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August 24, 2005

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AUG 26 2005

ENVIRONMENTAL HEALTH SERVICES

Mr. Amir Gholami
Alameda County
Department of Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: **StID#3337**

Site Address: 3609 International Blvd., Oakland, California

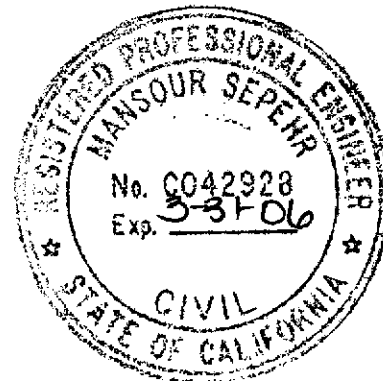
Dear Mr. Gholami:

Enclosed for your review is a copy of SOMA's "Third Quarter 2005 Groundwater Monitoring and Remediation System Operation Report" for the subject property.

Thank you for your time in reviewing our report. If you have any questions or comments, please call me at (925) 734-6400.

Sincerely,

Mansour Sepehr, Ph.D., PE
Principal Hydrogeologist



Enclosure

cc: Mr. Abolghassem Razi w/enclosure
Tony's Express Auto Service

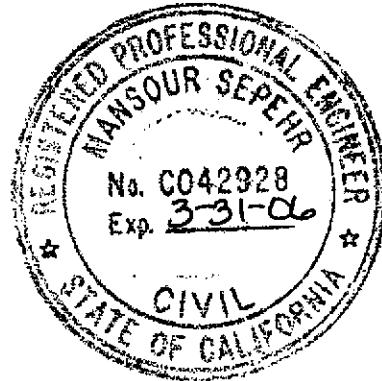
Mr. Vince Tong w/enclosure
Traction International

Certification

This report has been prepared by SOMA Environmental Engineering, Inc. on behalf of Mr. Abolghassem Razi, the property owner of 3609 International Boulevard, Oakland, California, to comply with the Alameda County Environmental Health Services' requirements for the Third Quarter 2005 groundwater monitoring event.



Mansour Sepehr, Ph.D., P.E.
Principal Hydrogeologist



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ENVIRONMENTAL HEALTH SERVICES

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1.0 Introduction

This report has been prepared by SOMA Environmental Engineering, Inc. (SOMA) on behalf of Mr. Abolghassem Razi, the owner of Tony's Express Auto Service, which is located at 3609 International Boulevard, at the intersection of 36th Avenue in Oakland, California ("the Site"), as shown in Figure 1.

The Site is located in an area where the surrounding properties are primarily commercial businesses and residential housing. The Site currently houses a gasoline service station and convenience store. During the Third Quarter 2002 the station was remodeled and several hydraulic hoists were removed. The station no longer has an auto repair facility. Figure 2 illustrates the locations of the main service station, dispenser islands, underground storage tanks (USTs), the on-site and off-site groundwater monitoring wells, and neighboring properties.

This report summarizes the results of the Third Quarter 2005 groundwater monitoring event conducted at the Site on July 14 and 15, 2005. Included in this report are the results of the laboratory analysis on the groundwater samples that were analyzed for:

- Total petroleum hydrocarbons as gasoline (TPH-g),
- Benzene, toluene, ethylbenzene, total xylenes (collectively referred to as BTEX), and
- Methyl tertiary Butyl Ether (MtBE).

In addition to the above laboratory analyses, a natural attenuation study was conducted during this monitoring event. This study consisted of measuring groundwater bioattenuation parameters, which included dissolved oxygen (DO), ferrous iron (Fe^{+2}), nitrate (NO_3^-) and sulfate (SO_4^{-2}). The objective of the natural attenuation study was to evaluate whether the petroleum hydrocarbons found in the groundwater were biodegrading. Therefore, groundwater samples collected during this monitoring event were analyzed for common electron acceptors and other geochemical indicators. The results of these analyses are also described in this report.

These activities were performed in accordance with the general guidelines of the Regional Water Quality Control Board (RWQCB) and the Alameda County Environmental Health Services (ACEHS).

Appendix A details the groundwater monitoring procedures used during the Third Quarter 2005 monitoring event.

This report also describes the operation of the groundwater extraction system installed by SOMA in December 1999. The vapor extraction system was installed by SOMA in July 2000. During rainy weather conditions at the Site, the vapor

extraction system is temporarily shutdown. The locations of the groundwater extraction system and the vapor extraction system are displayed in Figure 2.

1.1 Background

In 1992, Soil Tech Engineering, Inc. (STE) conducted an initial environmental investigation to determine whether or not the soil near the product lines and USTs had been impacted by petroleum hydrocarbons. In July 1993, STE removed one single-walled 10,000-gallon gasoline tank and one single-walled 6,000-gallon gasoline tank along with a 550-gallon waste oil tank from the Site. Three double-walled USTs replaced these tanks. Currently, there is one 10,000-gallon double-walled gasoline tank and two 6,000-gallon double-walled gasoline tanks beneath the Site. The locations of the USTs are shown in Figure 2.

In December 1997, Mr. Razi retained Western Geo-Engineers (WEGE) to conduct additional investigations and perform groundwater monitoring on a quarterly basis. The results of the WEGE groundwater monitoring events indicated elevated levels of petroleum hydrocarbons and MtBE in the groundwater.

In April 1999, Mr. Razi retained SOMA to conduct groundwater monitoring, risk-based corrective action (RBCA), a corrective action plan (CAP), as well as soil and groundwater remediation at the Site. The results of the RBCA study indicated that the Site is a high-risk groundwater site; therefore, the soil and groundwater in the on and off-site areas warranted remedial actions. The source of the petroleum hydrocarbons in the groundwater was believed to have been the former USTs, which were used to store gasoline at the Site. The results of the CAP study indicated that the installation of a French drain combined with a vapor extraction system would be the most cost effective alternative for the Site's remediation.

In late August 1999, SOMA installed a French drain and groundwater treatment system to prevent further migration of the chemically impacted groundwater. This treatment system has been in operation since early December 1999. In July 2000, following approval from the ACEHS, SOMA installed a vapor extraction system as recommended in our CAP document, dated July 1, 1999.

In January 2002, Environmental Fabric removed old product dispensers and installed new ones in the fuel islands.

On July 25, 2003, SOMA installed an additional on-site extraction pump in the western French drain riser. The extraction pump was installed to create a capture zone in the region around the USTs and to contain off-site migration in the southwestern corner of the Site.

On April 1, 2005, SOMA conducted a pilot test to evaluate the use of ozone sparging to actively remediate the groundwater at the Site. Based on the test, the

sediment was determined to be permeable enough to allow for the operation of an ozone sparging system. SOMA is in the process of coordinating with Piper Environmental, of Castroville, California, to install an ozone sparging system at the Site.

2.0 Results

The following sections provide the results of the field measurements and laboratory analyses for the July 14 and 15, 2005 groundwater monitoring event.

2.1 Field Measurements

Table 1 presents the calculated groundwater elevations, as well as the depths to groundwater, for each monitoring well and riser. The calculated groundwater elevation data was used to evaluate the impact of the French drain and determine the extent of the groundwater extraction capture zone.

As shown in Table 1, the depths to groundwater for the monitoring wells ranged from 9.78 feet in monitoring well MW-10 to 11.78 feet in monitoring well MW-6. The corresponding groundwater elevations ranged from 26.41 in well MW-12 to 29.86 feet in well MW-5. The groundwater elevations for the center, east, and west risers were 25.03 feet, 26.08 feet, and 24.06 feet, respectively.

Groundwater elevations decreased in all of the monitoring wells and the French drain risers, with the exception of the center riser, since the Second Quarter 2005. Local recharge rates in each well, as well as seasonal fluctuations, determine the variations in the groundwater elevations. Due to the drier weather encountered this quarter, the water table descended, causing a decrease in the Site's groundwater elevations.

Figure 3 displays the groundwater elevation contour map as measured during the Third Quarter 2005 monitoring event. Throughout the Site the groundwater flows towards the French drain at an approximate gradient of 0.094 feet/feet. The groundwater flow direction has remained consistent; however, the groundwater gradient slightly decreased since the previous monitoring event (Second Quarter 2005).

The lowest site-wide groundwater elevation was measured in the western French drain riser. The calculated groundwater elevation data was also used to evaluate the impact of the French drain's operation. Based on the groundwater elevation data, it appears that the French drain is providing excellent hydraulic control in preventing the contaminants from migrating further off-site.

The field notes for the physical, chemical and biodegradation parameters measured during this monitoring event are included in Appendix B.

Naturally occurring biological processes can enhance the removal rate of contaminants in the subsurface. During the degradation processes, indigenous

bacteria that exist in the subsurface utilize the energy released from the transfer of electrons to drive the redox reactions that remove organic mass from contaminated groundwater. The more positive the redox potential of an electron acceptor, the more energetically favorable is the reaction utilizing that electron acceptor. Based on thermodynamic considerations, the most energetically preferred electron acceptor for redox reactions is DO, followed by nitrate, manganese, ferric iron, sulfate, and carbon dioxide, in descending order of preference. Evaluating the distribution of these electron acceptors can provide evidence of where and to what extent hydrocarbon biodegradation is occurring.

In general, all of the DO concentrations were below the solubility standard of O₂ in the groundwater. The groundwater temperature during this monitoring event ranged from 19.54°C in well MW-10 to 21.13°C in well MW-7. The solubility standard for DO in groundwater at 21.00°C, at an atmospheric pressure of 760 mm/Hg, is approximately 8.9 mg/L. Detectable DO concentrations ranged from 2.70 mg/L in well MW-3 to 4.68 mg/L in well MW-5. ORP showed negative redox potentials in wells MW-1, MW-3, MW-6 to MW-8, and MW-12. Oxidation of petroleum hydrocarbons could have occurred in these monitoring wells at these low DO readings. Negative redox potentials indicate that contaminants in the groundwater are conducive to anaerobic biodegradation.

The presence of Fe²⁺ indicates that the available DO in the subsurface has been consumed and anaerobic bacteria began to utilize other electrons acceptors, such as Fe³⁺, NO₃⁻ and SO₄²⁻, to metabolize dissolved hydrocarbons. Ferrous iron concentrations can thus be used as an indicator of anaerobic biodegradation.

Ferrous iron is a product of the reduction reaction of ferric iron and hydrocarbons. Ferrous iron concentrations were detected throughout the Site. Ferrous iron concentrations ranged from 0.17 mg/L in well MW-10 to the equipment's maximum allowable tolerance range of 3.30 mg/L, in wells MW-1 and MW-6.

Nitrate concentrations were below the equipment's minimum allowable level in the groundwater samples collected from wells MW-2, MW-7, MW-8, MW-10, and MW-12. Detectable nitrate concentrations ranged from 1.7 mg/L in wells MW-5 and MW-6 to 15.4 mg/L in well MW-4R. The presence of high ferrous iron concentrations in combination with non-detectable nitrate levels is indicative of anaerobic biodegradation beneath the Site.

The absence of sulfate in the groundwater samples may be indicative of an anaerobic methanogenesis process. Sulfate was below the equipment's tolerance level in the groundwater samples collected from wells MW-1, MW-2, and MW-8. Detectable sulfate concentrations ranged from 2 mg/L in well MW-12 to 63 mg/L in well MW-5.

2.2 Laboratory Analysis

Table 1 presents the results of the laboratory analyses on the groundwater samples collected during the Third Quarter 2005 monitoring event. In general, the most impacted monitoring wells this quarter were MW-1 and MW-3, which are in the vicinity of the USTs, and MW-6, which is near the soil vapor extraction (SVE) system.

As shown in Table 1, TPH-g was detected throughout the Site. Detectable TPH-g concentrations ranged from 267 ug/L in well MW-5 to 50,100 ug/L in both wells MW-1 and MW-6. Figure 4 displays the contour map of TPH-g concentrations in the groundwater. As shown in Figure 4, high TPH-g concentrations were detected in the vicinity of the USTs, near the SVE system, and in the vicinity of the French drain.

As shown in Table 1, all BTEX concentrations were below the laboratory reporting limit in well MW-5. In well MW-4R, all BTEX concentrations were at low levels, with the exception of toluene, which was below the laboratory reporting limit. In well MW-12, both toluene and total xylenes were below the laboratory reporting limit. The highest benzene, toluene, and total xylene concentrations were detected in well MW-1 at 4,350 ug/L, 1,760 ug/L, and 2,853 ug/L, respectively. The highest ethylbenzene concentration was detected in well MW-6 at 1,900 ug/L.

Figure 5 displays the contour map of benzene concentrations in the groundwater. As shown in Figure 5, the highest benzene concentration was detected in the vicinity of the USTs, in well MW-1. High benzene concentrations were also detected in well MW-6, which is in the vicinity of the vapor extraction system, and in well MW-3, which is near the USTs.

MtBE was below the laboratory reporting limit in monitoring wells MW-2, MW-4R, and MW-6. MtBE concentrations ranged from 1.74 ug/L in well MW-5 to 3,980 ug/L in well MW-1. Figure 6 displays the contour map of MtBE concentrations (analyzed using EPA Method 8260B) in the groundwater. The highest MtBE concentrations were detected in wells MW-1 and MW-3, which are in the vicinity of the USTs.

The laboratory report and COC form for the Third Quarter 2005 monitoring event are included in Appendix C.

2.3 Historical Analytical Results

Table 1 shows the historical groundwater analytical data. The following concentration trends have been observed in impacted wells MW-1, MW-3, and MW-6, since the previous monitoring event.

- In well MW-1, all tested constituents increased.
- In well MW-3, all tested constituents increased, with the exception of MtBE, which decreased.
- In well MW-6, all tested constituents increased, with the exception of MtBE, which remained below the laboratory reporting limit.

To review further detailed groundwater concentration trends refer to Table 1.

3.0 Groundwater Treatment System Operation

The treatment system began operating on December 9, 1999. Since that time, 3,045,400 gallons of groundwater has been treated and discharged under the existing discharge permit (as of August 15, 2005), into the East Bay Municipal Utility District's (EBMUD's) sewer system.

On January 9, 2004, the pneumatic downhole pumps in the western and center French drain risers were removed and replaced with electrical downhole pumps. On July 25, 2004, a downhole pneumatic pump was installed in the western riser of the French drain. A schematic diagram of the remediation system is displayed in Figure 7.

On May 4, 2005, to more accurately determine the total flow through the system, the totalizer meter was changed. The meter reading, prior to being replaced, was 2,189,270 gallons. On July 6, 2004, the replacement meter was factory calibrated at a flow rate of 100 gallons. During the testing, the meter reading ranged from 100.2 gallons to 99.8 gallons. The new meter is a 5/8-inch Kent positive displacement meter. This is the third flow meter SOMA has installed on the treatment system.

Also on May 4, 2005, to maintain the system's efficiency and to ensure that the effluent concentrations remained below the discharge compliance limits, SOMA conducted a carbon change-out. At this time, carbon was refurbished in the 2,000-pound carbon vessel and the 55-gallon carbon vessel drum was replaced. The system was temporarily shutdown during this process and then restarted after the change-out. The carbon was previously changed in January 2005.

As required by the discharge permit and the ACEHS, sampling of the groundwater treatment system has been performed on a routine basis. Table 2 presents the total volume of treated groundwater and the groundwater analytical results. Table 2 shows that all of the effluent samples have been below the discharge limits set forth by EBMUD.

The laboratory reports for the groundwater treatment system during this quarter are included in Appendix D of this report.

The treatment system has removed approximately 194.60 pounds of hydrocarbons and 85 pounds of MtBE from the initial start-up in December 1999 to July 7, 2005. Figure 8 shows the approximate masses of TPH-g and MtBE removed from the impacted groundwater during the operation of the treatment system.

4.0 Soil Vapor Extraction System Operation

The soil vapor extraction (SVE) system consists of 6 vapor extraction wells, a de-moisturizing unit, a blower, and four drums of granulated active carbon (GAC) filters. The vapor extraction system began operating on July 24, 2000. The SVE system has remained in compliance with the Bay Area Air Quality Management District's (BAAQMD's) operating permit.

The operating permit for the SVE system was extended by BAAQMD until August 2005. During rainy periods of the year the thickness of the unsaturated zone layer is reduced when the water table rises; therefore, the SVE system is temporarily shutdown. As such, the SVE system is only operational during the drier seasons, when a greater petroleum mass can be removed from the unsaturated zone.

On April 11, 2005, all four-vapor phase carbon drums were replaced with newer ones. As of August 1, 2005, approximately 746.40 pounds of petroleum hydrocarbons have been removed from the vadose zone beneath the Site. Table 3 presents the total mass of hydrocarbons removed from the Site by the SVE system, as well as the historical operational conditions.

5.0 Conclusions and Recommendations

The findings of the Third Quarter 2005 groundwater monitoring event can be summarized as follows:

1. The groundwater remediation system is providing excellent hydraulic control in preventing further migration of the contaminants.
2. The bio-attenuation study confirmed the occurrence of biodegradation beneath the Site. Based on this study, the affected areas appear in the vicinity of the USTs, in wells MW-1 and MW-3, as well as the eastern section of the Site, in well MW-6.
3. The source area still remains in the vicinity of wells MW-1, MW-3, and MW-6.
4. In general, the GAC and SVE systems have effectively reduced contaminants beneath the Site. The higher concentrations detected in wells MW-1, MW-3, and MW-6 are still considerably lower than the historical peak values for these wells.

5. Approximately 3,045,400 gallons of groundwater has been treated and discharged into EBMUD's sewer system, under the existing discharge permit (as of August 15, 2005). All effluent samples from the groundwater treatment system have remained below the allowable discharge requirements. From initial start-up to July 7, 2005, approximately 194.60 pounds of hydrocarbons and 85 pounds of MIBE have been removed during the operation of the treatment system.
6. As of August 11, 2005, approximately 746.40 pounds of petroleum hydrocarbons have removed from the vadose zone beneath the Site.

Based on the results of this monitoring event, SOMA recommends:

- Continual monitoring of the treatment system to maintain the removal rate of the contaminant mass in the groundwater,
- Continual site monitoring of the biodegradation parameters to determine if the injection of concentrated solutions of terminal electron receptors into the groundwater, in the vicinity of the more contaminated wells, may enhance the biodegradation process,
- Continued quarterly monitoring programs to better understand the seasonal variations in the groundwater quality conditions, and
- Based on the results from the quarterly monitoring events, the source area appears to remain in the vicinity of wells MW-1, MW-3, and MW-6. Ozone sparging technology system should effectively aid in reducing the contaminant source area in these regions. SOMA is currently in the process of installing an ozone sparging system at the Site.

6.0 Report Limitations

This report is the summary of work done by SOMA including observations and descriptions of the Site's conditions. It includes the analytical results produced by Pacific Analytical Laboratory as well as the summaries of data produced by previous environmental consultants. The number and location of the wells were selected to provide the required information, but may not be completely representative of the entire site's conditions. All conclusions and recommendations are based on the results of the laboratory analysis. Conclusions beyond those specifically stated in this document should not be inferred from this report.

SOMA warrants that the services provided were done in accordance with the generally accepted practices in the environmental engineering and consulting field at the time of this sampling.

TABLES

Table 1
Historical Groundwater Elevation Data & Analytical Results
 3609 International Boulevard, Oakland, California

Monitoring Well	Date	Top Of Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MtBE ² EPA 8260B (µg/L)
MW-1	Oct-94	97.99	15.39	82.60	320,000	24,000	21,000	2,600	15,000	NA
	Dec-94	97.99	9.32	88.67	80,000	3,800	6,600	2,300	11,000	NA
	Mar-95	97.99	8.07	89.92	32,000	190	160	150	490	NA
	Jun-95	97.99	9.53	88.46	21,000	950	650	570	150	NA
	Oct-95	97.99	13.29	84.70	59,000	140	130	140	390	NA
	Jan-96	97.99	10.07	87.92	30,000	71	73	50	120	NA
	Apr-96	97.99	8.29	89.70	31,000	98	120	63	170	NA
	Dec-96	97.99	11.67	86.32	NA	NA	NA	NA	NA	NA
	Apr-97	97.99	11.14	86.85	NA	NA	NA	NA	NA	NA
	Dec-97	97.99	9.30	88.69	27,000	2,300	2,100	1,400	5,100	NA
	Sep-98	97.99	13.58	84.41	NA	NA	NA	NA	NA	NA
	Dec-98	97.99	11.10	86.89	65,000	2,500	2,400	2,300	9,500	160
	Mar-99	97.99	9.91	88.08	17,000	480	860	850	3,000	190
	Jun-99	97.99	11.10	86.89	25,000	1,110	1,460	1,330	5,265	77
	Aug-99	97.99	13.35	84.64	19,750	678	463	893	2,938	38
	Nov-99	97.99	14.45	83.54	10,000	693	15	<5	3,471	50
	Feb-00	97.99	11.20	86.79	40,000	2,280	1,380	8	6,130	47
	May-00	97.99	11.49	86.50	15,610	610	350	310	1,400	<5
	Aug-00	97.99	13.36	84.63	11,000	638	<5	<5	<5	17.1
	Nov-00	97.99	13.20	84.79	7,050	435	52	ND	689	10
	Mar-01	97.99	8.96	89.03	14,570	1,005	440	108	2,030	16
	May-01	97.99	11.50	86.49	4,900	310	81	82	388	150
	Aug-01	97.99	13.51	84.48	14,820	852	342	568	1,606	2,000
Nov-01	97.99	14.01	83.98	41,000	2,700	5,100	1,000	4,570	74,000	
Feb-02	97.99	10.11	87.88	260,000	3,700	12,000	3,700	19,200	23,000	
May-02	97.99	10.86	87.13	53,000	4,400	5,100	1300	7,000	32,000	
Jul-02	40.11	12.80	27.31	29,000	2,400	2,500	920	4,400	13,000	
Oct-02	40.11	15.50	24.61	27,000	2,200	2,400	950	4,500	34,000	

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3609 International Boulevard, Oakland, California

Monitoring Well	Date	Top Of Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MtBE ² EPA 8260B (µg/L)	
MW-1 cont.	Jan-03	40.11	9.73	30.38	62,000	3,500	6,000	1600	9,700	48,000	
	May-03	40.11	9.71	30.40	59,000	3,100	2,700	1500	7,000	14,000	
	Jul-03	40.11	12.44	27.67	36,000	4,800	1,800	1300	5,600	25,000	
	Oct-03	40.11	13.89	26.22	630,000 H	3,300	1900 C	3600	27,700	15,000	
	Jan-04	40.11	10.45	29.66	39,000	3,100	1,600	950	4,300	8,500	
	Apr-04	40.11	11.49	28.62	41,000	1,200	350C	830	2,740	4,300	
	Aug-04	40.11	13.81	26.30	22,000	2,000	220	560	3,090	6,900	
	Dec-04	40.11	11.10	29.01	22,790	1,634	319	895	2,851	5,504	
	Mar-05	40.11	8.40	31.71	44,400	3,150	811	1,090	2,856	7,180	
	May-05	40.11	9.72	30.39	33,900	3,440	1,700	1,090	2,276	3,210	
	Jul-05	40.11	11.31	28.80	50,100	4,350	1,760	1,500	2,853	3,980	
	MW-2	Oct-94	98.58	15.36	83.22	NA	NA	NA	NA	NA	NA
		Dec-94	98.58	8.60	89.98	NA	NA	NA	NA	NA	NA
Mar-95		98.58	7.68	90.90	490	3	3	3	1	NA	
Jun-95		98.58	9.59	88.99	8,000	220	330	350	660	NA	
Oct-95		98.58	13.42	85.16	46,000	160	130	93	240	NA	
Jan-96		98.58	9.93	88.65	46,000	160	130	93	240	NA	
Apr-96		98.58	8.13	90.45	27,000	0.1	92	44	13	NA	
Dec-96		98.58	11.67	86.91	6,200	11	7	2	14	ND	
Apr-97		98.58	11.40	87.18	53,000	150	110	37	0.12	ND	
Dec-97		98.58	9.04	89.54	35,000	4,900	4,900	1,600	7,000	NA	
Jun-98		98.58	NM	NM	25,000	2,000	2,000	1,300	4,300	NA	
Sep-98		98.58	13.58	85.00	29,000	290	180	160	360	<0.5	
Dec-98		98.58	10.94	87.64	26,000	1,400	1,600	880	9,500	<5	
Mar-99		98.58	7.60	90.98	7,600	730	830	610	1,900	55	
Jun-99		98.58	11.24	87.34	3,500	290	428	211	744	ND	
Aug-99		98.58	13.50	85.08	60	6	9	4	11	ND	
Nov-99		98.58	14.10	84.48	<50	<5	<5	<5	<5	<5	
Feb-00		98.58	9.85	88.73	6,400	372	639	46	134	8	
May-00		98.58	10.88	87.70	2,930	130	330	130	570	<5	
Aug-00		98.58	13.03	85.55	<50	<5	<5	<5	<5	<5	
Nov-00	98.58	12.60	85.98	ND	ND	ND	ND	ND	ND		
Mar-01	98.58	8.55	90.03	932	18	34	1.3	225	ND		
May-01	98.58	11.00	87.58	870	37	75	55	179	2.7		
Aug-01	98.58	13.53	85.05	125	4	4	3	11	ND		
Nov-01	98.58	13.43	85.15	470	13	64	22	83	14		

Table 1
Historical Groundwater Elevation Data & Analytical Results
3609 International Boulevard, Oakland, California

Monitoring Well	Date	Top Of Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MtBE ² EPA 8260B (µg/L)
MW-2 cont.	Feb-02	98.58	8.99	89.59	1,700	26	180	95	360	<2
	May-02	98.58	10.59	87.99	1,800	31	140	110	348	<2
	Jul-02	40.71	12.70	28.01	180	11	6.3	9.4	27	<2.0
	Oct-02	40.71	14.23	26.48	<50	<0.5	<0.5	<0.5	0.64	<2.0
	Jan-03	40.71	8.66	32.05	510	5	30.0	24.0	92	<2.0
	May-03	40.71	9.17	31.54	1,300	14	88.0	78.0	271	<2.0
	Jul-03	40.71	12.23	28.48	220	3.9	4.3	7	14.5	<2.0
	Oct-03	40.71	13.65	27.06	170 H	1.9	<0.5	2.2	2.2	<2.0
	Jan-04	40.71	9.54	31.17	860	7.2	37	50	151	<2.0
	Apr-04	40.71	10.80	29.91	730	6.6	19	38	87	<2.0
	Aug-04	40.71	13.54	27.17	220	2.2	1.9	7	11.7	<0.5
	Dec-04	40.71	10.52	30.19	99	1.7	3.3	8.3	25.1	<0.5
	Mar-05	40.71	8.06	32.65	5,690	18.7	120	315	876	<1.0
	May-05	40.71	9.10	31.61	6,320	12.5	75	429	557	<2.15
	Jul-05	40.71	11.10	29.61	7,680	14.1	46.3	522	471	<2.15
	MW-3	Oct-94	97.78	15.79	81.99	3,000,000	190,000	740,000	310,000	130,000
Dec-94		97.78	9.79	87.99	250,000	19,000	22,000	4,400	28,000	NA
Mar-95		97.78	8.69	89.09	350,000	20,000	42,000	5,800	36,000	NA
Jun-95		97.78	10.25	87.53	350,000	20,000	42,000	5,800	36,000	NA
Oct-95		97.78	12.91	84.87	150,000	510	410	210	65	NA
Jan-96		97.78	10.55	87.23	150,000	510	410	210	650	NA
Apr-96		97.78	8.76	89.02	NA	NA	NA	NA	NA	NA
Dec-96		97.78	12.02	85.76	NA	NA	NA	NA	NA	NA
Apr-97		97.78	11.73	86.05	NA	NA	NA	NA	NA	NA
Dec-97		97.78	NM	NM	NA	NA	NA	NA	NA	NA
Sep-98		97.78	14.68	83.10	NA	NA	NA	NA	NA	NA
Dec-98		97.78	11.55	86.23	51,000	5,700	3,900	1,200	6,300	410
Mar-99		97.78	8.44	89.34	45,000	4,100	6,400	1,000	6,100	470
Jun-99		97.78	11.8	85.98	46,000	8,245	6,425	1,015	7,173	274
Aug-99		97.78	13.85	83.93	64,000	7,484	8,052	1,744	9,749	141
Nov-99		97.78	14.7	83.08	26,000	3,218	1,319	<5	6,697	126
Feb-00		97.78	10.95	86.83	44,000	6,090	3,360	<5	5,780	276
May-00	97.78	11.68	86.10	68,000	15,000	8,900	1,500	7,400	<5	
Aug-00	97.78	13.73	84.05	76,000	8,900	5,636	883	7,356	176	
Nov-00	97.78	13.4	84.38	48,000	6,789	4,816	676	7,258	83	

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MW-3 cont.	Mar-01	97.78	9.43	88.35	14,754	2,250	140	ND	1,284	110
	May-01	97.78	11.81	85.97	44,000	5,400	3,100	1,400	6,400	200
	Aug-01	97.78	14.1	83.68	41,750	3,485	2,670	1,255	5,420	52
	Nov-01	97.78	14.32	83.46	NA	NA	NA	NA	NA	NA
	Feb-02	97.78	10.01	87.77	62,000	6,000	7,600	1,900	9,200	12,000
	May-02	97.78	11.28	86.50	54,000	6,700	3,200	1,800	7,100	9,100
	Jul-02	40.91	13.25	27.66	45,000	8,900	1,700	1,600	5,600	2,600
	Oct-02	40.91	14.98	25.93	70,000	4,900	5,100	2,100	11,900	21,000
	Jan-03	40.91	9.79	31.12	35,000	2,900	1,300	860	5,200	13,000
	May-03	40.91	10.01	30.90	48,000	5,800	1,400	1,600	7,400	5,900
	Jul-03	40.91	12.94	27.97	31,000	4,700	990	1,400	5,200	16,000
	Oct-03	40.91	14.29	26.62	30,000	4,400	930	1,600	5,400	7,400
	Jan-04	40.91	10.57	30.34	45,000	2,100	850	1,500	5,700	2,900
	Apr-04	40.91	11.84	29.07	31,000	4,200	590	1,600	4,370	900
	Aug-04	40.91	14.24	26.67	21,000	3,400	370	1,000	2,350	1,100
	Dec-04	40.91	11.32	29.59	6,441	978	109	490	941	201
	Mar-05	40.91	8.87	32.04	22,300	1,280	456	729	1,870	2,400
	May-05	40.91	9.96	30.95	17,600	764	302	735	1,227	1,800
Jul-05	40.91	11.50	29.41	34,600	1,390	492	1,460	2,054	1,090	
MW-4	Jan-96	97.85	10.11	87.74	9,300	230	110	10	29	NA
	Apr-96	97.85	8.35	89.50	1,900	12	8	5	14	NA
	Dec-96	97.85	11.58	86.27	4,000	14	6	4	12	ND
	Apr-97	97.85	11.23	86.62	ND	ND	ND	ND	ND	ND
	Dec-97	97.85	8.43	88.42	2,300	410	270	100	1,500	NA
	Jun-98	97.85	NM	NM	1,700	780	160	54	200	NA
	Sep-98	97.85	13.64	84.21	6,200	910	77	68	200	18
	Dec-98	97.85	11.13	86.72	1,400	590	33	28	94	24
	Mar-99	97.85	8.46	89.39	600	200	35	19	56	11
	Jun-99	97.85	11.30	86.55	1,000	298	44	19	64	13
	Aug-99	97.85	13.20	84.65	660	497	41	54	145	6
	Nov-99	97.85	14.10	83.75	<50	<5	<5	<5	<5	<5
	Feb-00	97.85	11.25	86.60	7,800	1,200	61	<5	781	<5
	May-00	97.85	11.46	86.39	552	42	19	16	67	<5
	Aug-00	97.85	13.35	84.50	370	5.08	<5	<5	<5	<5
Nov-00	97.85	13.05	84.80	ND	5.30	ND	ND	8	ND	

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MW-4 cont.	Mar-01	97.85	9.24	88.61	62	ND	ND	3.2	8.7	ND
	May-01	97.85	11.50	86.35	80	12	1.9	4.1	9.8	ND
	Aug-01	97.85	13.80	84.05	133	12	2.2	3.9	9	ND
	Nov-01	97.85	13.68	84.17	670	180	5	17	53	ND
	Feb-02	97.85	9.97	87.88	450	63	4.1	22	28.7	<2
	May-02	97.85	10.81	87.04	570	72	29	27	74	<2
	Jul-02	40.01	12.62	27.39	450	20	24	19	74	<2.0
	Oct-02	40.01	14.34	25.67	320	69	0.99	9	5.49	<2.0
	Jan-03	40.01	9.79	30.22	310	49	2.5	13	26.7	<2.0
	May-03	40.01	9.78	30.23	120	27	1.8	9	14.6	<2.0
	Jul-03	40.01	12.44	27.57	<50	1	<0.5	<0.5	<0.5	<0.5
	Oct-03	40.01	13.72	26.29	70	12	<0.5	4.7	3.0	<2.0
	Jan-04	40.01	10.55	29.46	230	18	2.1	8.1	17.1	<2.0
	Apr-04	40.01	11.39	28.62	<50	3.8	<0.5	1.6	1.9	<2.0
	Aug-04	40.01	13.68	26.33	<50	1.6	<0.5	0.66	0.53	<2.0
	Dec-04	40.01	10.95	29.06	<50	1.3	<0.5	2.80	<1.0	<0.5
	Mar-05	40.01	8.61	31.40	661	72	4.13	39.7	48.42	<0.5
MW-4R	May-05	40.34	9.88	30.46	7,780	170	11.1	192	121.2	<0.5
	Jul-05	40.34	11.61	28.73	847	25.3	<2.0	28.2	10.9	<0.5
MW-5	Oct-95	99.04	13.57	85.47	1,500	1	1	4	5	NA
	Jan-96	99.04	10.03	89.01	1,500	1	1	4	5	NA
	Apr-96	99.04	8.24	90.80	780	1	1	5	4	NA
	Dec-96	99.04	11.48	87.56	NA	NA	NA	NA	NA	NA
	Apr-97	99.04	11.35	87.69	NA	NA	NA	NA	NA	NA
	Dec-97	99.04	9.15	89.89	790	82	66	59	160	NA
	Jun-98	99.04	NM	NM	400	<5	<5	15	<10	NA
	Sep-98	99.04	13.82	85.22	270	2	1	3	3	<.5
	Dec-98	99.04	11.20	87.84	1,400	1	1	ND	2	ND
	Mar-99	99.04	7.73	91.31	650	3	1	16	2	10
	Jun-99	99.04	11.50	87.54	270	4	3	6	4	ND
	Aug-99	99.04	13.55	85.49	120	ND	4	ND	4	ND
	Nov-99	99.04	14.30	84.74	<50	<5	<5	<5	<5	<5
	Feb-00	99.04	9.85	89.19	70	<5	<5	<5	7	<5
May-00	99.04	11.03	88.01	627.4	7.4	24	12	32.4	<5	
Aug-00	99.04	13.22	85.82	<50	<5	<5	<5	<5	<5	
Nov-00	99.04	13.55	85.49	ND	ND	ND	ND	ND	ND	

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MW-5 cont.	Mar-01	99.04	8.67	90.37	382	6.1	1.9	6.6	5.9	ND
	May-01	99.04	11.12	87.92	180	ND	ND	2.1	0.57	4.4
	Aug-01	99.04	13.79	85.25	258	1	1.1	3.4	7.3	1.4
	Nov-01	99.04	13.72	85.32	920	17	160	26	135	40
	Feb-02	99.04	9.04	90.00	290	3.5	2	6.2	6.2	<0.5
	May-02	99.04	10.89	88.35	160	<0.5	0.78 C	2	2.15	2.3
	Jul-02	41.16	12.94	28.22	110	<0.5	<0.5	0.77	<0.5	<0.5
	Oct-02	41.16	14.51	26.65	77	<0.5	<0.5	<0.5	<0.5	<2.0
	Jan-03	41.16	8.73	32.43	450 Y	<0.5	<0.5	4	0.54	2.1
	May-03	41.16	9.24	31.92	130	<0.5	<0.5	1	<0.5	3.1
	Jul-03	41.16	12.45	28.71	300	<0.5	1.9 C	0.76	<0.5	<2.0
	Oct-03	41.16	13.89	27.27	460 H	<0.5	<0.5	<0.5	<0.5	1.9
	Jan-04	41.16	9.60	31.56	160	<0.5	<0.5	0.55 C	<0.5	<5.0
	Apr-04	41.16	11.06	30.10	280	<0.5	0.74C	0.62	<0.5	2.1
	Aug-04	41.16	13.75	27.41	250	<0.5	<0.5	<0.5	<0.5	2
	Dec-04	41.16	10.73	30.43	150	<0.5	<0.5	<0.5	<1.0	2.6
	Mar-05	41.16	8.18	32.98	496	<0.5	<0.5	<0.5	<1.0	1.91
	May-05	41.16	9.22	31.94	360	<0.5	<0.5	<0.5	<1.0	1.72
	Jul-05	41.16	11.30	29.86	267	<0.5	<2.0	<0.5	<1.0	1.74
	MW-6	Oct-95	98.77	13.94	84.83	NA	NA	NA	NA	NA
Jan-96		98.77	10.55	88.22	120,000	350	310	200	610	NA
Apr-96		98.77	8.76	90.01	NA	NA	NA	NA	NA	NA
Dec-96		98.77	12.04	86.73	NA	NA	NA	NA	NA	NA
Apr-97		98.77	11.76	87.01	NA	NA	NA	NA	NA	NA
Dec-97		98.77	9.30	89.47	NA	NA	NA	NA	NA	NA
Sep-98		98.77	14.10	84.67	NA	NA	NA	NA	NA	NA
Dec-98		98.77	11.60	87.17	NA	NA	NA	NA	NA	NA
Mar-99		98.77	8.40	90.37	37,000	3,900	4,300	1,600	7,000	180
Jun-99		98.77	11.90	86.87	18,500	2,060	1,650	735	3,170	ND
Aug-99		98.77	13.90	84.87	42,000	3,806	3,649	1,554	7,996	10
Nov-99		98.77	14.75	84.02	40,000	1,084	130	<5	10,940	<5
Feb-00		98.77	10.95	87.82	17,000	1,360	521	<5	4,150	6
May-00		98.77	11.70	87.07	21,700	1,700	1,200	17	3,600	<5
Aug-00		98.77	13.78	84.99	24,000	1,306	870	<5	5,162	<5
Nov-00		98.77	13.40	85.37	19,000	1,387	618	ND	5,250	ND
Mar-01		98.77	9.49	89.28	15,637	713	459	238	2,363	ND
May-01	98.77	11.82	86.95	27,000	760	450	1,600	4,270	ND	
Aug-01	98.77	NM	NM	NA	NA	NA	NA	NA	NA	
Nov-01	98.77	NM	NM	NA	NA	NA	NA	NA	NA	

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MW-6 cont.	Feb-02	98.77	9.92	88.85	14,000	440	180	750	1,020	<10
	May-02	98.77	11.33	87.44	10,000	400	160	470	970	<2
	Jul-02	40.92	13.28	27.64	24,000	1,000	410	1,400	3,770	<20
	Oct-02	40.92	14.93	25.99	22,000	1,200	620	1,300	2,800	<20
	Jan-03	40.92	9.78	31.14	12,000	730	230	740	1,690	<20
	May-03	40.92	9.92	31.00	150,000 H	1,400	780	2,500	8,700	<40
	Jul-03	40.92	12.98	27.94	29,000	1,600	520	1,500	4,400	<200
	Oct-03	40.92	14.35	26.57	36,000	1,300	430	1,600	4,570	<40
	Jan-04	40.92	10.60	30.32	30,000	1,300	320	1,500	3,040	<50
	Apr-04	40.92	11.80	29.12	99,000	1,700	580 C	2,200	5,200	<50
	Aug-04	40.92	14.36	26.56	12,000	580	130	520	1,020	<10
	Dec-04	40.92	11.22	29.70	12,631	649	134	1,009	2,037	<2.15
	Mar-05	40.92	8.94	31.98	18,300	546	126	705	1,069	<2.15
	May-05	40.92	10.02	30.90	38,500	1,290	395	1,550	1,652	<5.50
	Jul-05	40.92	11.78	29.14	50,100	1,510	409	1,900	1,920	<5.50
MW-7										
	Oct-95	97.83	12.95	84.88	NA	10	12	17	NA	3,300
	Jan-96	97.83	9.57	88.26	3,300	9	12	17	45	NA
	Apr-96	97.83	7.75	90.08	1,900	2	3	5	7	NA
	Dec-96	97.83	10.97	86.86	NA	NA	NA	NA	NA	NA
	Apr-97	97.83	12.95	84.88	NA	NA	NA	NA	NA	NA
	Dec-97	97.83	8.65	89.18	1,400	130	98	75	200	NA
	Jun-98	97.83	NM	NM	620	4	<5	9	<10	NA
	Sep-98	97.83	13.09	84.74	1,800	1	1	1	2	68
	Dec-98	97.83	10.52	87.31	990	5	10	5	20	160
	Mar-99	97.83	7.00	90.83	300	3	1	1	1	62
	Jun-99	97.83	10.70	87.13	320	3	7	4	3	26
	Aug-99	97.83	12.80	85.03	570	5	10	ND	ND	ND
	Nov-99	97.83	13.25	84.58	290	<5	9	<5	<5	12
	Feb-00	97.83	9.50	88.33	80	<5	<5	<5	<5	23
	May-00	97.83	10.52	87.31	494.9	4.9	22	4.2	21.9	29
	Aug-00	97.83	12.63	85.20	80	<5	<5	<5	<5	11.7
	Nov-00	97.83	11.95	85.88	50	ND	ND	ND	ND	9.1
	Mar-01	97.83	8.04	89.79	82	0.97	ND	0.76	ND	78
	May-01	97.83	10.60	87.23	370	ND	9.1	1.3	2.3	28
	Aug-01	97.83	13.02	84.81	610	3.7	3	6.2	18.9	10
	Nov-01	97.83	12.83	85.00	1,700	24	220	41	205	69

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MW-7 cont.	Feb-02	97.83	8.91	88.92	380	<0.5	2.5	2	3.8	78
	May-02	97.83	10.13	87.70	560	15	28.0	9.2	44.0	37
	Jul-02	39.94	12.15	27.79	270	5.3	1.3 C	2.3	8.1	46
	Oct-02	39.94	13.74	26.20	350	<0.5	2.1 C	<0.5	3.1 C	43
	Jan-03	39.94	8.45	31.49	220 Y	<0.5	<0.5	0.78	0.55	19
	May-03	39.94	7.69	32.25	280	<0.5	<0.5	<0.5	<0.5	11
	Jul-03	39.94	11.72	28.22	230	<0.5	1.3 C	<0.5	0.63	5.9
	Oct-03	39.94	13.10	26.84	460	<0.5	<0.5	<0.5	<0.5	5.0
	Jan-04	39.94	9.23	30.71	380	<0.5	1.4 C	<0.5	<0.5	<5.0
	Apr-04	39.94	10.40	29.54	480	<0.5	2.5 C	<0.5	0.90	0.62
	Aug-04	39.94	12.92	27.02	410	<0.5	.81 C	<0.5	<0.5	1.70
	Dec-04	39.94	10.28	29.66	96	<0.5	<0.5	<0.5	<1.0	<0.5
	Mar-05	39.94	7.44	32.50	209	<0.5	<0.5	<0.5	<1.0	1.74
	May-05	39.94	8.53	31.41	262	4.85	2.19	2.36	4.24	0.73
	Jul-05	39.94	10.61	29.33	753	20.6	11.9	16.8	33.23	2.36
	MW-8	Oct-95	97.25	12.86	84.39	NA	NA	NA	NA	NA
Jan-96		97.25	9.79	87.46	94,000	310	250	180	480	NA
Apr-96		97.25	7.98	89.27	58,000	250	170	140	330	NA
Dec-96		97.25	11.13	86.12	27,000	88	43	44	80	ND
Apr-97		97.25	12.95	84.30	24,000	86	55	50	100	ND
Dec-97		97.25	8.95	88.30	28,000	6,000	1,600	2,100	4,700	NA
Jun-98		97.25	NM	NM	54,000	4,600	2,800	3,500	7,300	NA
Sep-98		97.25	13.02	84.23	NA	NA	NA	NA	NA	NA
Dec-98		97.25	10.75	86.50	61,000	6,300	1,700	2,200	4,400	1,300
Mar-99		97.25	7.58	89.67	22,000	1,800	470	2,000	2,000	820
Jun-99		97.25	10.80	86.45	39,500	3,610	1,635	2,175	5,913	988
Aug-99		97.25	12.75	84.50	58,000	5,379	2,438	3,001	6,960	639
Nov-99		97.25	13.65	83.60	10,500	92	<5	<5	3,414	769
Feb-00		97.25	10.85	86.40	44,200	1,080	617	<5	4,160	240
May-00		97.25	11.15	86.10	25,940	940	130	1,600	3,960	75
Aug-00		97.25	12.87	84.38	22,000	632	5.38	<5	2,686	37.3
Nov-00		97.25	12.55	84.70	3,000	278	350	209	980	21
Mar-01	97.25	8.75	88.50	2,360	81	16	71	270	221	
May-01	97.25	11.15	86.10	3,100	110	28	140	194	410	
Aug-01	97.25	12.97	84.28	5,620	153	46	373	345	174	
Nov-01	97.25	13.19	84.06	13,000	600	270	750	1,200	400	

Table 1
Historical Groundwater Elevation Data & Analytical Results
3609 International Boulevard, Oakland, California

Monitoring Well	Date	Top Of Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MIBE ² EPA 8260B (µg/L)
MW-8 cont.	Feb-02	97.25	9.88	87.37	240,000	1,400	<25	4,200	6,560	<100
	May-02	97.25	10.32	86.93	9,000	360	56	560	622	2,100
	Jul-02	39.38	11.79	27.59	8,400	340	78	530	517	1,200
	Oct-02	39.38	13.80	25.58	18,000	950	75	1,400	1,269	700
	Jan-03	39.38	9.48	29.90	8,100	300	29	370	302	1,100
	May-03	39.38	9.48	29.90	18,000	380	33 C	1,000	516	540
	Jul-03	39.38	11.92	27.46	12,000	460	54 C	910	435	890
	Oct-03	39.38	13.09	26.29	16,000	830	87	2,000	675	280
	Jan-04	39.38	10.32	29.06	18,000	330	37 C	860	239	500
	Apr-04	39.38	11.23	28.15	12,000	240	26 C	650	128.8 C	<4
	Aug-04	39.38	13.02	26.36	6,000	310	27	660	56.8 C	<4
	Dec-04	39.38	10.79	28.59	6,650	171	15	360	35	166
	Mar-05	39.38	7.62	31.76	11,400	125	21	418	55.3	865
	May-05	39.38	9.15	30.23	10,100	122	13.2	440	34.73	406
	Jul-05	39.38	10.81	28.57	11,600	213	27.8	854	71.51	184
	MW-10	Dec-96	94.54	10.44	84.10	NA	NA	NA	NA	NA
Apr-97		94.54	10.07	84.47	1,000	21	9	3	3	ND
Dec-97		94.54	8.78	85.76	10,000	5,300	76	1,100	780	NA
Sep-98		94.54	11.93	82.61	9,900	5,400	66	970	620	2,600
Dec-98		94.54	10.19	84.35	8,700	3,800	51	790	420	1,800
Mar-99		94.54	7.30	87.24	4,100	15	28	420	250	2,800
Jun-99		94.54	9.95	84.59	4,200	1,168	34	264	154	1,195
Aug-99		94.54	11.60	82.94	3,250	2,135	97	600	248	1,800
Nov-99		94.54	12.50	82.04	2,950	1,134	20	<5	70	652
Feb-00		94.54	9.25	85.29	<50	<5	<5	<5	<5	448
May-00		94.54	9.45	85.09	4,400	1,500	25	390	107.1	580
Aug-00		94.54	11.52	83.02	6,800	1,055	26	54	53.8	1,283
Nov-00		94.54	11.35	83.19	ND	ND	ND	ND	ND	145

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Historical Groundwater Elevation Data & Analytical Results
 3609 International Boulevard, Oakland, California

Monitoring Well	Date	Top Of Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MIBE ² EPA 8260B (µg/L)
MW-10 cont.	Mar-01	94.54	8.07	86.47	4,935	969	18	41	72	630
	May-01	94.54	9.80	84.74	2,900	630	11	200	31	270
	Aug-01	94.54	11.64	82.90	242	35	1	11	2	64
	Nov-01	94.54	12.06	82.48	3,500	900	260	310	258	410
	Feb-02	94.54	8.28	86.26	4,700	1,100	20	370	63.7	500
	May-02	94.54	9.49	85.05	3,400	660	13	260	48.0	270
	Jul-02	36.71	10.93	25.78	160	26	0.55	8.1	1.0	72
	Oct-02	36.71	12.54	24.17	550	130	3.00	31.0	2.7	70
	Jan-03	36.71	8.23	28.48	17,000	870	11	290	27	270
	May-03	36.71	8.30	28.41	2,500	650	10	190	15.81 C	180
	Jul-03	36.71	10.76	25.95	750	160	4	58	6.66 C	79
	Oct-03	36.71	11.91	24.80	2,000	410	11	170	9.14 C	110
	Jan-04	36.71	8.91	27.80	4,000	600	15	280	15.3 C	110
	Apr-04	36.71	9.62	27.09	5,100	580	<1	330	26.4	160
	Aug-04	36.71	11.50	25.21	3,400	550	13	240	17.0	100
	Dec-04	36.71	9.29	27.42	2,524	556	10	184	16.0	144
	Mar-05	36.71	7.48	29.23	4,340	354	6.07	166	17.1	258
	May-05	36.71	8.24	28.47	4,750	415	6.87	254	10.4	126
	Jul-05	36.71	9.78	26.93	6,050	594	9.53	297	10.7	190
MW-11	Dec-96	95.94	11.99	83.95	NA	NA	NA	NA	NA	NA
	Apr-97	95.94	11.47	84.47	NA	NA	NA	NA	NA	NA
	Dec-97	95.94	10.40	85.54	710	66	97	59	190	NA
	Jun-98	95.94	NM	NM	1,100	45	24	71	100	NA
	Sep-98	95.94	13.24	82.70	170	7	1	4	9	22
	Dec-98	95.94	11.58	84.36	650	27	4	25	33	>0.5
	Mar-99	95.94	8.81	87.13	710	30	6	53	84	8
	Jun-99	95.94	11.50	84.44	4,600	1,240	35	290	159	1,291
	Aug-99	95.94	12.75	83.19	170	4	4	ND	6	ND
	Nov-99	95.94	13.85	82.09	<50	<5	<5	<5	<5	<5
	Feb-00	95.94	13.60	82.34	700	20	15	<5	35	<5
	May-00	95.94	13.80	82.14	477	27	13	9.5	29.0	<5
	Aug-00	95.94	14.87	81.07	590	10.5	5.94	<5	7.75	<5
	Nov-00	95.94	12.55	83.39	60	ND	ND	ND	ND	ND
	Mar-01	95.94	9.61	86.33	273	8.6	2.1	10	14	ND
	May-01	95.94	11.15	84.79	280	12	8.3	3.3	9.8	12
Aug-01	95.94	13.04	82.90	NA	NA	NA	NA	NA	NA	
Nov-01	95.94	13.48	82.46	300	7.9	26	5.1	28.9	ND	

Table 1
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3609 International Boulevard, Oakland, California

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MW-11 cont.	Feb-02	95.94	9.69	86.25	560	34	20	32	37.3	< 0.5
	May-02	95.94	10.99	84.95	280	16	3	7.6	7.6	<2
	Jul-02	NS	13.24	NC	120	5.6	<0.5	0.61	0.53	<2.0
	Oct-02	NS	NM	NC	NA	NA	NA	NA	NA	NA
	Jan-03	NS	9.76	NC	700	32	5.7	25	14.10	<2.0
	May-03	NS	9.66	NC	280	17	1.5 C	8	4.10	<2.0
	Jul-03	NS	12.30	NC	340	19 C	3.2	0.58	0.89	<2.0
	Oct-03	NS	13.38	NC	210	5.0 C	<0.5	<0.5	<0.5	<0.5
	Jan-04	NS	NM	NC	NA	NA	NA	NA	NA	NA
	Apr-04	NS	NM	NC	NA	NA	NA	NA	NA	NA
	Aug-04	NS	NM	NC	NA	NA	NA	NA	NA	NA
	Dec-04	NS	10.54	NC	486	24	3.0	18	4.00	<0.5
	Mar-05	NS	NM	NC	NA	NA	NA	NA	NA	NA
	May-05	NS	NM	NC	NA	NA	NA	NA	NA	NA
Jul-05	NS	NM	NC	NA	NA	NA	NA	NA	NA	
MW-12	Nov-99	94.84	13.20	81.64	80	<5	<5	<5	<5	229
	Feb-00	94.84	10.20	84.64	4,000	351	37	<5	24	513
	May-00	94.84	10.48	84.36	3,930	230	10	34	12	200
	Aug-00	94.84	12.07	82.77	1,730	15.4	12.4	<5	<5	185
	Nov-00	94.84	12.05	82.79	1,010	9.3	19.0	ND	7.40	215
	Mar-01	94.84	9.04	85.80	1,517	13	5.6	5.5	11	214
	May-01	94.84	10.52	84.32	31,000	1,200	ND	95	165	1,900
	Aug-01	94.84	12.24	82.60	2,090	71	1.8	3	4	142
	Nov-01	94.84	12.76	82.08	3,000	81	69	13	73	120
	Feb-02	94.84	8.78	86.06	2,500	77	<0.5	5.7	7.4	95
	May-02	94.84	10.26	84.58	2,700	74	<0.5	20	5.1	94
	Jul-02	36.84	10.93	25.91	2,200	57	<0.5	11	2.6	100
	Oct-02	36.84	13.13	23.71	2,600	71	<0.5	<0.5	10.3	84
	Jan-03	36.84	9.23	27.61	2,300	65	<0.5	1	4.00	86
	May-03	36.84	9.24	27.60	2,200	58	<0.5	4.2 C	4.1 C	96
	Jul-03	36.84	11.44	25.40	2,200	32 C	16 C	<0.5	9.20	66
	Oct-03	36.84	12.50	24.34	2200 H	31 C	<0.5	<0.5	3.5 C	49
	Jan-04	36.84	9.56	27.28	1,700	24 C	14 C	3	5.00	72
	Apr-04	36.84	10.21	26.63	2,000	11 C	<0.5	<0.5	5 C	36
	Aug-04	36.84	12.00	24.84	1,900	8.9 C	<0.5	<0.5	1.1 C	26
Dec-04	36.84	10.03	26.81	1,018	2	<0.5	<0.5	<1.0	26	
Mar-05	36.84	8.49	28.35	1,890	4.25	<0.5	6.38	<1.0	30.6	
May-05	36.84	9.07	27.77	1,080	<0.5	<0.5	<0.5	<1.0	20.6	
Jul-05	36.84	10.43	26.41	1,580	2.71	<2.0	3.33	<1.0	29.3	

Table 1
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3609 International Boulevard, Oakland, California

Monitoring Well	Date	Top Of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MtBE ² EPA 8260B (µg/L)
FDC	Feb-00	97.10	15.40	81.70	NA	NA	NA	NA	NA	NA
	May-00	97.10	12.41	84.69	NA	NA	NA	NA	NA	NA
	Aug-00	97.10	15.70	81.40	NA	NA	NA	NA	NA	NA
	Nov-00	97.10	16.85	80.25	NA	NA	NA	NA	NA	NA
	Mar-01	97.10	9.39	87.71	NA	NA	NA	NA	NA	NA
	May-01	97.10	15.85	81.25	NA	NA	NA	NA	NA	NA
	Aug-01	97.10	13.30	83.80	NA	NA	NA	NA	NA	NA
	Nov-01	97.10	17.82	79.28	NA	NA	NA	NA	NA	NA
	Feb-02	97.10	16.74	80.36	NA	NA	NA	NA	NA	NA
	May-02	97.10	10.36	86.74	NA	NA	NA	NA	NA	NA
	Jul-02	39.35	11.93	27.42	NA	NA	NA	NA	NA	NA
	Oct-02	39.35	13.74	25.61	NA	NA	NA	NA	NA	NA
	Jan-03	39.35	15.18	24.17	NA	NA	NA	NA	NA	NA
	May-03	39.35	16.20	23.15	NA	NA	NA	NA	NA	NA
	Jul-03	39.35	16.45	22.90	NA	NA	NA	NA	NA	NA
	Oct-03	39.35	16.53	22.82	NA	NA	NA	NA	NA	NA
	Jan-04	39.35	13.74	25.61	NA	NA	NA	NA	NA	NA
	Apr-04	39.35	16.30	23.05	NA	NA	NA	NA	NA	NA
	Aug-04	39.35	16.05	23.30	NA	NA	NA	NA	NA	NA
	Dec-04	39.35	14.56	24.79	NA	NA	NA	NA	NA	NA
Mar-05	39.35	13.55	25.80	NA	NA	NA	NA	NA	NA	
May-05	39.35	14.88	24.47	NA	NA	NA	NA	NA	NA	
Jul-05	39.35	14.32	25.03	NA	NA	NA	NA	NA	NA	
FDE	May-00	97.90	13.22	84.68	NA	NA	NA	NA	NA	NA
	Aug-00	97.90	NM	NM	NA	NA	NA	NA	NA	NA
	Nov-00	97.90	12.75	85.15	NA	NA	NA	NA	NA	NA
	Mar-01	97.90	9.14	88.76	NA	NA	NA	NA	NA	NA
	May-01	97.90	13.05	84.85	NA	NA	NA	NA	NA	NA
	Aug-01	97.90	13.69	84.21	NA	NA	NA	NA	NA	NA
	Nov-01	97.90	13.92	83.98	NA	NA	NA	NA	NA	NA
	Feb-02	97.90	13.18	84.72	NA	NA	NA	NA	NA	NA
	May-02	97.90	11.18	86.72	NA	NA	NA	NA	NA	NA
	Jul-02	40.06	12.81	27.25	NA	NA	NA	NA	NA	NA
	Oct-02	40.06	14.53	25.53	NA	NA	NA	NA	NA	NA
	Jan-03	40.06	13.13	26.93	NA	NA	NA	NA	NA	NA
	May-03	40.06	11.79	28.27	NA	NA	NA	NA	NA	NA
	Jul-03	40.06	13.10	26.96	NA	NA	NA	NA	NA	NA
Oct-03	40.06	13.85	26.21	NA	NA	NA	NA	NA	NA	

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FDE cont.	Jan-04	40.06	13.27	26.79	NA	NA	NA	NA	NA	NA
	Apr-04	40.06	13.20	26.86	NA	NA	NA	NA	NA	NA
	Aug-04	40.06	14.97	25.09	NA	NA	NA	NA	NA	NA
	Dec-04	40.06	14.25	25.81	NA	NA	NA	NA	NA	NA
	Mar-05	40.06	12.50	27.56	NA	NA	NA	NA	NA	NA
	May-05	40.06	13.93	26.13	NA	NA	NA	NA	NA	NA
	Jul-05	40.06	13.98	26.08	NA	NA	NA	NA	NA	NA
FDW	May-00	96.90	12.20	84.70	NA	NA	NA	NA	NA	NA
	Aug-00	96.90	NM	NM	NA	NA	NA	NA	NA	NA
	Nov-00	96.90	15.50	81.40	NA	NA	NA	NA	NA	NA
	Mar-01	96.90	10.12	86.78	NA	NA	NA	NA	NA	NA
	May-01	96.90	13.50	83.40	NA	NA	NA	NA	NA	NA
	Aug-01	96.90	13.08	83.82	NA	NA	NA	NA	NA	NA
	Nov-01	96.90	14.31	82.59	NA	NA	NA	NA	NA	NA
	Feb-02	96.90	12.78	84.12	NA	NA	NA	NA	NA	NA
	May-02	96.90	10.14	86.76	NA	NA	NA	NA	NA	NA
	Jul-02	39.16	11.79	27.37	NA	NA	NA	NA	NA	NA
	Oct-02	39.16	13.50	25.68	NA	NA	NA	NA	NA	NA
	Jan-03	39.16	12.13	27.03	NA	NA	NA	NA	NA	NA
	May-03	39.16	10.84	28.32	NA	NA	NA	NA	NA	NA
	Jul-03	39.16	12.12	27.04	NA	NA	NA	NA	NA	NA
	Oct-03	39.16	13.48	25.68	NA	NA	NA	NA	NA	NA
	Jan-04	39.16	13.58	25.58	NA	NA	NA	NA	NA	NA
	Apr-04	39.16	13.90	25.26	NA	NA	NA	NA	NA	NA
	Aug-04	39.16	15.69	23.47	NA	NA	NA	NA	NA	NA
	Dec-04	39.16	14.85	24.31	NA	NA	NA	NA	NA	NA
	Mar-05	39.16	13.10	26.06	NA	NA	NA	NA	NA	NA
May-05	39.16	14.60	24.56	NA	NA	NA	NA	NA	NA	
Jul-05	39.16	15.10	24.06	NA	NA	NA	NA	NA	NA	

Table 1
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3609 International Boulevard, Oakland, California

Monitoring Well	Date	Top Of Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MtBE ² EPA 8260B (µg/L)
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Notes:

¹ Top of casing elevations were re-surveyed to comply with the EDF requirements for electronic reporting of data to the State Water Resources Control Board Database on August 9, 2002.

² MtBE was analyzed using the EPA Method 8021B and confirmed using 8260B.

C Presence confirmed, but confirmation concentration differed by more than a factor of two.

H: Heavier hydrocarbons may have contributed to the quantitation.

NA: Not Analyzed

NA: Not Applicable, Well/Drain did not exist at time of sampling

NC: Not calculated. No top of casing elevation was available for MW-11.

ND, <: Not Detected above laboratory reporting limits.

NM: Not Measured

NS: Not Surveyed.

Y: Sample exhibits fuel pattern which does not resemble standard.

FDC: French drain center riser.

FDE: French drain east riser.

FDW: French drain west riser.

Well MW-4R replaced damaged well MW-4 on April 11, 2005. The first time well MW-4R was monitored was in the Second Quarter 2005

NS: Not surveyed. Well MW-11 was not surveyed due to obstructions surrounding well.

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent and GAC-1					
		Reading (gallons)	(concentrations in ug/L)					
			MtBE ²	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes
2005								
Jul	7/7/2005	3,026,010	<0.5 <0.5	<200 <200	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
June	6/9/2005	3,000,386	<0.5 0.61	<200 <200	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
May	5/9/2005	2,971,430	<0.5 <0.5	<200 <200	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 <1.0
	5/4/2005	2,964,270	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel totalizer changed at meter reading of 2,189,270					
April	4/4/2005	2,904,500	<0.5 <0.5	<200 <200	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 <1.0
March	3/21/2005	2,874,170	<0.5 <0.5	<200 <200	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 <1.0
February	2/14/2005	2,828,000	55 Gallon Drum Changed Out					
	2/7/2005	2,819,000	<5.0 <5.0	<50 <50	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0
January	1/19/2005	2,775,000	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel					
	1/3/2005	2,730,480	3.6 3.8	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
2004								
December	12/6/2004	2,667,620	<0.5 <0.5	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 <1.0
November	11/8/2004	2,631,600	<0.5 <0.5	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
October	10/13/2004	2,606,420	< 2.0 <2.0	< 50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
September	9/13/2004	2,594,390	< 2.0 < 2.0	< 50 < 50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
August	8/25/2004	2,586,010	55 Gallon Drum Changed Out					
	8/9/2004	2,581,250	< 2.0 < 2.0	< 50 < 50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
July	7/13/2004	2,568,830	< 2.0 < 2.0	< 50 < 50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
	7/21/2004	2,564,710	55 Gallon Drum Changed Out					

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Total Xylenes
		Reading (gallons)	(concentrations in ug/L)		Benzene	Toluene	Ethylbenzene	
			MtBE ²	TPH-g				
June	6/14/2004	2,549,470	< 2.0	< 50	<0.5	<0.5	<0.5	<0.5
			< 2.0	< 50	<0.5	<0.5	<0.5	<0.5
May	5/26/2004	2,530,000	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel					
	5/10/2004	2,488,760	Semi Annual Treatment System Meeting With Ebmud					
	5/17/2004	2,518,910	Replaced 55-gallon polishing vessel and restarted the system					
	5/5/2004	2,500,650	Carbon Changed Out and 55 Gallon Drum Changed Out					
	5/3/2004	2,497,350	< 2.0	< 50	<0.5	<0.5	<0.5	<0.5
			< 2.0	< 50	<0.5	<0.5	<0.5	<0.5
April	4/15/2004	2,436,190	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
2003								
March	3/17/2004	2,376,200	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel					
February	2/24/2004	2,276,770	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
January	1/27/2004	2,165,220	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	1/13/2004	2,116,720	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
December	12/8/2003	2,092,330	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
November	11/17/2003	2,087,670	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	11/3/2003	2,079,460	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
October	10/13/2003	2,073,060	5.3	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	10/1/2003	2,072,610	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel					

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Total Xylenes
		Reading (gallons)	(concentrations in ug/L)					
			MtBE ²	TPH-g	Benzene	Toluene	Ethylbenzene	
September	9/15/2003	2,056,910	<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			6	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	9/2/2003	2,040,040	<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
August	8/19/2003	2,021,040	<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
July	7/21/2003	1,995,240	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			40	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	7/9/2003	1,990,260	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			36	< 50	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel								
June	6/18/2003	1,978,560	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
6/10/2003	1,972,780		< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
May	5/21/2003	1,951,830	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	5/1/2003	1,918,270	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
April	4/11/2003	1,882,440	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
replaced 55-gallon polishing vessel with new 55 gallon carbon drum								
March	3/19/2003	1,846,490	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
February	2/25/2003	1,804,960	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
2/19/2003	1,791,720		< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
January	1/27/2003	1,733,500	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	1/2/2003	1,675,600	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent and GAC-1					
		Reading (gallons)	(concentrations in ug/L)					
			MtBE ²	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes
2002								
December	12/10/2002	1,672,870	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
November	11/22/2002	1,668,650	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
	11/13/2002	1,664,780	replaced gasket on top of 2000 lb GAC vessel, slight leak was detected					
	11/7/2002	1,663,880	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel					
October	10/16/02 ³	1,661,590	< 310 < 0.5	2,000 Y Z < 50	< 310 < 0.5	< 310 < 0.5	< 310 < 0.5	< 310 < 0.5
September	9/19/2002	1,653,600	< 5 < 5	< 50 < 50	< 5 < 5	< 5 < 5	< 5 < 5	< 5 < 5
August	8/23/2002	1,641,650	1 < 0.5	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5
July	7/23/2002	1,632,834	<5.0 < 5.0	< 50 < 50	<5.0 < 5.0	<5.0 < 5.0	<5.0 < 5.0	<5.0 < 5.0
June	6/24/2002	1,610,050	1.7 < 0.5	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5
May	5/30/2002	1,571,630	< 0.5 < 0.5	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5
	5/20/2002	1,548,000	removed newly installed compressor, installed another compressor					
	5/8/2002	1,538,850	installed new compressor					
	5/1/2002	1,529,650	installed new 55 gallon GAC Vessel					
April	4/24/2002	1,528,740	< 0.5 < 0.5	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5
	4/1/2002	1,478,500	repaired valve plate assembly on compressor					
March	3/25/2002	1,478,420	performed carbon change-out on treatment system					
	3/18/2002	NR	replaced piston on compressor					
	3/14/2002	1,478,330	compressor not building up pressure					
February	2/27/2002	1,449,830	< 0.5 1.1	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5
January	1/22/2002	1,381,370	< 2.0 < 2.0	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Total Xylenes
		Reading (gallons)	(concentrations in ug/L)		Benzene	Toluene	Ethylbenzene	
			MtBE ²	TPH-g				
2001								
December	12/12/2001	1,311,340	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
November	11/2/2001	1,272,660	ND	ND	ND	ND	ND	ND
			0.6	ND	ND	ND	ND	ND
September	9/28/2001	NA	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
August	8/22/2001	1,243,100	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
July	7/26/2001	1,227,270	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
	7/11/2001	1,226,730	NA	NA	NA	NA	NA	NA
June	6/29/2001	1,224,600	NA	NA	NA	NA	NA	NA
			ND	ND	ND	ND	ND	ND
	6/26/2001	NR	installed new compressor					
	6/16/2001	1,216,580	NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
6/7/2001	1,216,580	compressor not working, repaired compressor						
May	5/30/2001	1,205,198	NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
	5/23/2001	1,194,390	NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
	5/17/2001	1,182,360	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
	5/10/2001	1,166,850	NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
5/5/2001	1,151,600	NA	NA	NA	NA	NA	NA	
		NA	NA	NA	NA	NA	NA	
April	4/28/2001	1,135,690	NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
	4/21/2001	1,113,570	NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
	4/11/2001	1,082,700	NA	ND	ND	ND	ND	ND
ND			ND	ND	ND	ND	ND	
4/6/2001	1,065,540	NA	NA	NA	NA	NA	NA	
			NA	NA	NA	NA	NA	NA

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent and GAC-1					
		Reading (gallons)	(concentrations in ug/L)					
			MtBE ²	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes
March	3/29/2001	1,036,330	NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
			system was re-started					
	3/21/2001	1,036,070	NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
			belt replaced on compressor					
	3/17/2001	1,035,100	NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
	3/13/2001	1,032,500	ND	ND	ND	ND	ND	ND
			NA	NA	NA	NA	NA	NA
	3/2/2001	996,520	NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
	3/1/2002	NR	system re-started after carbon change-out					
February	2/28/2002	NR	Carbon Change-out was performed on GAC-1, washed algae from holding tank cleaned 2000 lb GAC, re-started system					
	2/10/2001	975,490	System shut down for maintenance and cleaning.					
January	1/29/2001	957,880	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
2000								
December	12/5/2000	883,000	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
November	11/24/2000	NR	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
	11/1/2000	842,000	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter Reading (gallons)	Lab Results For Effluent and GAC-1 (concentrations in ug/L)					Total Xylenes
			MtBE ²	TPH-g	Benzene	Toluene	Ethylbenzene	
October	10/1/2000	809,000	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
August	8/27/2000	781,000	ND	ND	ND	ND	ND	ND
	8/24/2000	778,000	totalizer changed at meter reading of 775,000					
July	7/26/2000	726,000	ND	ND	ND	ND	ND	ND
	7/19/2000	718,000	ND	ND	ND	ND	ND	ND
	7/13/2000	712,000	ND	ND	ND	ND	ND	ND
	7/7/2000	706,000	ND	ND	ND	ND	ND	ND
June	6/29/2000	700,000	ND	ND	ND	ND	ND	ND
	6/21/2000	682,220	ND	ND	ND	ND	ND	ND
	6/16/2000	669,720	ND	ND	ND	ND	ND	ND
	6/10/2000	651,200	ND	ND	ND	ND	ND	ND
May	5/31/2000	629,000	ND	ND	ND	ND	ND	ND
	5/23/2000	603,700	ND	ND	ND	ND	ND	ND
	5/18/2000	570,000	ND	ND	ND	ND	ND	ND
	5/10/2000	530,400	ND	ND	ND	ND	ND	ND
April	4/30/2000	488,300	ND	ND	ND	ND	ND	ND
	4/18/2000	485,300	ND	ND	ND	ND	ND	0.51
			compressor stopped, system shut down until April 29, 2000					
	4/10/2000	440,200	ND	ND	ND	ND	ND	ND
	4/4/2000	390,100	ND	ND	ND	ND	ND	ND
	4/2/2000	NR	performed a carbon change-out on GAC-1					
March	3/31/2000	NR	replaced GAC-2 with a special GAC designed for removal of MIBE					
	3/24/2000	388,000	ND	ND	ND	ND	ND	ND
	3/17/2000	357,100	ND	ND	ND	ND	ND	ND
	3/10/2000	329,000	ND	ND	ND	ND	ND	ND
	3/3/2000	300,000	transfer overheated, repaired pump, restarted system 3/6/00					
February	2/25/2000	274,000	ND	ND	ND	ND	ND	ND
	2/18/2000	233,000	ND	ND	ND	ND	ND	ND
	2/11/2000	190,000	ND	ND	ND	ND	ND	ND
	2/4/2000	160,800	ND	ND	ND	ND	ND	ND
January	1/28/2000	130,600	ND	ND	ND	ND	ND	ND
	1/21/2000	103,435	ND	ND	ND	ND	ND	ND
	1/17/2000	NR	GAC-1 was replaced with 2,000 lb GAC unit second polishing GAC was replaced with 55 gallon GAC unit					
	1/14/2000	83,500	185	ND	ND	ND	ND	ND

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

		Meter	Lab Results For Effluent ¹ and GAC-1					
		Reading	(concentrations in ug/L)					
Month	Date	(gallons)	MTBE ²	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes
1999								
December	12/23/1999	51,680	1486	NA	ND	ND	ND	ND
			ND	NA	ND	ND	ND	ND
	12/16/1999	30,450	963	NA	ND	ND	ND	ND
			ND	NA	ND	ND	ND	ND
	12/9/1999	9,000	230	ND	ND	ND	ND	ND
Pumping began on December 6, 1999								

Notes:

- 1 Effluent is equivalent to PSP#1
- 2 MTBE was analyzed using EPA Method 8260B, prior to the September 2003. After September 2003, MTBE was only analyzed by EPA Method 8021B.
- 3 Lab data as shown for Oct. 2002 is erroneous data. During lab analysis a high detection of 2-Butanone was detected in only the effluent sample. The influent sample for 2-Butanone was at only 20 ppb. This caused a high dilution factor causing a high non-detectable value. The high TPH-g value was misrepresentative due to the Y and Z flags.

ND, < : Not Detected above laboratory reporting limits

NA: Not Analyzed

NR: Not recorded. Totalizer reading not recorded.

Y: Sample exhibits fuel pattern which does not resemble standard

Z: Sample exhibits unknown single peak or peaks

Table 3
Total Mass of Petroleum Hydrocarbons Removed
by the Vapor Extraction System & Historical Operational Data
3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Mass Removed ¹ (Pounds)
		Influent	Effluent				
7/24/2000	5:00 PM	394	0	85	0.0	0	0.00
7/25/2000	5:15 PM	38	2	95	24.3	3,911,768	1.35
7/26/2000	5:05 PM	207	1	80	24.0	3,260,160	6.15
7/27/2000	9:00 AM	160	5	92	16.0	2,499,456	3.64
7/28/2000	4:30 PM	141	7	87	31.5	4,653,369	5.98
7/29/2000	1:30 PM	225	8	85	21.0	3,030,930	6.21
7/30/2000	9:00 AM	226	12	85	19.5	2,814,435	5.79
7/31/2000	3:00 PM	141	5	85	30.0	4,329,900	5.56
8/1/2000	5:00 PM	135	4	80	26.0	3,531,840	4.34
8/2/2000	4:00 PM	80	4	80	23.0	3,124,320	2.28
8/3/2000	5:00 PM	60	5	85	25.0	3,608,250	1.97
8/4/2000	3:00 PM	57	4	85	22.0	3,175,260	1.65
8/5/2000	2:00 PM	97	8	87	23.0	3,397,698	3.00
8/6/2000	12:00 PM	114	8	80	22.0	2,988,480	3.10
8/7/2000	12:00 PM	93	9	85	24.0	3,463,920	2.93
8/8/2000	4:30 PM	152	10	85	16.5	2,381,445	3.30
8/10/2000	10:00 AM	173	1	85	41.5	5,989,695	9.44
8/11/2000	7:00 AM	78	4	70	21.0	2,496,060	1.77
8/12/2000	9:00 AM	100	6	70	26.0	3,090,360	2.82
8/13/2000	5:00 PM	107	9	70	34.0	4,041,240	3.94
8/14/2000	12:30 PM	122	5	70	19.5	2,317,770	2.58
8/15/2000	6:00 PM	103	12	70	17.5	2,080,050	1.95
8/16/2000	12:30 PM	112	0	70	18.5	2,198,910	2.24
8/18/2000	9:00 AM	90	0	75	44.5	5,667,075	4.65
8/21/2000	12:00 PM	74	5	80	75.0	10,188,000	6.87
8/24/2000	12:00 PM	68	13	80	72.0	9,780,480	6.06
8/27/2000	12:30 PM	68.5	2	80	72.5	9,848,400	6.15
8/31/2000	1:30 PM	52	6	80	97.0	13,176,480	6.24
9/4/2000	12:30 PM	54	5	80	95.0	12,904,800	6.35
9/7/2000	12:00 PM	55	3	80	71.5	9,712,560	4.87
9/11/2000	4:30 PM ²	141	0	80	100.5	13,651,920	17.54
9/14/2000	9:30 AM	56	5	80	65.0	8,829,600	4.50
9/18/2000	2:00 PM	46	9.5	80	101.5	13,787,760	5.78
9/18/2000	4:30 PM ³	34	0	80	2.5	339,600	0.11
9/21/2000	4:30 PM	43	1	80	72.0	9,780,480	3.83
9/25/2000	5:30 PM	55	6	80	97.0	13,176,480	6.60
9/28/2000	9:00 AM	47.5	7.5	80	63.5	8,625,840	3.73

Table 3
Total Mass of Petroleum Hydrocarbons Removed
by the Vapor Extraction System & Historical Operational Data
3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Mass Removed ¹ (Pounds)
		Influent	Effluent				
10/1/2000	1:00 PM	38.5	6	80	76.0	10,323,840	3.62
10/5/2000	3:00 PM ⁴	28.5	3	80	98.0	13,312,320	3.46
10/5/2000	5:00 PM	36	0	80	2.0	271,680	0.09
10/8/2000	3:00 PM	28.5	3	80	70.0	9,508,800	2.47
10/14/2000	3:00 PM	24.5	2.5	80	144.0	19,560,960	4.37
10/17/2000	2:00 PM	36.5	3.5	80	71.0	9,644,640	3.21
10/20/2000	8:30 AM	18.5	3.5	80	66.5	9,033,360	1.52
10/25/2000	2:00 PM	38	3.7	80	125.5	17,047,920	5.90
10/29/2000	10:00 AM	35	4	80	93.0	12,633,120	4.03
11/2/2000	4:00 PM	30.5	4	80	102.0	13,855,680	3.85
11/7/2000	4:00 PM	30	6	80	120.0	16,300,800	4.46
11/19/2000	12:00 PM	92.7	5.5	80	284.0	38,578,560	32.57
11/24/2000	1:30 PM	25	6.5	80	121.5	16,504,560	3.76
11/29/2000	3:00 PM	14.5	3.5	80	121.5	16,504,560	2.18
12/4/2000	4:30 PM	10.7	1	80	121.5	16,504,560	1.61
12/13/2000	3:30 PM	24	3	80	263.0	35,725,920	7.81
12/28/2000	2:30 PM	10	6	85	359.0	51,814,470	4.72
2001							
1/4/2001 ⁵	2:00 PM	8.7	3.7	85	167.5	24,175,275	1.92
8/8/2001	3:00 PM	217	0	85	0.5	72,165	0.14
9/6/2001	12:00 PM	85	0	85	693.0	100,020,690	77.45
9/13/2001	4:00 PM	186	8	85	172.0	24,824,760	42.07
9/18/2001	3:00 PM	184	9	85	119.0	17,175,270	28.79
9/21/2001 ⁶		--	--	--	NC	NC	NC
10/12/01 ⁷		--	--	--	NC	NC	NC
10/23/2001	5:00 PM	114	58	87	0.5	73,863	0.08
10/25/01 ⁴	3:00 PM	133	0	85	46.0	6,639,180	8.04
10/29/2001 ⁸	1:20 PM	569	0	85	94.5	13,639,185	70.70
11/7/2001	3:30 PM	177	0	87	218.0	32,204,268	51.93
11/16/2001	3:00 PM	117	0	87	215.5	31,834,953	33.93
11/21/01 ⁹	12:00 PM	85	72	87	117.0	17,283,942	13.38
2002							
2/15/02 ¹⁰	4:30 PM	49	0	80	0.5	67,920	0.03
2/16/2002	3:45 PM	50	0	80	23.3	3,158,280	1.44
2/21/2002	4:00 PM	37	4	80	120.3	16,334,760	5.51
2/27/2002	10:30 AM	11	0	83	138.5	19,519,359	1.96
3/7/02 ¹¹	12:20 PM	10		80	194.0	26,352,960	2.40
2003							
6/12/2002 ¹²	4:15 PM	53	2	75	NA	NA	NA
6/17/2002	11:00 AM	28	2	80	120.0	16,306,560	4.16
6/24/2002	11:20 AM	24	3.1	80	168.3	22,866,400	5.00

Table 3
Total Mass of Petroleum Hydrocarbons Removed
by the Vapor Extraction System & Historical Operational Data
3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Mass Removed ¹ (Pounds)	
		Influent	Effluent					
7/5/2002	1:25 PM	20	5	80	266.0	36,133,440	6.58	
7/11/2002	3:30 PM	26	8.0	80	146.0	19,832,640	4.70	
7/23/2002	10:10 AM	28	7.5	83	282.8	39,849,089	10.16	
8/9/2002	12:20 PM	7.5	0	80	410.3	55,728,360	3.81	
8/15/2002 ¹¹	3:00 PM	7.0	1	80	146.5	19,900,560	1.27	
8/23/2002 ¹³	3:20 PM	NC	NC	NC	NC	NC	NC	
8/26/2002	11:15 AM	14.0	2.0	80	71.8	9,757,387	1.24	
9/11/2002	10:10 AM	34.4	0	80	383.0	52,020,588	16.30	
9/19/2002	10:55 AM	8.8	1.1	80	192.8	26,183,160	2.10	
9/25/2002	10:30 AM	18.8	1.8	80	143.5	19,493,040	3.34	
10/2/2002	8:10 AM	17.1	2.5	80	165.70	22,508,688	3.51	
10/9/2002		PID malfunction		80	NC	NC	NC	
10/16/2002	1:45 PM	17.0	4.0	80	341.50	46,389,360	7.18	
10/24/2002	10:00 AM	16.5	6.4	80	188.25	25,571,880	3.84	
11/1/2002	10:00 AM	21.1	0.0	85	192.00	27,711,360	5.33	
11/6/2002	10:12 AM	PID malfunction		87	NC	NC	NC	
11/7/2002	11:00 AM	17.5	0.0	85	24.75	3,572,168	0.57	
11/13/2002	11:30 AM	15.0	0.0	85	144.50	20,855,685	2.85	
11/22/2002	2:30 PM	6.6	0.0	80	219.00	29,748,960	1.79	
11/22/2002	system shut-down due to rainy season and low influent readings							
2003								
5/9/2003	10:30 AM	0.1	0.0	82	0.5	69,618	0.00	
5/12/2003	10:30 AM	0.4	0.3	85	72.00	10,391,760	0.04	
5/21/2003	11:00 AM	2.2	2.2	83	216.50	30,512,211	0.61	
6/4/2003	10:30 AM	2.5	0.1	82	335.50	46,713,678	1.06	
6/10/2003	10:30 AM	2.2	0.08	82	144.00	20,049,984	0.40	
6/16/2003	12:15 PM	2.1	0.07	82	146.25	20,363,265	0.39	
6/24/2003	4:55 PM	2.6	0.08	82	196.75	27,394,683	0.65	
6/30/2003	11:30 AM	2.2	0.1	82	138.50	19,284,186	0.39	
7/16/2003	12:00 PM	2.2	0.22	82	384.50	53,536,242	1.07	
7/21/2003	10:50 AM	2.1	0.21	82	119.00	16,569,084	0.32	
7/28/2003	11:15 AM	2.2	0.22	82	168.25	23,426,457	0.47	
8/11/2003	12:15 PM	2.1	0.21	82	337.00	46,922,532	0.90	
8/19/2003	10:05 AM	2.1	0.22	82	190.00	26,454,840	0.51	
8/25/2003	11:30 AM	2.2	0.23	81	169.50	23,312,691	0.47	
9/2/2003	10:50 AM	2.1	0.21	80	192.00	26,081,280	0.50	
9/8/2003	2:10 PM	9.1	3.19	83	147.30	20,759,578	1.72	
9/11/2003	10:00 AM	All 4 SVE carbon drums changed-out						
9/22/2003	1:30 PM	7	0.2	88	334.25	49,944,972	3.19	

Table 3
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3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Mass Removed ¹ (Pounds)
		Influent	Effluent				
10/1/2003	10:30 AM	6.5	0.2	85	213.00	30,742,290	1.82
10/6/2003	11:00 AM	7	0.3	85	120.50	17,391,765	1.11
10/13/2003	11:15 AM	5	0.2	85	168.25	24,283,523	1.11
10/29/2003	10:00 AM	2.4	0	85	382.75	55,242,308	1.21
11/3/2003	11:30 AM	3	0	85	121.50	17,536,095	0.48
11/10/2003	11:10 AM	3.5	0	85	167.67	24,199,330	0.77
11/17/2003	1:50 PM	4.1	0	85	170.70	24,637,131	0.92
11/24/2003	11:00 AM	3.8	0	85	165.20	23,843,316	0.83
11/24/2003	system shut-down due to rainy season and low influent readings						
2004							
4/5/2004	1:00 PM	5.6	0.11	85	0.5	72165	0.004
4/12/2004	10:30 AM	6.5	0.2	83	165.5	23,324,577	1.38
4/20/2004	12:00 PM	7.1	0.9	84	193.5	27,599,292	1.79
4/23/2004	11:00 AM	7.2	2.3	80	71	9,644,640	0.63
5/3/2004	12:00 PM	7.1	3.4	80	241	32,737,440	2.12
5/5/2004	11:00 PM	All 4 SVE carbon drums changed-out					
5/17/2004	12:00 PM	2.7	0.8	82	336	46,783,296	1.15
5/26/2004	11:00 AM	3.8	0.5	82	215	29,935,740	1.04
6/1/2004	1:00 PM	3.6	0.9	82	122	16,986,792	0.56
6/7/2004	11:50 AM	3.2	0	82	142.9	19,896,824	0.58
6/14/2004	11:50 AM	10.9	0	86	168	24,532,704	2.44
6/21/2004	10:50 AM	13.5	0	83	167	23,535,978	2.89
6/28/2004	11:50 AM	10.9	0.5	85	169	24,391,770	2.42
7/2/2004	11:30 AM	8.7	0	85	95.8	13,826,814	1.10
7/13/2004	2:00 PM	9.1	0.22	85	266.5	38,463,945	3.19
7/21/2004	12:00 PM	8.9	0.5	85	190	27,422,700	2.22
7/26/2004	11:50 AM	8.5	0.4	85	119.5	17,247,435	1.34
8/2/2004	11:30 AM	4.9	0.1	85	167.8	24,218,574	1.08
8/9/2004	11:50 AM	5.6	0.2	85	168.3	24,290,739	1.24
8/16/2004	12:00 PM	6	0.4	85	168.1	24,261,873	1.33
8/24/2004	11:50 AM	6.2	1.2	85	191.9	27,696,927	1.56
8/30/2004	11:30 AM	6	0.4	85	143.66	20,734,448	1.13
9/7/2004	1:05 PM	5.5	0.8	85	193.5	27,927,855	1.40
9/13/2004	12:05 PM	5.3	0.9	85	143	20,639,190	1.00
9/20/2004	11:08 AM	7	2.9	85	167	24,103,110	1.54
9/27/2004	2:50 PM	6.5	2.1	85	171.75	24,788,678	1.47

Table 3
Total Mass of Petroleum Hydrocarbons Removed
by the Vapor Extraction System & Historical Operational Data
3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Mass Removed ¹ (Pounds)
		Influent	Effluent				
10/4/2004	11:30 AM	6.9	3	85	164.55	23,749,502	1.49
10/13/2004	10:30 AM	6.5	2.9	85	215	31,030,950	1.84
10/18/2004	2:30 PM	6	1.5	85	124	17,896,920	0.98
10/28/2004	2:00 PM	3.1	0.9	85	239.5	34,567,035	0.98
10/28/2004	system shut-down due to rainy season and low influent readings						
2005							
4/11/2005	system re-started, all four vapor phase carbon drums replaced with new carbon						
4/18/2005	10:50 AM	6.5	0.8	85	167.83	24,223,481	1.43
4/25/2005	5:30 PM	6	0.7	85	174.33	25,161,626	1.38
5/4/2005	11:20 AM	0.4	0	85	209.83	30,285,341	0.11
5/9/2005	11:00 AM	1	0.4	85	119.67	17,271,538	0.16
5/16/2005	10:15 AM	3	0	85	167.25	24,139,193	0.66
5/23/2005	11:05 AM	0.4	0	90	168.83	25,801,110	0.09
6/3/2005	3:30 PM	0.2	0	90	268.48	41,029,114	0.07
6/9/2005	3:00 PM	0.2	0	90	143.50	21,929,670	0.04
6/15/2005	2:15 PM	1	0	85	143.25	20,675,273	0.19
6/20/2005	12:00 PM	0.6	0	88	117.75	17,594,676	0.10
6/26/2005	12:00 PM	0.5	0	85	144.00	20,783,520	0.09
7/7/2005	2:45 PM	0.2	0	90	266.75	40,764,735	0.07
7/11/2005	3:00 PM	0.3	0	90	96.25	14,708,925	0.04
7/18/2005	1:00 PM	1	0	85	166.00	23,958,780	0.22
7/25/2005	12:00 PM	1.5	0	87	167.00	24,670,242	0.34
8/1/2005	1:30 PM	1	0	85	169.50	24,463,935	0.22
Total Mass of Petroleum Hydrocarbons Removed =							746.40
Average Daily Removal Rate (pounds / day)=							0.41

Notes:

- ¹ The representative molecular weight of hydrocarbons was assumed to be 150 gram/mole and used the measured temperature of Vapor (25 °C) in converting ppm-v to ppm on mass basis.
- ² System accidentally shut down from main box, readings taken 30 minutes after startup.
- ³ GAC Replaced
- ⁴ GAC-1 removed, new GAC installed at effluent end
- ⁵ SVE System turned off for rainy season due to low influent concentrations
- ⁶ system down, hoses disconnected and GAC moved for replacement
- ⁷ system down for electrical repair
- ⁸ Carbon change-out of three drums, moved new effluent drum on 10/25/01 to GAC-1
- ⁹ system shut-down due to high effluent value
- ¹⁰ System re-started (since November 21, 2001), installed new 4-55 gallon vapor phase carbon vessels, repaired blower
- ¹¹ System was shut-down due to low influent reading
- ¹² System was restarted on 6/12/02
- ¹³ System was re-started but no readings were taken

NC: Not Calculated

Calculations

Airflow: Flowrate (ft³/min) * 60 min * Time Elapsed (hrs) * 28.3 liters/ft³

Mass Removed: Time Elapsed (hrs) * 60 min * Flowrate (ft³/min) * (28.3 m³/ft³) * ((PID reading * (102 grams TPH-g /mole) * (1 mole / 24.4 L)) * (1/1000 m³)) * (1 lb/454 grams)

FIGURES

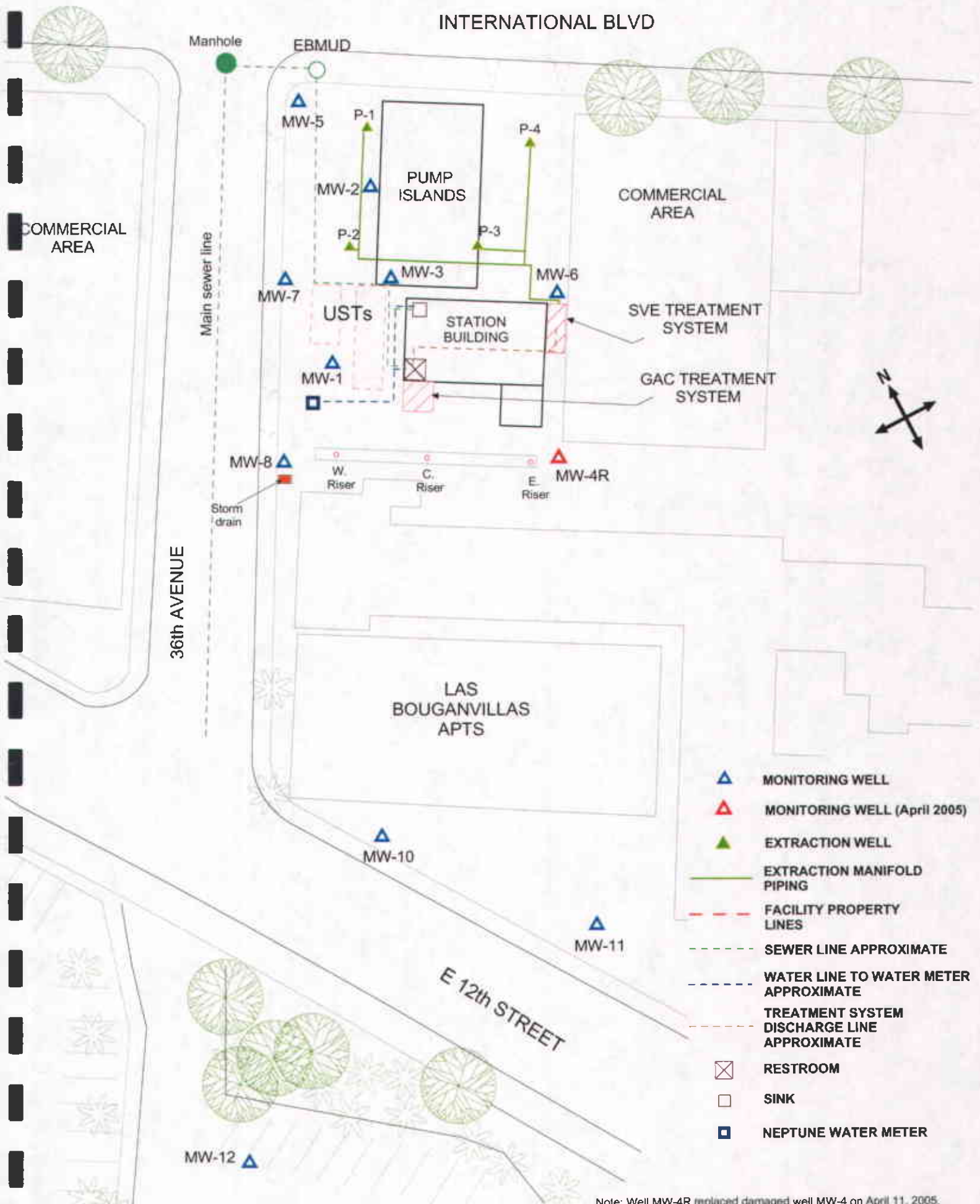


approximate scale in feet

0 150 300

Figure 1: Site vicinity map.

INTERNATIONAL BLVD



- ▲ MONITORING WELL
- ▲ MONITORING WELL (April 2005)
- ▲ EXTRACTION WELL
- EXTRACTION MANIFOLD PIPING
- - - FACILITY PROPERTY LINES
- - - SEWER LINE APPROXIMATE
- - - WATER LINE TO WATER METER APPROXIMATE
- - - TREATMENT SYSTEM DISCHARGE LINE APPROXIMATE
- X RESTROOM
- SINK
- NEPTUNE WATER METER

Note: Well MW-4R replaced damaged well MW-4 on April 11, 2005.

Approximate scale in feet
 0 20 40

Figure 2: Site map showing location of groundwater monitoring wells, French drain, SVE system, and GAC system.



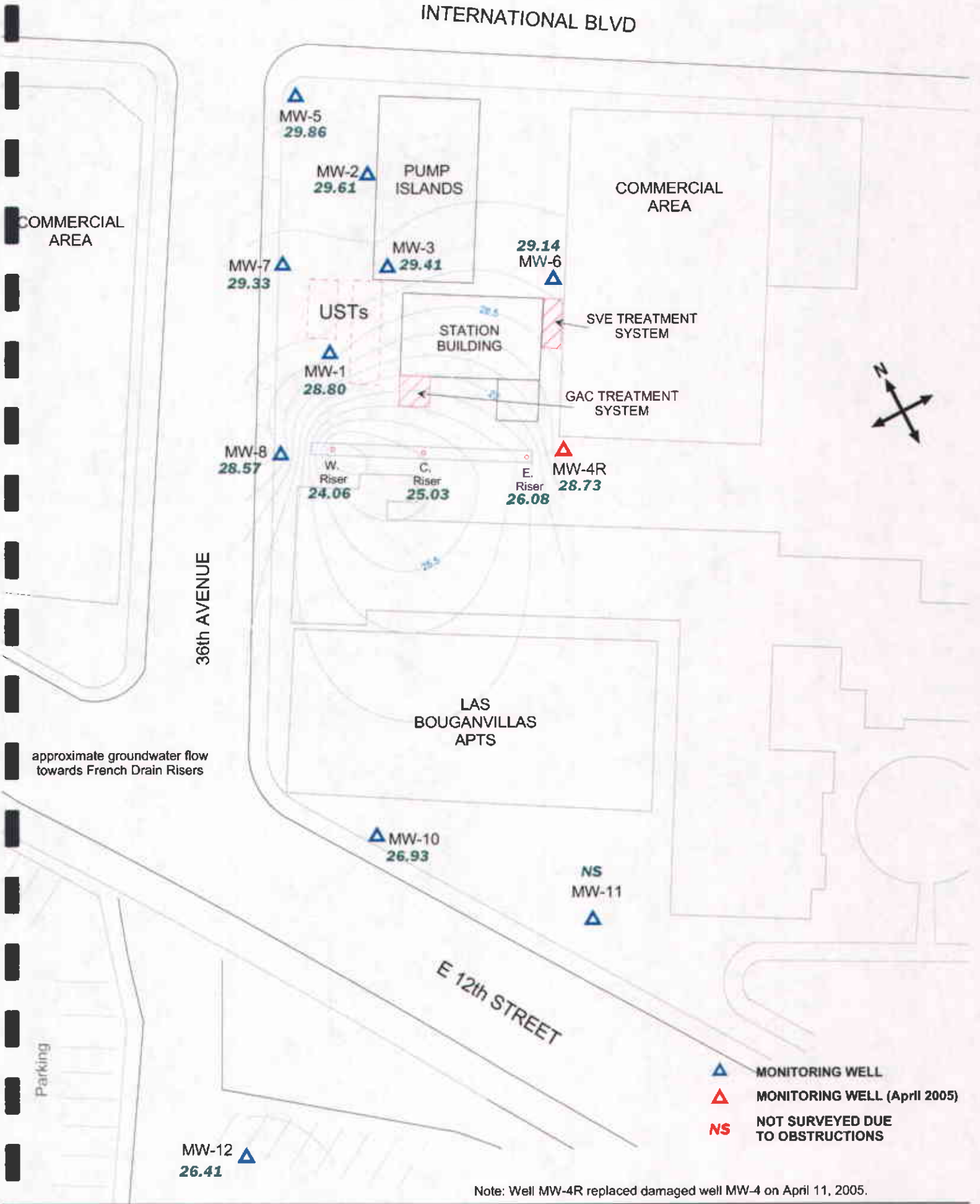
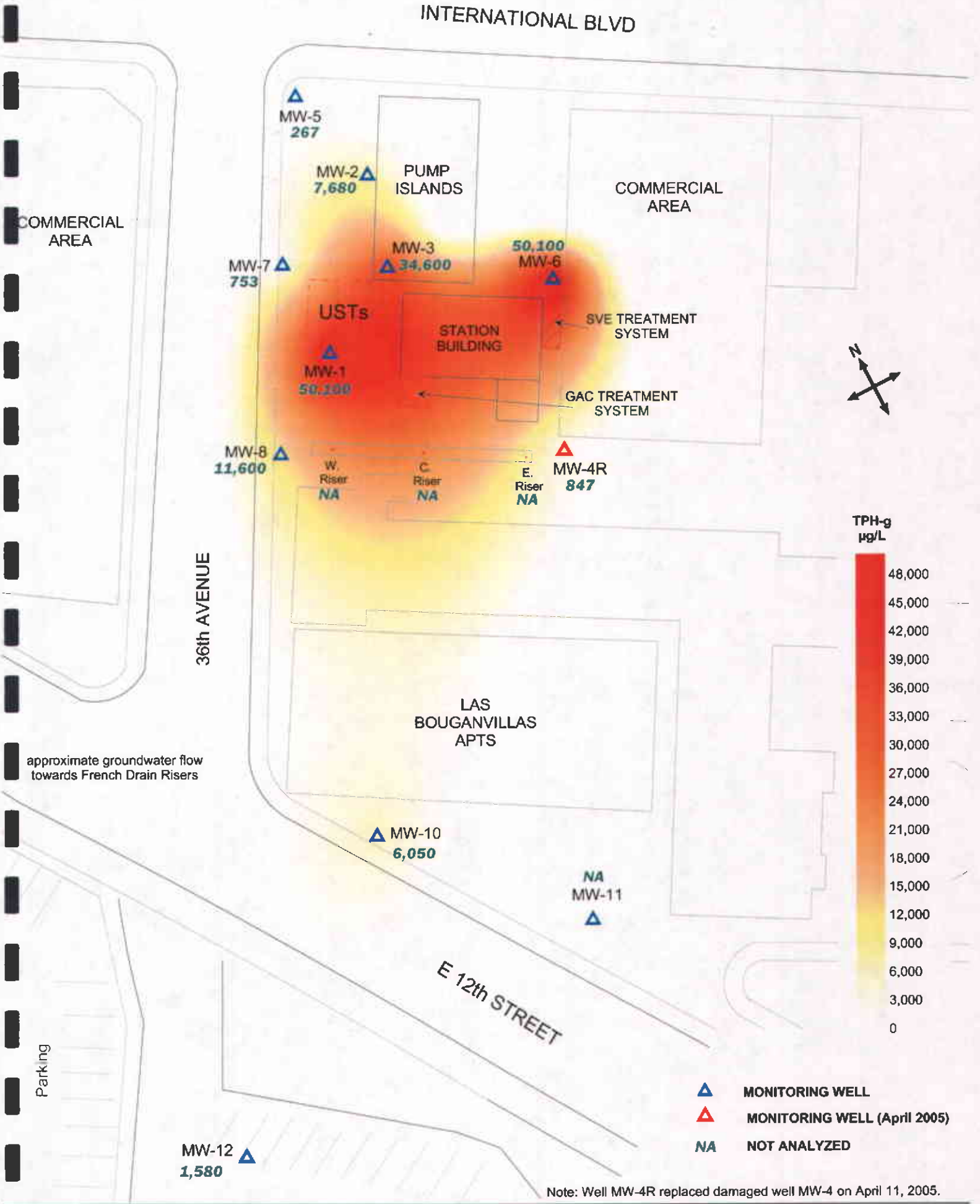


Figure 3: Groundwater elevation contour map in feet. July 2005.



COMMERCIAL AREA

INTERNATIONAL BLVD

MW-5
267

MW-2
7,680

PUMP ISLANDS

COMMERCIAL AREA

MW-3
34,600

50,100
MW-6

MW-7
753

USTs

STATION BUILDING

SVE TREATMENT SYSTEM

MW-1
50,100

GAC TREATMENT SYSTEM

MW-8
11,600

W. Riser
NA

C. Riser
NA

E. Riser
NA

MW-4R
847

36th AVENUE

LAS BOUGANVILLAS APTS

MW-10
6,050

NA
MW-11

E 12th STREET

MW-12
1,580

approximate groundwater flow towards French Drain Risers

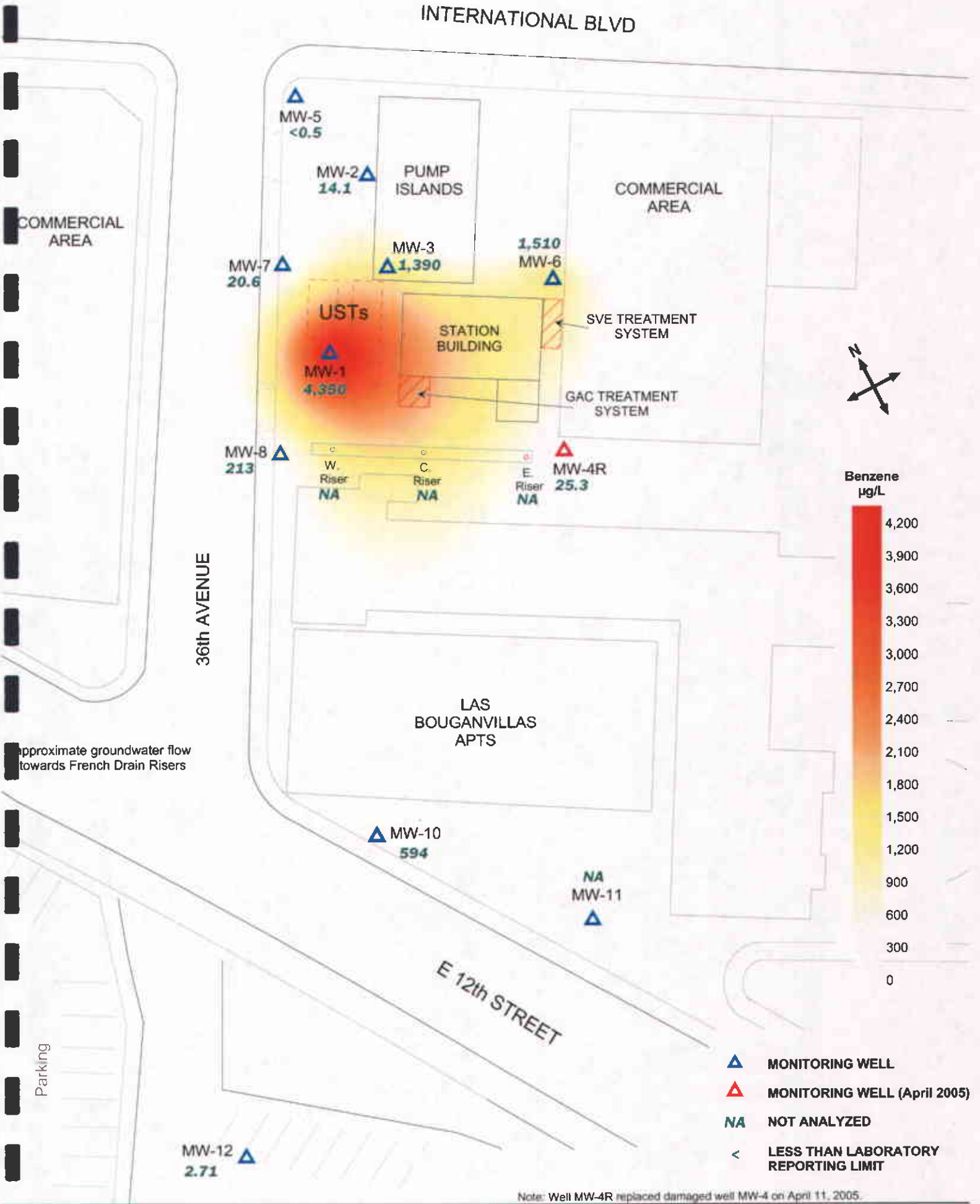
Parking

approximate scale in feet



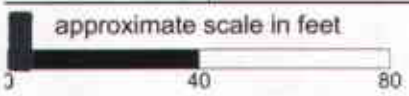
Figure 4: Contour map of TPH-g concentrations in the groundwater. July 2005.

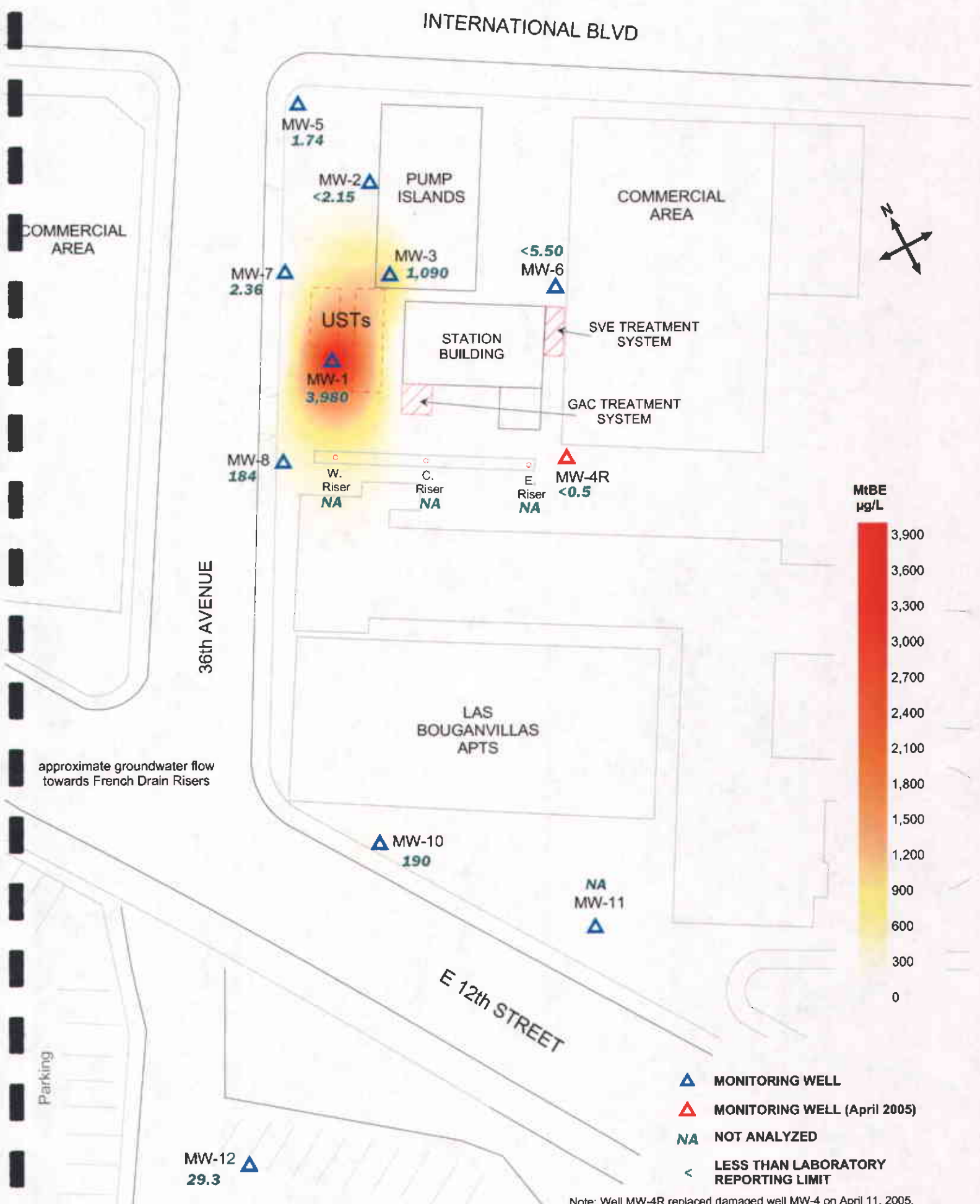




Note: Well MW-4R replaced damaged well MW-4 on April 11, 2005.

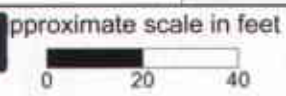
Figure 5: Contour map of Benzene concentrations in the groundwater. July 2005.





Note: Well MW-4R replaced damaged well MW-4 on April 11, 2005.

Figure 6: Contour map of MtBE concentrations in the groundwater (EPA Method 8260 B). July 2005.



approximate groundwater flow towards French Drain Risers

Parking

COMMERCIAL AREA

INTERNATIONAL BLVD

36th AVENUE

E 12th STREET

USTs

STATION BUILDING

COMMERCIAL AREA

PUMP ISLANDS

SVE TREATMENT SYSTEM

GAC TREATMENT SYSTEM

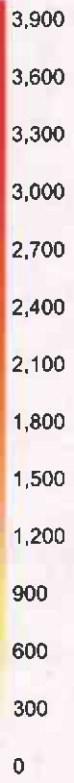
LAS BOUGANVILLAS APTS

W. Riser

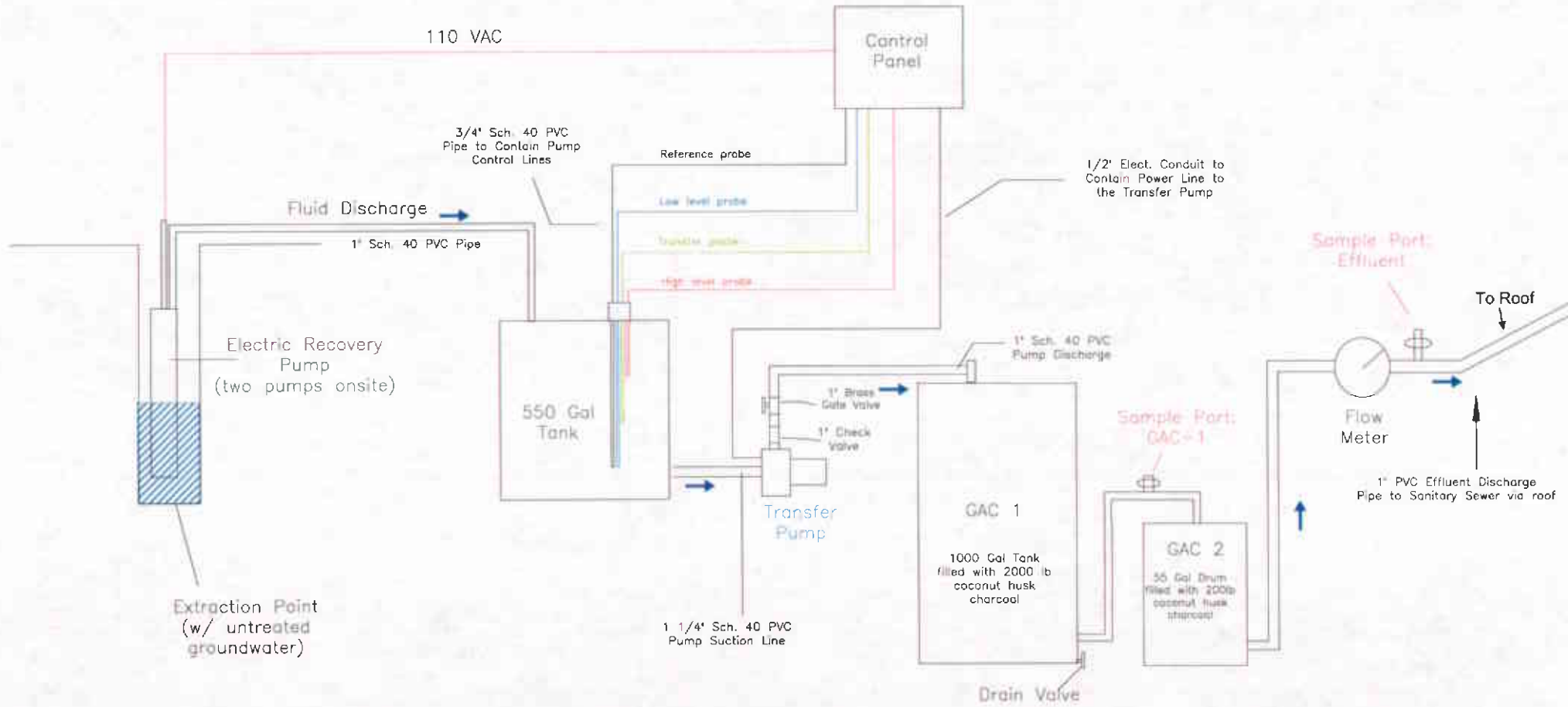
C. Riser

E. Riser

MtBE µg/L



- ▲ MONITORING WELL
- ▲ MONITORING WELL (April 2005)
- NA NOT ANALYZED
- < LESS THAN LABORATORY REPORTING LIMIT



(Discharge permit No: 504-27421)
 Tony's Express Auto Service. November 14, 2006 permit expires

Figure 7: Schematic of the Groundwater Remediation System.
 3609 International Blvd., Oakland, CA



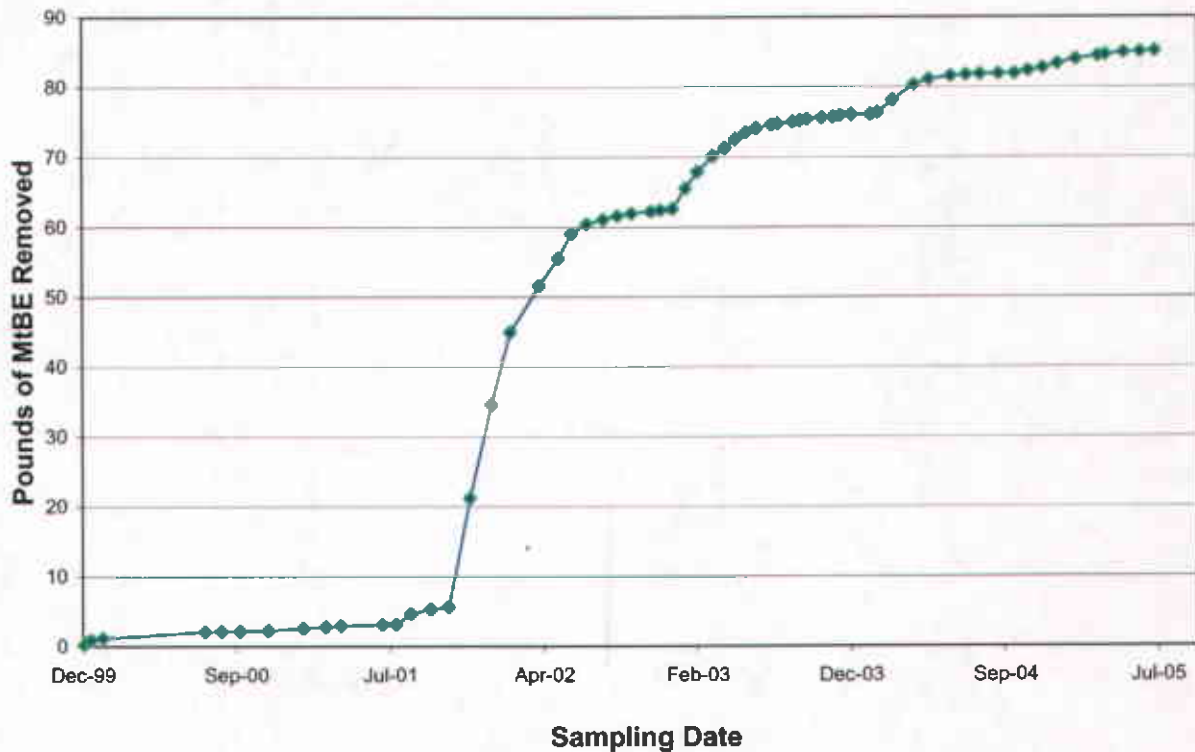
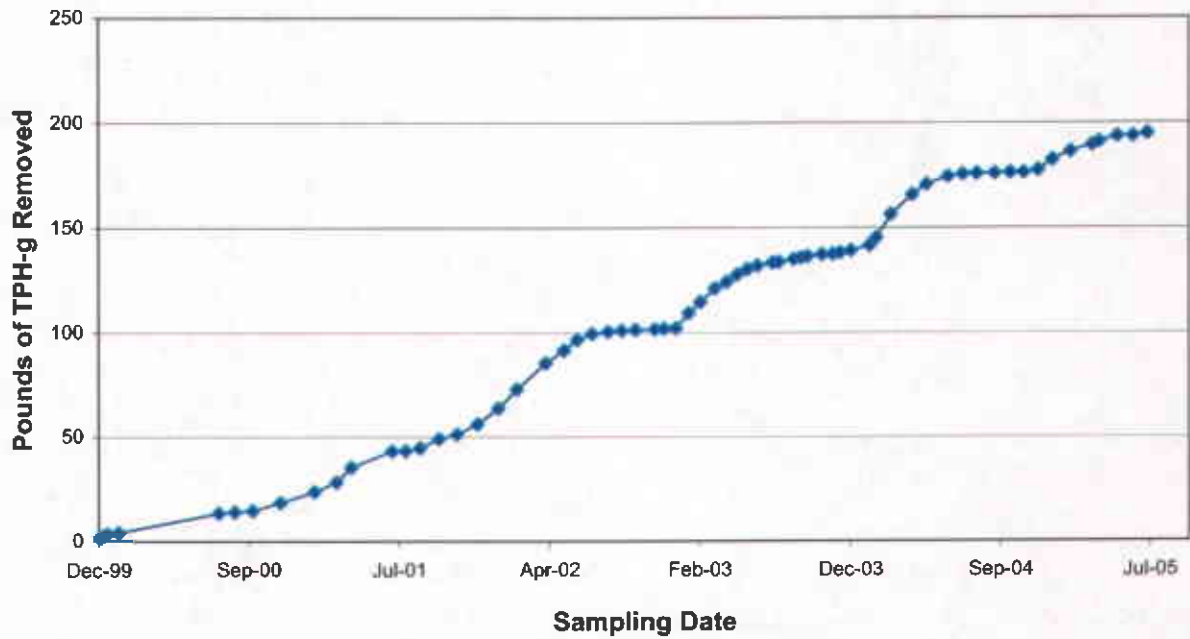


Figure 8. Cumulative mass of TPH-g and MtBE removed from groundwater since the installation of the treatment system.

APPENDIX A

SOMA's Groundwater Monitoring Procedures

Field Activities

On July 14 and 15, 2005, SOMA's field crew conducted a groundwater monitoring event in accordance with the procedures and guidelines of the RWQCB, San Francisco Bay Region. During this groundwater monitoring event a total of eight on-site monitoring wells (MW-1 to MW-8), two off-site monitoring wells (MW-10 and MW-12), and three on-site French drain risers were measured for depth to groundwater. Field measurements and grab groundwater samples were collected from all on and off-site monitoring wells.

The depth to groundwater in each monitoring well and riser was measured from the top of the casing to the nearest 0.01 foot using an electric sounder. The top of the casing elevation data and the depth to groundwater in each monitoring well and riser were used to calculate the groundwater elevation.

Kier and Wright Civil Engineers Surveyors, Inc. surveyed the wells and risers on August 9, 2002. At the time of the survey, monitoring well MW-11 could not be accessed due to obstacles preventing the proper use of surveying equipment; therefore, this well was not surveyed. The top of casing elevations were based on the survey data measured at this time. The elevation data was based on a datum of 14.20 NAVD88. The new survey was conducted to comply with an Electronically Deliverable Format (EDF) request made by the State Water Resources Control Board (SWRCB) Database.

Harrington Surveys, Inc. surveyed the newly installed well MW-4R on April 20, 2005. The elevation data for well MW-4R was referenced from wells MW-5 and MW-7. The survey data measured by Kier and Wright and Harrington Surveys are both presented in Appendix B.

Prior to collecting samples, each well was purged using a battery operated 2-inch diameter pump (Model ES-60 DC). During the purging activities, in order to obtain accurate measurements of groundwater parameters and especially to avoid the intrusion of oxygen from ambient air into the groundwater samples, field measurements were conducted in-situ (i.e., down-hole inside each monitoring well). The groundwater parameters such as DO, pH, temperature, EC, turbidity, and the ORP were measured in-situ using a Horiba, Model U-22 multi-parameter instrument. The equipment was calibrated at the Site using standard solutions and procedures provided by the manufacturer.

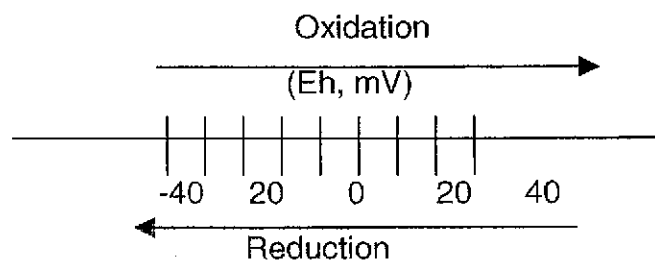
The pH of groundwater has an effect on the activity of microbial populations in the groundwater. The groundwater temperature affects the metabolic activity of bacteria. The groundwater conductivity (EC) is directly related to the concentration of ions in solution.

There is a strong correlation between the turbidity level and the biological oxygen demand of natural water bodies. The main purpose for checking the turbidity

level is to provide a general overview of the extent of the suspended solids in the groundwater.

ORP (oxidation reduction potential) is the measure of the potential for an oxidation or reduction process to occur. In the oxidation process a molecule or ion loses one or several electrons. In the reduction process a molecule or ion gains one or several electrons. The unit of the redox potential is the Volt or m-Volt. The most important redox reaction in petroleum-contaminated groundwater is the oxidation of petroleum hydrocarbons in the presence of bacteria and free molecular oxygen. Because the solubility of O_2 in water is low (9 mg/L at 25 °C and 11 mg/L at 5 °C), and because the rate of O_2 replenishment in subsurface environments is limited, DO can be entirely consumed, when the oxidation of only a small amount of petroleum hydrocarbons occurs.

Oxidation of petroleum hydrocarbons can still occur, when all the dissolved O_2 in the groundwater is consumed, however, the oxidizing agents (i.e., the constituents that undergo reduction) now become NO_3^- , MnO_2 , $Fe(OH)_3$, SO_4^{2-} and others (Freeze and Cherry, 1979). As these oxidizing agents are consumed, the groundwater environment becomes more and more reduced. If the process proceeds far enough, the environment may become so strongly reduced that the petroleum hydrocarbons may undergo anaerobic degradation, resulting in the production of methane and carbon dioxide. The concept of oxidation and reduction in terms of changes in oxidation states is illustrated below.



The purging of the wells continued until the parameters for DO, pH, temperature, EC, turbidity, and redox stabilized or three casing volumes were purged.

Once stabilization occurred, the groundwater samples were also tested on-site for ferrous iron (Fe^{+2}), nitrate (NO_3^-), and sulfate (SO_4^{2-}) concentrations.

Fe^{+2} , NO_3^- , and SO_4^{2-} were measured colorimetrically using the Hach Colorimeter Model 890. The Hach Model 890 Colorimeter is a microprocessor-controlled photometer suitable for colorimetric testing in the laboratory or the field. The required reagents for each specific test are provided in AccuVac ampuls.

Detailed field measurements are shown in Appendix B.

For sampling purposes, after purging, a disposable polyethylene bailer was used to collect sufficient samples from each monitoring well for laboratory analyses. The groundwater sample was transferred into four 40-mL VOA vials and preserved with hydrochloric acid. The vials were then sealed to prevent development of air bubbles within the headspace. After the groundwater samples were collected, they were placed on ice and maintained at 4°C in a cooler. A chain of custody (COC) form was written and placed along with the samples in the cooler. On July 15, 2005, SOMA's field crew delivered the groundwater samples to Pacific Analytical Laboratory in Alameda, California.

Laboratory Analysis

Pacific Analytical Laboratory, a state certified laboratory, analyzed the groundwater samples for TPH-g, BTEX and MtBE. TPH-g, BTEX, and MtBE was prepared using EPA Method 5030B and measured using EPA Method 8260B.

Appendix B

Table of Elevations & Coordinates on Monitoring Wells
Surveyed by Kier Wright Civil Engineers Surveyors, Inc.
& Harrington Surveys, Inc.,
and
Field Measurements of Physical, Chemical, and
Biodegradation Parameters of Groundwater

Harrington Surveys Inc.

Land Surveying & Mapping

2278 Larkey Lane, Walnut Creek, Ca. 94597 Phone (925)935-7228 Fax (925)935-5118
Cell (925)788-7359 E-Mail (ben5132@pacbell.net)

SOMA ENVIRONMENTAL ENGINEERING
2680 BISHOP DR. # 203
SAN RAMON, CA. 94583

MAY 20, 2005

ATTN: ELENA

3609 INTERNATIONAL BLVD.
OAKLAND CA.

SURVEY REPORT

CONTROLLING POINTS FROM SURVEY BY KIER & WRIGHT, DATED 08-27-02:

MW-5 NOTCH, CALIFORNIA COORDINATE SYSTEM, ZONE 3. NAD 83.
NORTH 2,109,410.84 - EAST 6,064,058.45, LAT. N37°46'17.42024"
W122°13'18.51054".
ELEVATION 41.06, NAVD 88,

MW-7 NOTCH, CALIFORNIA COORDINATE SYSTEM, ZONE 3,
NORTH 2,109,368.19 - EAST 6,064,025.54. LAT N37°46'30.32592",
W122°13'18.88771"
ELEVATION 39.94 NAVD 88,

INSTRUMENTATION:
TRIMBLE GPS, MODEL 5800 AND LEICA TCA 1800, 1" HORZ. & VERT.
OBSERVATION: EPOCH = 180.

FIELD SURVEY: APRIL 20, 2005.


BEN HARRINGTON
PLS 5132



**TABLE OF ELEVATIONS & COORDINATES
ON MONITORING WELLS**

SOMA ENVIRONMENTAL
Oakland-E. 14 the St. "International Blvd"

WELL NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
FD-C	2109299.85	6064039.85	39.35 40.25	Notch on north side of PVC Punch north rim of box
FD-E	2109281.13	6064067.87	40.06 40.55	Notch on north side of PVC Punch north rim of box
FD-W	2109314.99	6064017.59	39.16 39.95	Notch on north side of PVC Punch north rim of box
MW-1	2109338.74	6064025.97	40.11 40.76	Notch on north side of PVC Punch north rim of box
MW-2	2109383.20	6064073.06	40.71 41.61	Notch on north side of PVC Punch north rim of box
MW-3	2109351.11	6064064.63	40.91 41.68	Notch on north side of PVC Punch north rim of box
MW-4	2109278.18	6064076.40	40.01 40.67	Notch on north side of PVC Punch north rim of box
MW-5	2109410.84	6064058.46	41.16 41.60	Notch on south side of PVC Punch south rim of box
MW-6	2109320.46	6064105.06	40.92 41.52	Notch on north side of PVC Punch north rim of box
MW-7	2109368.19	6064025.54	39.94 40.54	Notch on north side of PVC Punch north rim of box
MW-8	2109321.68	6064000.46	39.38 39.72	Notch on north side of PVC Punch north rim of box

Kier Wright Civil Engineers Surveyors, Inc.
1233 Quarry Lane, Suite 145, Pleasanton, CA 94566
(925) 249-6555 (925) 249-6563

**TABLE OF ELEVATIONS & COORDINATES
ON MONITORING WELLS**

SOMA ENVIRONMENTAL
Oakland-E. 14 the St. "International Blvd"

WELL NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
MW-10	2109193.97	6063957.39	36.71 37.70	Notch on north side of PVC Punch north rim of box
MW-11	2109125.26	6064007.52	XXXX	NO ELEVATION , BOAT ON TOP
MW-12	2109121.85	6063865.00	36.84 36.87	Notch on north side of PVC

Bench mark: NGS Bench mark No.M 554. To reach the station from the intersection of Interstate Highway 880 and Hegenberger Rd in South Oakland go northeast on Hegenberger Rd for 0.5 MI to a side road right Baldwin St. Turn right and go south on Baldwin St for 0.35 MI to a T-intersection, 85th Ave. for 0.1 MI to a side road right, Railroad Ave. Turn right and go south on Railroad Ave. for 0.1 MI to the station on the left, east, side of the road in a large concrete headwall for a culvert.

Elevation = 14.20 NAVD88 Datum.

Coordinate values are based on the California Coordinate System, Zone III NAD 83 Datum.

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Well No.: MAN-1
 Casing Diameter: 2 inches
 Depth of Well: 29.60 feet
 Top of Casing Elevation: 40.11 feet
 Depth to Groundwater: 11.31 feet
 Groundwater Elevation: 28.8 feet
 Water Column Height: 18.29 feet
 Purged Volume: 20 gallons

Project No.: 2331
 Address: 3609 International Blvd.
 Oakland, CA
 Date: July 14-16, 2005
 Sampler: Eric Jennings
 Tony Perini MEMPHIS NOWR-0024

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

Color: No Yes Describe: _____

Sheen: No Yes Describe: _____

Odor: No Yes Describe: SLIGHT RAL ODOR

Field Measurements:

Time	Vol (gallons)	pH	Temp (°C)	E.C. (µS/cm)	D.O. (mg/L)	Turbidity (NTU)	ORP (mV)	Fe ²⁺ (mg/L)	NO ₃ ⁻ (mg/L)	SO ₄ ⁻² (mg/L)
11:07		STARTED PURGING WELL								
11:07	4	6.20	20.78	75.5	229 ⁵⁰⁵	229	65			
11:10	8	6.33	20.38	79.2	4.14	175	6			
11:13	12	6.43	20.35	72.6	3.95	285	-38			
11:16	16	6.48	20.35	71.2	4.37	258	-55			
11:19	20	6.51	20.39	69.9	4.22	181	-63			
11:22	SAMPLED							3.30	4.1	∅

Appendix C

Chain of Custody Form and Laboratory Report
for the
Third Quarter 2005 Monitoring Event

PAL

Pacific Analytical Laboratory

251 West Midway Ave. Suite 201
Alameda, CA 94501

Phone (510) 864-0364

19 July 2005

Mansour Sepehr
SOMA Environmental Engineering Inc.
2680 Bishop Dr., Suite 203
San Ramon, CA 94583

RE: 3609 International Blvd, Oakland

Work Order Number: 5070010

This Laboratory report has been reviewed for technical correctness and completeness. This entire report was reviewed and approved by the Laboratory Director or the Director's designee, as verified by the following signature.

Sincerely,

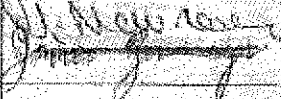



Maïid Akhavan
Laboratory Director

CHAIN OF CUSTODY FORM

PAL Pacific Analytical Laboratory
 851 West Midway Ave. Suite 201B
 Alameda, CA 94501
 510-864-0364 Telephone
 510-864-0365 Fax

PAL
 Login# 5870010

Project No: 2331				Sampler: NEARBY MONITOR-1 / TR. (PUMPING) / RAY (PUMP)				Analyses/Method					
Project Name: 3609 International Blvd Oakland				Report To: Joyce Bobek				TPHs, BTEX, MBE 6860B					
Project P.O.: ----				Company: SOMA Environmental Engineering, Inc.									
Turnaround Time: Standard				Tel: 925-244-6600 Fax: 925-244-6601									
Lab No.	Sample ID	Sampling Date/Time		Matrix			# of Containers	Preservatives				Field Notes	
		Date	Time	Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE		
	MW-1	7/14/05	11:02		X		4 VOAS	X			X	Grab Sample	X
	MW-2	7/14	8:50				4 VOAS	X			X		X
	MW-3	7/14	1:00				4 VOAS	X			X		X
	MW-4 _g	7/14	2:45				4 VOAS	X			X		X
	MW-5	7/14	2:00				4 VOAS	X			X		X
	MW-6	7/15	11:12				4 VOAS	X			X		X
	MW-7	7/14	11:36				4 VOAS	X			X		X
	MW-8	7/14	3:30				4 VOAS	X			X		X
	MW-10	7/14	1:34				4 VOAS	X			X		X
	MW-11						4 VOAS	X			X		X
	MW-12	7/14	1:00		X		4 VOAS	X			X		X
Sampler Remarks:				Relinquished by:				Date/Time:		Received by:		Date/Time:	
RF REQUIRED				 J. Newberry				7/15/05		 James Zimmig		3:30 7/15/05	



SOMA Environmental Engineering Inc.
2680 Bishop Dr., Suite 203
San Ramon CA, 94583

Project: 3609 International Blvd, Oakland
Project Number: 2331
Project Manager: Mansour Sepehr

Reported:
19-Jul-05 14:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	5070010-01	Water	15-Jul-05 11:22	15-Jul-05 14:52
MW-2	5070010-02	Water	14-Jul-05 15:26	15-Jul-05 14:52
MW-3	5070010-03	Water	14-Jul-05 13:48	15-Jul-05 14:52
MW-4R	5070010-04	Water	14-Jul-05 14:43	15-Jul-05 14:52
MW-5	5070010-05	Water	14-Jul-05 14:00	15-Jul-05 14:52
MW-6	5070010-06	Water	15-Jul-05 13:12	15-Jul-05 14:52
MW-7	5070010-07	Water	14-Jul-05 11:46	15-Jul-05 14:52
MW-8	5070010-08	Water	14-Jul-05 15:50	15-Jul-05 14:52
MW-10	5070010-09	Water	14-Jul-05 13:34	15-Jul-05 14:52
MW-12	5070010-10	Water	14-Jul-05 13:00	15-Jul-05 14:52



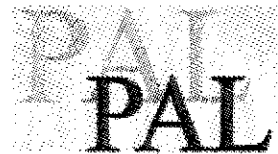
SOMA Environmental Engineering Inc. 2680 Bishop Dr., Suite 203 San Ramon CA, 94583	Project: 3609 International Blvd, Oakland Project Number: 2331 Project Manager: Mansour Sepehr	Reported: 19-Jul-05 14:52
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Volatile Organic Compounds by EPA Method 8260B
Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5070010-01) Water Sampled: 15-Jul-05 11:22 Received: 15-Jul-05 14:52									
Gasoline (C6-C12)	50100	8600	ug/l	43	BG51901	15-Jul-05	15-Jul-05	EPA 8260B	
Benzene	4350	21.5	"	"	"	"	"	"	
Ethylbenzene	1500	21.5	"	"	"	"	"	"	
m&p-Xylene	1910	43.0	"	"	"	"	"	"	
o-xylene	943	21.5	"	"	"	"	"	"	
Toluene	1760	86.0	"	"	"	"	"	"	
MTBE	3980	21.5	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %		70-130	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %		70-130	"	"	"	"	
Surrogate: Perdeuterotoluene		98.8 %		70-130	"	"	"	"	
MW-2 (5070010-02) Water Sampled: 14-Jul-05 15:26 Received: 15-Jul-05 14:52									
Gasoline (C6-C12)	7680	860	ug/l	4.3	BG51901	15-Jul-05	15-Jul-05	EPA 8260B	
Benzene	14.1	2.15	"	"	"	"	"	"	
Ethylbenzene	522	2.15	"	"	"	"	"	"	
m&p-Xylene	391	4.30	"	"	"	"	"	"	
o-xylene	80.0	2.15	"	"	"	"	"	"	
Toluene	46.3	8.60	"	"	"	"	"	"	
MTBE	ND	2.15	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %		70-130	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %		70-130	"	"	"	"	
Surrogate: Perdeuterotoluene		99.0 %		70-130	"	"	"	"	
MW-3 (5070010-03) Water Sampled: 14-Jul-05 13:48 Received: 15-Jul-05 14:52									
Gasoline (C6-C12)	34600	2200	ug/l	11	BG51901	15-Jul-05	15-Jul-05	EPA 8260B	
Benzene	1396	5.50	"	"	"	"	"	"	
Ethylbenzene	1460	5.50	"	"	"	"	"	"	
m&p-Xylene	1540	11.0	"	"	"	"	"	"	
o-xylene	514	5.50	"	"	"	"	"	"	
Toluene	492	22.0	"	"	"	"	"	"	
MTBE	1096	5.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		70-130	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %		70-130	"	"	"	"	
Surrogate: Perdeuterotoluene		99.6 %		70-130	"	"	"	"	

Pacific Analytical Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



SOMA Environmental Engineering Inc.
 2680 Bishop Dr., Suite 203
 San Ramon CA, 94583

Project: 3609 International Blvd, Oakland
 Project Number: 2331
 Project Manager: Mansour Sepehr

Reported:
 19-Jul-05 14:52

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

MW-4R (5070010-04) Water Sampled: 14-Jul-05 14:43 Received: 15-Jul-05 14:52

Gasoline (C6-C12)	847	200	ug/l	1	BG51901	15-Jul-05	15-Jul-05	EPA 8260B		
Benzene	25.3	0.500	"	"	"	"	"	"	"	"
Ethylbenzene	28.2	0.500	"	"	"	"	"	"	"	"
m&p-Xylene	9.70	1.00	"	"	"	"	"	"	"	"
o-xylene	1.20	0.500	"	"	"	"	"	"	"	"
Toluene	ND	2.00	"	"	"	"	"	"	"	"
MTBE	ND	0.500	"	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		98.2 %		70-130	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		101 %		70-130	"	"	"	"	"	"
Surrogate: Perdeuterotoluene		98.2 %		70-130	"	"	"	"	"	"

MW-5 (5070010-05) Water Sampled: 14-Jul-05 14:00 Received: 15-Jul-05 14:52

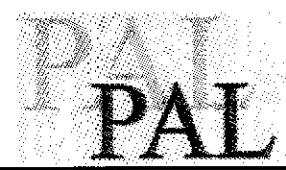
Gasoline (C6-C12)	267	200	ug/l	1	BG51901	15-Jul-05	15-Jul-05	EPA 8260B		
Benzene	ND	0.500	"	"	"	"	"	"	"	"
Ethylbenzene	ND	0.500	"	"	"	"	"	"	"	"
m&p-Xylene	ND	1.00	"	"	"	"	"	"	"	"
o-xylene	ND	0.500	"	"	"	"	"	"	"	"
Toluene	ND	2.00	"	"	"	"	"	"	"	"
MTBE	1.74	0.500	"	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		94.8 %		70-130	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		101 %		70-130	"	"	"	"	"	"
Surrogate: Perdeuterotoluene		97.2 %		70-130	"	"	"	"	"	"

MW-6 (5070010-06RE1) Water Sampled: 15-Jul-05 13:12 Received: 15-Jul-05 14:52

Gasoline (C6-C12)	50100	2200	ug/l	11	BG51901	15-Jul-05	18-Jul-05	EPA 8260B		
Benzene	1510	5.50	"	"	"	"	"	"	"	"
Ethylbenzene	1906	5.50	"	"	"	"	"	"	"	"
m&p-Xylene	1500	11.0	"	"	"	"	"	"	"	"
o-xylene	420	5.50	"	"	"	"	"	"	"	"
Toluene	409	22.0	"	"	"	"	"	"	"	"
MTBE	ND	5.50	"	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		101 %		70-130	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		102 %		70-130	"	"	"	"	"	"
Surrogate: Perdeuterotoluene		101 %		70-130	"	"	"	"	"	"

Pacific Analytical Laboratory

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SOMA Environmental Engineering Inc. 2680 Bishop Dr., Suite 203 San Ramon CA, 94583	Project: 3609 International Blvd, Oakland Project Number: 2331 Project Manager: Mansour Sepehr	Reported: 19-Jul-05 14:52
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Volatile Organic Compounds by EPA Method 8260B
Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (5070010-07) Water Sampled: 14-Jul-05 11:46 Received: 15-Jul-05 14:52									
Gasoline (C6-C12)	753	200	ug/l	1	BG51901	15-Jul-05	15-Jul-05	EPA 8260B	
Benzene	20.6	0.500	"	"	"	"	"	"	
Ethylbenzene	16.8	0.500	"	"	"	"	"	"	
m&p-Xylene	23.5	1.00	"	"	"	"	"	"	
o-xylene	9.73	0.500	"	"	"	"	"	"	
Toluene	11.9	2.00	"	"	"	"	"	"	
MTBE	2.36	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %		70-130	"	"	"	"	
Surrogate: Dibromofluoromethane		103 %		70-130	"	"	"	"	
Surrogate: Perdeuterotoluene		99.6 %		70-130	"	"	"	"	
MW-8 (5070010-08RE1) Water Sampled: 14-Jul-05 15:50 Received: 15-Jul-05 14:52									
Gasoline (C6-C12)	11600	860	ug/l	4.3	BG51901	15-Jul-05	18-Jul-05	EPA 8260B	
Benzene	213	2.15	"	"	"	"	"	"	
Ethylbenzene	854	2.15	"	"	"	"	"	"	
m&p-Xylene	65.8	4.30	"	"	"	"	"	"	
o-xylene	5.71	2.15	"	"	"	"	"	"	
Toluene	27.8	8.60	"	"	"	"	"	"	
MTBE	184	2.15	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		70-130	"	"	"	"	
Surrogate: Dibromofluoromethane		98.8 %		70-130	"	"	"	"	
Surrogate: Perdeuterotoluene		101 %		70-130	"	"	"	"	
MW-10 (5070010-09RE1) Water Sampled: 14-Jul-05 13:34 Received: 15-Jul-05 14:52									
Gasoline (C6-C12)	6050	860	ug/l	4.3	BG51901	15-Jul-05	18-Jul-05	EPA 8260B	
Benzene	594	2.15	"	"	"	"	"	"	
Ethylbenzene	297	2.15	"	"	"	"	"	"	
m&p-Xylene	10.7	4.30	"	"	"	"	"	"	
o-xylene	ND	2.15	"	"	"	"	"	"	
Toluene	9.53	8.60	"	"	"	"	"	"	
MTBE	196	2.15	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.4 %		70-130	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %		70-130	"	"	"	"	
Surrogate: Perdeuterotoluene		100 %		70-130	"	"	"	"	

Pacific Analytical Laboratory

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SOMA Environmental Engineering Inc. 2680 Bishop Dr., Suite 203 San Ramon CA, 94583	Project: 3609 International Blvd, Oakland Project Number: 2331 Project Manager: Mansour Sepehr	Reported: 19-Jul-05 14:52
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Volatile Organic Compounds by EPA Method 8260B
Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-12 (5070010-10RE1) Water Sampled: 14-Jul-05 13:00 Received: 15-Jul-05 14:52									
Gasoline (C6-C12)	1580	200	ug/l	1	BG51901	15-Jul-05	18-Jul-05	EPA 8260B	
Benzene	2.71	0.500	"	"	"	"	"	"	
Ethylbenzene	3.33	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	1.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	29.3	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %		70-130	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %		70-130	"	"	"	"	
Surrogate: Perdeuterotoluene		101 %		70-130	"	"	"	"	



SOMA Environmental Engineering Inc.
 2680 Bishop Dr., Suite 203
 San Ramon CA, 94583

Project: 3609 International Blvd, Oakland
 Project Number: 2331
 Project Manager: Mansour Sepehr

Reported:
 19-Jul-05 14:52

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BG51901 - EPA 5030 Water MS

Blank (BG51901-BLK1)

Prepared & Analyzed: 19-Jul-05

Surrogate: 4-Bromofluorobenzene	47.4		ug/l	50.0		94.8	70-130			
Surrogate: Dibromofluoromethane	52.1		"	50.0		104	70-130			
Surrogate: Perdeuterotoluene	49.0		"	50.0		98.0	70-130			
Gasoline (C6-C12)	ND	200	"							
Benzene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
m&p-Xylene	ND	1.00	"							
o-xylene	ND	0.500	"							
Toluene	ND	2.00	"							
MTBE	ND	0.500	"							

LCS (BG51901-BS1)

Prepared & Analyzed: 19-Jul-05

Surrogate: 4-Bromofluorobenzene	49.0		ug/l	50.0		98.0	70-130			
Surrogate: Dibromofluoromethane	51.0		"	50.0		102	70-130			
Surrogate: Perdeuterotoluene	48.8		"	50.0		97.6	70-130			
Gasoline (C6-C12)	2300	200	"	2000		115	70-130			
Benzene	108	0.500	"	100		108	70-130			
Ethylbenzene	126	0.500	"	100		126	70-130			
m&p-Xylene	61.3	1.00	"	50.0		123	70-130			
o-xylene	116	0.500	"	100		116	70-130			
Toluene	106	2.00	"	100		106	70-130			
MTBE	104	0.500	"	100		104	70-130			

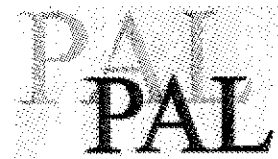
LCS Dup (BG51901-BSD1)

Prepared & Analyzed: 19-Jul-05

Surrogate: 4-Bromofluorobenzene	49.0		ug/l	50.0		98.0	70-130			
Surrogate: Dibromofluoromethane	50.1		"	50.0		100	70-130			
Surrogate: Perdeuterotoluene	48.9		"	50.0		97.8	70-130			
Gasoline (C6-C12)	2070	200	"	2000		104	70-130	10.5	20	
Benzene	109	0.500	"	100		109	70-130	0.922	20	
Ethylbenzene	126	0.500	"	100		126	70-130	0.00	20	
m&p-Xylene	60.8	1.00	"	50.0		122	70-130	0.819	20	
o-xylene	116	0.500	"	100		116	70-130	0.00	20	
Toluene	106	2.00	"	100		106	70-130	0.00	20	
MTBE	79.1	0.500	"	100		79.1	70-130	27.2	20	QR-02

Pacific Analytical Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



SOMA Environmental Engineering Inc.
2680 Bishop Dr., Suite 203
San Ramon CA, 94583

Project: 3609 International Blvd, Oakland
Project Number: 2331
Project Manager: Mansour Sepehr

Reported:
19-Jul-05 14:52

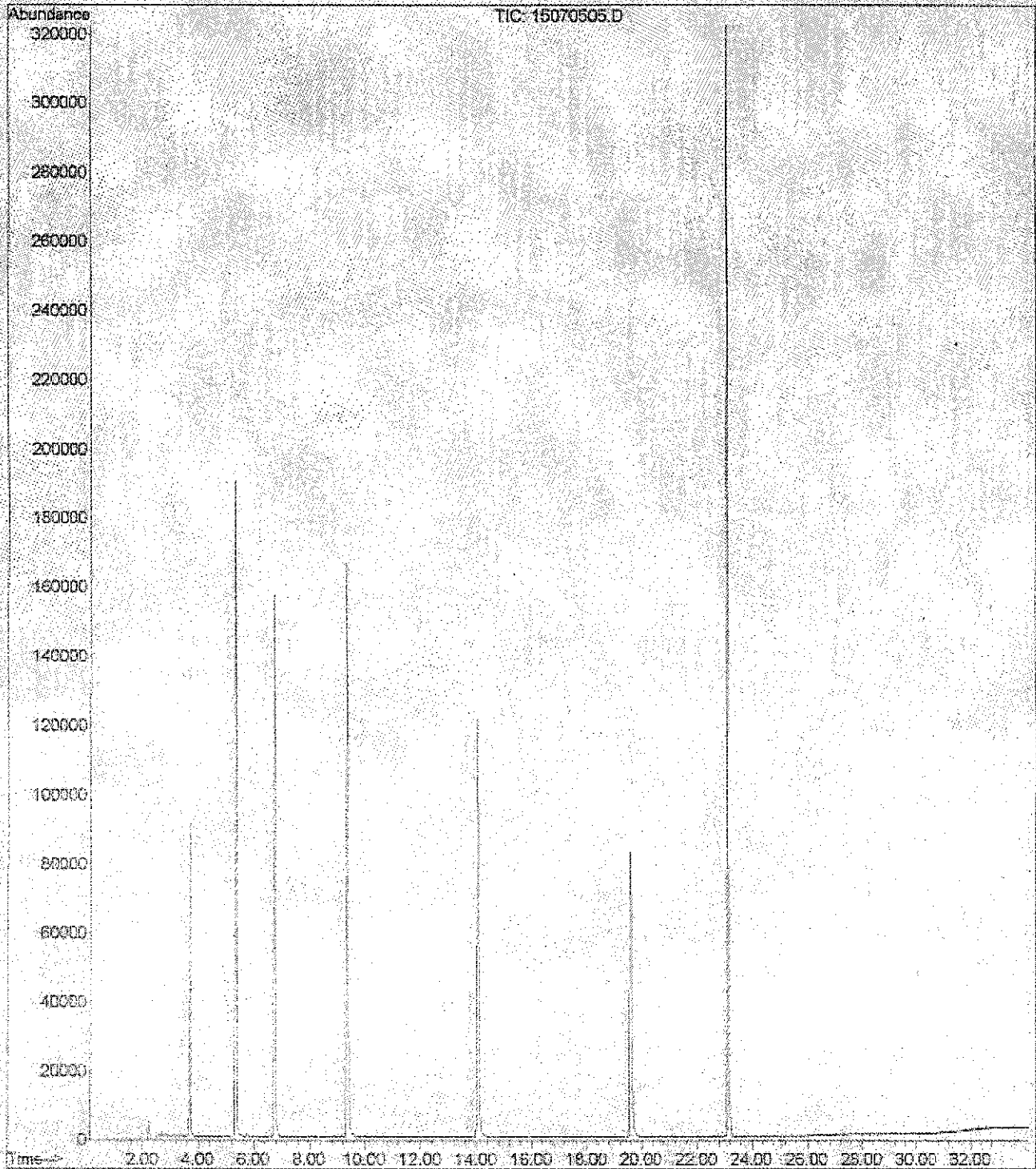
Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

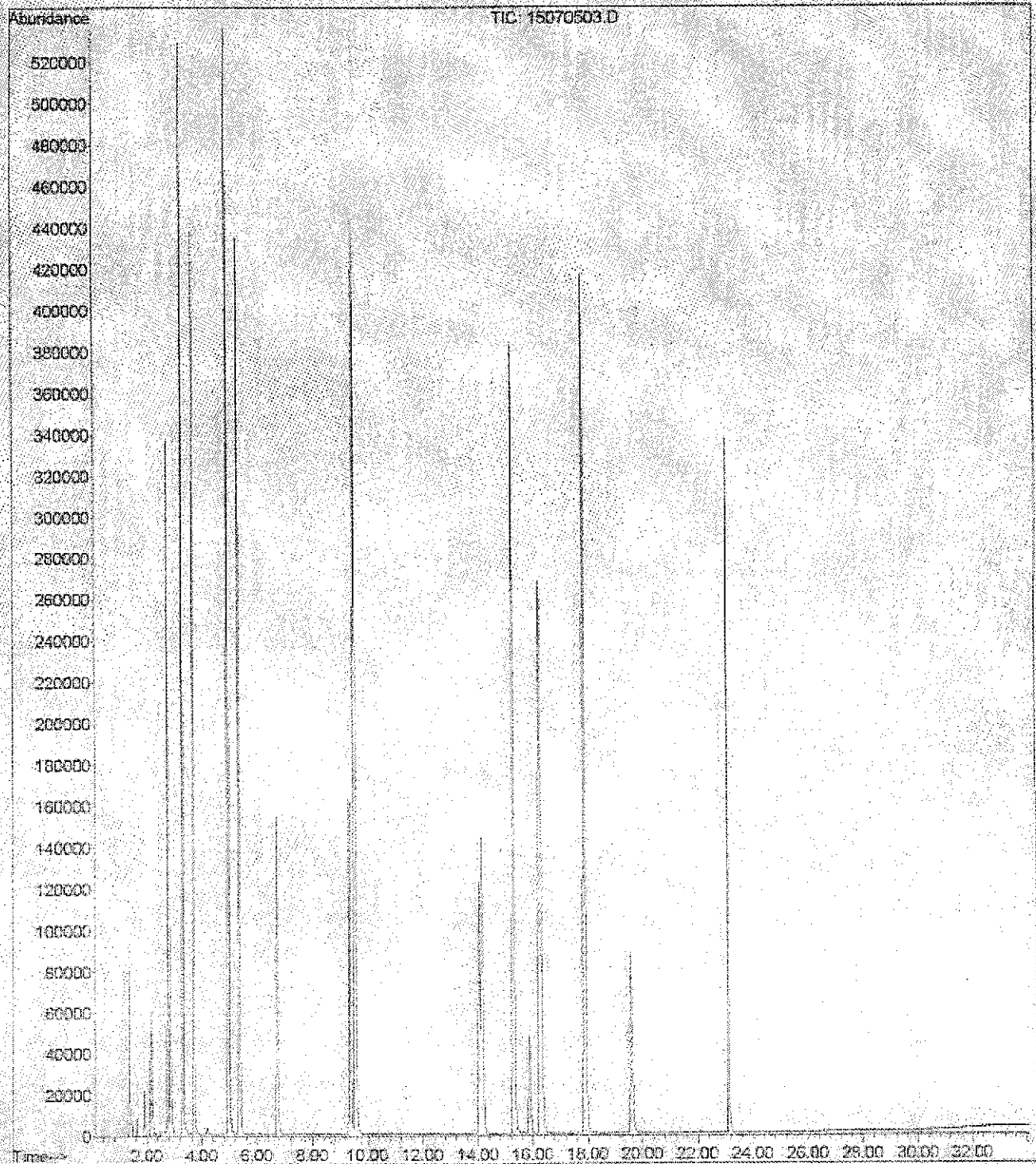
Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
BG51901-BSD1	TPHg/BTEX/MTBE/By EPA	MTBE	QR-02
BG51901-BSD1	TPHg/BTEX/MTBE/By EPA	MTBE	Exceeds RPD limit Default Report (not modified)

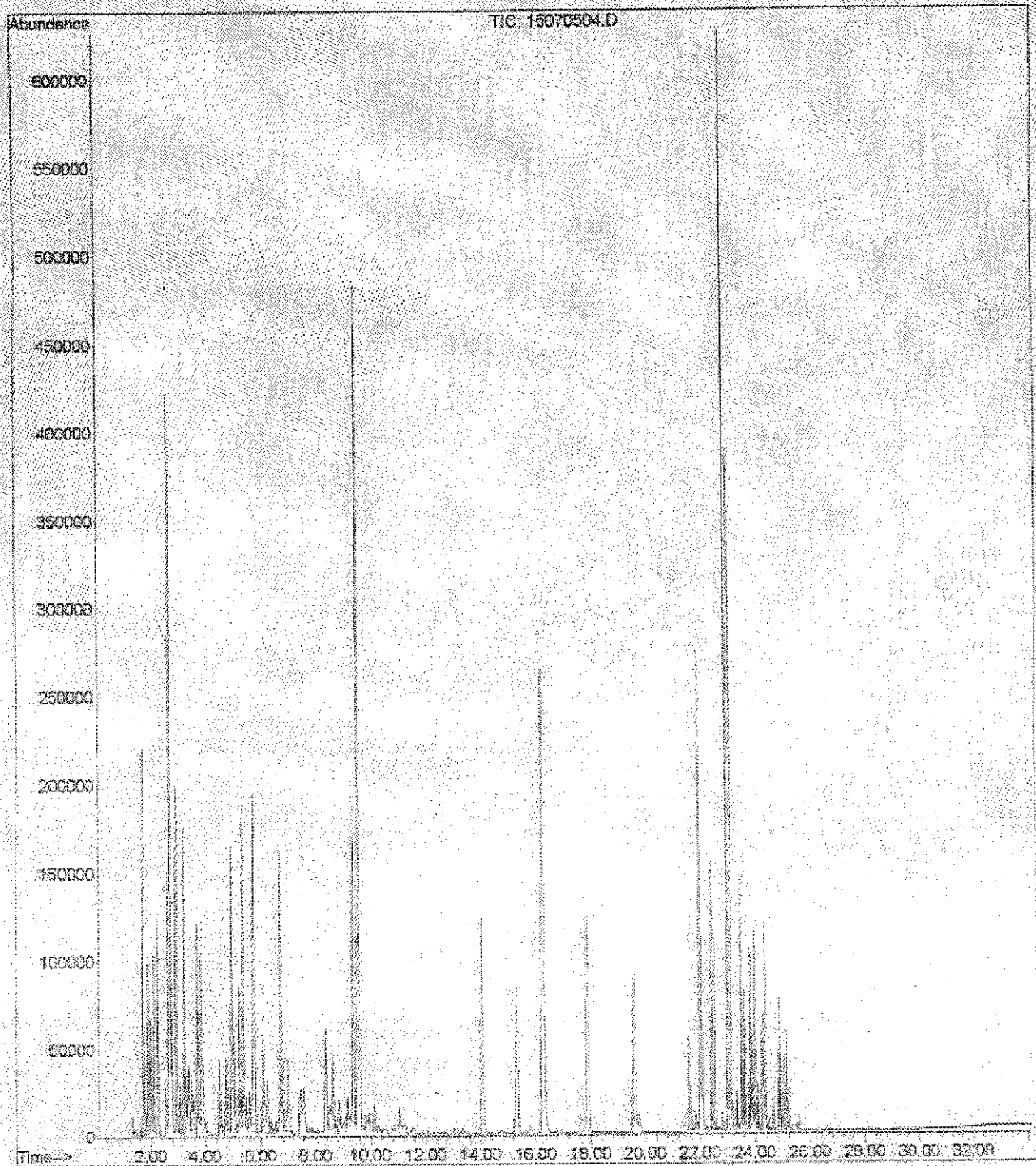
File : C:\MSDCHEM\1\DATA\2005-Jul-15-0928.b\15070505.D
Operator :
Acquired : 15 Jul 2005 12:43 pm using AcqMethod VOCOXY.M
Instrument : PAL GCMS
Sample Name: BG51901-BLK1
Misc Info :
Vial Number: 5



File : C:\MSDCHEM\1\DATA\2005-Jul-15-0928.b\15070503.D
Operator :
Acquired : 15 Jul 2005 11:14 am using AcqMethod VOCOXY.M
Instrument : PAL GCMS
Sample Name: BG51901-BB10voc
Misc Info :
Vial Number: 3



File :C:\MSDCHEM\1\DATA\2005-Jul-15-0928.b\15070504.D
Operator :
Acquired : 15 Jul 2005 11:58 am using AcqMethod VOCCOXY.M
Instrument : PAL GCMS
Sample Name: BG51901-ES1@gas
Misc Info :
Vial Number: 4



Appendix D

Chain of Custody Forms and Laboratory Reports
for the
Groundwater Extraction Treatment System

PAL

Pacific Analytical Laboratory

851 West Midway Ave. Suite 201
Alameda, CA 94501

Phone (510) 864-0364

14 July 2005

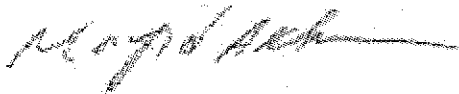
Mansour Sepehr
SOMA Environmental Engineering Inc.
2680 Bishop Dr., Suite 203
San Ramon, CA 94583

RE: 3609 International Blvd, Oakland

Work Order Number: 5070005

This Laboratory report has been reviewed for technical correctness and completeness. This entire report was reviewed and approved by the Laboratory Director or the Director's designee, as verified by the following signature.

Sincerely,



Maiid Akhavan
Laboratory Director

CHAIN OF CUSTODY FORM

Page ____ of ____

PAL Pacific Analytical Laboratory
 851 West Midway Ave., Suite 201B
 Alameda, CA 94501
 510-864-0364 Telephone
 510-864-0365 Fax

PAL
 Login# 5070005

Project No: 2333				Sampler: Brian Tims				Analyses/Method					
Project Name: 3609 International Blvd. Oakland				Report To: Joyce Bobek				TP4g, BTEX, MBE 8260B					
Project P.O.: ---				Company: SOMA Environmental Engineering, Inc.									
Turnaround Time: Standard				Tel: 925-244-6600 Fax: 925-244-6601									
Lab No.	Sample ID	Sampling Date/Time		Matrix			# of Containers	Preservatives				Field Notes	
		Date	Time	Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE		
	Influent	7/7/05	3:25	*	*		3-VOAs	*			*	Grab Sample	
	GAC-1	7/7/05	3:25	*	*		3-VOAs	*			*	Grab Sample	
	PSP-1	7/7/05	3:15	*	*		3-VOAs	*			*	Grab Sample	
Sampler Remarks: EDF Output Required				Relinquished by: <i>BT</i>				Date/Time: 7/7/05 4:15		Received by: <i>James Z...</i>		Date/Time: 7/7/05 4:15 PM	
61,740													



SOMA Environmental Engineering Inc.
2680 Bishop Dr., Suite 203
San Ramon CA, 94583

Project: 3609 International Blvd, Oakland
Project Number: 2333
Project Manager: Mansour Sepehr

Reported:
14-Jul-05 13:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Influent	5070005-01	Water	07-Jul-05 15:35	07-Jul-05 16:25
GAC-1	5070005-02	Water	07-Jul-05 15:25	07-Jul-05 16:25
PSP-1	5070005-03	Water	07-Jul-05 15:15	07-Jul-05 16:25



SOMA Environmental Engineering Inc.
 2680 Bishop Dr., Suite 203
 San Ramon CA, 94583

Project: 3609 International Blvd, Oakland
 Project Number: 2333
 Project Manager: Mansour Sepehr

Reported:
 14-Jul-05 13:41

Volatile Organic Compounds by EPA Method 8260B
Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Influent (5070005-01) Water Sampled: 07-Jul-05 15:35 Received: 07-Jul-05 16:25									
Gasoline (C6-C12)	5500	400	ug/l	2	BG51401	07-Jul-05	13-Jul-05	EPA 8260B	
Benzene	508	1.00	"	"	"	"	"	"	
Ethylbenzene	68.6	1.00	"	"	"	"	"	"	
m&p-Xylene	211	2.00	"	"	"	"	"	"	
o-xylene	161	1.00	"	"	"	"	"	"	
Toluene	18.8	4.00	"	"	"	"	"	"	
MTBE	407	1.00	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		99.4 %	70-130		"	"	"	"	
GAC-1 (5070005-02) Water Sampled: 07-Jul-05 15:25 Received: 07-Jul-05 16:25									
Gasoline (C6-C12)	ND	200	ug/l	1	BG51401	07-Jul-05	13-Jul-05	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	1.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.4 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		109 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		97.6 %	70-130		"	"	"	"	
PSP-1 (5070005-03) Water Sampled: 07-Jul-05 15:15 Received: 07-Jul-05 16:25									
Gasoline (C6-C12)	ND	200	ug/l	1	BG51401	07-Jul-05	13-Jul-05	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	1.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		110 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		97.4 %	70-130		"	"	"	"	

Pacific Analytical Laboratory

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SOMA Environmental Engineering Inc. 2680 Bishop Dr., Suite 203 San Ramon CA, 94583	Project: 3609 International Blvd, Oakland Project Number: 2333 Project Manager: Mansour Sepehr	Reported: 14-Jul-05 13:41
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Volatile Organic Compounds by EPA Method 8260B
Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOMA Environmental Engineering Inc.
 2680 Bishop Dr., Suite 203
 San Ramon CA, 94583

Project: 3609 International Blvd, Oakland
 Project Number: 2333
 Project Manager: Mansour Sepehr

Reported:
 14-Jul-05 13:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BG51401 - EPA 5030 Water MS

Blank (BG51401-BLK1)

Prepared & Analyzed: 14-Jul-05

Surrogate: 4-Bromofluorobenzene	46.8		ug/l	50.0		93.6	70-130			
Surrogate: Dibromofluoromethane	51.9		"	50.0		104	70-130			
Surrogate: Perdeuterotoluene	48.2		"	50.0		96.4	70-130			
Gasoline (C6-C12)	ND	200	"							
Benzene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
m&p-Xylene	ND	1.00	"							
o-xylene	ND	0.500	"							
Toluene	ND	2.00	"							
MTBE	ND	0.500	"							

LCS (BG51401-BS1)

Prepared & Analyzed: 14-Jul-05

Surrogate: 4-Bromofluorobenzene	48.6		ug/l	50.0		97.2	70-130			
Surrogate: Dibromofluoromethane	46.8		"	50.0		93.6	70-130			
Surrogate: Perdeuterotoluene	49.6		"	50.0		99.2	70-130			
Gasoline (C6-C12)	2010	200	"	2000		100	70-130			
Benzene	105	0.500	"	100		105	70-130			
Ethylbenzene	121	0.500	"	100		121	70-130			
m&p-Xylene	119	1.00	"	100		119	70-130			
o-xylene	113	0.500	"	100		113	70-130			
Toluene	103	2.00	"	100		103	70-130			
MTBE	81.3	0.500	"	100		81.3	70-130			

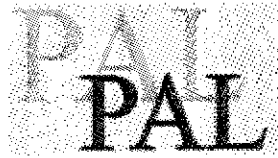
LCS Dup (BG51401-BSD1)

Prepared & Analyzed: 14-Jul-05

Surrogate: 4-Bromofluorobenzene	51.0		ug/l	50.0		102	70-130			
Surrogate: Dibromofluoromethane	52.6		"	50.0		105	70-130			
Surrogate: Perdeuterotoluene	49.5		"	50.0		99.0	70-130			
Gasoline (C6-C12)	2060	200	"	2000		103	70-130	2.46	20	
Benzene	99.4	0.500	"	100		99.4	70-130	5.48	20	
Ethylbenzene	120	0.500	"	100		120	70-130	0.830	20	
m&p-Xylene	121	1.00	"	100		121	70-130	1.67	20	
o-xylene	115	0.500	"	100		115	70-130	1.75	20	
Toluene	100	2.00	"	100		100	70-130	2.96	20	
MTBE	83.8	0.500	"	100		83.8	70-130	3.03	20	

Pacific Analytical Laboratory

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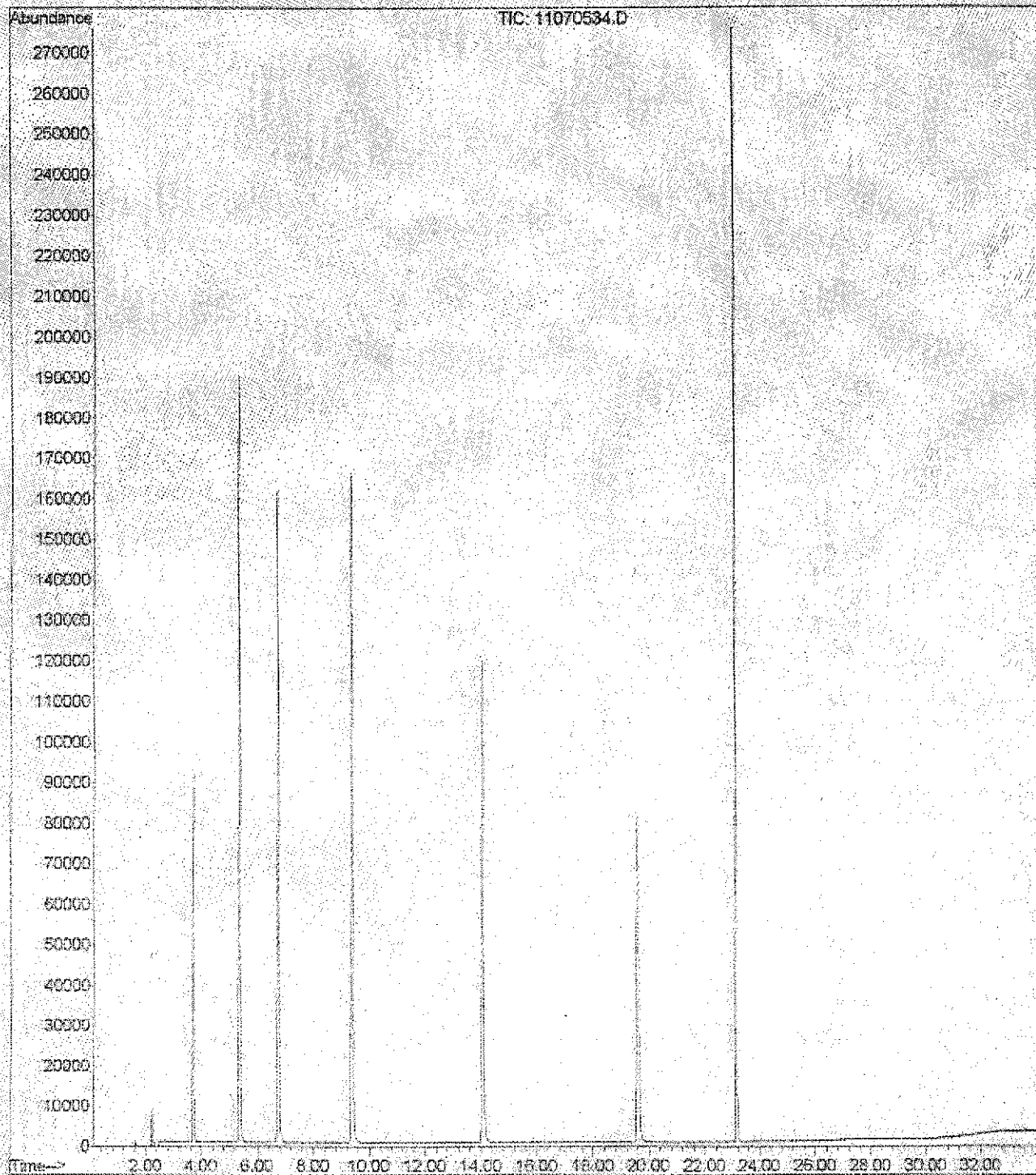


SOMA Environmental Engineering Inc. 2680 Bishop Dr., Suite 203 San Ramon CA, 94583	Project: 3609 International Blvd, Oakland Project Number: 2333 Project Manager: Mansour Sepehr	Reported: 14-Jul-05 13:41
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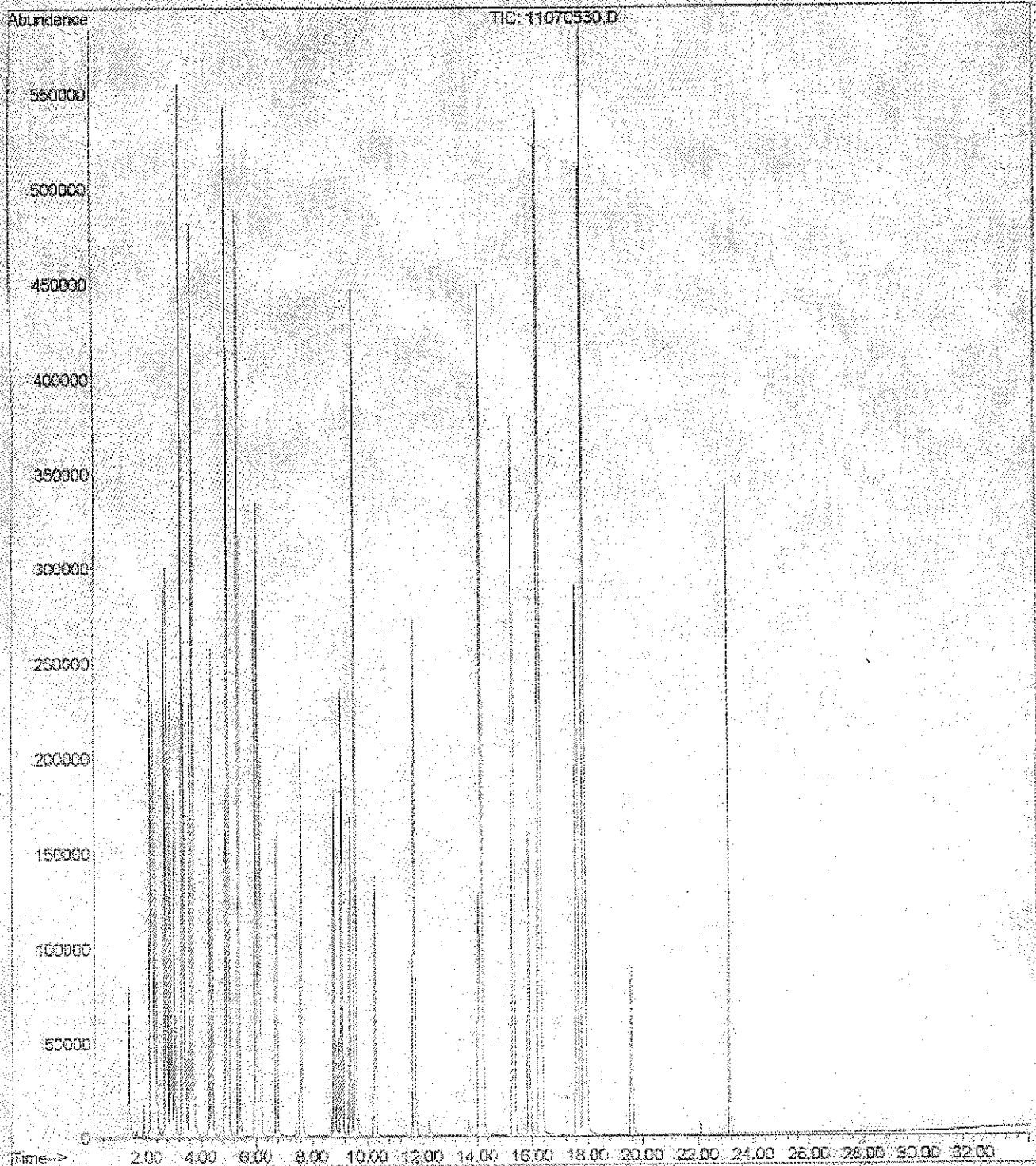
Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

File : C:\MSDCHEM\1\DATA\2005-Jul-11-1544.b\11070534.D
Operator :
Acquired : 12 Jul 2005 5:22 pm using AcqMethod VOCOX.Y.M
Instrument : PAL GCMS
Sample Name: BG51401-BLK1
Misc Info :
Vial Number: 34



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Operator :
Acquired : 12 Jul 2005 1:41 pm using AcqMethod VQCOXY.M
Instrument : PAL GCMS
Sample Name: BG51401-BS1@voc
Misc Info :
Vial Number: 30



File : C:\MSDCHEM\1\DATA\2005-Jul-11-1544.b\11070532.D
Operator :
Acquired : 12 Jul 2005 3:31 pm using AcqMethod VOCXY.M
Instrument : PAL GCMS
Sample Name: BG51401-BS10gas
Misc Info :
Vial Number: 32

