0
	09/03/04	<50	86 ¹⁵	<300	<0.5	<0.5	<0.5	<0.5	<2.0
	12/16/04	<50	160 ^{6,15}	<300	<0.5	<0.5	<0.5	<0.5	<2.0
	03/29/05	<50	53	<300	<0.5	<0.5	<0.5	<0.5	<2.0
	08/10/05	<50 ¹⁹	150 ^{15,19}	<250	<0.5	<0.5	<0.5	<0.5	<0.5
	09/29/05	<50	66 ²¹	<250	<0.5	<0.5	<0.5	<0.5	<0.5

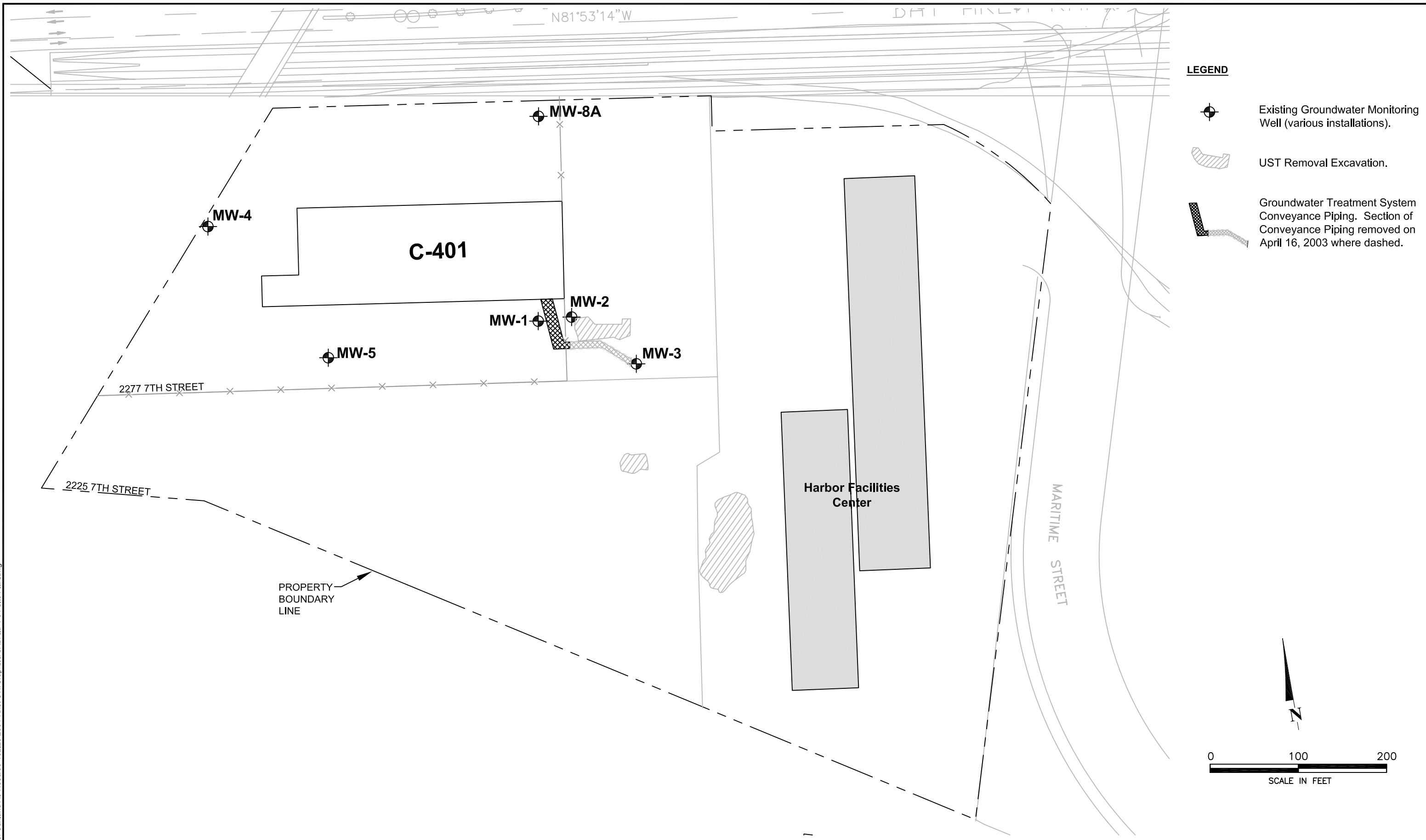
- 1 Analyte found in the associated blank as well as in the sample.
- 2 Hydrocarbons present do not match profile of laboratory standard.
- 3 Low-boiling-point/lighter hydrocarbons are present in the sample.
- 4 Chromatographic pattern matches known laboratory contaminant.
- 5 Hydrocarbons are present in the requested fuel quantification range, but do not resemble pattern of available fuel standard.
- 6 High-boiling-point/heavier hydrocarbons are present in sample.
- 7 Sample did not pass laboratory QA/QC and may be biased low
- 8 Presence of this compound confirmed by second column, however, the confirmation concentration differed from the reported result by more than a factor or two.
- 9 Trip blank contained MTBE at a concentration of 4.2µg/l
- 10 MTBE detections confirmed by EPA Test Method 8260. 8260 results displayed.
- 11 Sample exhibits unknown single peak or peaks
- 12 EPA Method 8260 confirmation analyzed past holding time.
- 13 Lighter hydrocarbons contributed to the quantitation
- 14 MTBE results from EPA Test Method 8021B.
- 15 Sample exhibits fuel pattern which does not resemble standard
- 16 Sample extracted out of hold time
 - Data from December 1997 through April 1998 taken from *Groundwater Monitoring, Sampling and Product Removal System O&M Report* dated July 21, 1998, by Innovative Technical Solutions, Inc.
 -Data prior to December 1997 taken from *Groundwater Analytical Results, Quarterly Groundwater Monitoring Report: Third Quarter 1997, Building C-401, 2277 7th Street, Oakland, CA, dated October 24, 1997, by Uribe and Associate*
- 17 Presence confirmed, but Relative Percent Difference (RPD) between columns exceeds 40%
 NA Not Analyzed.
- 18 Unmodified or weakly modified gasoline is significant
- 19 Liquid Sample contains greater than ~1 vol.% sediment
- 20 Gasoline compounds are significant
- 21 Diesel range compounds are significant; no recognizable pattern

Table 4
Summary of Operation and Maintenance Activities
Port of Oakland, 2277 7th Street, Oakland, California

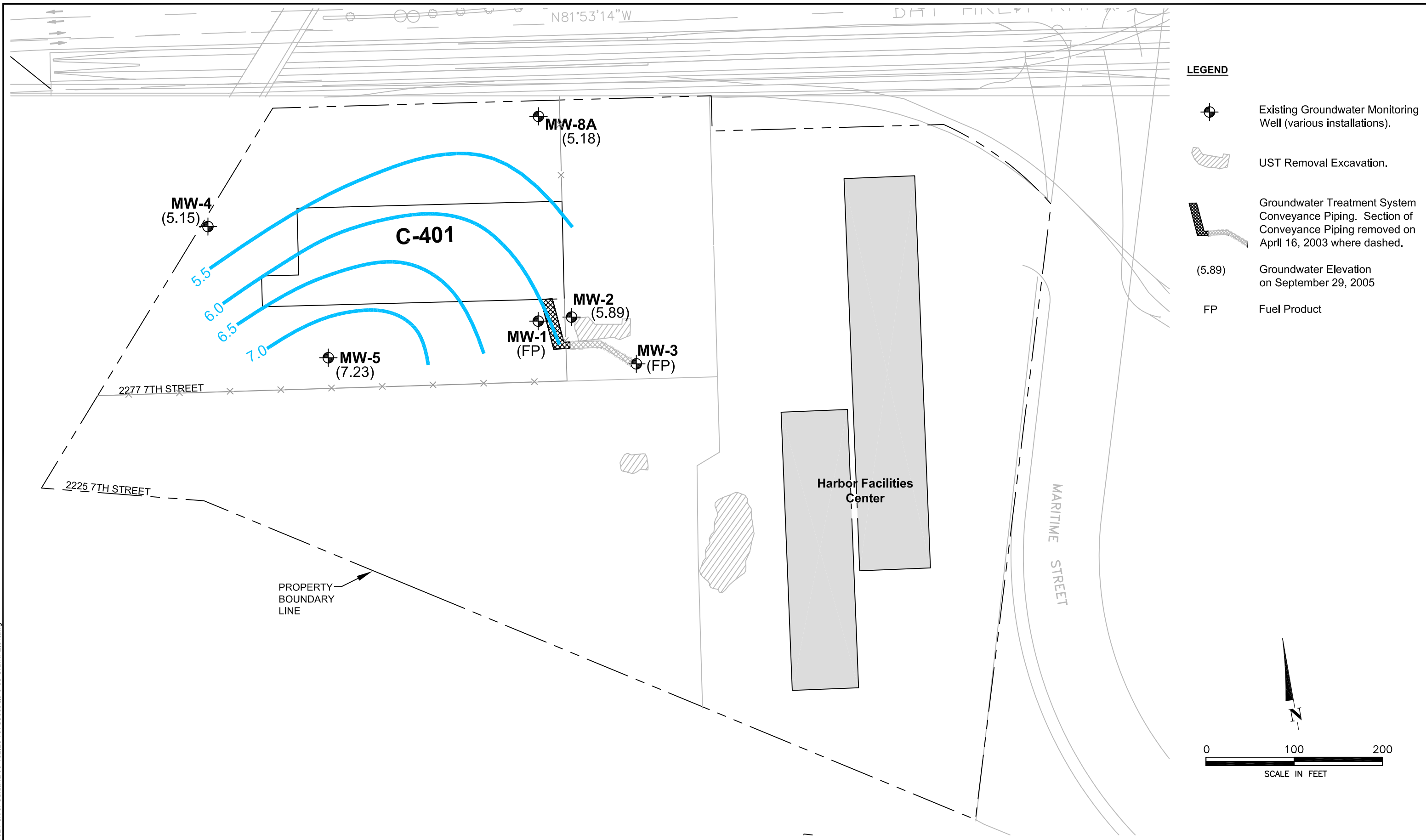
Date	System Status	Comments
7/5/2002	Off	System is turned off and is in the process of being moved to new location
7/19/2002	Off	System is moved to new location but is not hooked up to electricity
7/30/2002	Off	System is moved to new location but is not hooked up to electricity
8/14/2002	Off	System is moved to new location but is not hooked up to electricity
9/13/2002	On	System is powered and operating
9/26/2002	On	System operating OK.
10/14/2002	On	System operating OK.
11/4/2002	On	System operating OK.
11/21/2002	On	System operating OK.
12/6/2002	On	System operating OK.
12/18/2002	On	System operating OK.
12/23/2002	On	System operating OK.
12/27/2002	On	System operating OK.
12/30/2002	On	System operating OK.
1/2/2003	Off	System is turned off because no free product was detected in well MW-
1/3/2003	Off	System is turned off because no free product was detected in well MW-
1/14/2003	Off	System is turned off because only product sheen was detected in well MW-
1/30/2003	Off	System is turned off because only product sheen was detected in well MW-
2/18/2003	Off	System is turned off because only product sheen was detected in well MW-
2/26/2003	Off	System is turned off because only product sheen was detected in well MW-
3/13/2003	Off	System is kept off because of the expected rainfall during weeken
3/17/2003	On	System is tested to verify that only product is being recovered from well MW-
4/16/2003	Off	Product recovery line was removed due to Port's construction upgrades at the sit
6/18/2003	Off	Product recovery line was removed on 04/16/200:
9/3/2003	Off	Product recovery line was removed on 04/16/200:
11/26/2003	Off	Product recovery line was removed on 04/16/200:
3/5/2004	Off	Product recovery line was removed on 04/16/200:
6/2/2004	Off	Product recovery line was removed on 04/16/200:
9/3/2004	Off	Product recovery line was removed on 04/16/200:
12/16/2004	Off	Product recovery line was removed on 04/16/200:
3/29/2005	Off	Product recovery line was removed on 04/16/200:
6/14/2005	Removed	Replaced by a new system fully operational at the sit

FIGURES





Projects/00-152 Port of Oakland As-Needed/00-152.28 2004 7/mst.GW/Graphics/CAD/04r 4-04 Site Plan.dwg



CAD GIS Station/00-152 Port of Oakland/00-152.28 7th Street/03-05 Gridwtr Elev.dwg



TPHg	360*
TPHd	59+
TPHmo	ND<250
B	160
T	ND<5.0
E	ND<5.0
X	ND<5.0
MTBE	ND<5.0

MW-4

TPHg	ND<50
TPHd	66#
TPHmo	ND<250
B	ND<0.5
T	ND<0.5
E	ND<0.5
X	ND<0.5
MTBE	ND<0.5

MW-8A

TPHg	ND<50
TPHd	ND<50
TPHmo	ND<250
B	ND<0.5
T	ND<0.5
E	ND<0.5
X	ND<0.5
MTBE	ND<0.5

MW-1
FP

MW-2

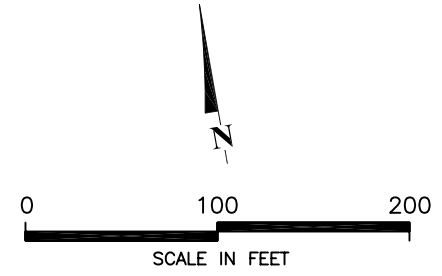
MW-3
FP

MW-5

TPHg	ND<50
TPHd	ND<50
TPHmo	ND<250
B	ND<0.5
T	ND<0.5
E	ND<0.5
X	ND<0.5
MTBE	ND<0.5

PROPERTY
BOUNDARY
LINE

- LEGEND**
- Existing Groundwater Monitoring Well (various installations).
 - UST Removal Excavation.
 - Groundwater Treatment System Conveyance Piping. Section of Conveyance Piping removed on April 16, 2003 where dashed.
 - FP Presence of Free Product in Well.
 - TPHg Total Petroleum Hydrocarbon as gasoline.
 - TPHd Total Petroleum Hydrocarbon as Diesel.
 - TPHmo Total Petroleum Hydrocarbon as Motor Oil.
 - B Benzene
 - T Toluene
 - E Ethylbenzene
 - X Total Xylenes
 - MTBE Methyl t-butyl ether
 - ND Not Detected
 - * Unmodified or weakly modified gasoline is significant
 - + Gasoline range compounds are significant
 - # Diesel range compounds are significant; no recognizable pattern
- All results are in micrograms per liter.



Projects\00-152 Port of Oakland\00-152.28 7th Street\Graphics\CAD\Ctr 3-05 Grdwtr Samples.dwg



Third Quarter 2005, Quarterly Groundwater Monitoring and Product Recovery
2277 Seventh Street
Oakland, California

Figure 4
Groundwater Sample Results
September 29, 2005

APPENDIX A

MONITORING WELL WATER LEVEL MEASUREMENT FORM
AND
MONITORING WELL PURGING AND SAMPLING FORM

MONITORING WELL WATER LEVEL MEASUREMENT FORM

PROJECT NAME: 2277 7th Street PROJECT NO.: 00-152.28
 MEASURED BY: Rogelio Leong DATE: 09/29/2005

Monitoring Well I.D.	Depth to Water (feet)	Total Well Depth (feet)	Time
MW-2	11.32	17.45	11:24
MW-4	8.0	18.70	10:00
MW-5	6.26	16.50	10:35
MW-6	Well was destroyed on December 18, 2002		
MW-7	Well was destroyed on December 18, 2002		
MW-8A	8.0 7.76	20.40	9:25
Monitoring Well I.D.	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)
MW-1	8.28	8.95	0.67
MW-3	10.21	11.61	1.40

MONITORING WELL PURGING AND SAMPLING FORM

PROJECT NAME: PORTOF OAKLAND - 2277 7th STREET PROJECT NO.: 00-152.28
 WELL NO.: NW-2 TESTED BY: RLEONG DATE: 09/29/2005

WELL PURGING

Measuring Point Description: Top of Casing (TOC) Static Water Level (ft.): 11.32
 Total Well Depth (ft.): 17.45 Purge Method: Disposable Bailer
 Water Level Measurement Method: Solinst W. L. Purge Rate (gpm): ~0.5
 Time Start Purge: 11:25 Time End Purge: 11:31
 Comments: _____

Well Volume Calculation (fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Casing Volume (gal)
							2	4	6		
	17.45		11.32		6.13		0.16	0.64	1.44		~1.0

Time	11:26	11:27	11:28	11:29	11:30	11:31	
Cumulative Volume Purged (gals)	0.5	1	1.5	2	2.5	3.0	
Cumulative Number of Casing Volumes	0.5	1	1.5	2	2.5	3	
Temperature (F°/C°)	20.8	20.8	20.6	20.7	20.8	20.7	
pH	7.32	7.30	7.31	7.27	7.26	7.22	
Specific Conductivity (mS/cm)	1.88	1.90	1.90	1.90	1.90	1.90	
Turbidity (NTU)	3	6	9	6	4	3	

WELL SAMPLING

Sampling Time: 11:40 Sampling Method: Disposable Bailer
 Duplicate Sample & Time: NONE

Sample ID	Volume/ Container	Analysis Requested	Preservatives	Lab
NW-2	1/2 (1 L Amber)	TPHd, TPHmo	none HCL	C&I MAI
NW-2	4 5 voas	TPHg, MTBE, BTEX	HCL	C&I MAI

MONITORING WELL PURGING AND SAMPLING FORM

PROJECT NAME: PORT OF OAKLAND - 2277 7th STREET PROJECT NO.: 00-152.28
 WELL NO.: NW-4 TESTED BY: R. LEANEY DATE: 09/29/2005

WELL PURGING

Measuring Point Description: Top of Casing (TOC) Static Water Level (ft.): 8.0
 Total Well Depth (ft.): 18.70 Purge Method: Disposable Bailer
 Water Level Measurement Method: Solinst W. L. Purge Rate (gpm): ~0.425
 Time Start Purge: 10:03 Time End Purge: 10:15
 Comments : _____

Well Volume Calculation (fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Casing Volume (gal)
	18.70	-	8.0	=	10.70	x	2	4	6	=	1.7
							0.16	0.64	1.44		

Time	10:05	10:07	10:09	10:11	10:13	10:15	
Cumulative Volume Purged (gals)	0.85	1.7	2.55	3.40	4.25	5.10	
Cumulative Number of Casing Volumes	0.5	1.0	1.5	2.0	2.5	3.0	
Temperature (F°/C°)	22.3	22.4	22.5				
pH	7.13	7.09	7.05	7.04	7.03	7.03	
Specific Conductivity (mS/cm)	1.53	1.53	1.53	1.54	1.54	1.56	
Turbidity (NTU)	113	100	92	146	150	152	

WELL SAMPLING

Sampling Time: 10:20 Sampling Method: Disposable Bailer
 Duplicate Sample & Time: NW-4D @ 10:30

Sample ID	Volume/ Container	Analysis Requested	Preservatives	Lab	
<u>NW-4 & NW-4D</u>	<u>2 (1 L Amber)</u>	<u>TPHd, TPHmo</u>	<u>None</u>	<u>C&T</u>	<u>MAI</u>
<u>NW-4 & NW-4D</u>	<u>8 5voas</u>	<u>TPHg, MTBE, BTEX</u>	<u>HCL/ice</u>	<u>C&T</u>	<u>MAI</u>

MONITORING WELL PURGING AND SAMPLING FORM

PROJECT NAME: PORTOF OAKLAND -- 2277 7th STREET PROJECT NO.: 00-152.28
 WELL NO.: MW-5 TESTED BY: RLEONG DATE: 09/29/2005

WELL PURGING

Measuring Point Description: Top of Casing (TOC) Static Water Level (ft.): 6.26
 Total Well Depth (ft.): 16.50 Purge Method: Disposable Bailer
 Water Level Measurement Method: Solinst W. L. Purge Rate (gpm): ~0.40
 Time Start Purge: 10:40 Time End Purge: 10:52
 Comments: _____

Well Volume Calculation (fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Casing Volume (gal)
							2	4	6		
	16.50		6.26		10.24		0.16	0.64	1.44		1.6

Time	10:42	10:44	10:46	10:48	10:50	10:52	
Cumulative Volume Purged (gals)	0.80	1.6	2.4	3.0	3.8	4.6 4.6	
Cumulative Number of Casing Volumes	0.5	1	1.5	2	2.5	3	
Temperature (F°/C°)	21.8	22.0	22.4	22.5	22.5	22.5	
pH	7.27	7.12	6.99	6.96	6.90	6.89	
Specific Conductivity (mS/cm)	1.99	2.01	2.03	2.04	2.06	2.06	
Turbidity (NTU)	264	207	169	237	387	419	

WELL SAMPLING

Sampling Time: 11:00 Sampling Method: Disposable Bailer
 Duplicate Sample & Time: NONE

Sample ID	Volume/ Container	Analysis Requested	Preservatives	Lab
MW-5	1.2 (1 L Amber)	TPHd, TPHmo	none HCL	E&T MAI
MW-5	4.8 voas	TPHg, MTBE, BTEX	HCL	E&T MAI

MONITORING WELL PURGING AND SAMPLING FORM

PROJECT NAME: PORT OF OAKLAND - 2277 7th STREET PROJECT NO.: 00-152.28
 WELL NO.: MW-8A TESTED BY: RLEONG DATE: 09/29/2005

WELL PURGING

Measuring Point Description: Top of Casing (TOC) Static Water Level (ft.): 7.76
 Total Well Depth (ft.): 20.40 Purge Method: Disposable Bailer
 Water Level Measurement Method: Solinst W. L. Purge Rate (gpm): 0.5gpm
 Time Start Purge: 9:32 Time End Purge: 9:44

Comments : _____

Well Volume Calculation (fill in before purging)	Total Depth (ft) <u>20.40</u>	-	Depth to Water (ft) <u>7.76</u>	=	Water Column (ft) <u>12.64</u>	x	Multiplier for Casing Diameter (in) <u>2</u> <u>0.16</u>	=	Casing Volume (gal) <u>2.0</u>
							4 0.64		
							6 1.44		

Time	<u>9:34</u>	<u>9:36</u>	<u>9:38</u>	<u>9:40</u>	<u>9:42</u>	<u>9:44</u>	
Cumulative Volume Purged (gals)	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	
Cumulative Number of Casing Volumes	<u>0.5</u>	<u>1</u>	<u>1.5</u>	<u>2.0</u>	<u>2.5</u>	<u>3.0</u>	
Temperature (F°/C°)	<u>21.3</u>	<u>21.2</u>	<u>21.1</u>	<u>21.1</u>	<u>21.0</u>	<u>21.0</u>	
pH	<u>6.51</u>	<u>6.77</u>	<u>6.98</u>	<u>7.10</u>	<u>7.15</u>	<u>7.18</u>	
Specific Conductivity (mS/cm)	<u>2.52</u>	<u>2.54</u>	<u>2.55</u>	<u>2.54</u>	<u>2.55</u>	<u>2.55</u>	
Turbidity (NTU)	<u>534</u>	<u>831</u>	<u>>999</u>	<u>>999</u>	<u>>999</u>	<u>>999</u>	

WELL SAMPLING

Sampling Time: 9:50 Sampling Method: Disposable Bailer
 Duplicate Sample & Time: None

Sample ID	Volume/ Container	Analysis Requested	Preservatives	Lab
<u>MW-8A</u>	<u>2 (1 L Amber)</u>	<u>TPHd, TPHmo</u>	<u>none HCl</u>	<u>C&T</u>
<u>MW-8A</u>	<u>5 voas</u>	<u>TPHg, MTBE, BTEX</u>	<u>HCL</u>	<u>C&T</u>

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APPENDIX B
LABORATORY REPORTS

RECEIVED

OCT 12 2005



McC Campbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mcccampbell.com E-mail: main@mcccampbell.com

ITSI 2730 Shadelands Drive Suite 100 Walnut Creek, CA 94598	Client Project ID: #00-152.28; Port of Oakland	Date Sampled: 09/29/05
		Date Received: 09/29/05
	Client Contact: Rachel Hess	Date Reported: 10/05/05
	Client P.O.:	Date Completed: 10/05/05

WorkOrder: 0509653

October 05, 2005

Dear Rachel:

Enclosed are:

- 1). the results of 6 analyzed samples from your **#00-152.28; Port of Oakland project**,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McC Campbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager



McC Campbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
 Website: www.mcccampbell.com E-mail: main@mcccampbell.com

ITSI 2730 Shadelands Drive Suite 100 Walnut Creek, CA 94598	Client Project ID: #00-152.28; Port of Oakland	Date Sampled: 09/29/05
	Client Contact Rachel Hess	Date Received: 09/29/05
	Client P.O.	Date Analyzed: 10/02/05-10/04/05
		Date Extracted: 09/29/05

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0509653

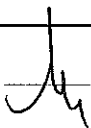
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0509653-002A	MW-2	W	ND	ND	1	115
0509653-003A	MW-4	W	59,d	ND	1	103
0509653-004A	MW-4D	W	ND	ND	1	107
0509653-005A	MW-5	W	ND	ND	1	107
0509653-006A	MW-8A	W	66,b	ND	1	93

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	NA	NA	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

#) cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; &) low or no surrogate due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel (asphalt); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

 Angela Rydelius, Lab Manager



McC Campbell Analytical, Inc.

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ITSI 2730 Shadelands Drive Suite 100 Walnut Creek, CA 94598	Client Project ID: #00-152.28; Port of Oakland	Date Sampled: 09/29/05
	Client Contact Rachel Hess	Date Received: 09/29/05
	Client P.O.	Date Extracted: 09/30/05-10/03/05
		Date Analyzed: 09/30/05-10/03/05

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0509653

Lab ID	0509653-001A	0509653-002B	0509653-003B	0509653-004B	Reporting Limit for DF =1	
Client ID	Trip Blank	MW-2	MW-4	MW-4D		
Matrix	W	W	W	W		
DF	1	1	10	10		

Compound	Concentration				ug/kg	µg/L
Benzene	ND	ND	160	150	NA	0.5
Ethylbenzene	ND	ND	ND<5.0	ND<5.0	NA	0.5
Methyl-t-butyl ether (MTBE)	ND	ND	ND<5.0	ND<5.0	NA	0.5
Toluene	ND	ND	ND<5.0	ND<5.0	NA	0.5
Xylenes	ND	ND	ND<5.0	ND<5.0	NA	0.5

Surrogate Recoveries (%)

%SS1:	106	104	103	96
%SS2:	99	99	98	96
%SS3:	107	107	94	95

Comments

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



McC Campbell Analytical, Inc.

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ITSI 2730 Shadelands Drive Suite 100 Walnut Creek, CA 94598	Client Project ID: #00-152.28; Port of Oakland	Date Sampled: 09/29/05
	Client Contact Rachel Hess	Date Received: 09/29/05
	Client P.O.	Date Extracted: 09/30/05-10/03/05
		Date Analyzed: 09/30/05-10/03/05

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0509653

Lab ID	0509653-005B	0509653-006B			Reporting Limit for DF =1
Client ID	MW-5	MW-8A			
Matrix	W	W			
DF	1	1			

Compound	Concentration				ug/kg	µg/L
Benzene	ND	ND			NA	0.5
Ethylbenzene	ND	ND			NA	0.5
Methyl-t-butyl ether (MTBE)	ND	ND			NA	0.5
Toluene	ND	ND			NA	0.5
Xylenes	ND	ND			NA	0.5

Surrogate Recoveries (%)

%SS1:	106	105		
%SS2:	99	97		
%SS3:	109	108		

Comments

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0509653

EPA Method: SW8015Cm		Extraction: SW5030B			BatchID: 18294			Spiked Sample ID: 0509641-031A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) [£]	ND	60	108	107	0.890	108	111	2.80	70 - 130	70 - 130
MTBE	ND	10	111	112	1.09	105	101	3.44	70 - 130	70 - 130
Benzene	ND	10	96	96.1	0.0776	108	112	3.43	70 - 130	70 - 130
Toluene	ND	10	94.9	98.5	3.68	102	105	2.53	70 - 130	70 - 130
Ethylbenzene	ND	10	96.7	98.5	1.82	107	110	2.54	70 - 130	70 - 130
Xylenes	ND	30	99.3	100	0.669	96.3	100	3.74	70 - 130	70 - 130
%SS:	97	10	96	95	1.01	107	110	2.90	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 18294 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509653-002A	9/29/05 11:40 AM	10/04/05	0/04/05 12:10 AM	0509653-003A	9/29/05 10:20 AM	10/04/05	10/04/05 1:49 AM
0509653-004A	9/29/05 10:30 AM	10/03/05	10/03/05 1:58 AM	0509653-005A	9/29/05 11:00 AM	10/04/05	10/04/05 5:33 PM
0509653-006A	9/29/05 9:50 AM	10/03/05	10/03/05 2:57 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0509653

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 18304			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	94.5	95.6	1.12	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	108	109	0.907	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 18304 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509653-006A	9/29/05 9:50 AM	9/29/05	10/04/05 4:56 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 % Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0509653

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 18207			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	110	109	0.683	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	88	89	0.794	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 18207 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509653-002A	9/29/05 11:40 AM	9/29/05	10/02/05 1:56 PM	0509653-003A	9/29/05 10:20 AM	9/29/05	0/04/05 12:40 AM
0509653-004A	9/29/05 10:30 AM	9/29/05	10/04/05 1:45 AM	0509653-005A	9/29/05 11:00 AM	9/29/05	10/04/05 2:51 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 % Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0509653

EPA Method: SW8260B		Extraction: SW5030B			BatchID: 18296			Spiked Sample ID: 0509641-031B		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	115	111	3.56	113	117	3.80	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	116	114	2.40	117	119	1.82	70 - 130	70 - 130
Toluene	ND	10	101	101	0	99.7	103	3.42	70 - 130	70 - 130
%SS1:	94	10	101	99	2.72	103	105	1.61	70 - 130	70 - 130
%SS2:	96	10	87	85	2.39	89	89	0	70 - 130	70 - 130
%SS3:	93	10	83	80	3.33	81	80	1.02	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 18296 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509653-001A	9/29/05 7:00 AM	9/30/05	9/30/05 11:51 PM	0509653-002B	9/29/05 11:40 AM	10/01/05	0/01/05 12:34 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0509653

EPA Method: SW8260B		Extraction: SW5030B				BatchID: 18303			Spiked Sample ID: 0509659-010C	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	113	114	0.526	114	114	0	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	115	118	2.21	116	118	1.21	70 - 130	70 - 130
Toluene	ND	10	97.7	99.5	1.76	102	103	0.363	70 - 130	70 - 130
%SS1:	108	10	105	105	0	106	104	1.71	70 - 130	70 - 130
%SS2:	100	10	87	87	0	91	91	0	70 - 130	70 - 130
%SS3:	94	10	76	80	5.35	81	81	0	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 18303 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509653-003B	9/29/05 10:20 AM	10/03/05	10/03/05 1:09 PM	0509653-004B	9/29/05 10:30 AM	10/03/05	10/03/05 1:52 PM
0509653-005B	9/29/05 11:00 AM	10/01/05	10/01/05 2:43 AM	0509653-006B	9/29/05 9:50 AM	10/01/05	10/01/05 3:26 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

ITSI 0509653



2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 - (925) 256-8998 (fax)

Local Address: 2277 Seventh St.
Oakland California

Chain-Of-Custody

Project Name and Number: Port of Oakland 100-152.28
Project Manager: Rachel Hess
Site Location: The Street Site

Laboratory Name: McCampbell Analytical Inc.
Address: 110 Second Ave S.
Richwood Ca 94533
Contact Name: Angelita Kydelus
Phone: 925 798 1620

Date: 09/29/05
Page: 1 of 1

Sample I.D.	Date	Time	Sample Depth	No. of Containers	Sample Matrix	Analysis:				Special Instructions/Comments
						TPH Diesel	TPH W/O	TPH G	BTEX + NTBE	
(+) Trip Blank	09/29/05	0700	1	2	h2o					Perform Silica Gel clean up on TPH diesel and motor oil
+ MW-2	09/29/05	1140	14'	5		X	X	X	X	
+ MW-4	09/29/05	1020	13'	5		X	X	X	X	
+ MW-4D	09/29/05	1030	13'	5		X	X	X	X	
+ MW-5	09/29/05	1100	13'	5		X	X	X	X	
+ MW-8A	09/29/05	9:50	13'	5		X	X	X	X	

Sampled By: Rogerio Long
Signature: [Signature]
Special Instructions: Fax results to Rachel Hess
/Rogerio Long @ (925) 256 8998
Send Results to: Direct Bill Port of Oakland
attn. Jeff Rubin
Turnaround Time: Standard

Courier/Airbill No.: _____

Relinquished By/Affiliation:	Date:	Time:	Received By/Affiliation:	Date:	Time:
<u>[Signature] ITS</u>	<u>09/29/05</u>	<u>13:40</u>	<u>Mal Vall / MAI</u>	<u>9/29</u>	<u>13:40</u>

ICE/C
 GOOD CONDITION
 HEAD SPACE ABSENT
 DECHLORINATED IN LAB
 PRESERVATION

APPROPRIATE CONTAINERS
 PRESERVED IN LAB

VOAS O&G METALS OTHER

McC Campbell Analytical, Inc.



110 Second Avenue South, #D7
 Pacheco, CA 94553-5560
 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0509653

ClientID: ITSI

EDF: NO

Report to:		Bill to:	Requested TAT:	5 days
Rachel Hess	TEL: (510) 719-6858	Jeff Rubin		
ITSI	FAX: (925) 256-8998	Port of Stockton		
2730 Shadelands Drive Suite 100	ProjectNo: #00-152.28; Port of Oakland	P.O. Box 2089	Date Received:	09/29/2005
Walnut Creek, CA 94598	PO:	Stockton, CA 95201-2089	Date Printed:	09/29/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0509653-001	Trip Blank	Water	9/29/05 7:00:00 AM	<input type="checkbox"/>		A													
0509653-002	MW-2	Water	9/29/05 11:40:00	<input type="checkbox"/>	A	B													
0509653-003	MW-4	Water	9/29/05 10:20:00	<input type="checkbox"/>	A	B													
0509653-004	MW-4D	Water	9/29/05 10:30:00	<input type="checkbox"/>	A	B													
0509653-005	MW-5	Water	9/29/05 11:00:00	<input type="checkbox"/>	A	B													
0509653-006	MW-8A	Water	9/29/05 9:50:00 AM	<input type="checkbox"/>	A	B													

Test Legend:

1	G-MBTEX_W	2	MBTEX-8260B_W	3		4		5	
6		7		8		9		10	
11		12		13		14		15	

Prepared by: Melissa Valles

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

APPENDIX C

DAILY FIELD ACTIVITY REPORT



PROJECT NAME: Port of Oakland

DATE: 09/29/2005

PROJECT NUMBER: 00-152.28

DAILY ACTIVITY REPORT

PAGE 1 OF 1

SITE LOCATION: 2277 Seventh Street, Oakland, California

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

8:00 Get Ice + sampling van at Alameda trailer

9:00 Arrive at site. Tenant's gate closed.

9:15 Tenant arrives at site

9:20 set up at MW-8A

9:50 Sample MW-8A

9:55 Set up at MW-4

10:20 Sample MW-4

10:30 set up at MW-5

11:00 Sample MW-5

11:20 ^{set up at} ~~Sample~~ MW-2

11:40 Sample MW-2

12:00 Measure product at MW-1: 0.67'

12:40 Measure product at MW-3: 1.40'

13:00 Transfer all purged water into 55-gal drum (1 full drum) and leave it onsite.

13:40 Release C.O.C. and samples at McCampbell in Pacheco

14:00 Return water meter at Equipco.

PREPARED BY: Rogerio Lopez

REVIEWED BY:

DATE: 09/29/2005

DATE:

PREPARERS SIGNATURE:

REVIEWERS SIGNATURE:

* Not appropriate for a field activity report when only one responsible person is in the field.