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September 12, 2002
Project H9042.Q

Mr. Jerry Harbert
46765 Mountain Cove Drive
Indian Wells, California 92210

Subject: **Groundwater Monitoring Report - Second Quarter 2002**
Harbert Transportation
19984 Meekland Avenue, Hayward, California

Dear Mr. Harbert:

This report describes groundwater monitoring activities conducted by Weber, Hayes and Associates at the former Harbert Transportation facility, 19984 Meekland Avenue, Hayward, California, during the second quarter 2002. This report has been prepared pursuant to a directive from the Alameda County Health Care Services Agency/Environmental Health Services (Environmental Health) regarding a release of petroleum hydrocarbons from underground storage tanks at the site.

EXECUTIVE SUMMARY

The groundwater monitoring event for the second quarter 2002 took place on June 13, 2002. Groundwater elevations at the site fell an average of approximately 0.92 feet since the previous quarter (March 2002). The calculated groundwater flow direction on June 13, 2002 was to the west, which appears to be generally consistent with historical data. Groundwater analytical results from the second quarter 2002 indicate that dissolved petroleum hydrocarbons (PHCs) remain in groundwater at concentrations that exceed water quality goals in some monitoring wells downgradient of the removed underground storage tanks (USTs) and dispensers at the site, however there has been a general decrease in dissolved PHC concentrations.

Methyl - tert - Butyl Ether (MTBE) was not detected in the groundwater samples collected this quarter. MTBE has not been detected in groundwater at the site. Groundwater samples in the third quarter 2000 were analyzed for the fuel oxygenates Di-isopropyl Ether, tertiary Butyl Alcohol, Ethyl tertiary Butyl Ether, and tertiary Amyl Methyl Ether. No fuel oxygenates were detected in these groundwater samples.

At this time we recommend:

- Continuing quarterly groundwater monitoring of dissolved PHC concentrations at the site.
- Calculating additional cleanup levels for those PHCs which have not yet had cleanup levels set (ethylbenzene, xylenes, and TPH-g, see Weber, Hayes and Associates, June 18, 2001), for comparison with residual concentrations of PHCs.

INTRODUCTION

This report documents groundwater monitoring activities at the former Harbert Transportation facility, 19984 Meekland Avenue, Hayward, California (the site), during the second quarter 2002. This report has been prepared pursuant to a directive from the Alameda County Health Care Services Agency/Environmental Health Services (Environmental Health, August 8, 2000) regarding a release of petroleum hydrocarbons (PHCs) from underground storage tanks (USTs) at the site.

Groundwater monitoring activities conducted during this quarter included:

1. Measuring groundwater levels and checking for the presence of free product in all of the monitoring wells associated with the site
2. Measuring the physical parameters of pH, temperature, electrical conductivity, and dissolved oxygen concentration in each well
3. Collecting groundwater samples from each of the appropriate monitoring wells
4. Submitting the groundwater samples to a state-certified analytical laboratory for analysis of dissolved PHC concentrations following proper chain-of-custody procedures
5. Determining groundwater elevations, flow direction, and gradient in the vicinity of the site
6. Mapping the extent of the dissolved PHC plume in groundwater beneath the site
7. Preparing this technical report

Site Description And Background

The site is located at the corner of Meekland Avenue and Blossom Way in Alameda County California, at an elevation of approximately 55 feet above sea level (Figure 1). The site is relatively flat and is currently vacant.

The site was operated as a motor vehicle fueling station since the 1940's. Harbert Transportation used the site as a vehicle and fueling yard before selling the site to Durham Transportation in 1986.

In August 1989, four underground storage tanks (USTs) were removed from the site and properly disposed of. Soil and groundwater investigations at the site, conducted by Applied Geosystems, CTTS, and AGI Technologies, indicated that PHCs were present in soil and groundwater at the site. A list of reports documenting the soil and groundwater investigations is included in the Reference section. Ten groundwater monitoring wells currently exist at the site (Figure 2). Groundwater samples were not collected from these wells between September 1996 and September 2000. Documentation indicates that excavated soil from the UST removals was returned to the (reportedly plastic-lined) excavations (CTTS, November 1, 1992).

Documentation also indicates that two USTs were removed from the site in the early 1950's (CTTS, November 27, 1990). These USTs were located near the dispensers for the USTs removed in 1989.

On February 14, 2001, we collected soil samples from the site to determine the extent of PHCs remaining in the unsaturated zone in accordance with our September 7, 2000 Work Plan. Analysis of the data collected confirmed that significant concentrations of PHCs remained in soils beneath the former dispensers and in the 1989 UST excavation which was backfilled with the excavated material. We recommended excavation of these residual PHCs as an Interim Remedial Action (Weber, Hayes and Associates, June 18, 2001). Environmental Health concurred with this recommendation in a letter dated June 26, 2001.

On January 7 - 10, 2002 we conducted an interim remedial action excavation using six foot diameter augers to remove contaminated soils from the subsurface. Approximately 594 yds^3 of PHC-impacted soil was removed from the subsurface and transported to an appropriate landfill facility for disposal. A pump was installed in one of the large diameter boreholes and 3,000-gallons of PHC impacted water was removed from the subsurface. Oxygen Release Compound® (ORC) was added to the saturated zone in each borehole to promote microbial growth and enhance the ability of aerobic microbes to degrade contaminants. Each borehole was backfilled with control density fill and clean fill soil to ground surface. This work was described in our February 8, 2002 report, *Large Diameter Excavation and 4th Quarter 2001 Quarterly Groundwater Monitoring.*

In the first quarter 2002, we recommend that the frequency of sampling in monitoring well MW-7 be reduced to semi-annually (second and fourth quarters) and that the frequency of sampling in monitoring wells MW-4, 8, 11 and 12 be reduced to annually (fourth quarter only). Alameda County Environmental Health concurred with our recommendations in a telephone conversation on July 29, 2002.

SUMMARY OF QUARTERLY ACTIVITIES

Groundwater Monitoring

The groundwater monitoring event for the second quarter 2002 took place on June 13, 2002. Field methods followed Weber, Hayes and Associates' standard field methodology for groundwater monitoring, which is described in Appendix A. Groundwater samples were collected from all monitoring wells at the site in accordance with directives from Environmental Health, and analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g) by EPA Method 8015M, and benzene, toluene, ethylbenzene, and xylenes (BTEX), and Methyl tert Butyl Ether (MTBE) by EPA Method 8020. Samples with elevated detection limits or detections of MTBE were analyzed by EPA Method 8260 to confirm the presence of MTBE and provide the proper detection limit. Field data forms are also presented in Appendix A.

Free Product

Free product was not observed in any of the monitoring wells at the site.

Groundwater Elevation and Flow Direction

Groundwater elevations were calculated by subtracting the measured depth-to-groundwater from the top-of-casing elevations, which were surveyed by a state-licensed Land Surveyor. Field measurements and the calculated groundwater elevations for the site are summarized in Table 1. Groundwater elevations at the site fell an average of approximately 0.92 feet since the previous quarter (March 2002). Calculated groundwater elevations from the gauging data collected on June 13, 2002 are shown on Figure 2. Data from this quarter indicate that groundwater flow is to the west (see Figure 2). The calculated groundwater gradient on June 13, 2002 was to the west at approximately 0.002 feet per foot. Previous reports indicate that the groundwater flow direction in the vicinity of the site has generally been in a westerly direction. A table and figures summarizing previous depth to groundwater data is presented as Appendix B.

Groundwater Analytical Results

Groundwater samples were collected from all of the monitoring wells associated with the site this quarter, in accordance with directives from Environmental Health. The groundwater analytical results for this quarter are summarized below.

Summary of Groundwater Sample Analytical Results, June 13, 2002 (µg/L, ppb)

Well ID	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MW-3	300	1.1	1.4	4.0	1.8	ND
MW-4	ND	ND	ND	ND	ND	ND
MW-5	1,500	24	16	120	110	ND*
MW-6	1,600	< 1.25	4.7	67	5.3	< 1.5*
MW-7	ND	ND	ND	ND	ND	ND
MW-8	ND	ND	ND	ND	ND	ND
MW-9	5,100	140	21	490	300	< 1.5*
MW-10	1,700	0.77	6.2	3.3	2.9	ND*
MW-11	ND	ND	ND	ND	ND	ND
MW-12	ND	ND	ND	ND	ND	ND
AL/MCL	1,000	1	150	700	1,750	5

* = Confirmed by GC/MS method 8260

The concentration of benzene in well MW-3 slightly exceed the groundwater quality goal/Maximum Contaminant Level (MCL) of 1 microgram per liter (μg/L, parts per billion, ppb).

The concentrations of TPH-g and benzene in well MW-5 exceed the groundwater quality goals/ Action Level (AL) and MCL of 1,000 ppb and 1 ppb, respectively.

The concentration TPH-g in well MW-6 exceeds the groundwater quality goal/AL of 1,000 ppb. Benzene was not detected, but the detection limit was raised to 1.25 ppb (due to sample dilution), which is slightly above the MCL.

The concentrations of TPH-g and benzene in well MW-9 exceed the groundwater quality goals, AL and MCL, respectively.

The concentration of TPH-g in well MW-10 exceeds the groundwater quality goal/AL.

No other PHCs exceed water quality goals/ALs/MCLs.

MTBE was not detected in any of the wells associated with the site.

Please see the Site Conceptual Model section for a discussion of the groundwater analytical results.

Analytical results for the groundwater samples collected by Weber, Hayes and Associates are summarized in Table 1. PHC concentrations detected in groundwater during the current monitoring event are shown on Figure 3. The extent of dissolved PHCs greater than 1,000 ppb TPH-g and 10 ppb benzene in groundwater are shown on Figure 4. The trend in TPH-g and benzene concentrations in wells MW-5 and 9, along with groundwater elevations over time, are shown on Figures 6 and 7.

The Certified Analytical Report for the groundwater samples is presented as Appendix C. All laboratory quality control and quality assurance data were within acceptable limits. A table and figures summarizing analytical results of groundwater samples collected by previous consultants is presented as Appendix D.

Dissolved Oxygen Measurements

Current and historic dissolved oxygen measurements collected at the site indicate generally lower levels of dissolved oxygen in PHC impacted wells compared to levels in non-impacted, upgradient wells. The decrease in dissolved oxygen in the impacted wells is shown by the dissolved oxygen concentration contour map on Figure 5. We believe this, combined with the observed decrease in dissolved PHC concentrations over time, indicates that natural attenuation of PHCs via biologic activity (bioremediation) is occurring in groundwater, with microbes using dissolved PHCs as a food source during aerobic respiration (see Bushek and O'Reilly, 1995, Table 1, Figure 5, and Appendix D).

SUMMARY

Summary of Quarterly Monitoring Results

- Concentrations of dissolved PHCs increased compared to last quarter. This is likely the result of rebound from the low concentrations which were the result of the interim remedial action conducted in January 2002.
- Free product was not observed in any of the monitoring wells at the site.
- Groundwater elevations at the site fell an average of approximately 0.92 feet since the previous quarter (March 2002).
- The groundwater flow direction on June 13, 2002 was to the west at a gradient of approximately 0.002 feet per foot. This direction is in general agreement with data collected by us in the past three quarters and previous data collected by others at the site.
- **MTBE was not detected in any of the groundwater samples collected this quarter.**
- TPH-g was detected at a concentration above the AL in on-site wells MW-5, MW-6, and MW-9 and in off-site well MW-10, all of which are located downgradient of the removed USTs.
- Benzene was detected at a concentration above the MCL in wells MW-3, MW-5, and MW-9.
- Current and historic measurements of dissolved oxygen collected at the site indicate aerobic bioremediation is occurring in the PHC-impacted wells.

SITE CONCEPTUAL MODEL

The Site Conceptual Model (SCM) provides a compilation of our understanding of the existing site conditions:

- Soils encountered at the site generally consisted of fat Clays and sandy Clays. The predominance of these fine grained materials indicate that cleanup of PHCs at the site would ***NOT*** be amenable to soil vapor extraction or related technologies.
- A review and comparison of historical groundwater analytical data with the current and recent data suggests there has been a reduction in PHC concentrations at the site of at least an order of magnitude since September 1996 (see Table 1, Figure 3, and Appendix D).
- PHCs are present in four on-site wells downgradient of the removed USTs at concentrations slightly above groundwater quality goals.

- Concentrations of PHCs exceed the Action Level for TPH-g or the MCL for benzene in wells MW-5, 6, 9, and 10.

- PHC concentrations in monitoring wells MW-5, 6, and 9 increased this quarter compared to last quarter, **but show a general downward trend - see Figures 6 and 7.** The significant decrease in PHC concentrations observed last quarter was likely due to the January 2002 interim remedial action excavation and addition of oxygen releasing compound (ORC®) to the subsurface. We believe the rebound in dissolved PHC concentrations observed this quarter may be due to the exhaustion of the ORC® which we added to the subsurface during the excavation.

- **We believe that natural attenuation/bioremediation has and will continue to remove PHCs from groundwater at the site, as evidenced by the general downward trend in TPH-g and benzene concentrations in well MW-5 and 9 shown on Figures 6 and 7.**

- **MTBE has not been detected in any of the soil or groundwater samples collected at the site.**

MTBE is ***NOT*** present at the site. There are low levels of residual non-mobile PHCs in soil and groundwater that will likely degrade via natural processes over time. Excavation of source zone soil near the removed USTs and dispensers and removal of contaminated groundwater should allow natural attenuation of PHCs to complete the cleanup at the site.

RECOMMENDATIONS

At this time we recommend:

- Continuing quarterly groundwater monitoring of dissolved PHC concentrations at the site. We recommend that the frequency of sampling in monitoring wells MW-6 and 7 be reduced to semi-annually (second and fourth quarters) and that the frequency of sampling in monitoring wells MW-4, 8, 11 and 12 be reduced to annually (fourth quarter only). Wells MW-3, 5, 9, and 10 would remain on a quarterly schedule.

- Calculating additional cleanup levels for those PHCs which have not yet had cleanup levels set (ethylbenzene, xylenes, and TPH-g, see Weber, Hayes and Associates, June 18, 2001), for comparison with concentrations after the interim remedial excavation.

SCHEDULE OF ACTIVITIES FOR THE FOLLOWING QUARTER

The following activities are scheduled for the next quarter:

- Quarterly groundwater monitoring according to the schedule recommended above, pending agreement by Environmental Health. Groundwater monitoring will include measuring the depth-to-groundwater, dissolved oxygen concentration, and physical parameters, and collecting samples from the appropriate monitoring wells and analyzing them for TPH-g, BTEX and MTBE by EPA Methods 8015M and 8020. All detections of MTBE will be confirmed by EPA Method 8260.

- Calculating cleanup levels for PHCs in soil and groundwater at the site for comparison with concentrations after the interim remedial excavation.

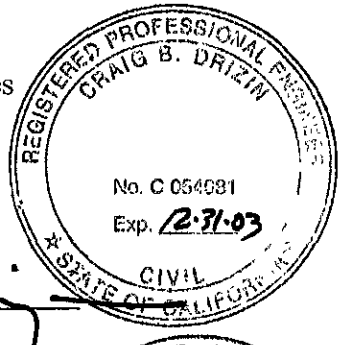
LIMITATIONS

Our service consists of professional opinions and recommendations made in accordance with generally accepted geologic and engineering principles and practices. This warranty is in lieu of all others, either expressed or implied. The analysis and proposals in this report are based on sampling and testing which are necessarily limited. Additional data from future work may lead to modification of the opinions expressed herein.

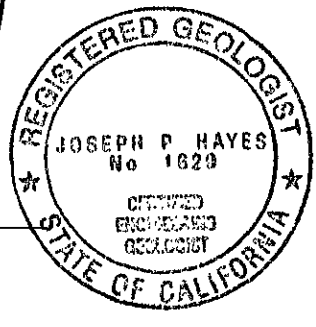
Thank you for the opportunity to aid in the assessment and cleanup of this site. If you have any questions or comments regarding this project please call us at (831) 722 - 3580.

Sincerely yours,

Weber, Hayes And Associates



By: _____
Craig Drizin, P.E.
Senior Engineer



And: _____
Joseph Hayes
Certified Hydrogeologist #373

Attachments:

Table 1	Summary of Groundwater Elevation and PHC Analytical Data
Figure 1	Location Map
Figure 2	Site Plan with Groundwater Elevations
Figure 3	Site Plan with PHC Concentrations in Groundwater
Figure 4	Site Plan with Extent of TPH-g and Benzene in Groundwater
Figure 5	Site Plan with Dissolved Oxygen Contours
Figure 6	TPH-g and Elevation MW-5 and MW-9
Figure 7	Benzene and Elevation MW-5 and MW-9
Appendix A	Field Methodology for Groundwater Monitoring and Field Data Forms
Appendix B	Summary of Historical Depth to Groundwater Measurements, Groundwater Elevations, and Groundwater Flow Direction - AGI Technologies, Inc.
Appendix C	Certified Analytical Report - Groundwater Samples
Appendix D	Summary of Historical Groundwater Analytical Results - AGI Technologies, Inc.

c: Mr. Amir Gholami, Alameda County Environmental Health
Mr. Jeff Lawson
Ms. Laurie Berger
Mr. Gregg Petersen, Durham Transportation
Mr. Chuck Headlee, San Francisco Bay Regional Water Quality Control Board

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Table 1: Summary of Groundwater Elevation and PHC Analytical Data
Former Harbert Transportation Facility, 19984 Meekland Avenue, Hayward, Ca.
Weber, Hayes and Associates Project H9042

Well I.D.	Date	Screened Interval (feet below ground surface)	Surveyed T.O.C. Elevation (feet)	Depth to Groundwater (feet below ground surface)	Calculated Groundwater Elevation (feet)	Laboratory Analytical Results							Field Measurements	
						TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	F.O.'s (ug/L)	D.O. (mg/L)	ORP (mV)
MW-3		20 - 40?	55 44											
	13-Jun-2002			22 92	32 52	300	1.1	1.4	4 0	1 8	ND	--	0 14	194
	21-Mar-2002			21 96	33 48	240	0 94	2.5	12	11.7	ND	--	0 1	--
	18-Dec-2001			23.59	31 85	270	1 6	1.7	13	5.4	ND	--	--	--
	20-Sep-2001			24 16	31 28	380	1.7	2.6	32	8.9	ND	--	0 4	--
	20-Jun-2001			23 55	31 89	760	4 4	2.4	62	23	ND*	--	--	--
	29-Mar-2001			22 02	33 42	170	1.1	ND	10	1.6	ND	--	0.6	--
	12-Jan-2001			23.41	32.03	310	2.4	2.2	4.4	10	ND	--	0.7	--
	27-Sep-2000			23.09	32 35	430	ND	ND	44	ND	ND	ND	1	--
MW-4		20 - 40?	55.71											
	13-Jun-2002			23.15	32.56	ND	ND	ND	ND	ND	ND	--	0.20	392
	21-Mar-2002			22.15	33.56	ND	ND	ND	ND	ND	ND	--	0.2	--
	18-Dec-2001			23 80	31.91	ND	ND	0 9	ND	ND	ND	--	--	--
	20-Sep-2001			24.32	31.39	ND	ND	ND	ND	ND	ND	--	0.4	--
	20-Jun-2001			23.74	31 97	ND	ND	ND	ND	ND	ND	--	--	--
	29-Mar-2001			22 22	33 49	ND	ND	4 2	ND	ND	ND	--	0.5	--
	12-Jan-2001			23 60	32 11	ND	ND	ND	ND	ND	ND	--	0.7	--
	27-Sep-2000			23 25	32 46	ND	ND	ND	ND	ND	ND	ND	2.5	--
MW-5		25 - 45	56 03											
	13-Jun-2002			23.57	32 46	1,500	24	16	120	110	ND*	--	0 06	144
	21-Mar-2002			24.69	31.34	360	11	9.4	28	62	ND	--	0 1	--
	18-Dec-2001			23 15	32 88	780	21	12	86	94	ND*	--	--	--
	20-Sep-2001			24.75	31.28	2,300	46	41	280	330	ND*	--	0.3	--
	20-Jun-2001			24 15	31.88	6,500	120	130	740	940	ND*	--	--	--
	29-Mar-2001			22 69	33 34	13,000	220	510	1,000	2,700	ND*	--	0.4	--
	12-Jan-2001			23 97	32 06	1,100	62	40	150	290	ND*	--	0 3	--
	27-Sep-2000			23.69	32 34	18,000	840	2.9	1,200	3,500	< 30	ND	0.4	--
MW-6		25 - 45	56.01											
	13-Jun-2002			23.53	32.48	1,600	<1 25	4 7	67	5.3	< 1.5*	--	0.53	233
	21-Mar-2002			23 11	32.90	750	0.77	1 2	39	3 2	ND*	--	0.1	--
	18-Dec-2001			24 16	31 85	3,700	33	8 7	320	110	< 1.5*	--	--	--
	20-Sep-2001			24 72	31.29	2,500	11	8 6	240	94	ND*	--	0.3	--
	20-Jun-2001			24 13	31 88	1,800	14	4.6	160	79	ND*	--	--	--
	29-Mar-2001			22 56	33 45	610	2 2	ND	37	4.6	ND*	--	0 5	--
	12-Jan-2001			23.97	32 04	2,300	16	3.5	290	83	ND*	--	0 5	--
	27-Sep-2000			23.56	32 45	1,300	ND	4.3	200	17	ND	ND	0.5	--

Table 1: Summary of Groundwater Elevation and PHC Analytical Data
Former Harbert Transportation Facility, 19984 Meekland Avenue, Hayward, Ca.
Weber, Hayes and Associates Project H9042

Well I.D.	Date	Screened Interval (feet below ground surface)	Surveyed T.O.C. Elevation (feet)	Depth to Groundwater (feet below ground surface)	Calculated Groundwater Elevation (feet)	Laboratory Analytical Results							Field Measurements	
						TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	F.O.'s (ug/L)	D.O. (mg/L)	ORP (mV)
MW-7		25 - 45	56.66											
	13-Jun-2002			24 07	32 59	ND	ND	ND	ND	ND	ND	--	0 20	370
	21-Mar-2002			23 05	33.61	ND	ND	ND	ND	ND	ND	--	0	--
	18-Dec-2001			24 70	31.96	290	ND	ND	119	4.6	ND	--	--	--
	20-Sep-2001			25.27	31.39	290	0.98	ND	12	4.5	ND*	--	0 4	--
	20-Jun-2001			24.68	31 98	430	2.4	0.96	30	9.7	ND*	--	--	--
	29-Mar-2001			23.10	33.56	ND	ND	ND	ND	ND	ND	--	0.5	--
	12-Jan-2001			24 49	32.17	1,600	13	0.86	150	35	ND*	--	0.5	--
	27-Sep-2000			24.18	32.48	270	13	6 6	11	ND	ND	ND	0.5	--
MW-8		20 - 40	56.16											
	13-Jun-2002			23 54	32 62	ND	ND	ND	ND	ND	ND	--	1 96	394
	21-Mar-2002			22 51	33 65	ND	ND	ND	ND	ND	ND	--	2.4	--
	18-Dec-2001			24 16	32 00	ND	ND	ND	ND	ND	ND	--	--	--
	20-Sep-2001			24 68	31.48	ND	ND	ND	ND	ND	ND	--	1 6	--
	20-Jun-2001			24 09	32.07	ND	ND	ND	ND	ND	ND	--	--	--
	29-Mar-2001			22.56	33.60	ND	ND	0 8	ND	ND	ND	--	1 9	--
	12-Jan-2001			23.93	32.23	ND	ND	ND	ND	ND	ND	--	2 1	--
	27-Sep-2000			23.59	32 57	ND	ND	ND	ND	ND	ND	ND	1.9	--
MW-9		20 - 40	55 21											
	13-Jun-2002			22.76	32 45	5,100	140	21	490	300	< 1.5*	--	0.14	135
	21-Mar-2002			21 76	33.45	510	26	4 6	50	52	ND	--	0.1	--
	18-Dec-2001			23.38	31.83	6,400	640	120	630	1,300	< 1.5*	--	--	--
	20-Sep-2001			23.94	31.27	3,400	270	38.0	390	430	ND*	--	0 3	--
	20-Jun-2001			23.36	31.85	8,300	330	88 0	850	1,700	< 0 6*	--	--	--
	29-Mar-2001			21.61	33 60	1,600	110	14.0	240	150	ND*	--	0.4	--
	12-Jan-2001			23 17	32.04	10,000	550	110 0	1,200	2,200	ND*	--	0.5	--
	27-Sep-2000			22 90	32.31	1,000	40	6.7	110	55	ND	ND	0 5	--
MW-10		25 - 40	54.74											
	13-Jun-2002			22.56	32.18	1,700	0.77	6 2	3.3	2.9	< 0.3*	--	0.28	201
	21-Mar-2002			21 53	33.21	1,500	ND	11	3.1	ND	ND*	--	0.1	--
	18-Dec-2001			21.11	33.63	1,500	7 9	2 9	ND	ND	< 0.6*	--	--	--
	20-Sep-2001			23 70	31.04	1,200	6	9.9	1.2	3.9	ND*	--	0 4	--
	20-Jun-2001			23.17	31.57	810****	3	1 6	5 1	13	ND*	--	--	--
	29-Mar-2001			21 63	33.11	600****	2	0.65	ND	0.72	ND	--	0.5	--
	12-Jan-2001			22.99	31 75	530	3.7	1 9	2 1	4 5	ND	--	0 6	--
	27-Sep-2000			22.72	32 02	880	ND	ND	ND	ND	ND	ND	0 4	--

Table 1: Summary of Groundwater Elevation and PHC Analytical Data
Former Harbert Transportation Facility, 19984 Meekland Avenue, Hayward, Ca.
Weber, Hayes and Associates Project H9042

Well I.D.	Date	Screened Interval (feet below ground surface)	Surveyed T.O.C. Elevation (feet)	Depth to Groundwater (feet below ground surface)	Calculated Groundwater Elevation (feet)	Laboratory Analytical Results							Field Measurements	
						TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	F.O.'s (ug/L)	D.O. (mg/L)	ORP (mV)
MW-11		25 - 40	55.20											
	13-Jun-2002			22.78	31.96	ND	ND	ND	ND	ND	ND	--	0.15	380
	21-Mar-2002			21.76	32.98	ND	ND	ND	ND	ND	ND	--	0.1	--
	18-Dec-2001			23.39	31.35	ND	ND	0.56	ND	ND	ND	--	--	--
	20-Sep-2001			23.87	30.87	ND	ND	ND	ND	ND	ND	--	0.4	--
	20-Jun-2001			23.39	31.35	ND	ND	ND	ND	ND	ND	--	--	--
	29-Mar-2001			21.84	32.90	ND	ND	4.5	ND	ND	ND	--	0.6	--
	12-Jan-2001			23.21	31.53	ND	ND	2.1	ND	ND	ND	--	0.6	--
	27-Sep-2000			22.43	32.31	63	ND	ND	ND	ND	ND	ND	0.6	--
MW-12		25 - 40	56.49											
	13-Jun-2002			23.86	32.63	ND	ND	ND	ND	ND	ND	--	0.51	400
	21-Mar-2002			22.86	33.63	ND	ND	ND	ND	ND	ND	--	0.7	--
	18-Dec-2001			24.49	32.00	ND	ND	0.86	ND	ND	ND	--	--	--
	20-Sep-2001			24.95	31.54	ND	ND	ND	ND	ND	ND	--	0.7	--
	20-Jun-2001			24.47	32.02	ND	ND	ND	ND	ND	ND	--	--	--
	29-Mar-2001			22.91	33.58	ND	ND	5.0	ND	ND	ND	--	1	--
	12-Jan-2001			24.28	32.21	ND	ND	1.1	ND	ND	ND	--	1	--
	27-Sep-2000			23.98	32.51	ND	ND	ND	ND	ND	ND	ND	1.2	--
Laboratory's Practical Quantitation Limit (PQL):						**50**	**0.5**	**0.5**	**0.5**	**1**	**5**	**5**	**Field Instrument**	Field Instrument
State Maximum Contaminant Level (MCL):						**1,000****	**1**	**150**	**700**	**1,750**	**5*****	**0.5**		

Notes:
T.O.C. = Top of Casing Elevation. Calculated groundwater elevation = TOC - Depth to Groundwater. Referenced to NGVD
TPH-g = Total Petroleum Hydrocarbons as gasoline. MTBE = Methy - tert - Butyl Ether.
F.O.'s = Fuel Oxygenates = Di-isopropyl ether (DIPE), tertiary Butyl Alcohol (TBA), Ethyl tertiary Butyl Ether (ETBE), tertiary amyl Methyl Ether (TAME)
VOC's = Volatile Organic Compounds. D.O. = Dissolved Oxygen
ug/L = micrograms per liter, parts per billion, mg/L = milligrams per liter, parts per million
ND = Not Detected at the Practical Quantitation Limit (PQL), <X = Not Detected at the elevated PQL, X = PQL elevated because of sample dilution
-- = Data not collected or measured, or analysis not conducted
MCL = Maximum Contaminant Level for drinking water in California (Department of Health Services)
* Confirmed by GC/MS method 8260
** = Action Level. *** = Secondary MCL / water quality goal
**** = Laboratory Report indicates results within quantitation range, chromatographic pattern not typical of fuel

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Fax: (831) 722-1159

Letter of Transmittal

to: Mr. Jerry Harbert
46765 Mountain Cove Drive
Indian Wells, California 92210

from: Craig Drizin

re: Harbert Transportation, 19984 Meekland Avenue, Hayward, California

date: January 9, 2001

Number of Copies	Date of Documents	Description
1	September 12, 2002	Groundwater Monitoring Report - Second Quarter 2002

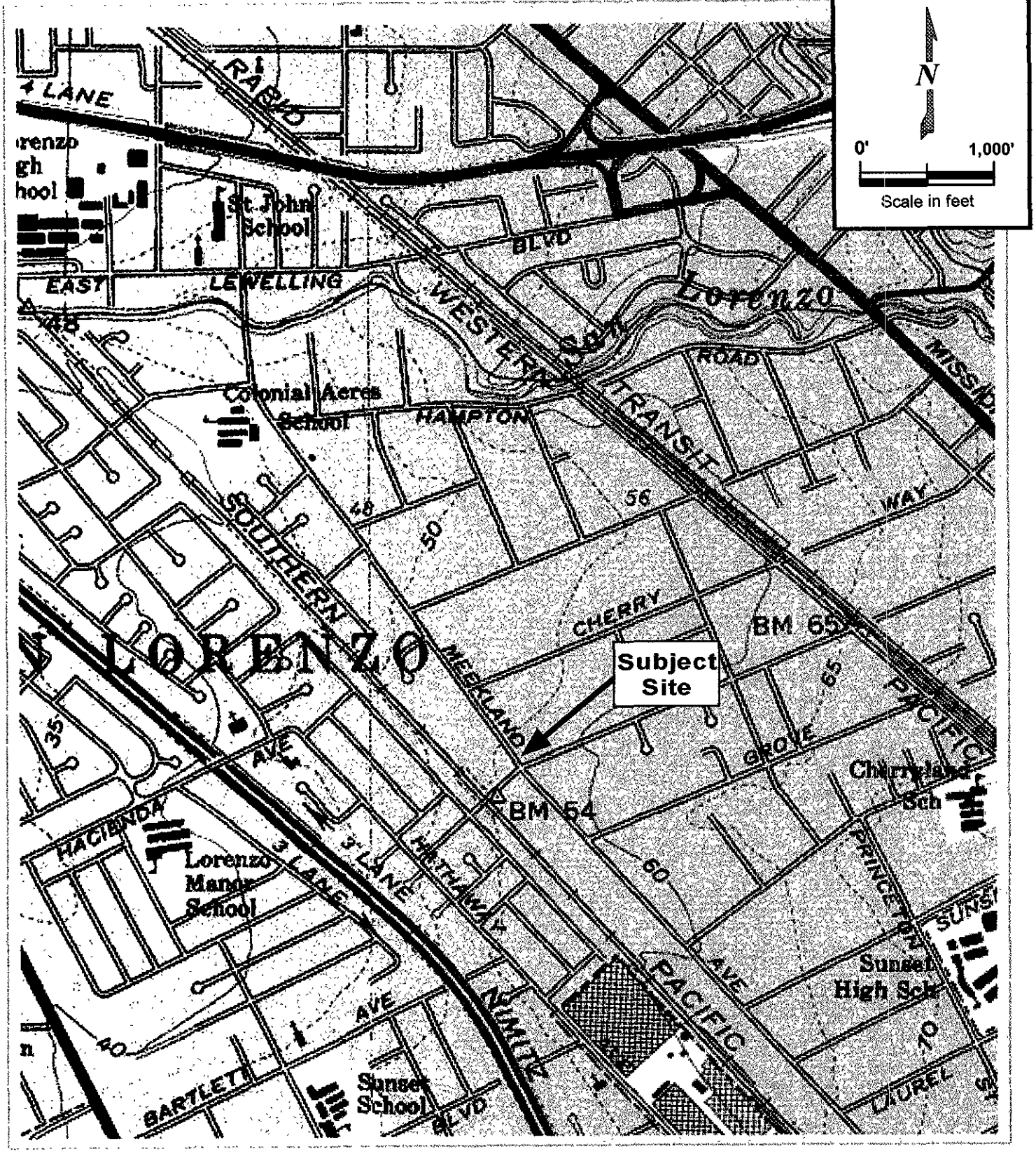
c: Mr. Amir K. Gholami
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502 - 6577

Mr. Jeff Lawson
Silicon Valley Law Group
152 N. Third Street, Suite 900
San Jose, California 95112

Ms. Laurie Berger
905 Emerald Hill Road
Redwood City, California 94061

Mr. Gregg Petersen
Durham Transportation
9011 Mountain Ridge Drive, Travis Building, Suite 200
Austin, Texas 78759 - 7275

Mr. Chuck Headlee
San Francisco Bay Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, California 94612



craig\\c:\ajob\h9042\figures\F1-loc.cnv

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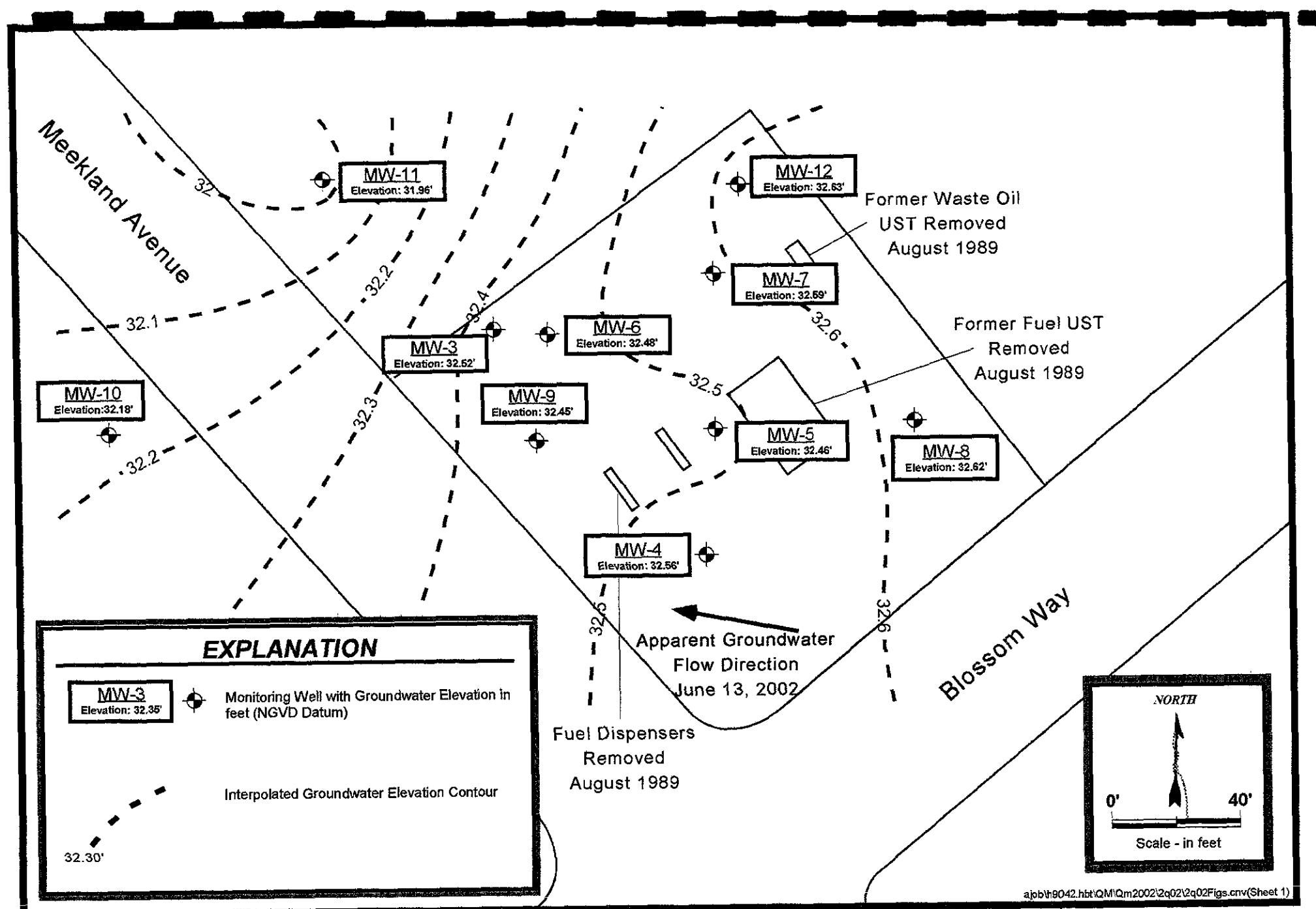
Location Map
Former Harbert Transportation Facility
19984 Meekland Avenue
Hayward, California

Figure 1
Job # H9042



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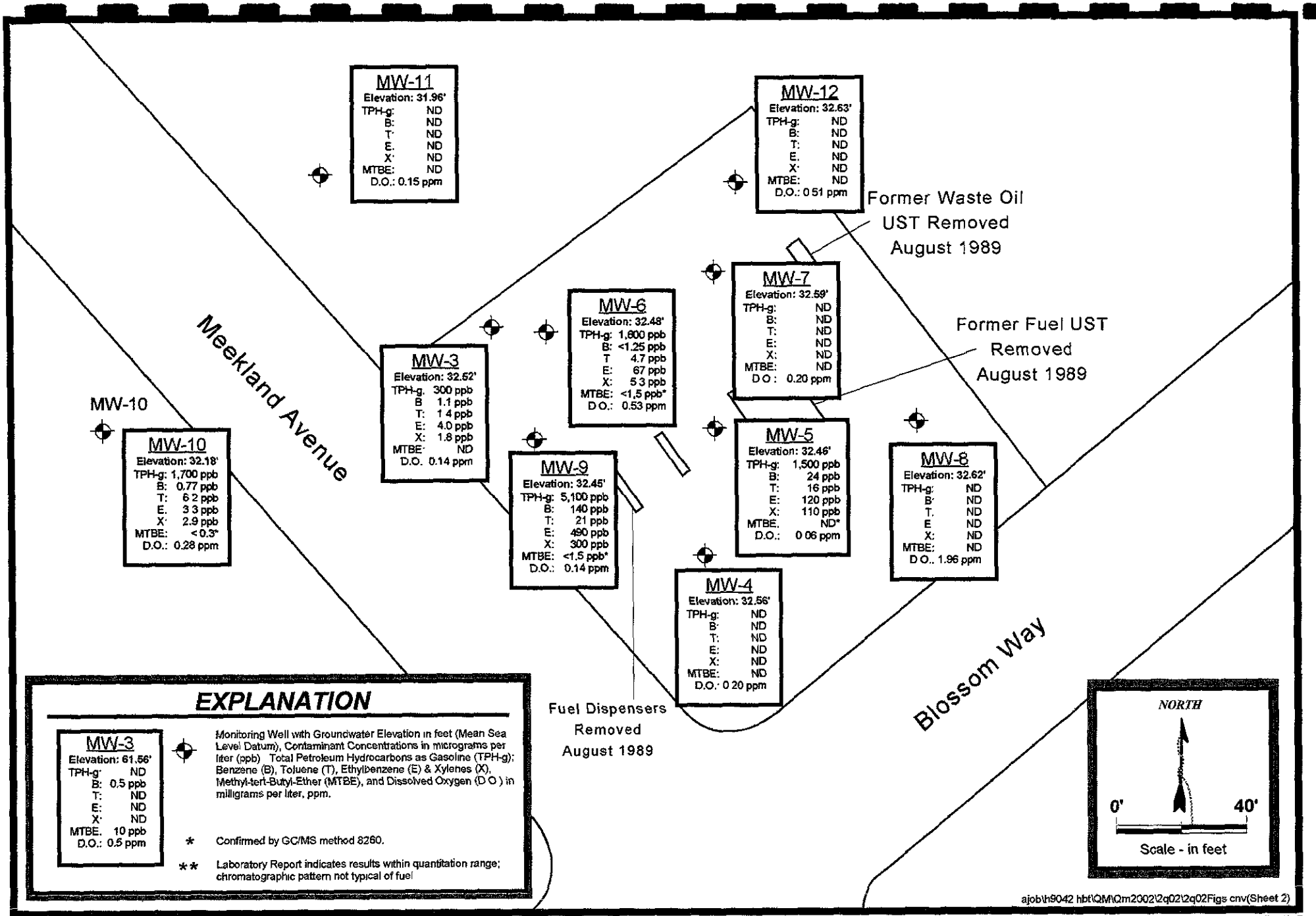
Site Plan with Groundwater Elevations
June 13, 2002
Former Harbert Transportation Facility
19984 Meekland Avenue, Hayward, California

Figure 2
Project H9042



EXPLANATION

MW-3
Elevation: 61.56'
TPH-g: ND
B: 0.5 ppb
T: ND
E: ND
X: ND
MTBE: 10 ppb
D.O.: 0.5 ppm

Monitoring Well with Groundwater Elevation in feet (Mean Sea Level Datum), Contaminant Concentrations in micrograms per liter (ppb) Total Petroleum Hydrocarbons as Gasoline (TPH-g); Benzene (B), Toluene (T), Ethylbenzene (E) & Xylenes (X), Methyl-tert-Butyl-Ether (MTBE), and Dissolved Oxygen (D.O.) in milligrams per liter, ppm.

* Confirmed by GC/MS method 8260.

** Laboratory Report indicates results within quantitation range; chromatographic pattern not typical of fuel

ajob\h9042 hbt\QM\Qm2002\2q02\2q02Figs cnv(Sheet 2)

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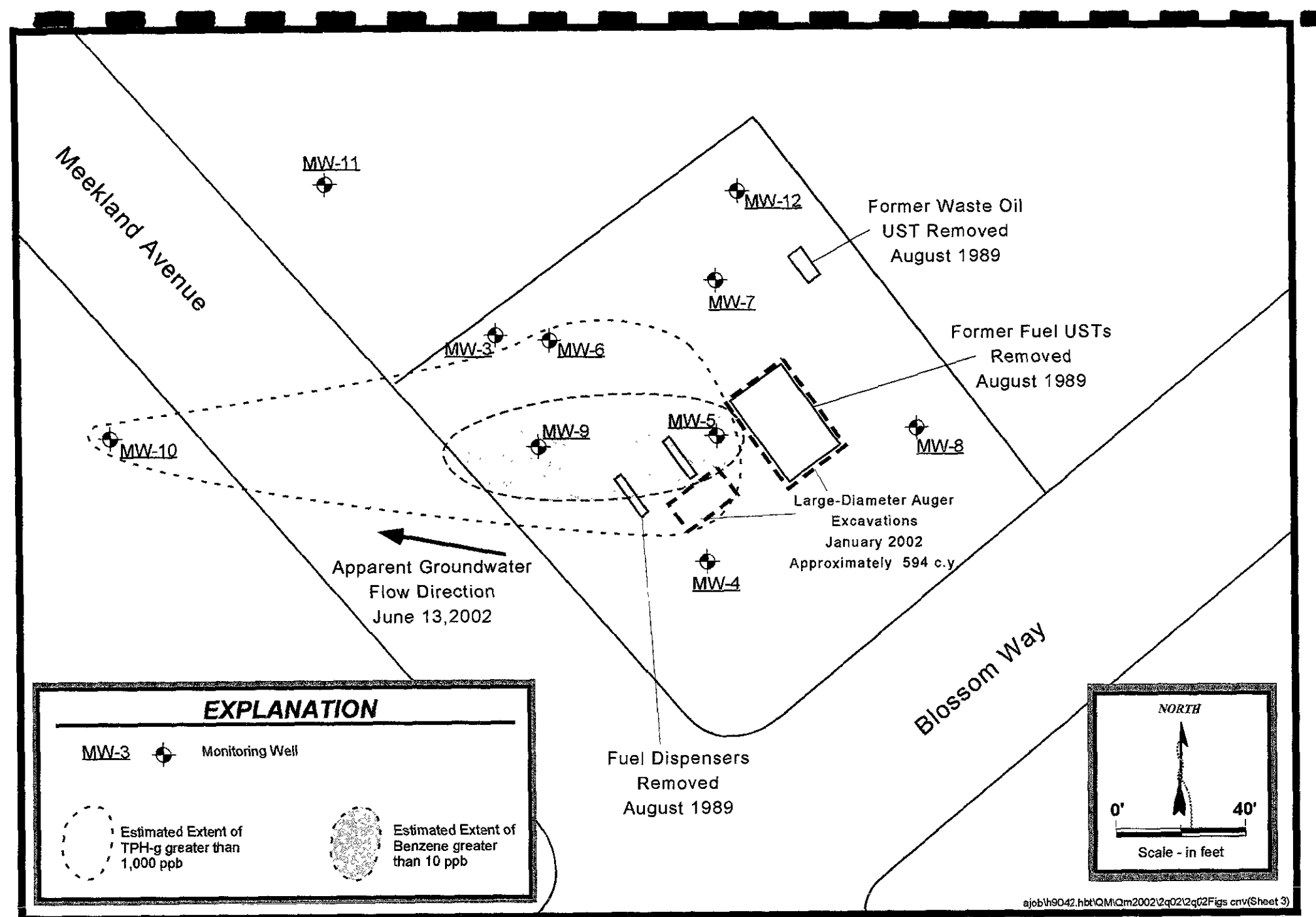
Site Plan with PHC Concentrations in Groundwater

June 13, 2002

Former Harbert Transportation Facility
19984 Meekland Avenue, Hayward, California

Figure 3
Project H9042



ajob\h9042.hbt\QM\Qm2002\2q02\2q02Figs cnv(Sheet 3)

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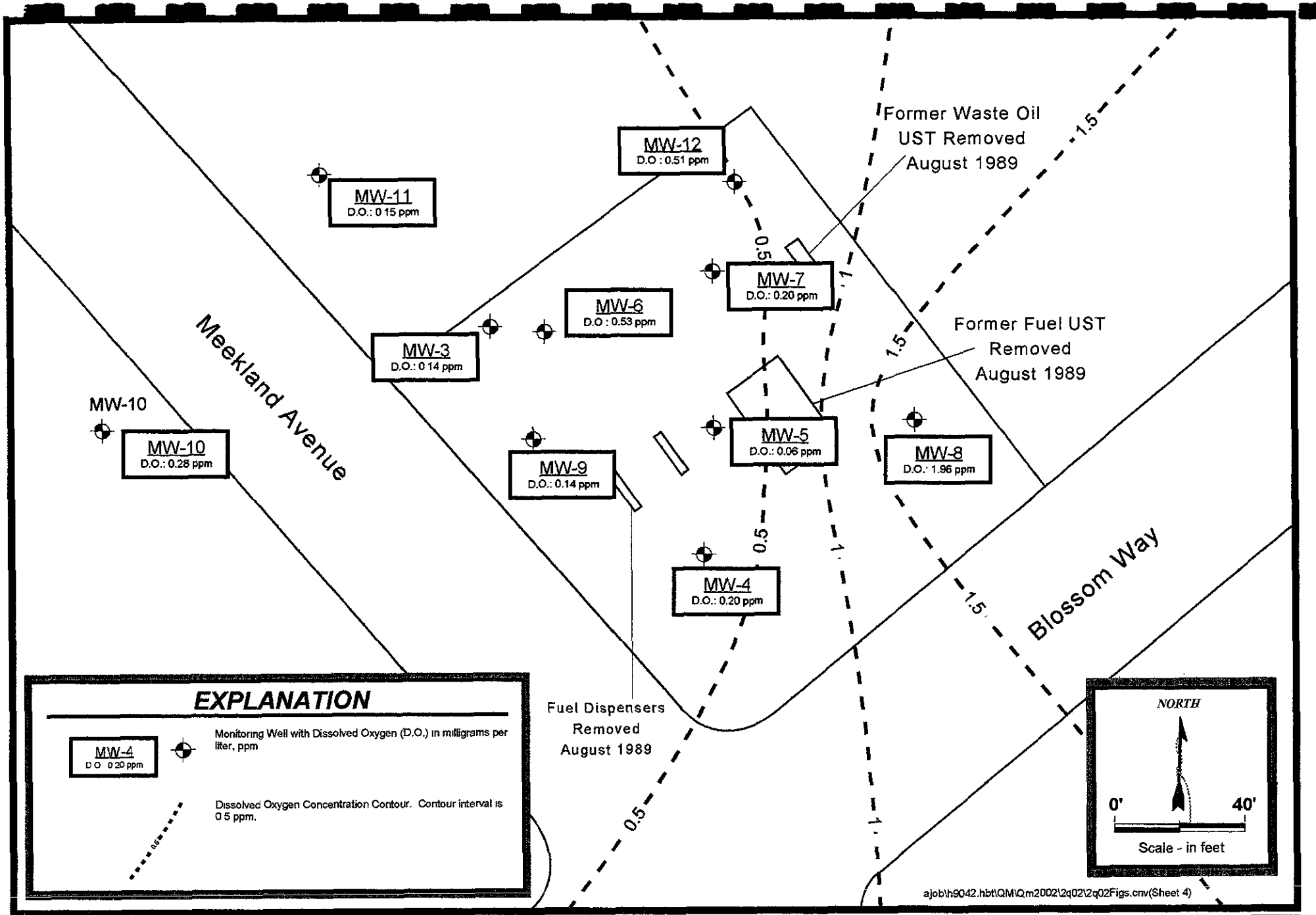
Site Plan with Extent of TPH-g and Benzene in Groundwater, June 13, 2002
Former Harbert Transportation Facility
19984 Meekland Avenue, Hayward, California

Figure 4 Project H9042



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Site Plan with Dissolved Oxygen Contours

June 13, 2002

Former Harbert Transportation Facility
19984 Meekland Avenue, Hayward, California

Figure 5
Project H9042

Figure 6

TPH-g and Elevation MW-5 and MW-9

Harbert Transportation

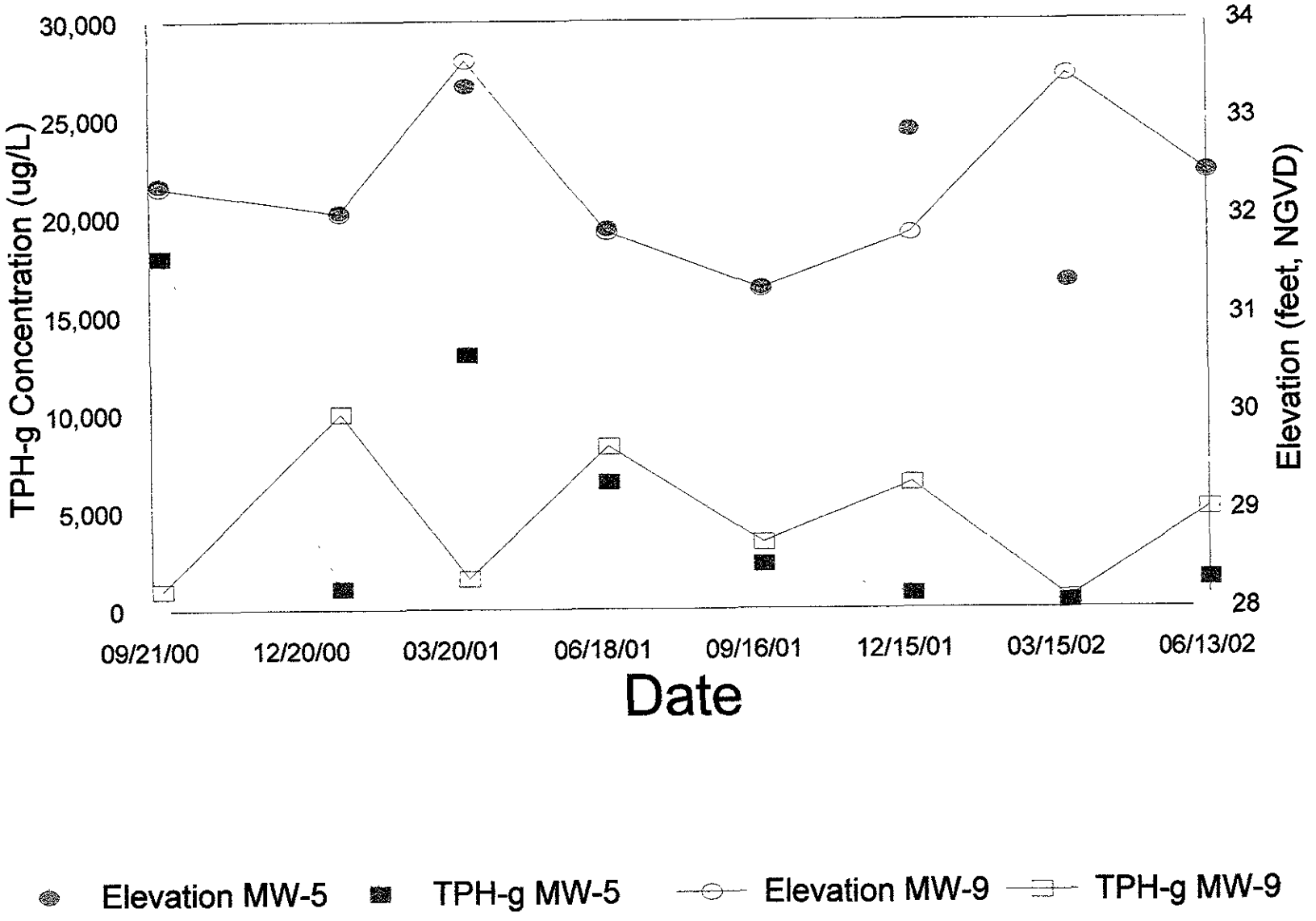
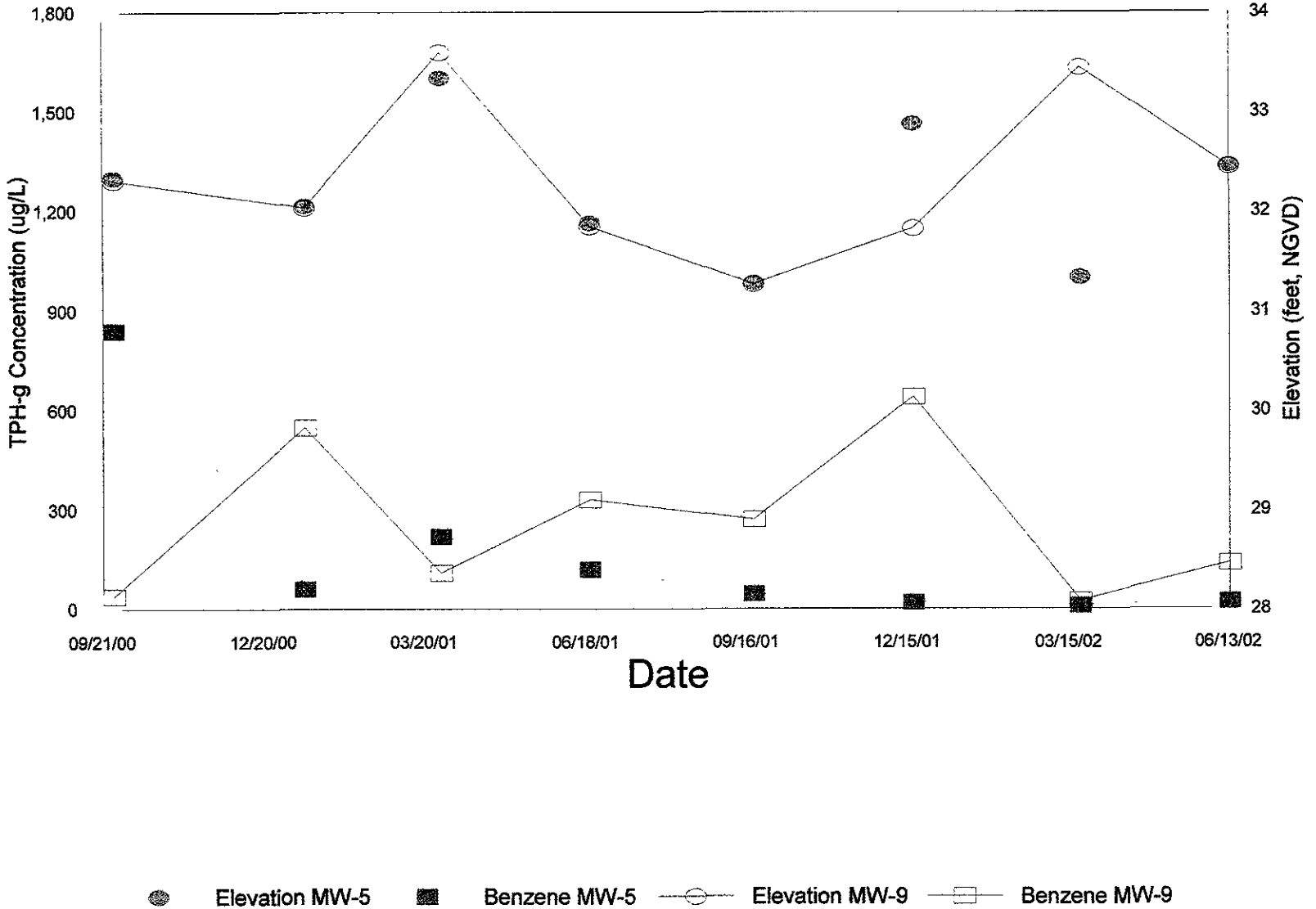


Figure 7

Benzene and Elevation MW-5 and MW-9

Harbert Transportation



Appendix A

Field Methodologies for Groundwater Monitoring and Field Data Forms

Appendix A

Field Methodologies for Groundwater Monitoring

Weber, Hayes and Associates' groundwater monitoring field methodology is based on procedures specified in the *LUFT Field Manual.* The first step in groundwater well sampling is for Weber, Hayes and Associates field personnel to measure the depth-to-groundwater to the nearest hundredth (0.01) of a foot with an electric sounder. If the well appears to be pressurized, or the groundwater level is fluctuating, measurements are made until the groundwater levels stabilizes, and a final depth-to groundwater measurement is taken and recorded. After the depth-to-groundwater is measured, the well is then checked for the presence of free product with a clear, disposable polyethylene bailer. If free product is present, the thickness of the layer is recorded, and the product is bailed to a sheen. All field data (depth-to-groundwater, well purge volume, physical parameters, and sampling method) is recorded on field data sheets (see attached). Because removing free product may skew the data, wells that contain free product are not used in groundwater elevation and gradient calculations.

After measuring the depth-to-groundwater, each well, starting with the cleanest well (based on analytical results from the last sampling event), is purged with a low flow submersible electric pump. During purging the physical parameters of temperature, conductivity, pH, dissolved oxygen (D.O.) concentration, and Oxidation-Reduction Potential (ORP) of the purge water are monitored with a QED MP20 Micropurge Flow-Through-Cell and Meter to insure that these parameters have stabilized (are within ~ 15 percent of the previous measurement). The QED MP20 Meter is capable of contiguously monitoring the physical parameters of the purge water via the flow through cell and providing an alarm to indicate when the physical parameters have stabilized to the users specifications. Purging is determined to be complete (stabilized aquifer conditions reached) after the removal of approximately three to five well volumes of water or when the physical parameters have stabilized. Dissolved oxygen and ORP measurements are used as an indicator of intrinsic bioremediation within the contaminant plume. All field instruments are calibrated before use.

All purge water is stored on site in DOT-approved, 55-gallon drums for disposal by a state-licensed contractor pending laboratory analysis for fuel hydrocarbons.

After purging, the water level in the well is allowed to recover to 80 percent of its original depth before a sample is collected. After water level recovery, a groundwater sample is collected from each well with a new, disposable bailer, and decanted into the appropriate laboratory-supplied sample container(s). The sample containers at this site were 40-ml. vials. Each vial was filled until a convex meniscus formed above the vial rim, then sealed with a Teflon®-septum cap, and inverted to insure that there were no air bubbles or head space in the vial. All samples are labeled in the field and transported in insulated containers cooled with blue ice to state-certified laboratories under proper chain of custody procedures.

All field and sampling equipment is decontaminated before, between, and after measurements or sampling by washing in an Liqui-Nox and tap water solution, rinsing with tap water, and rinsing with distilled water.

Weber, Hayes & Associates

Hydrogeology and Environmental Engineering

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INDICATE ATTACHMENTS THAT APPLY

X	Data Sheets
X	COC's
___	Site Map
___	Photo Sheet
X	Chargeable Materials

Job Name: **Harbert Transportation**	*Date:* **6/13/02**
Field Location: **19984 Meekland Avenue, Hayward**	*Study #:* **H9042.Q**
Field Tasks: ☐ *Drilling* ☑ *Sampling* ☑ *Other* ***2nd Quarter 2002 Well Sampling***	*Weather Conditions:* Foggy + Cool
Personnel/Company onsite: (Weber, Hayes and Associates) **Chad Taylor**	

FIELD WORK PLANNING: Performed on: **6/12/02**

Meet with project manager: **X** yes, or no.

Number of wells to be sampled: **Ten Wells, with D.O. in all wells**
Sample wells: **MW-3, 4, 5, 6, 7, 8, 9, 10, 11, 12 for TPH-g, BTEX, and MTBE.**

Proposed sampling date: **6/13/02**

TIME: 0645
Arrive onsite to perform 2nd Quarter Monitoring Well Sampling.

COMMENTS:
Send all analytical to Entech Analytical Laboratory.

INITIALS:

CT -All sampling is conducted according to Standard Operating Procedure (SOP) 10I/
-Water Quality Sampling Information for each well sampled is recorded on following pages.
-Upon sampling, all samples are placed immediately in coolers containing blue ice.
-After sampling each well all equipment is decontaminated according to SOP 10B/.
-All purge water is properly disposed in 55-gallon drums to be purged at a later date.
-All samples are recorded on field Chain-of-Custody Sheets for transport to Laboratory.

BEGIN CALIBRATION:

CT QED MP20 Flow Through Cell: Temp = 16.21°C, pH = 7.00 & 10.00, EC = 1.413 mS/cm Barometric Pressure = 770
D.O. % Saturation = 100%, ORP = NA

BEGIN SAMPLING ALL WELLS:

MW-8 MW-4 MW-12 MW-7 MW-11 MW-3 MW-6 MW-10 MW-5 MW-9 ___ ___
-See information below for general monitoring well information this sampling round.

COMMENTS:
All well will be purged until the QED MP20 unit indicates that the water quality parameters (pH, Conductivity, Temp, D.O., and ORP) have stabilized to within ~ 15 % or once four casing volumes in the column requiring sampling have been removed(see Water Quality Sampling Field Forms for details). Wells will be purged from bottom-up and will follow standard operating procedures by WHA. Wells will be sampled using a bladder pump, or disposable bailer.

6/13/02

E:\AJOB\H9042.hbt\QM\QM2002\2q02\QMFIELD.WPD *Signature of Field Personnel & Date*

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Fax: (831) 722-1159

Location	GW Depth (TOC)	Total Depth of Well	D.O. (mg/L)	ORP (mV)	Floating Product (comments).
MW-3	22.92'	40'	0.14	194	No FP, Slight Odor
MW-4	23.15	40'	0.20	~~6.87~~ (RE) 392	No FP, No Odor
MW-5	23.57	45'	0.06	144	No FP, Slight Odor.
MW-6	23.53'	45'	0.55	233	No FP, Slight Odor
MW-7	24.07'	40'	0.20	370	No FP, No Odor
MW-8	23.54'	40'	1.96	394	No FP, No Odor
MW-9	22.76'	40'	0.14	135	No FP, Slight-Moderate Odor
MW-10	22.56'	40'	0.28	201	No FP, Mod-High Odor
MW-11	22.78'	40'	0.15	380	No FP, No Odor
MW-12	23.86'	40'	0.51	400	No FP, No Odor

@ 6/13/02

HOW MANY PURGE DRUMS WERE LEFT ONSITE 6. APPROXIMATE GAL. 200.
CALL ~~BAYSIDE~~ OIL ON _____ TO HAVE DRUMS PURGED.
DRUMS WILL BE PURGED ON _____.

6/13/02

E:\AJOB\H9042.hbt\QM\QM2002\2q02\QMFIELD.WPD

Signature of Field Personnel & Date

GROUNDWATER MONITORING WELL SAMPLING INFORMATION

Project Name/No.: Hubert Transportation / H9042.0 **Date:** 6/13/02

Sample No.: MW-3 **Sample Location:** MW-3

Samplers Name: Chad Ryle **Recorded by:** CT

Purge Equipment:

____ Bailer: Disposable or Acrylic
X Whaler # 1
____ Bladder Pump
____ Submersible Pump

Sample Equipment:

X Disposable Bailer
____ Whaler # ____
____ Bladder Pump
____ Submersible Pump

Analyses Requested (cricle all that apply):

TPH-gas, BTEX, MTBE, ~~1,2-DCA, EDB, 8260 Fuel Oxygenates~~
~~TPH diesel, Stoddard Solvent~~
~~Intrinsic Bio. Parameters~~

Number and Types of Bottle Used:

5x4 oz VOA's,

Well Number: MW-3
Depth to Water: 22.92' TOC
Well Depth: 40' BGS or TOC
Height W-Column: 17.08' feet (well depth - depth to water)
Volume in Well: 2.7328 gallons (casing volume X height)
Gallons to purge: 10.93 gallons (volume X 4)

Well Diameter: 2" with Casing Volume of:
2" = (0.16 Gallon/Feet
4" = (0.65 Gallon/Feet
5" = (1.02 Gallon/Feet
6" = (1.47 Gallon/Feet
8" = (2.61 Gallon/Feet

Lab: Entech **Transportation:** Courier

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Paramaters Stabilized
1103	0	16.30	0.551	9.38	6.83	344	Low. Clear-Brown, Minor Fines	
1105	2	18.61	0.706	2.10	6.93	235	Low. Clear, Trace Fines	
1108	4	18.71	0.704	0.41	6.91	198	↓	
1110	6	18.73	0.703	0.23	6.93	196	↓	
1112	8	18.73	0.703	0.18	6.92	195	↓	
1114	10	18.76	0.702	0.15	6.92	194	↓	
1116	12	18.78	0.702	0.14	6.92	194	↓	✓
STOP - Purge Complete.								
CT 6/13/02								

Wait for 80% well volume recovery prior to sampling.

Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of orginal well volume:

Original Height of Water Column = 17.08 x 0.8 = 13.664' - (Well Depth) 40' = Depth to water 26.34'

Time: 1118 1st measured depth to water, 22.99' feet below
Time: ____ 1st measured depth to water, ____ feet below
Time: ____ 1st measured depth to water, ____ feet below

Is well within 80% of original well casing volume: Yes ✓ No____
Is well within 80% of original well casing volume: Yes ____ No
Is well within 80% of original well casing volume: Yes ____ No

Sample Well

Time: 1118 Sample ID: MW-3 Depth: 22.99' feet below TOC

Comments: No Floaty Product Slight Odor.

GROUNDWATER MONITORING WELL SAMPLING INFORMATION

Project Name/No.: Hurbert Transportation / H9042.Q **Date:** 6/13/11

Sample No.: MW-4 **Sample Location:** MW-4

Samplers Name: Chad Taylor **Recorded by:** CT

Purge Equipment:

- ____ Bailer: Disposable or Acrylic
- X Whaler # 1
- ____ Bladder Pump
- ____ Submersible Pump

Sample Equipment:

- X Disposable Bailer
- ____ Whaler # ____
- ____ Bladder Pump
- ____ Submersible Pump

Analyses Requested (cricle all that apply):

(TPH-gas) (BTEX) (MTBE) ~~1,2-DCA, EDB, 8260 Fuel Oxygenates~~

~~TPH-diesel, Stoddard Solvent~~

~~Intrinsic Bio. Parameters~~

Number and Types of Bottle Used:

5x40mL VOA's

Well Number: MW-4
Depth to Water: 23.15' TOC
Well Depth: 40' BGS or TOC
Height W-Column: 16.85' feet (well depth - depth to water)
Volume In Well: 2.696 gallons (casing volume X height)
Gallons to purge: 10.78 gallons (volume X 4)

Well Diameter: 2" with Casing Volume of:

- (2" = (0.16 Gallon/Feet))
- 4" = (0.65 Gallon/Feet)
- 5" = (1.02 Gallon/Feet)
- 6" = (1.47 Gallon/Feet)
- 8" = (2.61 Gallon/Feet)

Lab: Entech **Transportation:** Courier

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Paramaters Stabilized
0820	0	14.47	0.372	9.03	6.68	407	High: Brown, Many Fines	
0822	2	18.73	0.658	1.56	1.88	398	Moderate: Brown, Moderate Fines	
0826	4	18.94	0.657	0.60	6.87	399	Low: Clear-Brown, Minor Fines	
0830	6	18.96	0.660	0.37	6.87	398	Low: Clear, Trace Fines	
0833	8	18.95	0.663	0.29	6.87	396	↓	
0835	10	18.93	0.665	0.22	6.88	394	↓	
0838	12	18.93	0.667	0.20	6.87	392	↓	✓
STOP - Purge Complete.								

Wait for 80% well volume recovery prior to sampling.

Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of orginal well volume:

Original Height of Water Column = 16.85' x 0.8 = 13.48' - (Well Depth) 40' = Depth to water 26.52'

Time: 0831 1st measured depth to water, 23.26' feet below TOC — Is well within 80% of original well casing volume: Yes ___ No ___

Time: ___ 1st measured depth to water, ___ feet below TOC — Is well within 80% of original well casing volume: Yes ___ No ___

Time: ___ 1st measured depth to water, ___ feet below TOC — Is well within 80% of original well casing volume: Yes ___ No ___

Sample Well

Time: 0839 Sample ID: MW-4 Depth: 23.26' feet below TOC

Comments: No Floating Product. No Odor.

GROUNDWATER MONITORING WELL SAMPLING INFORMATION

Project Name/No.: Herbert Transportation / 19042.Q **Date:** 6/13/08

Sample No.: MW-5 **Sample Location:** MW-5

Samplers Name: Ch. Tyl **Recorded by:** CT

Purge Equipment:

- ____ Bailer: Disposable or Acrylic
- X Whaler # 3
- ____ Bladder Pump
- ____ Submersible Pump

Sample Equipment:

- X Disposable Bailer
- ____ Whaler # ____
- ____ Bladder Pump
- ____ Submersible Pump

Analyses Requested (cricle all that apply):

~~TPH-gas, BTEX, MTBE, 1,2-DCA, EDB, 8260 Fuel Oxygenates~~

~~TPH-diesel, Stoddard Solvent~~

~~Intrinsic Bio. Parameters~~

Number and Types of Bottle Used: 5x40mL VOA,

Well Number: MW-5

Depth to Water: 23.57 TOC

Well Depth: 45' BGS or TOC

Height W-Column: 21.43' feet (well depth - depth to water)

Volume in Well: 13.9295 gallons (casing volume X height)

Gallons to purge: 55.72 gallons (volume X 4)

Well Diameter: 4" with Casing Volume of:

- 2" = (0.16 Gallon/Feet
- 4" = (0.65 Gallon/Feet
- 5" = (1.02 Gallon/Feet
- 6" = (1.47 Gallon/Feet
- 8" = (2.61 Gallon/Feet

Lab: Entech **Transportation:** Courier

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Parameters Stabilized
1354	0	18.54	0.614	7.20	6.72	164	High: Dark Grey, Many Fines	
1355	2	18.63	0.683	2.83	6.74	152	Low: Clear - Grey, Minor Fines	
1357	5	18.95	0.687	0.57	6.80	142		
1400	10	19.19	0.659	0.17	6.83	141		
1404	15	19.17	0.621	0.27	6.86	140		
1407	20	19.13	0.639	0.36	6.87	150		
1411	25	19.06	0.674	0.17	6.89	150		
1415	30	19.00	0.707	0.11	6.85	150		
1422	40	18.87	0.727	0.06	6.90	144	↓ ↓ ↓	✓

Wait for 80% well volume recovery prior to sampling.

Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of orginal well volume:

Original Height of Water Column = 21.43 x 0.8 = 17.144 - (Well Depth) 45' = Depth to water 31.28'

Time: 1425 1st measured depth to water, 36.25' feet below — Is well within 80% of original well casing volume: Yes ____ No ✓

Time: 1427 1st measured depth to water, 34.98' feet below — Is well within 80% of original well casing volume: Yes ____ No ✓

Time: 1436 1st measured depth to water, 30.21' feet below — Is well within 80% of original well casing volume: Yes ✓ No ____

Sample Well

Time: 1436 Sample ID: MW-5 Depth: 30.21' feet below TOC

Comments: No Floaty Product. Slight Odor.

GROUNDWATER MONITORING WELL SAMPLING INFORMATION

Project Name/No.: Hubert Transportation / H9042.Q **Date:** 6/13/08

Sample No.: MW-6 **Sample Location:** MW-6

Samplers Name: ChadTyl **Recorded by:** CT

Purge Equipment:

- ____ Bailer: Disposable or Acrylic
- X Whaler # 1
- ____ Bladder Pump
- ____ Submersible Pump

Sample Equipment:

- X Disposable Bailer
- ____ Whaler # ____
- ____ Bladder Pump
- ____ Submersible Pump

Analyses Requested (cricle all that apply):

TPH-gas, BTEX, ~~MTBE, 1,2-DCA, EDB, 8260 Fuel Oxygenates~~

~~TPH-diesel, Stoddard Solvent~~

~~Intrinsic Bio. Parameters~~

Number and Types of Bottle Used: 5 40 mL VOA's

Well Number: MW-6

Depth to Water: 23.53' TOC

Well Depth: 45' BGS or TOC

Height W-Column: 21.47' feet (well depth - depth to water)

Volume in Well: 13.9555 gallons (*casing volume X height*)

Gallons to purge: 55.822 gallons (volume X 4)

Well Diameter: 4" with Casing Volume of:

- 2" = (0.16 Gallon/Feet
- 4" = (0.65 Gallon/Feet)
- 5" = (1.02 Gallon/Feet
- 6" = (1.47 Gallon/Feet
- 8" = (2.61 Gallon/Feet

Lab: Entech **Transportation:** Courier

Time (24 hr)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Parameters Stabilized
1138	0	18.27	0.681	5.00	6.91	216	High: Dk Gry, Many Fines	
1141	3	18.66	0.670	1.11	6.82	241	Low: Clear-Gry, Many Fines	
1148	10	18.97	0.675	0.67	6.94	263	Low: Clear, Trace Fines	
1153	15	18.98	0.660	0.56	6.92	245	↓	
1158	20	19.00	0.653	0.53	6.91	233	↓	←
STOP - Parameters Stabilized. Purge Complete.								
CT 6/13/08								

Wait for 80% well volume recovery prior to sampling.

Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of orginal well volume:

Original Height of Water Column = 21.47 x 0.8 = 17.176' - (Well Depth) 45' = Depth to water 27.82'

Time: 1156 1st measured depth to water, 24.04' feet below — Is well within 80% of original well casing volume: Yes ✓ No

Time: \ 1st measured depth to water, \ feet below — Is well within 80% of original well casing volume: Yes \ No

Time: \ 1st measured depth to water, \ feet below — Is well within 80% of original well casing volume: Yes \ No

Sample Well

Time: 1158 Sample ID: MW-6 Depth: 24.04' feet below TOC

Comments: No Floaty Products Slight Odor.

GROUNDWATER MONITORING WELL SAMPLING INFORMATION

Project Name/No.: Hurbert Transportation/ H9042.Q **Date:** 6/13/02

Sample No.: MW-7 **Sample Location:** MW-7

Samplers Name: MT Chad Tyler **Recorded by:** CT

Purge Equipment:

____ Bailer: Disposable or Acrylic
X Whaler # 1
____ Bladder Pump
____ Submersible Pump

Sample Equipment:

X Disposable Bailer
____ Whaler # ____
____ Bladder Pump
____ Submersible Pump

Analyses Requested (cricle all that apply):

(TPH-gas, BTEX, MTBE), ~~1, 2 DCA, EDB, 8260 Fuel Oxygenates~~
~~TPH-diesel, Stoddard Solvent~~
~~Intrinsic Bio. Parameters~~

Number and Types of Bottle Used:

5x40mL VOA's

Well Number: MW-7
Depth to Water: 24.07 TOC
Well Depth: 40' BGS or TOC
Height W-Column: 15.93' feet (well depth - depth to water)
Volume in Well: 10.3545 gallons (casing volume X height)
Gallons to purge: 41.42 gallons (volume X 4)

Well Diameter: 4" with Casing Volume of:
2" = (0.16 Gallon/Feet
4" = (0.65 Gallon/Feet
5" = (1.02 Gallon/Feet
6" = (1.47 Gallon/Feet
8" = (2.61 Gallon/Feet

Lab: Entech **Transportation:** Courier

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Paramaters Stabilized
0939	0	17.56	0.630	6.15	6.83	403	High: Brown, Many Fines	
0941	2	18.18	0.651	1.86	6.86	400	Moderate: Brown Moderate Fines	
0943	4	18.35	0.656	1.18	6.85	397	Low: Clear-Brown, Minor Fines	
0948	8	18.45	0.650	0.57	6.86	388	↓ ↓ ↓	
0952	12	18.45	0.650	0.30	6.86	380		
0957	16	18.46	0.650	0.20	6.86	370	↓ ↓ ↓	✓
STOP + Parameters Stabilized. Purge Complete.								
CT 6/13/02								

Wait for 80% well volume recovery prior to sampling.

Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of orginal well volume:

Original Height of Water Column = 15.93' x 0.8 = 12.744' - (Well Depth) 40' = Depth to water 27.26'

Time: 1000 1st measured depth to water, 24.63 feet below — Is well within 80% of original well casing volume. Yes ✓ No____
Time: ____ 1st measured depth to water, ____ feet below — Is well within 80% of original well casing volume: Yes ____ No____
Time: ____ 1st measured depth to water, ____ feet below — Is well within 80% of original well casing volume: Yes ____ No CT

Sample Well

Time: 1000 Sample ID: MW-7 Depth: 24.63 feet below TOC

Comments: No Floating Product. No Odor.

GROUNDWATER MONITORING WELL SAMPLING INFORMATION

Project Name/No.: Harbert Transportation / 119042.Q **Date:** 6/13/11

Sample No.: MW-8 **Sample Location:** MW-8

Samplers Name: Chad Taylor **Recorded by:** CT

Purge Equipment:

- ____ Bailer: Disposable or Acrylic
- X Whaler # 1
- ____ Bladder Pump
- ____ Submersible Pump

Sample Equipment:

- X Disposable Bailer
- ____ Whaler # ____
- ____ Bladder Pump
- ____ Submersible Pump

Analyses Requested (cricle all that apply):

~~TPH-gas~~, BTEX, MTBE, ~~1,2-DCA, EDB, 8260 Fuel Oxygenates~~

~~TPH diesel, Stoddard Solvent~~

~~Intrinsic Bio. Parameters~~

Number and Types of Bottle Used: 5 (40 mL VOA's)

Well Number: MW-8
Depth to Water: 23.54' TOC
Well Depth: 40' BGS or TOC
Height W-Column: 16.46' feet (well depth - depth to water)
Volume in Well: 12.699 gallons (casing volume X height)
Gallons to purge: 47.80 gallons (volume X 4)

Well Diameter: 4" with Casing Volume of:

- 2" = (0.16 Gallon/Feet)
- 4" = (0.65 Gallon/Feet)
- ~~5" = (1.02 Gallon/Feet)~~
- 6" = (1.47 Gallon/Feet)
- 8" = (2.61 Gallon/Feet)

Lab: Entech **Transportation:** Courier

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Parameters Stabilized
0726	0	17.70	0.531	5.39	7.05	380	Moderate: Brown, Minor Fines	
0728	2	18.05	0.529	2.27	7.06	368	Low: Clear-Brown, Minor Fines	
0733	5	18.20	0.553	1.42	7.04	378	Low: Clear, Trace Fines	
0739	10	18.27	0.568	1.54	7.00	388	↓	
0746	15	18.28	0.581	1.83	7.00	391	↓	
0752	20	18.28	0.586	1.93	7.00	393	↓	
0757	23	18.26	0.588	1.96	6.98	394	↓	✓
STOP - Parameters Stabilized. Purge Complete.								
CT 6/13/11								

Wait for 80% well volume recovery prior to sampling.

Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of orginal well volume:

Original Height of Water Column = 16.46' x 0.8 = 13.168' - (Well Depth) 40' = Depth to water 26.83'

Time: 0759 1st measured depth to water, 23.85' feet below TOC — Is well within 80% of original well casing volume: Yes ✓ No ____

Time: ____ 1st measured depth to water, ____ feet below TOC — Is well within 80% of original well casing volume: Yes ____ No ____

Time: ____ 1st measured depth to water, ____ feet below TOC — Is well within 80% of original well casing volume: Yes ____ No CT

Sample Well

Time: 0759 Sample ID: MW-8 Depth: 23.85' feet below TOC

Comments: No Floaty Product. No Odor

GROUNDWATER MONITORING WELL SAMPLING INFORMATION

Project Name/No.: Harbert Transportation / #9042.0 **Date:** 6/13/08

Sample No.: MW-9 **Sample Location:** MW-9

Samplers Name: Chad Tayla **Recorded by:** CT

Purge Equipment:

- ____ Bailer: Disposable or Acrylic
- X Whaler # 3
- ____ Bladder Pump
- ____ Submersible Pump

Sample Equipment:

- X Disposable Bailer
- ____ Whaler # ____
- ____ Bladder Pump
- ____ Submersible Pump

Analyses Requested (cricle all that apply):

TPH-gas, BTEX, MTBE, ~~1,2-DCA, EDB, 8260 Fuel Oxygenates~~

~~TPH-diesel, Stoddard Solvent~~

~~Intrinsic Bio. Parameters~~

Number and Types of Bottle Used: 5 x 40mL VOA's

Well Number: MW-9

Depth to Water: 22.76' TOC

Well Depth: 40' BGS or TOC

Height W-Column: 17.24' feet (well depth - depth to water)

Volume in Well: 11.206' gallons (casing volume X height)

Gallons to purge: 44.82 gallons (volume X 4)

Well Diameter: 4" with Casing Volume of:

- 2" = (0.16 Gallon/Feet
- 4" = (0.65 Gallon/Feet
- 5" = (1.02 Gallon/Feet
- 6" = (1.47 Gallon/Feet
- 8" = (2.61 Gallon/Feet

Lab: Entrix **Transportation:** Courier

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Parameters Stebilized
1318	0	19.44	0.601	7.67	6.67	196	Low: Clear - Grey, Many Fines	
1319	2	19.60	0.652	2.33	6.67	149	Low: Clear, Trace Fines	
1321	5	19.30	0.638	0.95	6.83	124	↓	
1324	10	19.37	0.626	0.49	6.86	123		
1327	15	19.39	0.627	0.27	6.86	128		
1330	20	19.39	0.630	0.16	6.88	132		
1332	23	19.40	0.627	0.14	6.87	135	↓	←
STOP - Parameters Stabilized. Purge Complete.								
Left Site								

Wait for 80% well volume recovery prior to sampling.

Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of orginal well volume:

Original Height of Water Column = 17.24' x 0.8 = 13.792' - (Well Depth) 40' = Depth to water 26.21

Time: 1334 1st measured depth to water, 23.07' feet below — Is well within 80% of original well casing volume: Yes ✓ No ____

Time: ____ 1st measured depth to water, ____ feet below — Is well within 80% of original well casing volume: Yes ____ No ____

Time: ____ 1st measured depth to water, ____ feet below — Is well within 80% of original well casing volume: Yes ____ No CT

Sample Well

Time: 1334 Sample ID: ~~23.07~~ (R6) MW-9 Depth: 23.07 feet below TOC

Comments: No Floaty Product. Slight-Moderate Odor.

GROUNDWATER MONITORING WELL SAMPLING INFORMATION

Project Name/No.: Hurbert Transportation / H9042.Q **Date:** ~~MW~~ RE-Sampled 6/13/02

Sample No.: MW-10 **Sample Location:** MW-10

Samplers Name: Charley **Recorded by:** CT

Purge Equipment:

- ____ Bailer: Disposable or Acrylic
- X Whaler # 3
- ____ Bladder Pump
- ____ Submersible Pump

Sample Equipment:

- X Disposable Bailer
- ____ Whaler # ____
- ____ Bladder Pump
- ____ Submersible Pump

Analyses Requested (cricle all that apply):

TPH-gas, BTEX, MTBE, ~~1,2 DCA, EDB, 8260 Fuel Oxygenates~~

~~TPH-diesel, Stoddard Solvent~~

~~Intrinsic Bio. Parameters~~

Number and Types of Bottle Used: 5x40-mL VOAs

Well Number: MW-10

Depth to Water: 22.56' TOC

Well Depth: 40' BGS or TOC

Height W-Column: 17.44' feet (well depth - depth to water)

Volume in Well: 11.336 gallons (casing volume X height)

Gallons to purge: 45.34 gallons (volume X 4)

Well Diameter: 4" with Casing Volume of:

- 2" = (0.16 Gallon/Feet
- 4" = (0.65 Gallon/Feet
- 5" = (1.02 Gallon/Feet
- 6" = (1.47 Gallon/Feet
- 8" = (2.61 Gallon/Feet

Lab: Entech **Transportation:** Courier

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Paramaters Stabilized
1227	0	18.17	0.995	4.85	6.72	256	Low: Clear-Brown Minor Fines	
1228	2	18.48	0.921	1.25	6.65	215	Low: Clear, Trace Fines	
1230	5	18.73	0.897	0.52	6.64	221	↓	
1234	10	18.81	0.885	0.19	6.65	201		
1239	15	18.83	0.866	0.12	6.65	203		
1243	20	18.82	0.882	0.49	6.65	202		
1247	25	18.85	0.880	0.28	6.65	201	↓	✓
STOP - Parameters Stabilized Purge Complete.								
CT 6/13/02								

Wait for 80% well volume recovery prior to sampling.

Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of orginal well volume:

Orginal Height of Water Column = 17.44' x 0.8 = 13.952' (Well Depth) 40' = Depth to water 26.05'

Time: 1248 1st measured depth to water, 22.65' feet below

Time. ____ 1st measured depth to water, ____ feet below

Time. ____ CT 1st measured depth to water, ____ CT feet below

Is well within 80% of original well casing volume: Yes ✓ No ____

Is well within 80% of original well casing volume: Yes ____ No ____

Is well within 80% of original well casing volume. Yes ____ No CT

Sample Well

Time: 1248 Sample ID: MW-10 Depth: 22.65' feet below TOC

Comments: No Floating Product. Moderate-Hyl Odor.

GROUNDWATER MONITORING WELL SAMPLING INFORMATION

Project Name/No.: Herbert Transportation / H 9042.0 **Date:** 6/13/01

Sample No.: MW-11 **Sample Location:** MW-11

Samplers Name: Chad Tyler **Recorded by:** CT

Purge Equipment:

- ____ Bailer: Disposable or Acrylic
- X Whaler # 1
- ____ Bladder Pump
- ____ Submersible Pump

Sample Equipment:

- X Disposable Bailer
- ____ Whaler # ____
- ____ Bladder Pump
- ____ Submersible Pump

Analyses Requested (cricle all that apply):

~~TPH-gas, BTEX, MTBE, 1,2-DCA, EDB, 8260 Fuel Oxygenates~~
~~TPH diesel, Stoddard Solvent~~
~~Intrinsic Bio. Parameters~~

Number and Types of Bottle Used:

5x40-L VOA's

Well Number: MW-11
Depth to Water: 22.78' TOC
Well Depth: 40' BGS or TOC
Height W-Column: 17.22' feet (well depth - depth to water)
Volume in Well: 2.7552 gallons (casing volume X height)
Gallons to purge: 11.02 gallons (volume X 4)

Well Diameter: 2" with Casing Volume of:

- 2" = (0.16 Gallon/Feet
- ~~4" = (0.65 Gallon/Feet~~
- 5" = (1.02 Gallon/Feet
- 6" = (1.47 Gallon/Feet
- 8" = (2.61 Gallon/Feet

Lab: Entech **Transportation:** Courier

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Paramaters Stabilized
1024	0	15.79	0.883	7.95	6.71	397	High: Brown, Many Fines	
1026	2	17.51	0.934	1.94	6.75	394	Moderate: Brown, Minor Fines	
1029	4	17.58	0.926	0.74	6.74	393	Low: Clear - Brown, Trace Fines	
1031	6	17.61	0.921	0.36	6.75	389		
1033	8	17.63	0.922	0.25	6.75	386	Low: Clear, Trace Fines	
1035	10	17.63	0.920	0.14	6.77	383		
1037	12	17.64	0.921	0.15	6.76	380		✓
STOP - Purge Complete								
CT 6/13/01								

Wait for 80% well volume recovery prior to sampling.

Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of orginal well volume:

Original Height of Water Column = 17.22' x 0.8 = 13.776' - (Well Depth) 40' = Depth to water 26.22'

Time: 1039 1st measured depth to water, 22.91' feet below — Is well within 80% of original well casing volume: Yes ✓ No ____
Time: ____ 1st measured depth to water, ____ feet below — Is well within 80% of original well casing volume: Yes ____ No ____
Time: ____ 1st measured depth to water, ____ feet below — Is well within 80% of original well casing volume: Yes ____ No CT

Sample Well

Time: 1039 Sample ID: MW-11 Depth: 22.91' feet below TOC

Comments: No Floating Product. No Odor

GROUNDWATER MONITORING WELL SAMPLING INFORMATION

Project Name/No.: Harbert Transportation / H9092.Q **Date:** 6/13/12

Sample No.: MW-12 **Sample Location:** MW-12

Samplers Name: Chad Taylor **Recorded by:** CT

Purge Equipment:

- ____ Bailer: Disposable or Acrylic
- X Whaler # 1
- ____ Bladder Pump
- ____ Submersible Pump

Sample Equipment:

- X Disposable Bailer
- ____ Whaler # ____
- ____ Bladder Pump
- ____ Submersible Pump

Analyses Requested (cricle all that apply):

~~TPH-gas, BTEX, MTBE, 1, 2 DCA, EDB, 8260 Fuel Oxygenates~~
~~TPH-diesel, Stoddard Solvent~~
~~Intrinsic Bio. Parameters~~

Number and Types of Bottle Used:

5x40mL VOA's

Well Number: MW-12
Depth to Water: 23.86' TOC
Well Depth: 40' BGS or TOC
Height W-Column: 16.14' feet (well depth - depth to water)
Volume in Well: 2.5824 gallons (casing volume X height)
Gallons to purge: 10.33 gallons (volume X 4)

Well Diameter: 2" with Casing Volume of:

- 2" = (0.16 Gallon/Feet
- 4" = (0.65 Gallon/Feet
- 5" = (1.02 Gallon/Feet
- 6" = (1.47 Gallon/Feet
- 8" = (2.61 Gallon/Feet

Lab: Entech **Transportation:** Courier

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Paramaters Stabilized
0901	0	16.88	0.539	6.17	6.64	392	Moderate: Brown, Moderate Fines	
0903	2	17.82	0.622	2.60	6.62	400	Low: Clear-Brown, Minor Fines	
0906	4	17.99	0.624	1.10	6.60	404	↓	
0909	6	18.01	0.626	0.73	6.64	403	↓	
0911	8	18.04	0.628	0.55	6.63	403	↓	
0913	10	18.06	0.629	0.50	6.65	401	↓	
0916	12	18.06	0.631	0.51	6.65	400	↓	✓
STOP - Purge Complete								
CT 6/13/12								

Wait for 80% well volume recovery prior to sampling.

Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of orginal well volume:

Original Height of Water Column = 16.14' x 0.8 = 12.912' - (Well Depth) 40' = Depth to water 27.09'

Time: 0919 1st measured depth to water, 23.91 feet below — Is well within 80% of original well casing volume: Yes ✓ No ____
Time: ____ 1st measured depth to water, ____ feet below — Is well within 80% of original well casing volume: Yes ____ No ____
Time: ____ 1st measured depth to water, ____ feet below — Is well within 80% of original well casing volume: Yes ____ No CT

Sample Well

Time: 0919 Sample ID: MW-12 Depth: 23.91' feet below TOC

Comments: No Floaty Product. No Odor.

Appendix B

Summary of Historical Depth to Groundwater Measurements, Groundwater Elevations, and Groundwater Flow Direction - AGI Technologies, Inc.

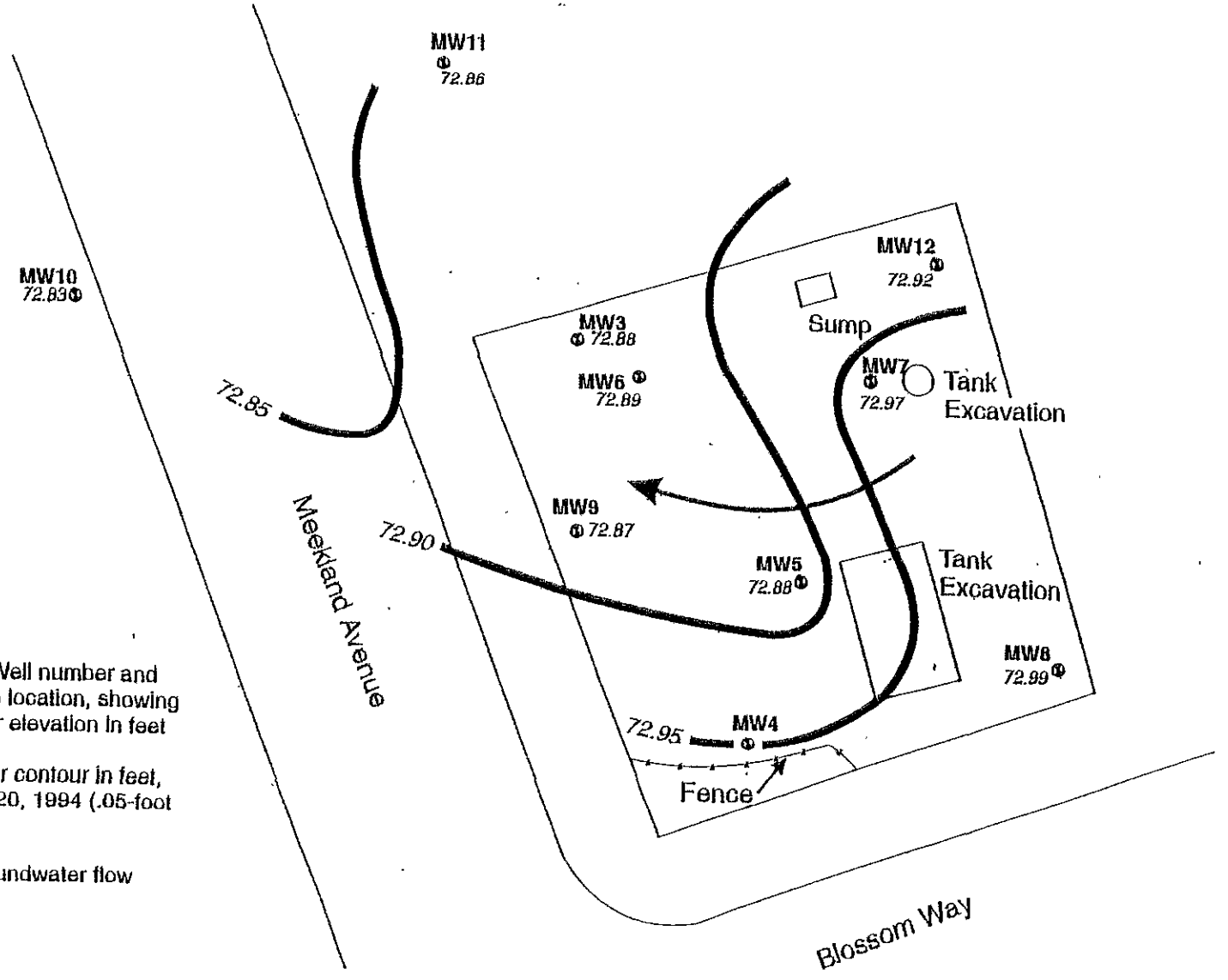
AGI TECHNOLOGIES

Table 1
Groundwater Elevation Data
Harbert Transportation/Meekland Avenue
Hayward, California

Well Number	Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (ft bgs)	Groundwater Elevation (feet)
MW3	10/20/94	100.00	27.12	72.88
	09/15/95		24.22	75.78
	03/14/96		19.02	80.98
	09/26/96		23.61	76.39
MW4	10/20/94	100.27	27.32	72.95
	09/15/95		24.42	75.85
	03/14/96		19.23	81.04
	09/26/96		23.85	76.42
MW5	10/20/94	100.59	27.71	72.88
	09/15/95		24.87	75.72
	03/14/96		19.95	80.64
	09/26/96		24.38	76.21
MW6	10/20/94	100.57	27.68	72.89
	09/15/95		24.79	75.78
	03/14/96		19.54	81.03
	09/26/96		24.20	76.37
MW7	10/20/94	101.22	28.25	72.97
	09/15/95		25.35	75.87
	03/14/96		20.06	81.16
	09/26/96		24.75	76.47
MW8	10/20/94	100.72	27.73	72.99
	09/15/95		24.81	75.91
	03/14/96		19.52	81.20
	09/26/96		24.13	76.59
MW9	10/20/94	99.77	26.90	72.87
	09/15/95		24.01	75.76
	03/14/96		18.80	80.97
	09/26/96		23.50	76.27
MW10	10/20/94	99.29	26.46	72.83
	09/15/95		23.79	75.50
	03/14/96		18.62	80.67
	09/26/96		23.30	75.99
MW11	10/20/94	99.75	26.89	72.86
	09/15/95		24.05	75.70
	03/15/96		18.79	80.96
	09/26/96		23.53	76.22
MW12	10/20/94	101.03	28.11	72.92
	09/15/95		25.19	75.84
	03/14/96		19.84	81.19
	09/26/96		24.57	76.46

Note:

ft bgs - Feet below ground surface.



LEGEND

MW10 72.83 — Monitoring Well number and approximate location, showing groundwater elevation in feet

72.90 — Groundwater contour in feet, on October 20, 1994 (.05-foot interval)

Inferred groundwater flow direction

N

0 40

Scale in Feet

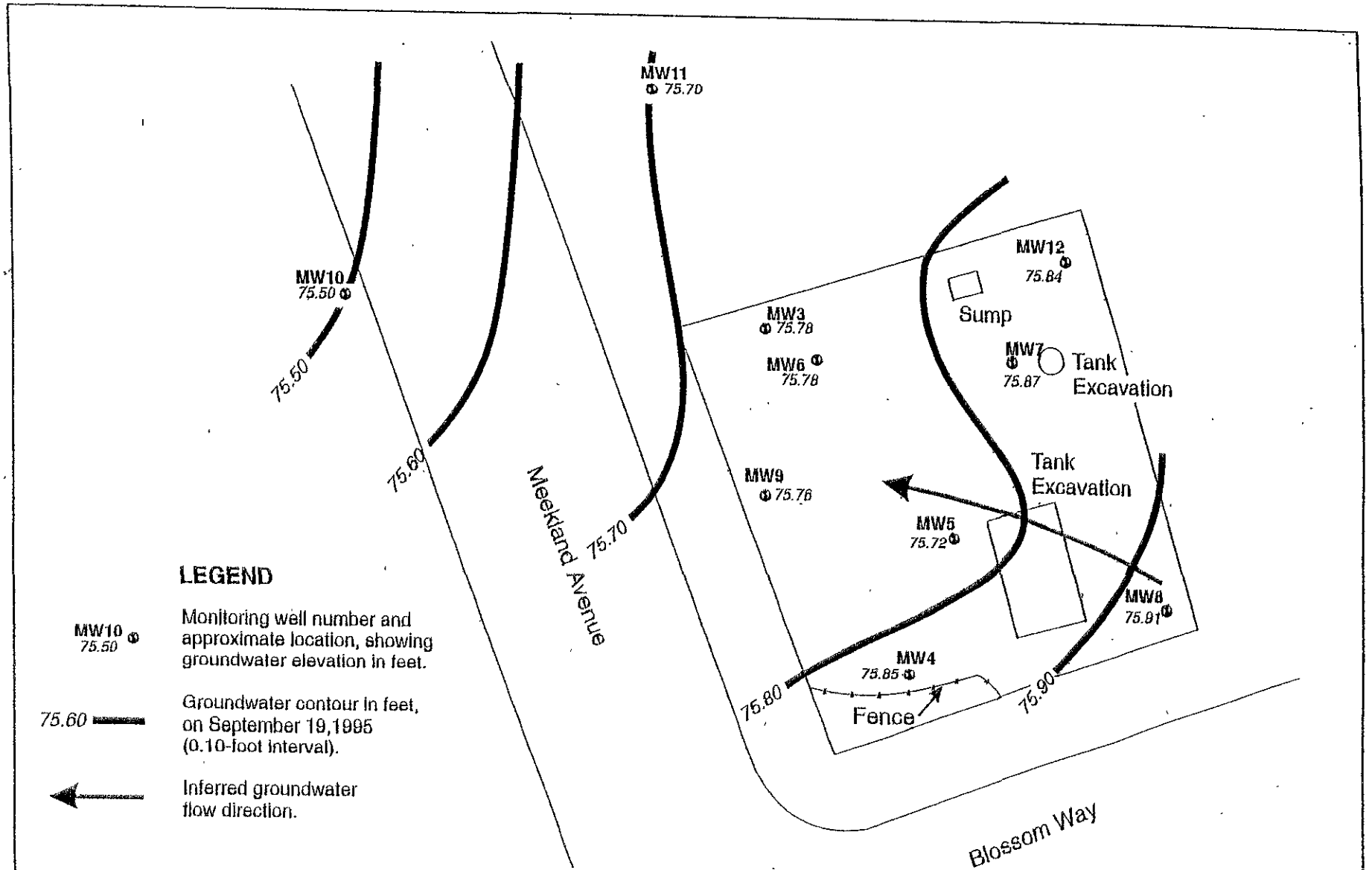
AGI TECHNOLOGIES

Groundwater Elevation and Contour Map 10/20/94

Harbert Transportation/Meekland Avenue
Hayward, California

FIGURE 3

grdwat.cdr	PROJECT NO. 15.833.002	DRAWN DEE	DATE 29 August 94	APPROVED	REVISED	DATE



AGI TECHNOLOGIES

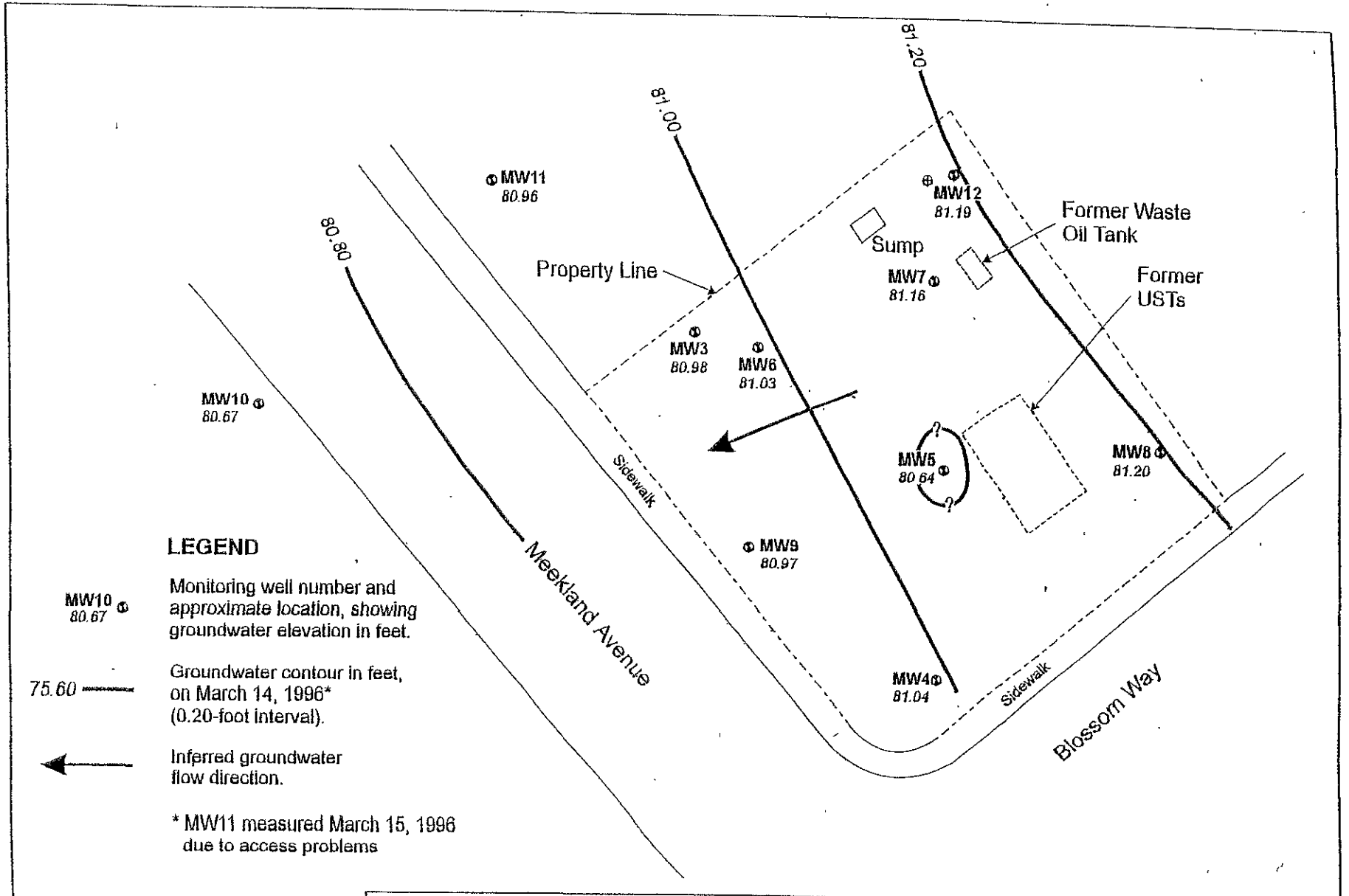
Groundwater Elevation and Contour Map

Harbert Transportation/Meekland Avenue
Hayward, California

9/19/95

FIGURE 3

PROJECT NO.	DRAWN	DATE	APPROVED	REVISED	DATE
ordwet.cdr	16 833.002	DEE			



AGI TECHNOLOGIES

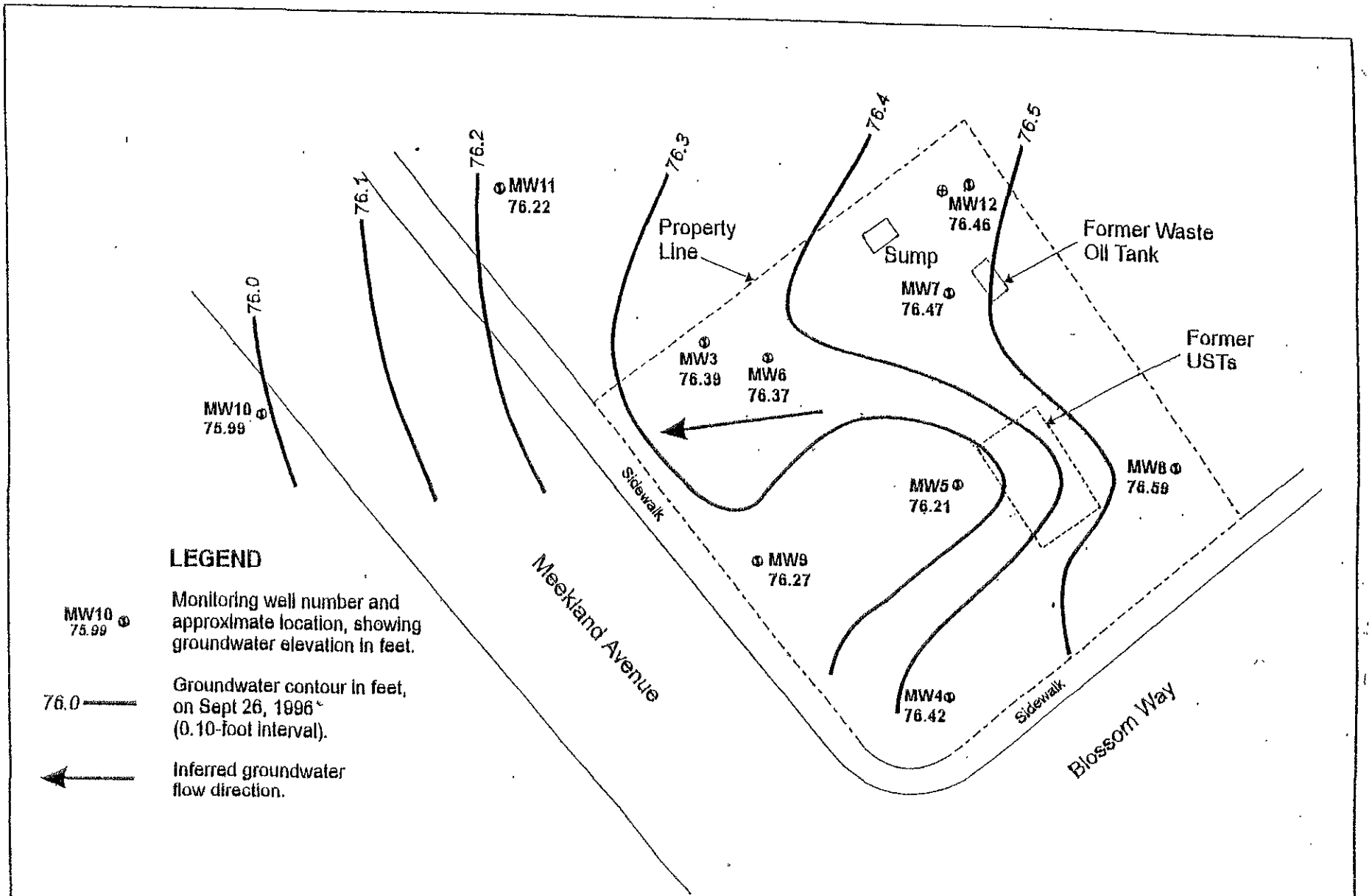
Groundwater Elevation and Contour Map

Harbert Transportation/Meekland Avenue
Hayward, California

3.14.96

FIGURE 3

PROJECT NO.	DRAWN	DATE	APPROVED	REVISED	DATE
gw-mar96.cdr	15,833.002	DEF	29 August 94	0	



AGI TECHNOLOGIES

Groundwater Elevation and Contour Map

Harbert Transportation/Meekland Avenue
Hayward, California

FIGURE 3

9.26.96

PROJECT NO.	DRAWN	DATE	APPROVED	REVISED	DATE
gw-sep96.cdr	15,833.002	DFF	29 August 94		

Appendix C

Certified Analytical Report - Groundwater Samples

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

July 01, 2002

Chad Taylor
Weber, Hayes and Associates
120 Westgate Drive
Watsonville, CA 95076

Order:	30330	**Date Collected:**	6/13/2002
Project Name:	Harbert Transportation	**Date Received:**	6/17/2002
Project Number:	H9042.Q	**P.O. Number:**	H9042.Q
Project Notes:			

On June 17, 2002, samples were received under documentented chain of custody. Results for the following analyses are attached:

Matrix	Test	Method
Liquid	EDF Deliverables	EDF
	Gas/BTEX/MTBE	EPA 8015 MOD. (Purgeable)
		EPA 8020
	MTBE Confirmation by EPA 8260B	EPA 8260B
	PDF	PDF

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,

Patti Sandrock
QA/QC Manager

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates
120 Westgate Drive
Watsonville, CA 95076
Attn: Chad Taylor

Date: 7/1/02
Date Received: 6/17/2002
Project Name: Harbert Transportation
Project Number: H9042.Q
P.O. Number: H9042.Q
Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 30330 **Lab Sample ID:** 30330-001 **Client Sample ID:** MW-3

Sample Time: **Sample Date:** 6/13/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	1.1		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Toluene	1.4		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Ethyl Benzene	4.0		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Xylenes, Total	1.8		1	1	1	µg/L	N/A	6/23/2002	WGC62478	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	95.9	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	95.9	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	300		1	50	50	µg/L	N/A	6/23/2002	WGC62478	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	106.9	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates
120 Westgate Drive
Watsonville, CA 95076
Attn: Chad Taylor

Date: 7/1/02
Date Received: 6/17/2002
Project Name: Harbert Transportation
Project Number: H9042.Q
P.O. Number: H9042.Q
Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 30330 **Lab Sample ID:** 30330-002 **Client Sample ID:** MW-4

Sample Time: **Sample Date:** 6/13/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Xylenes, Total	ND		1	1	1	µg/L	N/A	6/23/2002	WGC62478	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	105.4	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	105.4	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L	N/A	6/23/2002	WGC62478	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	96.4	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

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Weber, Hayes and Associates
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Watsonville, CA 95076
Attn: Chad Taylor

Date: 7/1/02
Date Received: 6/17/2002
Project Name: Harbert Transportation
Project Number: H9042.Q
P.O. Number: H9042.Q
Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 30330 **Lab Sample ID:** 30330-003 **Client Sample ID:** MW-5

Sample Time: **Sample Date:** 6/13/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	24		2.5	0.5	1.25	µg/L	N/A	6/24/2002	WGC62479	EPA 8020
Toluene	16		2.5	0.5	1.25	µg/L	N/A	6/24/2002	WGC62479	EPA 8020
Ethyl Benzene	120		2.5	0.5	1.25	µg/L	N/A	6/24/2002	WGC62479	EPA 8020
Xylenes, Total	110		2.5	1	2.5	µg/L	N/A	6/24/2002	WGC62479	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	97.5	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	17		2.5	5	12.5	µg/L	N/A	6/24/2002	WGC62479	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	97.5	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	1500		2.5	50	125	µg/L	N/A	6/24/2002	WGC62479	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	104.7	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

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Weber, Hayes and Associates
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Watsonville, CA 95076
Attn: Chad Taylor

Date: 7/1/02
Date Received: 6/17/2002
Project Name: Harbert Transportation
Project Number: H9042.Q
P.O. Number: H9042.Q
Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 30330 **Lab Sample ID:** 30330-003 **Client Sample ID:** MW-5

Sample Time: **Sample Date:** 6/13/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	PQLR	MDL	MDLR	Units	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	1.7	J	5	5	25	0.3	1.5	µg/L	6/26/2002	WMS11612	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	115.0	73 - 151
Dibromofluoromethane	121.0	57 - 156
Toluene-d8	114.0	77 - 150

Comment: Sample diluted due to high concentrations of non-target compounds.

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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Watsonville, CA 95076
Attn: Chad Taylor

Date: 7/1/02
Date Received: 6/17/2002
Project Name: Harbert Transportation
Project Number: H9042.Q
P.O. Number: H9042.Q
Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 30330 **Lab Sample ID:** 30330-004 **Client Sample ID:** MW-6

Sample Time: **Sample Date:** 6/13/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		2.5	0.5	1.25	µg/L	N/A	6/24/2002	WGC62479	EPA 8020
Toluene	4.7		2.5	0.5	1.25	µg/L	N/A	6/24/2002	WGC62479	EPA 8020
Ethyl Benzene	67		2.5	0.5	1.25	µg/L	N/A	6/24/2002	WGC62479	EPA 8020
Xylenes, Total	5.3		2.5	1	2.5	µg/L	N/A	6/24/2002	WGC62479	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	104.2	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		2.5	5	12.5	µg/L	N/A	6/24/2002	WGC62479	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	104.2	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	1600		2.5	50	125	µg/L	N/A	6/24/2002	WGC62479	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	133.1	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

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Attn: Chad Taylor

Date: 7/1/02
Date Received: 6/17/2002
Project Name: Harbert Transportation
Project Number: H9042.Q
P.O. Number: H9042.Q
Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 30330 **Lab Sample ID:** 30330-004 **Client Sample ID:** MW-6

Sample Time: **Sample Date:** 6/13/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	PQLR	MDL	MDLR	Units	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		5	5	25	0.3	1.5	µg/L	6/26/2002	WMS11612	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	112.0	73 - 151
Dibromofluoromethane	120.0	57 - 156
Toluene-d8	112.0	77 - 150

Comment: Sample diluted due to high concentrations of non-target compounds.

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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Environmental Analysis Since 1983

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Weber, Hayes and Associates
120 Westgate Drive
Watsonville, CA 95076
Attn: Chad Taylor

Date: 7/1/02
Date Received: 6/17/2002
Project Name: Harbert Transportation
Project Number: H9042.Q
P.O. Number: H9042.Q
Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 30330 **Lab Sample ID:** 30330-005 **Client Sample ID:** MW-7

Sample Time: **Sample Date:** 6/13/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Xylenes, Total	ND		1	1	1	µg/L	N/A	6/23/2002	WGC62478	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	118.8	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	118.8	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L	N/A	6/23/2002	WGC62478	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	105.5	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

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Weber, Hayes and Associates
120 Westgate Drive
Watsonville, CA 95076
Attn: Chad Taylor

Date: 7/1/02
Date Received: 6/17/2002
Project Name: Harbert Transportation
Project Number: H9042.Q
P.O. Number: H9042.Q
Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 30330 **Lab Sample ID:** 30330-006 **Client Sample ID:** MW-8

Sample Time: **Sample Date:** 6/13/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Xylenes, Total	ND		1	1	1	µg/L	N/A	6/23/2002	WGC62478	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	110.4	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	110.4	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L	N/A	6/23/2002	WGC62478	EPA 8015 MOD (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	99.1	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

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Weber, Hayes and Associates
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Attn: Chad Taylor

Date: 7/1/02
Date Received: 6/17/2002
Project Name: Harbert Transportation
Project Number: H9042.Q
P.O. Number: H9042.Q
Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 30330 **Lab Sample ID:** 30330-007 **Client Sample ID:** MW-9

Sample Time: **Sample Date:** 6/13/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	140		10	0.5	5	µg/L	N/A	6/24/2002	WGC62479	EPA 8020
Toluene	21		10	0.5	5	µg/L	N/A	6/24/2002	WGC62479	EPA 8020
Ethyl Benzene	490		10	0.5	5	µg/L	N/A	6/24/2002	WGC62479	EPA 8020
Xylenes, Total	300		10	1	10	µg/L	N/A	6/24/2002	WGC62479	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	99.6	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		10	5	50	µg/L	N/A	6/24/2002	WGC62479	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	99.6	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	5100		10	50	500	µg/L	N/A	6/24/2002	WGC62479	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	120.2	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates
120 Westgate Drive
Watsonville, CA 95076
Attn: Chad Taylor

Date: 7/1/02
Date Received: 6/17/2002
Project Name: Harbert Transportation
Project Number: H9042.Q
P.O. Number: H9042.Q
Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 30330 **Lab Sample ID:** 30330-007 **Client Sample ID:** MW-9

Sample Time: **Sample Date:** 6/13/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	PQLR	MDL	MDLR	Units	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		5	5	25	0.3	1.5	µg/L	6/26/2002	WMS11612	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	114.0	73 - 151
Dibromofluoromethane	116.0	57 - 156
Toluene-d8	109.0	77 - 150

Comment: Sample diluted due to high concentrations of non-target compounds.

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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Attn: Chad Taylor

Date: 7/1/02
Date Received: 6/17/2002
Project Name: Harbert Transportation
Project Number: H9042.Q
P.O. Number: H9042.Q
Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 30330 **Lab Sample ID:** 30330-008 **Client Sample ID:** MW-10

Sample Time: **Sample Date:** 6/13/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	0.77		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Toluene	6.2		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Ethyl Benzene	3.3		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Xylenes, Total	2.9		1	1	1	µg/L	N/A	6/23/2002	WGC62478	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	118.2	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	11		1	5	5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	118.2	65 - 135

Comment: Matrix interference; see GC/MS results.

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	1700		1	50	50	µg/L	N/A	6/23/2002	WGC62478	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	122.1	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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Weber, Hayes and Associates
120 Westgate Drive
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Attn: Chad Taylor

Date: 7/1/02
Date Received: 6/17/2002
Project Name: Harbert Transportation
Project Number: H9042.Q
P.O. Number: H9042.Q
Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 30330 **Lab Sample ID:** 30330-008 **Client Sample ID:** MW-10

Sample Time: **Sample Date:** 6/13/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	PQLR	MDL	MDLR	Units	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	0.3	0.3	µg/L	7/1/2002	WMS11617	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	109.0	73 - 151
Dibromofluoromethane	99.0	57 - 156
Toluene-d8	111.0	77 - 150

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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Environmental Analysis Since 1983

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Weber, Hayes and Associates
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Watsonville, CA 95076
Attn: Chad Taylor

Date: 7/1/02
Date Received: 6/17/2002
Project Name: Harbert Transportation
Project Number: H9042.Q
P.O. Number: H9042.Q
Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 30330 **Lab Sample ID:** 30330-009 **Client Sample ID:** MW-11

Sample Time: **Sample Date:** 6/13/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Xylenes, Total	ND		1	1	1	µg/L	N/A	6/23/2002	WGC62478	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	111.1	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	111.1	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L	N/A	6/23/2002	WGC62478	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	98.3	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

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Weber, Hayes and Associates
120 Westgate Drive
Watsonville, CA 95076
Attn: Chad Taylor

Date: 7/1/02
Date Received: 6/17/2002
Project Name: Harbert Transportation
Project Number: H9042.Q
P.O. Number: H9042.Q
Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 30330 **Lab Sample ID:** 30330-010 **Client Sample ID:** MW-12

Sample Time: **Sample Date:** 6/13/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020
Xylenes, Total	ND		1	1	1	µg/L	N/A	6/23/2002	WGC62478	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	106.5	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	µg/L	N/A	6/23/2002	WGC62478	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	106.5	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L	N/A	6/23/2002	WGC62478	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	96.0	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

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Quality Control Results Summary

QC Batch #: WGC62478 **Units:** µg/L
Matrix: Liquid **Date Analyzed:** 6/22/2002

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: TPH as Gasoline											
TPH as Gasoline	EPA 8015 M	ND		100		126.8	LCS	126.8			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			93.0			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		8		7.58	LCS	94.8			65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		7.83	LCS	97.9			65.0 - 135.0
Toluene	EPA 8020	ND		8		7.61	LCS	95.1			65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		23.8	LCS	99.2			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			102.9			65 - 135					
Test: MTBE by EPA 8020											
Methyl-t-butyl Ether	EPA 8020	ND		8		9.32	LCS	116.5			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			102.9			65 - 135					
Test: TPH as Gasoline											
TPH as Gasoline	EPA 8015 M	ND		100		121.8	LCSD	121 8	4.02	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			91.4			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		8		7.37	LCSD	92.1	2.81	25.00	65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		7.79	LCSD	97 4	0.51	25.00	65.0 - 135.0
Toluene	EPA 8020	ND		8		7.44	LCSD	93.0	2.26	25.00	65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		23.4	LCSD	97.5	1.69	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			101.0			65 - 135					
Test: MTBE by EPA 8020											
Methyl-t-butyl Ether	EPA 8020	ND		8		8.73	LCSD	109.1	6.54	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			101.0			65 - 135					

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Quality Control Results Summary

QC Batch #: WGC62479 **Units:** µg/L
Matrix: Liquid **Date Analyzed:** 6/24/2002

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: TPH as Gasoline											
TPH as Gasoline	EPA 8015 M	ND		100		125.2	LCS	125.2			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			93.1			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		8		7 69	LCS	96.1			65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		8.15	LCS	101.9			65.0 - 135.0
Toluene	EPA 8020	ND		8		7.76	LCS	97.0			65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		24 4	LCS	101.7			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			102.5			65 - 135					
Test: MTBE by EPA 8020											
Methyl-t-butyl Ether	EPA 8020	ND		8		8.86	LCS	110.8			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			102.5			65 - 135					
Test: TPH as Gasoline											
TPH as Gasoline	EPA 8015 M	ND		100		126.	LCSD	126.0	0.64	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			93.7			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		8		7.74	LCSD	96.8	0.65	25.00	65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		8.28	LCSD	103.5	1.58	25.00	65 0 - 135.0
Toluene	EPA 8020	ND		8		7.85	LCSD	98.1	1.15	25.00	65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		24.8	LCSD	103.3	1.63	25.00	65.0 - 135 0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			105.3			65 - 135					
Test: MTBE by EPA 8020											
Methyl-t-butyl Ether	EPA 8020	ND		8		9.06	LCSD	113.3	2.23	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			105.3			65 - 135					

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Quality Control Results Summary

QC Batch #: WMS11612 **Units:** µg/L
Matrix: Liquid **Date Analyzed:** 6/26/2002

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: MTBE Confirmation by EPA 8260B											
Methyl-t-butyl Ether	EPA 8260B			20		16.7	LCS	83.5			56.0 - 135.0

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	100.0	73 - 151
Dibromofluoromethane	97.0	57 - 156
Toluene-d8	98.0	77 - 150

Test: MTBE Confirmation by EPA 8260B											
Methyl-t-butyl Ether	EPA 8260B			20		14.5	LCSD	72.5	14.10	25.00	56.0 - 135.0

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	103.0	73 - 151
Dibromofluoromethane	100.0	57 - 156
Toluene-d8	105.0	77 - 150

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Quality Control Results Summary

QC Batch #: WMS11617 **Units:** µg/L
Matrix: Liquid **Date Analyzed:** 7/1/2002

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: EPA 8260B											
1,1-Dichloroethene	EPA 8260B	ND		20		17.4	LCS	87.0			57.3 - 132.4
Benzene	EPA 8260B	ND		20		21.1	LCS	105 5			65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		20		21.8	LCS	109.0			65.0 - 135.0
Methyl-t-butyl Ether	EPA 8260B	ND		20		17.3	LCS	86.5			56.0 - 135.0
Toluene	EPA 8260B	ND		20		21.	LCS	105.0			65.0 - 135.0
Trichloroethene	EPA 8260B	ND		20		22.1	LCS	110.5			69.7 - 143.5

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	120.0	73 - 151
Dibromofluoromethane	110.0	57 - 156
Toluene-d8	109.0	77 - 150

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: EPA 8260B											
1,1-Dichloroethene	EPA 8260B	ND		20		14.	LCSD	70 0	21.66	25.00	57.3 - 132.4
Benzene	EPA 8260B	ND		20		17.2	LCSD	86.0	20.37	25.00	65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		20		17.6	LCSD	88 0	21.32	25.00	65.0 - 135.0
Methyl-t-butyl Ether	EPA 8260B	ND		20		15.3	LCSD	76.5	12.27	25.00	56.0 - 135.0
Toluene	EPA 8260B	ND		20		17.3	LCSD	86.5	19.32	25.00	65.0 - 135.0
Trichloroethene	EPA 8260B	ND		20		17.9	LCSD	89.5	21.00	25.00	69.7 - 143.5

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	113.0	73 - 151
Dibromofluoromethane	109.0	57 - 156
Toluene-d8	113.0	77 - 150

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120 Westgate Dr., Watsonville, CA 95076
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Fax: (831) 722-1159

CHAIN -OF-CUSTODY RECORD

PROJECT NAME AND JOB #: **Harbert Transportation / H9042.Q**

LABORATORY **Entech**

SEND CERTIFIED RESULTS TO: **Chad Taylor**

TURNAROUND TIME: (Normal) 24hr Rush 48hr Rush 72hr Rush

ELECTRONIC DELIVERABLE FORMAT: [X] YES [ ] NO

GLOBAL I.D.: **T0600100475**

Field Point Name (GeoTracker)	Sample Identification	Sample Depth	Date Sampled	SAMPLE CONTAINERS: 40 mL VOAs (preserved)	1 Liter Amber Jars	___mL Poly Bottle	Liner Acetate or Brass	REQUESTED ANALYSIS: Total Petroleum Hydrocarbons: Extractable Fuel-Scan	Purgeable Fuel-Scan	Gasoline & BTEX-MTBE by EPA Method# 8015M-&-8020	Volatile Organics: 1,2-DCA by EPA Method# 8010	Solvents by EPA Method# 8010	Additional Analysis: Fuel Oxygenates by EPA Method 8260	Title 22 General, Physical and Inorganic Minerals	
MW-3	MW-3	22.99'	6/13/02	5						X			30330		-001
MW-4	MW-4	23.26'		5						X					002
MW-5	MW-5	30.21'		5						X					003
MW-6	MW-6	24.04'		5						X					004
MW-7	MW-7	24.63'		5						X					005
MW-8	MW-8	23.85'		5						X					006
MW-9	MW-9	23.07'		5						X					007
MW-10	MW-10	22.65'		5						X					008
MW-11	MW-11	22.91'		5						X					009
MW-12	MW-12	23.91'		5						X					010

	RECEIVED BY:	Date & Time		RELEASED BY:	Date & Time	SAMPLE CONDITION: (circle 1)		
1.)	Sampler	6/13/02 1700	→		6/14/02	Ambient	(Refrigerated)	Frozen
2.)		6/14/02 9AM	→			Ambient	Refrigerated	Frozen
3.)		6/17/02 1000	→			Ambient	Refrigerated	Frozen
4.)			→			Ambient	Refrigerated	Frozen
5.)			→			Ambient	Refrigerated	Frozen

NOTES:

X If MTBE is detected by EPA Method 8020, please confirm detections by EPA Method 8260 with a minimum detection limit of 5 ug/L, and report only confirmed 8260 detections

X For MTBE-analyzed samples with non-detectable results (ND) but having elevated detection limits, please confirm by EPA Method #8260

X Please use MDL (Minimum Detection Limit) for any diluted samples.

ADDITIONAL COMMENTS

- Please produce and e-mail an EDF of these results to tina@weber-hayes.com.

[redacted]t/EDF/edf

Appendix D

Summary of Historical Groundwater Analytical Results - AGI Technologies, Inc.

Table 2
Summary of Historical Groundwater Analytical Data
Harbert Transportation/Meekland Avenue
Hayward, California

AGI TECHNOLOGIES

Well	Date Sampled	EPA Test Methods										Other
		8015 Modified			8020				8010			
		TPH-G	TPH-D	TPH-MO	Benzene	Ethylbenzene	Toluene	Total Xylenes	TCE	PCE	1,2-DCA	
		µg/L			µg/L				µg/L			µg/L
MW1	07/86	42,000	NA	NA	5,500	NA	4,900	6,100	NA	NA	NA	
	03/90	27,000	NA	NA	2,700	491	840	800	ND	ND	ND	
	07/90	27,000	11,000	ND	4,000	ND	1,500	4,400	ND	ND	62	
	10/90	43,000	8,500	ND	3,400	1,200	2,700	5,300	0.4	ND	26	
	01/91	22,000	2,700	ND	3,000	990	1,800	2,800	ND	ND	27	
	04/91	42,000	3,100 [a]	NA	5,100	1,200	3,700	3,200	ND	ND	120	
	07/91	46,000	4,300 [a]	NA	6,500	830	2,900	3,700	ND	ND	64	
	10/91	27,000	4,300 [a]	NA	4,400	1,100	1,400	3,200	ND	ND	25	
	01/92	27,000	14,000 [a]	NA	3,300	1,200	1,600	3,800	ND	ND	24	
	04/92	33,000	11,000 [a]	NA	8,900	1,200	3,500	3,700	ND	ND	120	
	07/92	41,000	19,000 [a]	NA	5,600	1,300	2,600	4,000	ND	ND	49	
	10/92	33,000	3,500 [a]	NA	4,400	1,200	2,100	4,000	ND	ND	61	
MW3	11/89	29,000	NA	NA	4,600	680	1,100	1,100	ND	ND	36	Lead 40
	11/89	NA	NA	NA	NA	NA	NA	NA	ND	ND	36	Lead 40
	03/90	12,000	NA	NA	2,300	59	300	490	ND	ND	ND	
	07/90	7,300	990	ND	5,200	ND	440	480	ND	ND	67	
	10/90	6,200	970	ND	75	7.5	150	250	ND	ND	48	
	10/90	NA	NA	NA	NA	NA	NA	NA	ND	ND	22	Lead 3
	01/91	4,600	680	ND	2,200	220	110	89	ND	ND	40	
	04/91	8,300	640 [a]	NA	2,800	370	490	760	ND	ND	43	
	07/91	6,600	890 [a]	NA	2,000	250	230	380	ND	ND	29	
	10/91	6,300	1,700 [a]	NA	2,000	410	330	550	ND	ND	27	
	01/92	4,000	790 [a]	NA	1,200	250	60	200	ND	ND	22	
	04/92	7,400	1,800 [a]	NA	730	370	180	640	ND	ND	19	
	07/92	3,000	2,400 [a]	NA	190	ND	2.8	410	ND	ND	30	
	10/92	5,000	970 [a]	NA	1,300	320	45	340	ND	ND	26	
	01/93	2,300	680 [a]	NA (2)	630	180	31	330	ND	ND	13	
	06/93	5,000	1,100 [a]	ND	730	240	43	380	ND	ND	13	

Table 2
Summary of Historical Groundwater Analytical Data
Harbert Transportation/Meekland Avenue
Hayward, California

AGI TECHNOLOGIES

Well	Date Sampled	EPA Test Methods										Other
		8015 Modified			8020				8010			
		TPH-G	TPH-D	TPH-MO	Benzene	Ethylbenzene	Toluene	Total Xylenes	TCE	PCE	1,2-DCA	
		µg/L			µg/L				µg/L			µg/L
MW4	11/89	ND	NA	NA	33	1.3	1	5.2	NA	NA	NA	Lead 12
	03/90	ND	NA	NA	7.4	2	2	1.1	ND	ND	ND	
	07/90	*ND*	*ND*	ND	*ND*	ND	ND	ND	ND	ND	0.9	
	10/90	ND	ND	ND	ND	ND	ND	ND	0.7	ND	0.5	
	01/91	80	ND	ND	9.2	2.4	1.7	0.7	ND	ND	ND	
	04/91	1,400	130 [a]	NA	2,200	72	ND	17	ND	ND	ND	
	07/91	130	ND	NA	14	3.3	9.7	ND	ND	ND	0.81	
	10/91	ND	ND	NA	5.3	1	ND	0.8	ND	ND	ND	
	01/92	ND	ND	NA	6.8	1.3	ND	ND	ND	ND	ND	
	04/92	780	130 [a]	NA	ND	51	ND	4.8	ND	ND	1.6	
	07/92	ND	ND	NA	ND	ND	ND	ND	ND	ND	1.3	
	10/92	100	ND	NA	9.5	ND	ND	2.6	ND	ND	ND	
	01/93	960	240 [a]	NA	200	41	4.6	9.4	ND	ND	1	
	06/93	650	140 [a]	ND	150	21	ND	ND	ND	ND	3.7	
MW5	10/90	9,600	1,900	ND	1,200	70	160	520	ND	ND	22	Lead 3
	01/91	10,000	1,200	ND	1,600	720	200	510	ND	ND	33	
	04/91	18,000	860 [a]	NA	2,500	550	580	500	ND	ND	61	
	07/91	*15,000*	*2,200* [a]	NA	*4,600*	610	1,100	760	ND	ND	62	
	10/91	14,000	3,300 [a]	NA	5,000	530	820	800	ND	ND	49	
	01/92	12,000	1,900 [a]	NA	4,300	390	380	590	ND	ND	56	
	04/92	23,000	6,400 [a]	NA	8,600	ND	2,600	1,900	ND	ND	125	
	07/92	27,000	5,900 [a]	NA	6,000	ND	1,500	1,600	ND	ND	93	
	10/92	13,000	2,100 [a]	NA	4,600	140	470	550	ND	ND	59	
	01/93	18,000	1,900 [a]	NA	5,800	560	1,900	1,600	ND	ND	110	
	01/93	19,000	2,100 [a]	NA	4,600	370	1,600	1,400	ND	ND	120	
	06/93	22,000	2,900 [a]	ND	8,300	740	2,500	1,900	ND	ND	110	
	06/93	23,000	2,300 [a]	ND	9,600	730	3,000	1,900	ND	ND	110	

Table 2
Summary of Historical Groundwater Analytical Data
Harbert Transportation/Meekland Avenue
Hayward, California

AGI TECHNOLOGIES

Well	Date Sampled	EPA Test Methods: 8015 Modified TPH-G µg/L	8015 Modified TPH-D µg/L	8015 Modified TPH-MO	8020 Benzene µg/L	8020 Ethylbenzene µg/L	8020 Toluene µg/L	8020 Total Xylenes µg/L	8010 TCE µg/L	8010 PCE µg/L	8010 1,2-DCA µg/L	Other µg/L
MW6	10/90	27,000	4,700	ND	2,700	450	2,900	3,300	ND	ND	40	Lead 9
	01/91	7,200	1,600	ND	1,400	ND	200	830	ND	ND	23	
	04/91	17,000	800 [a]	NA	2,800	610	1,200	1,800	ND	ND	53	
	07/91	11,000	1,400 [a]	NA	1,200	ND	380	750	ND	ND	29	
	10/91	4,800	1,600 [a]	NA	380	69	340	730	ND	ND	22	
	01/92	6,100	1,200 [a]	NA	460	180	200	590	ND	ND	26	
	04/92	7,200	1,800 [a]	NA	340	350	460	920	ND	ND	30	
	07/92	8,600	1,700 [a]	NA	1,300	380	280	1,100	ND	ND	35	
	10/92	1,600	110 [a]	NA	230	70	20	88	ND	ND	24	
	01/93	13,000	2,100 [a]	NA	2,500	370	540	2,400	ND	ND	36	
	06/93	7,400	1,900 [a]	ND	1,500	480	120	1,400	ND	ND	29	
MW7	10/90	14,000	2,700	ND	390	ND	18	1,200	ND	1.3	14	Lead 11
	01/91	4,500	1,400	ND	320	42	48	350	ND	ND	10	
	04/91	2,400	NA	NA	320	77	62	130	ND	0.6	11	
	07/91	2,000	910 [a]	NA	470	ND	24	88	ND	ND	9.7	
	10/91	ND	370 [a]	NA	ND	ND	ND	ND	ND	0.68	4.5	
	01/92	1,100	290 [a]	NA	230	45	7	88	ND	3.5	6.4	
	04/92	1,700	520 [a]	NA	310	78	28	170	ND	0.5	3.2	
	07/92	1,900	590 [a]	NA	410	78	21	170	ND	2.1	8.7	
	07/92 (dup)	1,200	700 [a]	NA	21	1	2.6	90	ND	2	8.2	
	10/92	1,800	320 [a]	NA	410	31	11	75	ND	1	7.4	
	01/93	2,100	660 [a]	NA	390	100	21	270	ND	0.6	3.7	
	06/93	4,400	1,100 [a]	ND	830	330	49	620	ND	ND	8.6	

Table 2
Summary of Historical Groundwater Analytical Data
Harbert Transportation/Meekland Avenue
Hayward, California

AGI TECHNOLOGIES

Well	Date Sampled	EPA Test Methods										
		8015 Modified			8020				8010			Other
		TPH-G	TPH-D	TPH-MO	Benzene	Ethylbenzene	Toluene	Total Xylenes	TCE	PCE	1,2-DCA	
		µg/L			µg/L				µg/L			µg/L
MW8	02/91	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	
	04/91	ND	ND	NA	ND	ND	ND	ND	ND	0.5	ND	
	07/91	ND	ND	NA	ND	ND	2	ND	ND	1.2	ND	
	10/91	ND	ND	NA	ND	ND	0.6	ND	ND	0.4	ND	
	01/92	ND	ND	NA	ND	ND	ND	ND	ND	0.68	ND	
	04/92	ND	ND	NA	ND	ND	ND	ND	ND	0.8	ND	
	07/92	ND	ND	NA	ND	ND	3.3	ND	ND	1.6	ND	
	10/92	ND	ND	NA	ND	ND	ND	ND	ND	1.4	ND	
	01/93	ND	ND	NA	ND	ND	ND	ND	ND	0.8	ND	
	06/93	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	
MW9	02/91	6,000	1,600	NA	180	19	170	200	ND	ND	13	
	04/91	4,200	410 [a]	NA	520	130	410	580	ND	ND	26	
	07/91	1,900	180 [a]	NA	190	12	52	77	ND	6.5	12	
	10/91	880	300 [a]	NA	160	31	44	83	ND	ND	10	
	01/92	380	120 [a]	NA	14	7.6	2.2	14	ND	ND	9.6	
	04/92	2,900	700 [a]	NA	510	80	260	260	ND	ND	11	
	07/92	4,400	1,300 [a]	NA	860	210	340	640	ND	ND	22	
	10/92	200	290 [a]	NA	6.8	1.4	2.1	7.8	ND	ND	12	
	01/93	8,500	740 [a]	NA	2,400	390	620	1,500	ND	ND	29	
	06/93	8,200	1,300 [a]	ND	2,400	360	480	1,500	ND	ND	29	
MW10	01/92	13,000	3,700 [a]	NA	130	580	110	3,000	ND	ND	33	
	05/92	15,000	5,000 [a]	NA	180	ND	18	2,700	ND	ND	20	
	05/92 (dup)	13,000	7,500 [a]	NA	240	490	65	2,500	ND	ND	22	
	07/92	8,100	4,400 [a]	NA	74	360	ND	1,100	ND	ND	29	
	10/92	3,200	1,500 [a]	NA	ND	ND	ND	320	ND	ND	25	
	01/93	7,500	2,200 [a]	NA	130	170	20	710	ND	ND	18	
	06/93	8,000	2,100 [a]	ND	69	7.9	ND	490	ND	ND	16	

Table 2
Summary of Historical Groundwater Analytical Data
Harbert Transportation/Meekland Avenue
Hayward, California

AGI TECHNOLOGIES

Well	Date Sampled	EPA Test Methods: 8015 Modified TPH-G µg/L	8015 Modified TPH-D µg/L	8015 Modified TPH-MO µg/L	8020 Benzene µg/L	8020 Ethylbenzene µg/L	8020 Toluene µg/L	8020 Total Xylenes µg/L	8010 TCE µg/L	8010 PCE µg/L	8010 1,2-DCA µg/L	Other µg/L
MW11	01/92	8,200	3,200 [a]	NA	23	250	ND	1,100	ND	ND	ND	
	04/92	160	1,200 [a]	NA	ND	ND	ND	ND	ND	ND	ND	
	07/92	2,100	710 [a]	NA	39	100	2.3	53	ND	ND	ND	
	10/92	660	220 [a]	NA	2.9	19	ND	3.8	ND	ND	ND	
	10/92	770	230 [a]	NA	3.2	26	ND	5.7	ND	ND	ND	
	01/93	780	370 [a]	NA	10	2.1	ND	39	ND	ND	ND	
	06/93	2,500	160 [a]	ND	27	99	ND	34	ND	ND	ND	
MW12	12/92	2,800	1,700 [a]	NA	14	ND	ND	ND	ND	ND	ND	
	06/93	1,100	750 [a]	ND	19	21	ND	57	ND	ND	ND	
B1	01/93	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	
	06/93	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
F3	02/93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Well Abandoned	12/89	1,800	NA	NA	200	24	18	34	ND	ND	0.15	Lead 2,100
Average [b]		8,865	1,883	250	1,562	235	517	871	0.21	0.41	24.8	
Laboratory Detection Limit		50	50	500	0.5	0.5	0.5	0.5	0.4	0.4	0.4	

Notes:

a) The detection for petroleum hydrocarbons as diesel appears to be due to the presence of lighter hydrocarbons rather than diesel.
b) Average of sampled data, ND equals 1/2 detection limit.
µg/L - Micrograms per liter is approximately equivalent to parts per billion, depending on density of water.
NA - Not analyzed.
ND - Not detected.
TPH-G - Total petroleum hydrocarbons quantified as gasoline.
TPH-D - Total petroleum hydrocarbons quantified as diesel.
TPH-MO - Total petroleum hydrocarbons quantified as motor oil.
TCE - Trichloroethylene.
PCE - Tetrachloroethylene.
1,2-DCA - 1,2-Dichloroethane.

AGI TECHNOLOGIES

Table 2
Summary of Groundwater Chemical Analyses
Harbert Transportation/Meekland Avenue
Hayward, California

Well	Date Sampled	EPA Test Methods: 8015 M TPH Gasoline µg/L	8015 M TPH Diesel µg/L	BETX 5030/8020 Benzene µg/L	Ethylbenzene µg/L	Toluene µg/L	Xylenes µg/L	8010 1,2-DCA µg/L	PCE µg/L	TCE µg/L
MW3	07/28/94	7,700	970 [a]	1,800	810	ND	600	22	ND	ND
	10/21/94	7,400	810	1,900	900	37	780	25	ND	ND
	09/15/95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/14/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/26/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW4	07/28/94	120	ND	7.9	0.7	1.1	ND	ND	ND	ND
	10/21/94	69	ND	3.4	ND	ND	ND	ND	ND	ND
	09/15/95	110	ND	2.5	ND	0.85	ND	2.3	ND	ND
	03/14/96	300	69 [b]	3.3	0.74	ND	ND	1.6	ND	ND
	09/26/96	ND	ND	ND	ND	ND	ND	1.2	ND	ND
MW5	07/29/94	30,000	2,200 [a]	9,300	1,100	1,800	2,300	110	ND	ND
	10/21/94	23,000	1,500	7,900	780	1,500	2,900	85	ND	ND
	09/15/95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/14/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/26/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW6	07/29/94	15,000	2,100 [b]	3,100	1,100	71	2,000	37	ND	ND
	10/21/94	18,000	1,500	3,900	1,200	170	3,200	35	ND	ND
	09/15/95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/14/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/26/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW7	07/29/94	2,600	530 [c]	470	220	ND	310	2.7	6	ND
	10/21/94	1,700	280	290	140	4.5	240	1.8	0.74	ND
	09/15/95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/14/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/26/96	NS	NS	NS	NS	NS	NS	NS	NS	NS

AGI TECHNOLOGIES

Table 2
Summary of Groundwater Chemical Analyses
Harbert Transportation/Meekland Avenue
Hayward, California

Well	Date Sampled	EPA Test Methods: 8015 M TPH Gasoline µg/L	8015 M TPH Diesel µg/L	BETX 5030/8020 Benzene µg/L	Ethylbenzene µg/L	Toluene µg/L	Xylenes µg/L	8010 1,2-DCA µg/L	PCE µg/L	TCE µg/L
MW8	07/28/94	ND	78 [a]	ND	ND	ND	ND	ND	ND	ND
	10/21/94	ND	ND	ND	ND	ND	ND	ND	0.72	ND
	09/15/95	ND	ND	ND	ND	ND	ND	ND	0.74	ND
	03/14/96	ND	ND	ND	ND	ND	ND	ND	0.63	ND
	09/26/96	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW9	07/28/94	6,000	1,300 [c]	90	170	27	370	26	ND	ND
	10/21/94	6,900	600	1,800	280	220	1,500	31	ND	ND
	09/15/95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/14/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/26/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW10	07/28/94	6,700	2,000 [c]	99	180	57	430	13	ND	ND
	10/21/94	8,600	2,000	93	200	ND	680	12	ND	ND
	09/15/95	2,100	1,900	9.9	49	ND	4.9	ND	ND	ND
	03/14/96	6,800	2,000 [b]	64	98	ND	33	6.5	ND	ND
	09/26/96	7,100	420	140	210	ND	32	9.1	ND	5.9
MW11	07/28/94	450	150 [a]	6.2	20	1.1	6.6	ND	ND	ND
	10/21/94	460	190	4.9	14	ND	12	ND	ND	ND
	09/15/95	9,600	550	130	180	ND	130	8.8	ND	5.6
	03/15/96	780	310 [b]	0.74	25	ND	1.8	ND	ND	ND
	09/26/96	480	710	ND	50	ND	ND	ND	ND	ND

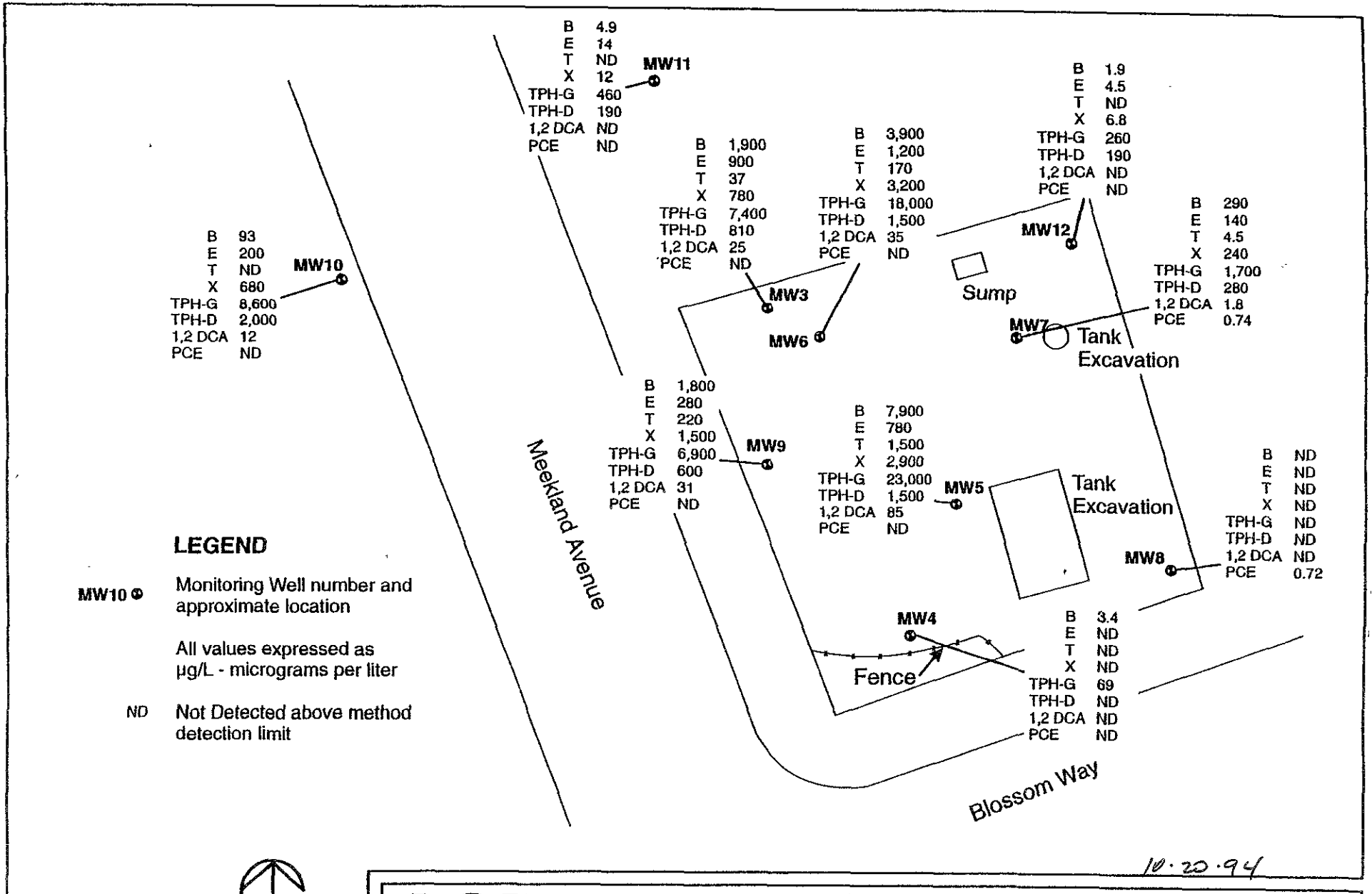
AGI TECHNOLOGIES

Table 2
Summary of Groundwater Chemical Analyses
Harbert Transportation/Meekland Avenue
Hayward, California

		EPA Test Methods								
		8015 M		BETX 5030/8020				8010		
Well	Date Sampled	TPH Gasoline µg/L	TPH Diesel µg/L	Benzene	Ethylbenzene	Toluene	Xylenes µg/L	1,2-DCA µg/L	PCE µg/L	TCE µg/L
MW12	07/28/94	240	160	1.9	12	ND	5.8	ND	ND	ND
	10/21/94	260	190	1.9	4.5	ND	6.8	ND	ND	ND
	09/15/95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/14/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/26/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
Method Detection Limit		50	50	0.5	0.5	0.5	0.5	0.5	0.5	0.5

Notes:

a) Hydrocarbons quantified as diesel are primarily due to discrete peaks not indicative of diesel fuel.
b) Hydrocarbons quantified as diesel are primarily due to the presence of a lighter petroleum product (C_6-C_{12}), possibly gasoline.
c) Hydrocarbons quantified as diesel are due to the presence of a lighter petroleum product (C_6-C_{12}) and discrete peaks not indicative of diesel fuel.
1,2-DCE - 1,2-dichloroethane.
PCE - Tetrachloroethene.
TCE - Trichloroethene.
ND - Not detected at or above method detection limit.
NS - Not sampled.
TPH-Gasoline - Total petroleum hydrocarbons quantified as gasoline.
TPH-Diesel - Total petroleum hydrocarbons quantified as diesel.
µg/L - Micrograms per liter, equivalent to parts per billion.



10.20.94

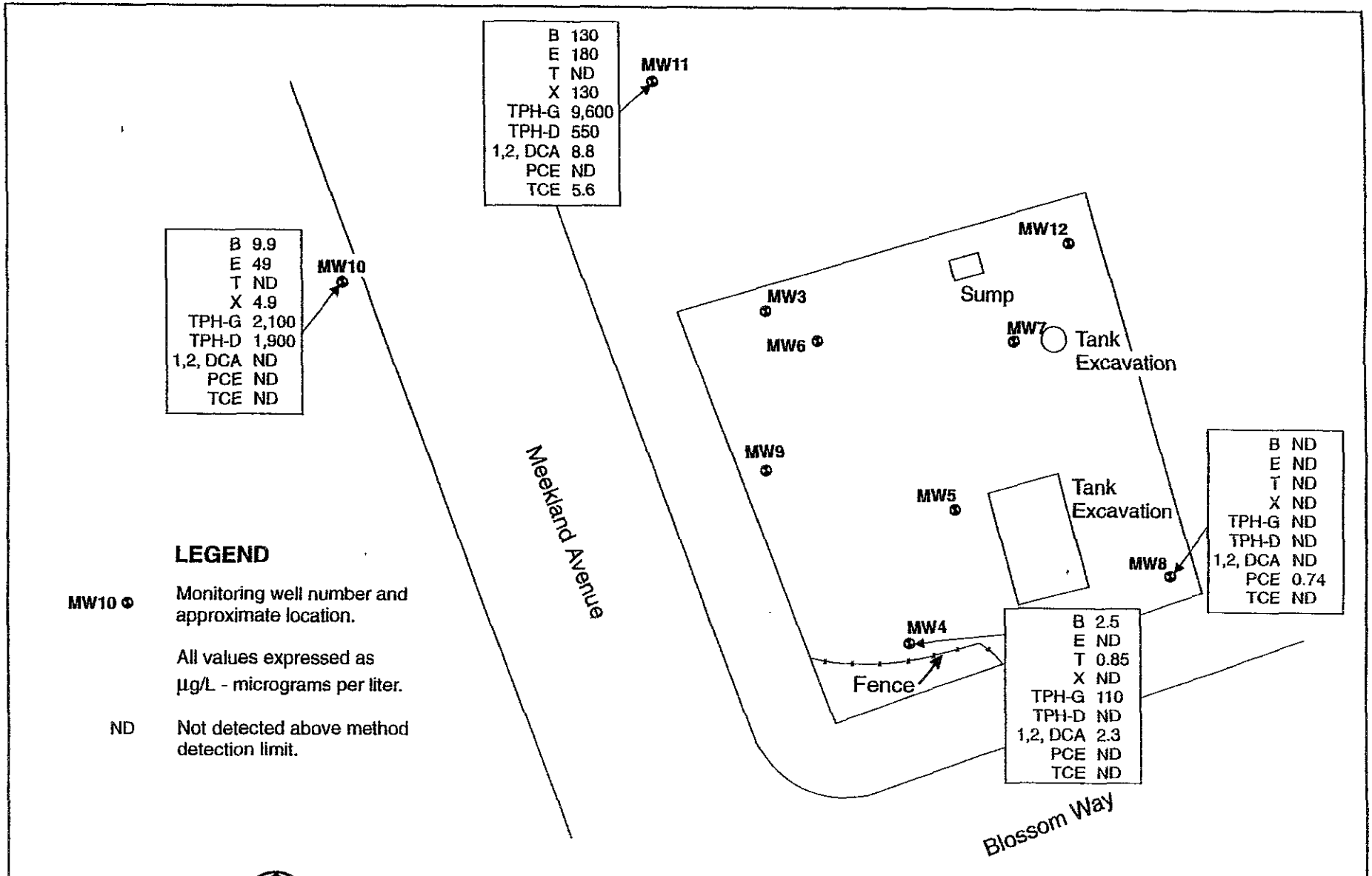
AGI TECHNOLOGIES

Site Plan

Harbert Transportation/Meekland Avenue
Hayward, California

FIGURE 4

PROJECT NO	DRAWN	DATE	APPROVED	REVISED	DATE
siteplan.cdr	15,833.002	DFF/ALW	01 February 95		



Groundwater Chemical Analysis Results - 9/15/95

Harbert Transportation/Meekland Avenue
Hayward, California

FIGURE 4

AGI TECHNOLOGIES

PROJECT NO	DRAWN	DATE	APPROVED	REVISED	DATE
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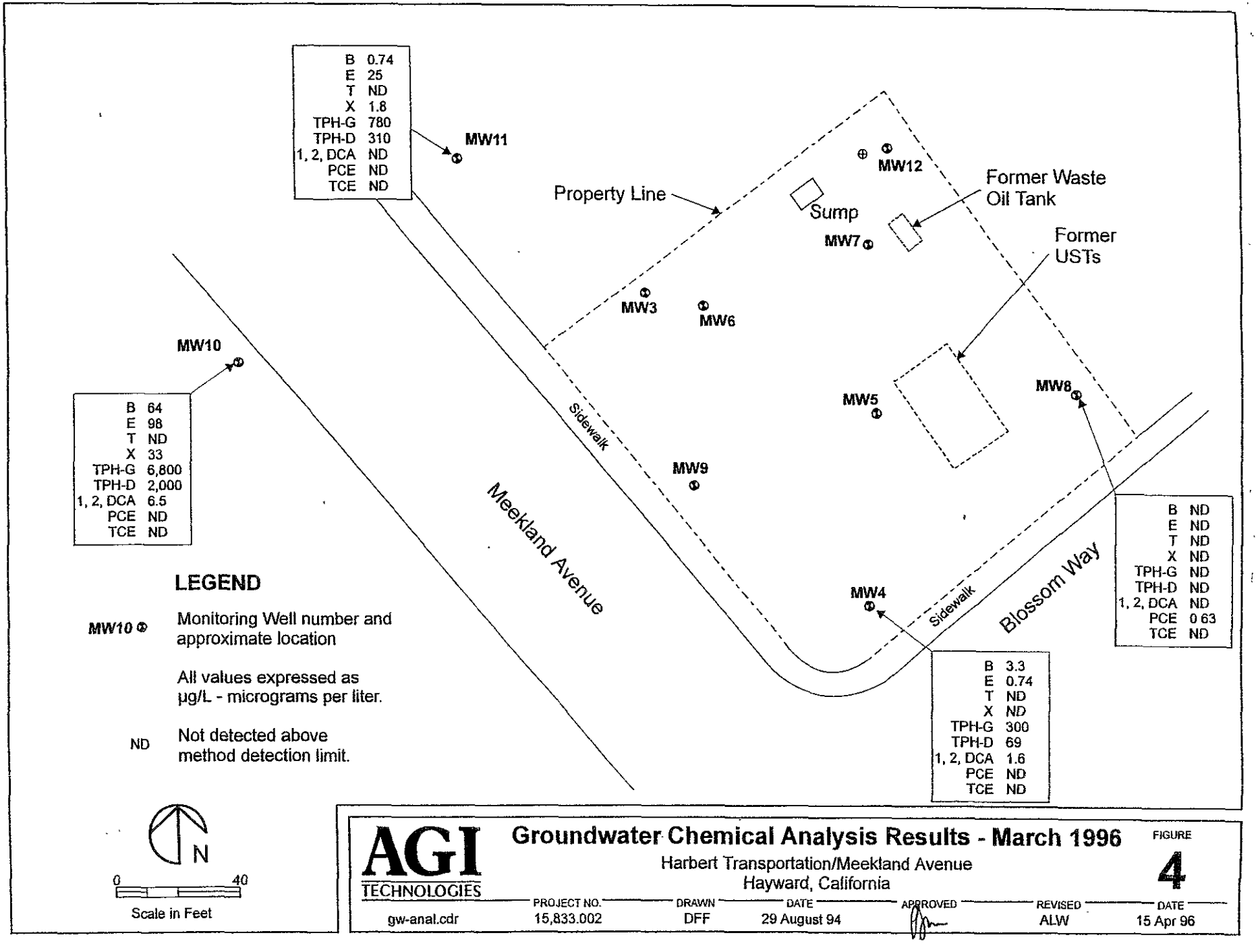


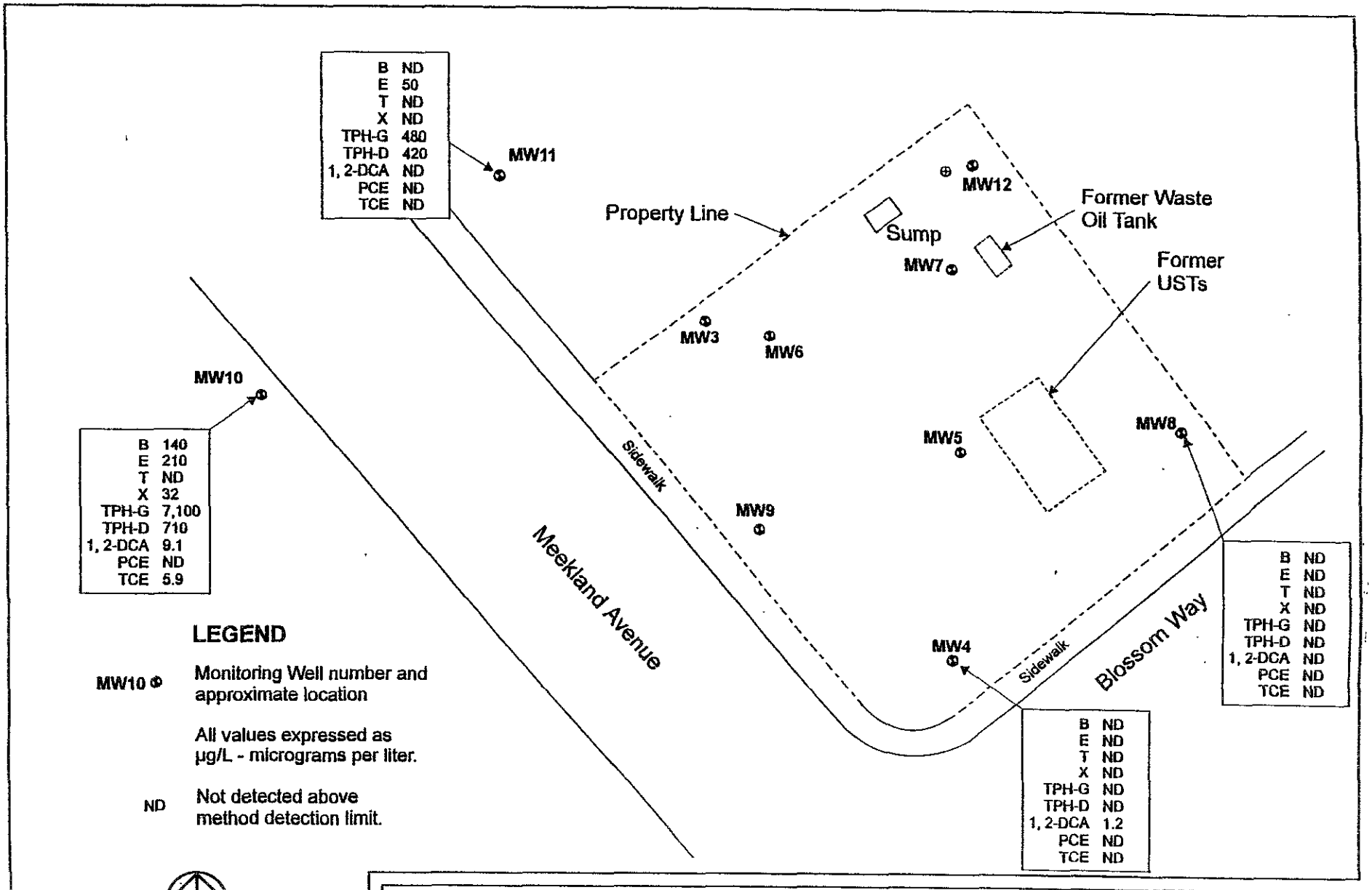
Groundwater Chemical Analysis Results - March 1996

Harbert Transportation/Meekland Avenue
Hayward, California

FIGURE 4

AGI TECHNOLOGIES

PROJECT NO.	DRAWN	DATE	APPROVED	REVISED	DATE
gw-anal.cdr	15,833.002	DFF	29 August 94	ALW	15 Apr 96



AGI TECHNOLOGIES

Groundwater Chemical Analysis Results - September 1996

Harbert Transportation/Meekland Avenue
Hayward, California

FIGURE 4

PROJECT NO.	DRAWN	DATE	APPROVED	REVISED	DATE
gw-anal.cdr	15,833.002	DFF	29 August 94	ALW	15 Apr 96