R0370

New

Manmohan S. Chopra
29211 Marshbrook Dr
HAYWARD, Ca 94545

October 22, 2004

Alameda County Department of Enviromental Health
1131 Harbor Bay Parkway, 2nd Floor
ALAMEDA, Ca 94502

ATTN: Ms. Donna Drogos

SUBJECT: QUARTERLY GROUNDWATER MONITORING AND SAMPLING REPORT,
1401 Grand Ave. San Leandro, Ca

Dear Ms. Drogos,

Attached, for your review, comments and records, please find a copy of Groundwater Monitoring & Sampling Report number 055.R21, for the above site. This report was prepared by our consultants, P & D Enviromental. Actual sampling was performed on August 31, 2004

As the suspected sources of contamination were removed from the site in 1997 and no remediation action has ever been proposed, may I request a review of the situation, so that the site can be closed and the funds used for a more serious situation.

Please let me know, if I could of any assistance.

Sincerely,

Manmohan S. Chopra
Tel. # 510-785-0565

P & D ENVIRONMENTAL
A Division of Paul H. King, Inc.
4020 Panama Court
Oakland, CA 94611
(510) 658-6916

October 14, 2004
Letter 0055.L51

Mr. Manmohan Chopra
29211 Marshbrook Drive
Hayward, CA 94545

SUBJECT: QUARTERLY GROUNDWATER MONITORING AND SAMPLING REPORT TRANSMITTAL
Former Haber Oil Station
1401 Grand Ave.
San Leandro, California

Dear Mr. Chopra:

You will find enclosed three copies of the quarterly groundwater monitoring and sampling report 0055.R21 dated October 14, 2004 for the subject site. All of the wells were monitored and sampled on August 31, 2004.

A copy of this report should be forwarded to the following address:

Alameda County Department of Environmental Health
Attention: Ms. Donna Drogos
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502-6577

Should you have any questions or comments, please do not hesitate to contact me at (510) 658-6916.

Sincerely,

P&D Environmental

Paul H. King

Paul H. King
President
California Registered Geologist #5901
Expires: 12/31/05

Enclosures

PHK/tb
0055.L51

P & D ENVIRONMENTAL
A Division of Paul H. King, Inc.
4020 Panama Court
Oakland, CA 94611
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October 14, 2004
Report 0055.R21

Mr. Manmohan Chopra
29211 Marshbrook Drive
Hayward, CA 94545

SUBJECT: QUARTERLY GROUNDWATER MONITORING AND SAMPLING REPORT
Former Haber Oil Station
1401 Grand Avenue
San Leandro, California

Dear Mr. Chopra:

P&D Environmental (P&D) is pleased to present this report documenting the results of the most recent quarterly monitoring and sampling of the eight groundwater monitoring wells at or near the subject site. This work was performed in accordance with P&D's proposal 022698.P1 dated February 26, 1998. All of the wells were monitored and sampled on August 31, 2004. A Site Location Map (Figure 1) and Site Vicinity Map (Figure 2) are attached with this report.

BACKGROUND

The site is presently used as an active gasoline station. It is P&D's understanding that on April 24, 1991 Aegis Environmental, Inc. (Aegis) personnel drilled four soil borings, designated as B-1 through B-4, to a vertical depth of approximately 40 feet at the site. The locations of the borings are shown on Figure 2. A total of nine soil samples collected from the boreholes were analyzed for total petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8260; and for total lead by EPA Method 7420. TPH-G concentrations ranged from below detection limit to 66 milligram per kilogram (mg/kg). Benzene concentrations ranged from not detected to 0.94 mg/kg. Total lead concentrations ranged from not detected to 3 mg/kg. Documentation of the subsurface investigation and results are presented in a report prepared by Aegis titled, "Soil Boring Results Report," dated June 10, 1991.

It is P&D's understanding that on April 14, 1992 Aegis personnel returned to the site to drill three slant borings, designated as B5 through B7, to a total vertical depth of approximately 49 feet at the site. The borings were drilled at an angle of approximately 26 to 28 degrees to collect samples from beneath the underground storage tanks. The locations of the borings are shown on Figure 2. A total of twenty-two soil samples were analyzed for TPH-G using EPA Method 5030, and for BTEX using EPA Method 8240. In addition, one of the samples was analyzed for total lead using EPA Method 7420, and several of the soil samples were analyzed for soluble lead using the California Waste Extraction Test. TPH-G concentrations ranged from not detected to 4,000 mg/kg. Benzene, concentrations ranged from not detected to 11 mg/kg. Total lead was not detected, and soluble lead concentrations ranged from not detected to 0.061 mg/kg. Documentation of the subsurface investigation and results are presented in a report prepared by Aegis titled, "Initial Subsurface Investigation Results Report," dated June 22, 1992.

It is P&D's understanding that between September 15 and 18, 1992 Aegis personnel returned to the site to install five groundwater monitoring wells, designated as MW1 through MW5. The wells were drilled to total depths of between 50 and 55 feet, and were constructed using four-inch diameter PVC pipe. Wells MW1 and MW2 were constructed with perforated casing between the depths of approximately 15 and 55 feet. Wells MW3, MW4 and MW5 were constructed with perforated casing between the depths of approximately 35 and 55 feet. Groundwater was reported as first encountered at a depth of 42 feet. The well locations are shown in Figure 2.

A total of thirty-one soil samples were analyzed for TPH-G using EPA Method 5030/8015; and for BTEX using EPA Method 8020. In addition, three soil samples containing TPH-G were analyzed for total metals concentrations of cadmium, chromium, lead, and zinc using EPA Method 6010 and 7421. One soil sample was collected from each borehole from below the air-water interface and analyzed for petrophysical properties, including saturated permeability and grain size distribution.

TPH-G concentrations ranged from not detected to 39 mg/kg. Benzene concentrations ranged from not detected to 0.27 mg/kg. The total metals concentrations were all less than 10 times their respective STLC values. The subsurface materials encountered in the borings indicate that soil types vary across the site, but generally consist of silty clay, silt, clayey silt and sandy silt from the surface to a depth of between 30 and 35 feet. Below the depth of 30 to 35 feet, layers of sand and sandy silt were reported to have been encountered.

It is P&D's understanding that on September 29, 1992 Aegis personnel collected groundwater samples from wells MW1, MW2, MW4 and MW5 at the site. A sample was not collected from well MW3 due to the reported presence of 0.02 feet of floating hydrocarbons. The measured depth to water ranged from approximately 41.5 to 44.5 feet. The samples were analyzed for TPH-G using EPA Method 5030/8015; and for BTEX using EPA Method 8020. TPH-G concentrations ranged from 0.06 to 20 mg/L, and benzene concentrations ranged from 0.16 to 10 mg/L. Based upon the water level measurements in the wells, the groundwater flow direction was reported to be to the northwest. The water level measurements are summarized in Table 1. The analytical results are summarized in Table 2.

It is P&D's understanding that on October 7, 1992 Aegis personnel performed rising head slug tests wells MW1, MW2, and MW4 to estimate the saturated hydraulic conductivity at the site. In addition, two short-term soil vapor extraction tests were performed on wells MW1 and MW2. Wells MW3, MW4, and MW5 were used as vacuum influence monitoring points. Documentation of the monitoring well groundwater sample collection, slug test and vapor extraction tests are presented in a report prepared by Aegis titled, "Problem Assessment Report," dated December 16, 1992.

On February 18, 1994 P&D personnel monitored the five-groundwater monitoring wells at the site for depth to water and the presence of free product or sheen. The depth to water was measured using an electric water level indicator, and the presence of free product and sheen was

evaluated using a transparent bailer. The measured depth to water in the wells ranged from approximately 39.8 to 42.9 feet. No evidence of free product or sheen was detected in any of the wells. Based on the measured depth to water in the wells, the groundwater flow direction was calculated to be to the north with a gradient of 0.054. In a letter dated October 19, 1995 Mr. Scott Seery of the Alameda County Department of Environmental Health requested that all of the onsite and offsite wells be monitored and sampled for the quarterly monitoring and sampling program. The measured depth to water in the wells is presented in Table 1.

On June 15 and 16, 1995 P&D installed three offsite monitoring wells, designated as MW6 through MW8. The locations of the wells are shown on Figure 2. Documentation of the well installation and sample results is presented in P&D's report 0055.R5 dated August 23, 1995.

The underground storage tanks at the subject site were replaced in the first half of 1997. Following removal of the tanks, excavation of soil was performed in the area surrounding well MW1. As a result of the excavation activities, the elevation at the top of well MW1 was altered. The present elevation for the top of well MW1 is unknown.

In January 2003 Ms. Eva Chu of the Alameda County Department of Environmental Health (ACDEH) requested that the wells be analyzed for fuel oxygenates using EPA Method 8260. In a letter dated June 20, 2003 Ms. Chu requested that the analysis be continued.

FIELD ACTIVITIES

On August 31, 2004 all eight of the wells in the groundwater monitoring network for the site were monitored, purged, and sampled by P&D personnel. The wells were monitored for depth to water and the presence of free product or sheen. Depth to water was measured to the nearest 0.01 foot using an electric water level indicator. The presence of sheen was evaluated using a transparent bailer. No free product or sheen was observed in any of the wells. Depth to water level measurements and monitoring well groundwater surface elevations are presented in Table 1.

Prior to sampling, the wells were purged of a minimum of three casing volumes of water. Petroleum hydrocarbon odors were detected in purge water from wells MW2, MW3 and MW4. During purging operations, the field parameters of electrical conductivity, temperature and pH were monitored. Once the field parameters were observed to stabilize, and a minimum of three casing volumes had been purged, water samples were collected using a clean Teflon bailer. The water samples were transferred to 40-milliliter glass Volatile Organic Analysis (VOA) vials, which were sealed with Teflon-lined screw caps. The VOA vials were overturned and tapped to assure that no air bubbles were present.

The VOA vials were then transferred to a cooler with ice, and later were transported to McCampbell Analytical, Inc. in Pacheco, California. McCampbell Analytical, Inc. is a State-certified hazardous waste testing laboratory. Chain of custody documentation accompanied the samples to the laboratory. Records of the field parameters measured during well purging are attached with this report.

GEOLOGY AND HYDROGEOLOGY

The subsurface materials encountered in the borings drilled by Aegis indicate that soil types vary across the site, but generally consist of silty clay, silt, clayey silt, and sandy silt from the surface to a depth of between 30 and 35 feet. Below the depth of 30 to 35 feet, layers of sand and sandy silt were reported to have been encountered. Groundwater has historically been encountered at the site at depths ranging from approximately 40 to 45 feet below grade.

Based upon the regional groundwater flow direction identified by Woodward-Clyde Consultants in a report titled, "Hydrogeology of Central San Leandro and Remedial Investigation of Regional Groundwater Contamination - San Leandro Plume - San Leandro, California - Volume I," prepared for the California Environmental Protection Agency and dated December 29, 1993 the regional groundwater flow direction to the west of the site appears to be to the southwest. However, based upon the measured depth to water in the five wells at the site on September 29, 1992 Aegis identified a northwesterly groundwater flow direction. Based upon water level measurements collected by P&D from the five wells at the site on February 18, July 5, and October 12, 1994, February 1, and May 4, 1995 the groundwater flow direction at the site was calculated to be to the north, towards San Leandro Creek. Based upon water level measurements collected in wells MW1 through MW8 by P&D personnel on June 23 and December 19, 1995, March 28 and June 21, 1996 the groundwater flow direction was calculated to be to the northwest.

The measured depth to water at or near the site on August 31, 2004 for all of the wells ranged from 38.68 to 42.03 feet. Since the previous monitoring on June 3, 2004, groundwater elevations have decreased in all of the wells by amounts ranging from 0.61 feet to 0.83 feet. The groundwater flow direction on August 31, 2004 was to the northwest with a gradient of 0.045.

The groundwater flow direction and gradient have remained relatively unchanged since the previous water level measurements on June 3, 2004. The groundwater monitoring data are presented in Table 1. The groundwater flow direction at the site on August 31, 2004 is shown on Figure 2.

LABORATORY RESULTS

All of the groundwater samples collected from the monitoring wells were analyzed for TPH-G using Modified EPA Method 8015C and for Volatile Organic Compounds (VOCs), including fuel

oxygenates using EPA Method 8260B in accordance with a request from Ms. Eva Chu of the ACDEH.

The laboratory analytical results for the groundwater samples showed that TPH-G, BTEX, MTBE, and other VOCs were not detected in wells MW1, MW5, MW6, MW7, and MW8, except for MTBE at concentrations of 0.031, 0.0025, and 0.00051 mg/L in wells MW1, MW5, and MW6, respectively.

For all of the other wells, the laboratory results show that TPH-G was not detected in well MW4 but was detected in wells MW2 and MW3 at concentrations of 43 and 0.3 mg/L, respectively. MTBE was detected in wells MW2, MW3, and MW4 at concentrations of 2.7, 0.86, and 3.9 mg/L, respectively. BTEX compounds were not detected in wells MW3 and MW4. In well MW2, benzene, ethylbenzene, toluene, and xylenes were detected at concentrations of 4.4, 2.3, 2.3, and 8.2 mg/L, respectively. No fuel oxygenates other than MTBE were detected in any of the groundwater samples.

Since the previous sampling event, TPH-G concentrations have decreased in wells MW1, MW2 and MW4, and remained unchanged in well MW3. TPH-G has remained not detected in wells MW5 through MW8. MTBE concentrations have decreased in wells MW1 through MW5, increased in MW6, and remained not detected in wells MW7 and MW8. Benzene concentration has decreased in well MW2 and remained not detected in all other wells.

The laboratory analytical results are summarized in Table 2. Copies of the laboratory analytical report and chain of custody documentation are attached with this report.

DISCUSSION AND RECOMMENDATIONS

Based on the depth to water measurements on August 31, 2004 for monitoring wells MW4, MW6, MW7, and MW8, the groundwater flow direction at the subject site is to the northwest with a gradient of 0.045. The groundwater flow direction and gradient have remained relatively unchanged since the previous monitoring event.

Since the previous sampling event, TPH-G concentrations have decreased in wells MW1, MW2 and MW4, and remained unchanged in well MW3. TPH-G has remained not detected in wells MW5 through MW8. MTBE concentrations have decreased in wells MW1 through MW5, increased in MW6, and remained not detected in wells MW7 and MW8. Benzene concentration has decreased in well MW2 and remained not detected in all other wells. No fuel oxygenates other than MTBE were detected in the groundwater samples.

P&D recommends that the quarterly groundwater monitoring and sampling program be continued.

DISTRIBUTION

Copies of this report should be forwarded to Ms. Donna Drogos at the ACDEH.

LIMITATIONS

This report was prepared solely for the use of Mr. Manmohan Chopra. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with the site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgement based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between borings and pits and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities, which is used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental

Paul H. King

Paul H. King
President
California Registered Geologist #5901
Expires: 12/31/05

Attachments: Tables 1 & 2
Site Location Map (Figure 1)
Site Vicinity Map (Figure 2)
Field Parameter Forms
Laboratory Analytical Reports
Chain of Custody Documentation

PHK/tb
0055.R21

October 14, 2004
Report 0055.R21

TABLE 1
WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
MW1	8/31/04	Not Available	40.35	Not Available
	6/03/04	Not Available	39.59	Not Available
	2/20/04	Not Available	38.45	Not Available
	11/25/03	Not Available	40.00	Not Available
	7/15/03	Not Available	39.60	Not Available
	4/16/03	Not Available	38.91	Not Available
	1/20/03	Not Available	38.21	Not Available
	2/16/99	Not Available	34.58	Not Available
	1/25/98	Not Available	33.70	Not Available
	7/14/97	Not Available	39.45	Not Available
	3/11/97	87.98+	36.90	51.08
	6/21/96		38.56	49.42
	3/28/96		37.10	50.88
	12/19/95		40.16	47.82
	6/23/95		38.54	49.44
	5/04/95	87.96++	37.65	50.33
	2/01/95		38.46	49.52
	10/12/94		42.01	45.97
	7/05/94		41.36	46.62
	2/18/94		41.02	46.96
	9/29/92		42.77	45.21

NOTES:
Elevations are in feet Mean Sea Level.
ft. = Feet.
+ = Indicates survey data provided by Kier & Wright dated June 26, 1995.
++ = Indicates survey data provided by Aegis Environmental

TABLE 1 (Continued)
WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
MW2	8/31/04	86.61+	39.07	47.54
	6/03/04		38.32	48.29
	2/20/04		37.27	49.34
	11/25/03		38.68	47.93
	7/15/03		38.15	48.46
	4/16/03		37.50	49.11
	1/20/03		37.04	49.57
	2/16/99		33.51	53.10
	1/25/98		32.80	53.81
	7/14/97		38.46	48.15
	3/11/97		35.71	50.90
	6/21/96		37.30	49.31
	3/28/96		35.97	50.64
	12/19/95		38.80	47.81
	6/23/95		37.40	49.21
	5/04/95	86.60++	36.54	50.07
	2/01/95		37.27	49.34
	10/12/94		40.77	45.84
	7/05/94		40.13	46.48
	2/18/94		39.81	46.80
	9/29/92		41.55	45.06

NOTES:
Elevations are in feet Mean Sea Level.
ft. = Feet.
+ = Indicates survey data provided by Kier & Wright dated June 26, 1995.
++ = Indicates survey data provided by Aegis Environmental

TABLE 1 (Continued)
WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
MW3	8/31/04	87.48+	42.03	45.45
	6/03/04		41.34	46.14
	2/20/04		40.23	47.25
	11/25/03		41.70	45.78
	7/15/03		41.34	46.14
	4/16/03		40.60	46.88
	1/20/03		39.81	47.67
	2/16/99		34.91	52.57
	1/25/98		33.91	53.57
	7/14/97		40.61	46.87
	3/11/97		38.71	48.77
	6/21/96		40.61	46.87
	3/28/96		38.75	48.73
	12/19/95		42.20	45.28
	6/23/95		40.65	46.83
	5/04/95	87.50++	39.61	47.87
	2/01/95		40.13	47.35
	10/12/94		43.92	43.56
	7/05/94		43.32	44.16
	2/18/94		43.09	44.39
	9/29/92		44.60	42.88*

NOTES:
Elevations are in feet Mean Sea Level.
ft. = Feet.
+ = Indicates survey data provided by Kier & Wright dated June 26, 1995.
++ = Indicates survey data provided by Aegis Environmental, Inc.
** = Indicates depth to water measurements prior to groundwater monitoring well development.

TABLE 1 (Continued)
WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
MW4	8/31/04	86.21+	38.68	47.53
	6/03/04		38.01	48.20
	2/20/04		36.91	49.30
	11/25/03		38.43	47.78
	7/15/03		38.04	48.17
	4/16/03		37.32	48.89
	1/20/03		36.70	49.51
	2/16/99		33.43	52.78
	1/25/98		32.96	53.25
	7/14/97		38.10	48.11
	3/11/97		33.24	52.97
	6/21/96		37.12	49.09
	3/28/96		35.00	51.21
	12/19/95		38.45	47.76
	6/23/95		37.40	48.81
	5/04/95	86.20++	36.33	49.88
	2/01/95		36.96	49.25
	10/12/94		40.48	45.73
	7/05/94		39.69	46.52
	2/18/94		39.36	46.85
	9/29/92		44.29	41.92

NOTES:
Elevations are in feet Mean Sea Level.
ft. = Feet.
+ = Indicates survey data provided by Kier & Wright dated June 26, 1995.
++ = Indicates survey data provided by Aegis Environmental, Inc.

TABLE 1 (Continued)
WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
MW5	8/31/04	89.10+	41.75	47.35
	6/03/04		40.95	48.15
	2/20/04		39.69	49.41
	11/25/03		41.41	47.69
	7/15/03		41.06	48.04
	4/16/03		39.92	49.18
	1/20/03		39.50	49.60
	2/16/99		35.08	54.02
	1/25/98		34.08	55.02
	7/14/97		41.20	47.90
	3/11/97		38.02	51.08
	6/21/96		40.03	49.07
	3/28/96		38.30	50.80
	12/19/95		41.79	47.31
	6/23/95		39.87	49.23
	5/04/95	89.06++	38.94	50.16
	2/01/95		39.94	49.16
	10/12/94		43.81	45.29
	7/05/94		43.08	46.02
	2/18/94		42.88	46.22
	9/29/92		44.53	44.57

NOTES:
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++ = Indicates survey data provided by Aegis Environmental, Inc.

TABLE 1 (Continued)
WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
MW6	8/31/04	84.02+	39.27	44.75
	6/03/04		38.64	45.38
	2/20/04		37.61	46.41
	11/25/03		38.97	45.05
	7/15/03		38.61	45.41
	4/16/03		38.00	46.02
	1/20/03		37.21	46.81
	2/16/99		32.82	51.20
	1/25/98		31.64	52.38
	7/14/97		39.04	44.98
	3/11/97		36.32	47.70
	6/21/96		38.00	46.02
	3/28/96		36.18	47.84
	12/19/95		39.25	44.77
	6/23/95		38.17	45.85
	6/21/95**		38.11	45.91

NOTES:
Elevations are in feet Mean Sea Level.
ft. = Feet.
+ = Indicates survey data provided by Kier & Wright dated June 26, 1995.
++ = Indicates survey data provided by Aegis Environmental, Inc.
** = Indicates depth to water measurements prior to groundwater monitoring well development.

TABLE 1 (Continued)
WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
MW7	8/31/04	87.11+	41.94	45.17
	6/03/04		41.33	45.78
	2/20/04		40.21	46.90
	11/25/03		41.68	45.43
	7/15/03		41.30	45.81
	4/16/03		40.63	46.48
	1/20/03		39.77	47.34
	2/16/99		34.59	52.52
	1/25/98		33.47	53.64
	7/14/97		41.97	45.14
	3/11/97		38.96	48.15
	6/21/96		40.80	46.31
	3/28/96		38.94	48.17
	12/19/95		42.26	44.85
	6/23/95		41.00	46.11
	6/21/95**		40.30	46.81
MW8	8/31/04	89.70+	41.19	48.51
	6/03/04		40.36	49.34
	2/20/04		39.15	50.55
	11/25/03		40.92	48.78
	7/15/03		40.50	49.20
	4/16/03		39.52	50.18
	1/20/03		38.94	50.76
	2/16/99		33.92	55.78
	1/25/98		32.73	56.97
	7/14/97		39.98	49.72
	3/11/97		36.74	52.96
	6/21/96		38.69	51.01
	3/28/96		36.98	52.72
	12/19/95		40.35	49.35
	6/23/95		38.36	51.34
	6/21/95**		38.20	51.50

NOTES:
Elevations are in feet Mean Sea Level.
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** = Indicates depth to water measurements prior to groundwater monitoring well development.

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TABLE 2
GROUNDWATER
LABORATORY ANALYTICAL RESULTS
(MW1)

Date	TPH-G	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other VOCs by EPA 8260
08/31/04	ND	0.031	ND	ND	ND	ND	ND
06/03/04	0.059	0.13	ND< 0.0025	ND<0.0025	ND<0.0025	ND< 0.0025	ND
02/20/04	0.22	0.18	0.0085	ND<0.005	ND<0.005	0.0098	ND
11/25/03	0.140	0.032	0.0025	ND<0.001	ND<0.001	ND<0.001	ND
07/15/03	0.060	0.053	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND, except t-Butyl Alcohol (TBA) = 0.012
04/17/03	0.052	0.056	0.0011	ND<0.001	ND<0.001	ND<0.001	ND, except t-Butyl Alcohol (TBA) = 0.013
01/20/03	0.17	0.085	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
02/17/99	0.97	0.29	0.067	0.12	0.0093	0.058	--
01/25/98	0.30	ND<0.014	0.021	0.00073	0.0076	0.0010	--
07/14/97	0.20	0.035	0.020	0.0055	0.0012	0.0023	--
03/11/97	0.60	0.014	0.053	0.00095	0.003	0.0015	--
06/21/96	1.4	0.019	0.30	0.0087	0.033	0.0098	--
03/28/96	1.3	0.022	0.32	0.0023	0.034	0.0046	--
12/19/95	0.50	0.0081	0.087	0.0015	0.011	0.0035	--
06/23/95	Not	Sampled					
05/4/95	2.4	--	0.67	0.0028	0.076	0.0060	--
02/01/95	4.6	--	1.8	0.0099	0.23	0.030	--
10/12/94	2.5	--	0.82	0.0039	0.10	0.020	--
07/05/94	3.0	--	1.3	0.0038	0.035	0.0025	--
09/29/92	3.1	--	0.16	ND	ND	0.0060	--

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
MTBE = Methyl Tert Butyl Ether.
VOCs = Volatile Organic Compounds
ND = Not Detected.
-- = Sample not analyzed for this compound during this sampling event.
Results are reported in milligrams per liter (mg/L), unless otherwise specified.

TABLE 2 (Continued)
GROUNDWATER
LABORATORY ANALYTICAL RESULTS
(MW2)

Date	TPH-G	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other VOCs by EPA 8260
08/31/04	43	2.7	4.4	2.3	2.3	8.2	ND, except Isopropylbenzene = 0.061 1,2,4-Trimethylbenzene = 1.9 Napthalene = 0.57 n-Propyl benzene = 0.20 1,3,5-Trimethylbenzene = 0.4
06/03/04	50	3.9	5.4	4.2	2.2	8.8	ND, except Napthalene = 0.36 n-Propyl benzene = 0.14 1,2,4-Trimethylbenzene = 1.3 1,3,5-Trimethylbenzene = 0.3
02/20/04	61	2.7	5.9	3.5	2.4	10	ND, except tert-Butyl benzene = 0.15 Napthalene = 0.23 n-Propyl benzene = 0.15 1,2,4-Trimethylbenzene = 1.3 1,3,5-Trimethylbenzene = 0.33
11/25/03	65	2.7	6.8	8.8	2.9	16	ND, except Napthalene = 0.54 1,2,4-Trimethylbenzene = 1.8 1,3,5-Trimethylbenzene = 0.42
07/15/03	78	4.1	3.3	4.4	1.8	9.3	ND, except Naphthalene = 0.29 1,2,4-Trimethylbenzene = 1.3 1,3,5-Trimethylbenzene = 0.32 n-Propyl benzene = 0.15
04/17/03	57	5.6	3.4	5.1	2.8	10	ND, except Naphthanlene = 0.43 1,2,4-Trimethylbenzene = 2.2 n-proylbenzene = 0.26 1,3,5-Trimethylbenzene = 0.55

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
MTBE = Methyl Tert Butyl Ether.
VOCs = Volatile Organic Compounds
ND = Not Detected.
-- = Sample not analyzed for this compound during this sampling event.
Results are reported in milligrams per liter (mg/L), unless otherwise specified.

TABLE 2 (Continued)
GROUNDWATER
LABORATORY ANALYTICAL RESULTS
(MW2 Continued)

Date	TPH-G	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other VOCs by EPA 8260
01/20/03	48	3.8	2.9	3.0	2.0	11	ND, except Naphthanlene = 0.35 1,2,4-Trimethylbenzene = 1.4 1,3,5-Trimethylbenzene = 0.32 Isopropylbenzene = 0.069 n-Propyl benzene = 0.16
02/17/99	7.3	0.29	0.067	0.12	0.0093	0.058	--
01/25/98	24	2.7	2.7	4.9	0.70	4.0	--
07/14/97	43	1.6	6.2	8.9	1.5	7.4	--
03/11/97	28	0.71	4.0	4.5	0.99	4.3	--
06/21/96	49	0.53	6.6	6.3	1.4	6.2	--
03/28/96	38	0.45	5.8	4.7	1.1	5.1	--
12/19/95	25	0.45	5.2	3.8	0.86	3.8	--
06/23/95	Not Sampled						
05/4/95	63	--	10	11	1.6	8.8	--
02/01/95	45	--	7.0	5.1	1.2	6.1	--
10/12/94	24	--	4.4	2.8	0.73	3.5	--
07/05/94	46	--	9.1	7.0	1.4	7.3	--
09/29/92	20	--	4.6	3.8	0.26	3.3	--

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
MTBE = Methyl Tert Butyl Ether.
VOCs = Volatile Organic Compounds
ND = Not Detected.
-- = Sample not analyzed for this compound during this sampling event.
Results are reported in milligrams per liter (mg/L), unless otherwise specified.

TABLE 2 (Continued)
GROUNDWATER
LABORATORY ANALYTICAL RESULTS
(MW3)

Date	TPH-G	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other VOCs by EPA 8260
08/31/04	0.11	0.86	ND	ND	ND	ND	ND
06/03/04	0.11, a	1.4	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND
02/20/04	0.090	0.73	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
11/25/03	0.11	0.33	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
07/15/03	0.16	0.66	ND<0.0012	ND<0.0012	ND<0.0012	ND<0.0012	ND
04/17/03	0.18	0.34	ND	ND	ND	ND	ND
01/20/03	0.12	0.25	ND<0.005	ND<0.005	ND<0.005	0.0052	ND
02/17/99	ND	0.29	0.067	0.12	0.0093	0.058	--
01/25/98	0.49	0.71	0.0079	0.0061	0.0053	0.029	--
07/14/97	0.40	0.11	0.00093	0.010	0.0013	0.00068	--
03/11/97	1.1	0.68	0.053	0.013	0.063	0.017	--
06/21/96	1.3	0.3	0.094	0.0021	0.039	0.002	--
03/28/96	4.6	1.1	1.4	0.012	0.17	0.020	--
12/19/95	0.95	0.12	0.16	0.0023	0.015	0.0016	--
06/23/95	Not Sampled						
05/4/95	7.2	--	3.1	0.038	0.20	0.062	--
02/01/95	11	--	4.2	0.031	0.33	0.29	--
10/12/94	1.7	--	0.39	0.00090	0.018	0.0057	--
07/05/94	3.6	--	1.6	0.0083	0.076	0.047	--
09/29/92	Not Sampled						

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
MTBE = Methyl Tert Butyl Ether.
VOCs = Volatile Organic Compounds
ND = Not Detected.
-- = Sample not analyzed for this compound during this sampling event.
Results are reported in milligrams per liter (mg/L), unless otherwise specified.
b = heavier gasoline range compounds are significant (aged gasoline?)
c = lighter gasoline range compounds (the most notable faction) are significant

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TABLE 2 (Continued)
GROUNDWATER
LABORATORY ANALYTICAL RESULTS
(MW4)

Date	TPH-G	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other VOCs by EPA 8260
08/31/04	ND	3.9	ND	ND	ND	ND	ND
06/03/04	0.32	6.2	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND
02/20/04	ND<0.25,a	6.6	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND
11/25/03	ND<1.0,a	8.8	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND
07/15/03	0.44	6.8	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND
04/17/03	0.38	5.4	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND
01/20/03	0.21	3.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND
02/17/99	0.23	0.20	0.065	0.0022	0.0096	0.033	--
01/25/98	0.91	0.23	0.15	0.019	0.31	0.14	--
07/14/97	0.98	0.40	0.21	0.0017	0.090	0.046	--
03/11/97	3.8	1.1	1.1	0.053	0.24	0.26	--
06/21/96	11	1.2	2.4	0.083	0.53	0.91	--
03/28/96	5.6	0.64	1.4	0.038	0.31	0.30	--
12/19/95	2.0	0.21	0.70	0.029	0.089	0.15	--
06/23/95	Not	Sampled					
05/4/95	3.3	--	0.89	0.068	0.15	0.30	--
02/01/95	1.4	--	0.39	0.055	0.049	0.18	--
10/12/94	0.68	--	0.14	0.0087	0.014	0.052	--
07/05/94	2.6	--	0.47	0.045	0.084	0.25	--
09/29/92	0.63	--	0.17	0.06	0.0073	0.65	--

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
MTBE = Methyl Tert Butyl Ether.
VOCs = Volatile Organic Compounds
ND = Not Detected.
-- = Sample not analyzed for this compound during this sampling event.
Results are reported in milligrams per liter (mg/L), unless otherwise specified.
a = Laboratory Report Note: reporting limit raised due to high MTBE content

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TABLE 2 (Continued)
GROUNDWATER
LABORATORY ANALYTICAL RESULTS
(MW5)

Date	TPH-G	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other VOCs by EPA 8260
08/31/04	ND	0.0025	ND	ND	ND	ND	ND
06/03/04	ND<0.05	0.0072	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001
02/20/04	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
11/25/03	ND<0.05	0.00084	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND
07/15/03	ND	0.0014	ND	ND	ND	ND	ND
04/17/03	ND	ND	ND	ND	ND	ND	ND
01/20/03	ND	ND	ND	ND	ND	ND	ND
02/17/99	0.17	ND	ND	0.00074	ND	ND	--
01/25/98	ND	ND	ND	ND	ND	ND	--
07/14/97	ND	ND	ND	ND	ND	ND	--
03/11/97	ND	ND	ND	ND	ND	0.00077	--
06/21/96	ND	ND	ND	ND	ND	ND	--
03/28/96	ND	ND	ND	ND	ND	ND	--
12/19/95	ND	ND	ND	ND	ND	ND	--
06/23/95	Not	Sampled					
05/4/95	ND	--	ND	ND	ND	ND	--
02/01/95	ND	--	ND	ND	ND	ND	--
10/12/94	ND	--	ND	ND	ND	ND	--
07/05/94	ND	--	ND	ND	ND	0.0010	--
09/29/92	0.06	--	10	0.0071	ND	0.0069	--

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
MTBE = Methyl Tert Butyl Ether.
VOCs = Volatile Organic Compounds
ND = Not Detected.
-- = Sample not analyzed for this compound during this sampling event.
Results are reported in milligrams per liter (mg/L), unless otherwise specified.

TABLE 2 (Continued)
GROUNDWATER
LABORATORY ANALYTICAL RESULTS
(MW6)

Date	TPH-G	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other VOCs by EPA 8260
08/31/04	ND	0.00051	ND	ND	ND	ND	ND except Chloroform = 0.00084 Tetrachloroethene=0.00051
06/03/04	ND<0.05	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001
02/20/04	ND<0.05	0.0011	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
11/25/03	ND<0.05	0.00084	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND, except Chloroform = 0.00089
07/15/03	ND	ND	ND	ND	ND	ND	ND, except Chloroform = 0.00084 1,2-Dibromo-3-chloropropane = 0.00066 Tetrachloroethene = 0.00067
04/17/03	ND	ND	ND	ND	ND	ND	ND, except Chloroform = 0.0012
01/20/03	ND	0.0012	ND	ND	ND	ND	ND, except Chloroform = 0.0011
02/17/99	ND	ND	ND	ND	ND	ND	--
01/25/98	ND	ND	ND	ND	ND	ND	--
07/14/97	ND	0.019	ND	ND	ND	ND	--
03/11/97	ND	ND	ND	ND	ND	ND	--
06/21/96	ND	ND	ND	ND	ND	ND	--
03/28/96	ND	ND	ND	ND	ND	ND	--
12/19/95	ND	0.01	ND	ND	ND	ND	--
06/23/95	ND	0.003	ND	ND	ND	ND	--

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
MTBE = Methyl Tert Butyl Ether.
VOCs = Volatile Organic Compounds
ND = Not Detected.
-- = Sample not analyzed for this compound during this sampling event.
Results are reported in milligrams per liter (mg/L), unless otherwise specified.

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TABLE 2 (Continued)
GROUNDWATER
LABORATORY ANALYTICAL RESULTS
(MW7)

Date	TPH-G	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other VOCs by EPA 8260
08/31/04	ND	ND	ND	ND	ND	ND	ND, except Tetrachloroethane = 0.00073
06/03/04	ND<0.05	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND, except Tetrachloroethane = 0.00098
02/20/04	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND, except Tetrachloroethane = 0.0013
11/25/03	ND<0.05	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND, except Chloroform = 0.00076 Tetrachloroethene = 0.00078
07/15/03	ND	ND	ND	ND	ND	ND	ND, except Chloroform = 0.00061 1,2-Dibromo-3-chloropropane = 0.00064 Tetrachloroethene = 0.0012
04/17/03	ND	ND	ND	ND	ND	ND	ND, except Chloroform = 0.00075 Tetrachloroethene = 0.0012
01/20/03	ND	ND	ND	ND	ND	ND	ND, except Chloroform = 0.00056
02/17/99	ND	ND	ND	ND	ND	ND	--
01/25/98	ND	ND	ND	ND	ND	ND	--
07/14/97	ND	ND	ND	ND	ND	ND	--
03/11/97	ND	ND	ND	ND	ND	ND	--
06/21/96	ND	ND	ND	ND	ND	ND	--
03/28/96	ND	ND	ND	ND	ND	ND	--
12/19/95	ND	ND	ND	ND	ND	ND	--
06/23/95	ND	ND	ND	ND	ND	ND	--

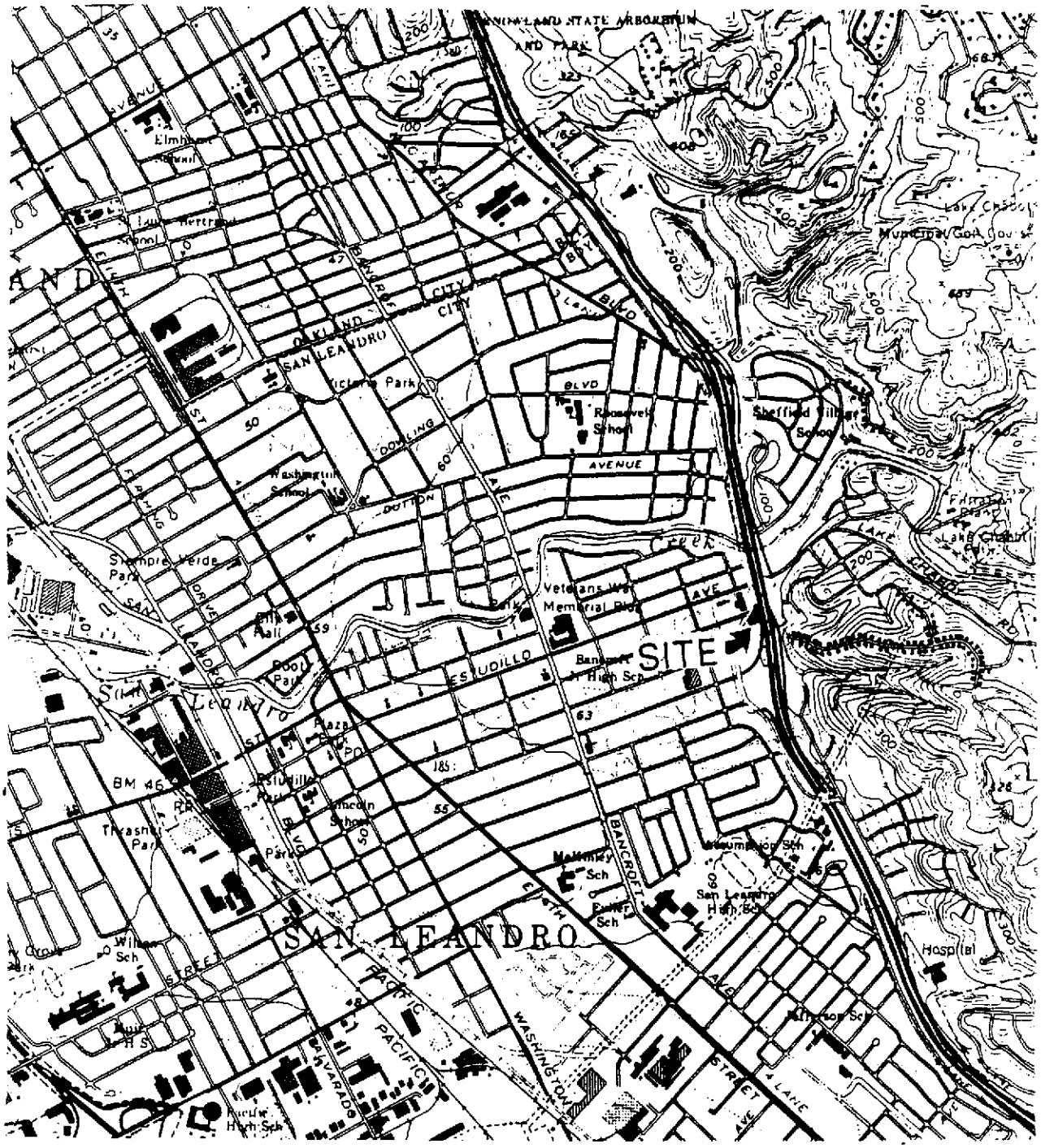
NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
MTBE = Methyl Tert Butyl Ether.
VOCs = Volatile Organic Compounds
ND = Not Detected.
-- = Sample not analyzed for this compound during this sampling event.
Results are reported in milligrams per liter (mg/L), unless otherwise specified.

TABLE 2 (Continued)
GROUNDWATER
LABORATORY ANALYTICAL RESULTS
(MW8)

Date	TPH-G	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other VOCs by EPA 8260
08/31/04	ND	ND	ND	ND	ND	ND	ND, except Chloroform = 0.0013
06/03/04	ND<0.05	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND, except Chloroform = 0.001
02/20/04	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND, except Chloroform = 0.00078
11/25/03	ND<0.05	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND, except Chloroform = 0.0014
07/15/03	ND	ND	ND	ND	ND	0.00066	ND, except Chloroform = 0.0014 1,2-Dibromo-3-chloropropane = 0.00052
04/17/03	ND	ND	ND	ND	ND	ND	ND, except Chloroform = 0.0018
01/20/03	ND	ND	ND	ND	ND	ND	ND, except Chloroform = 0.0013
02/17/99	ND	ND	ND	ND	ND	ND	--
01/25/98	ND	ND	ND	ND	ND	ND	--
07/14/97	ND	ND	ND	ND	ND	ND	--
03/11/97	ND	ND	ND	ND	ND	ND	--
06/21/96	ND	ND	ND	ND	ND	ND	--
03/28/96	ND	ND	ND	ND	ND	ND	--
12/19/95	ND	ND	ND	ND	ND	ND	--
06/23/95	ND	ND	ND	ND	ND	ND	--

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
MTBE = Methyl Tert Butyl Ether.
VOCs = Volatile Organic Compounds
ND = Not Detected.
-- = Sample not analyzed for this compound during this sampling event.
Results are reported in milligrams per liter (mg/L), unless otherwise specified.

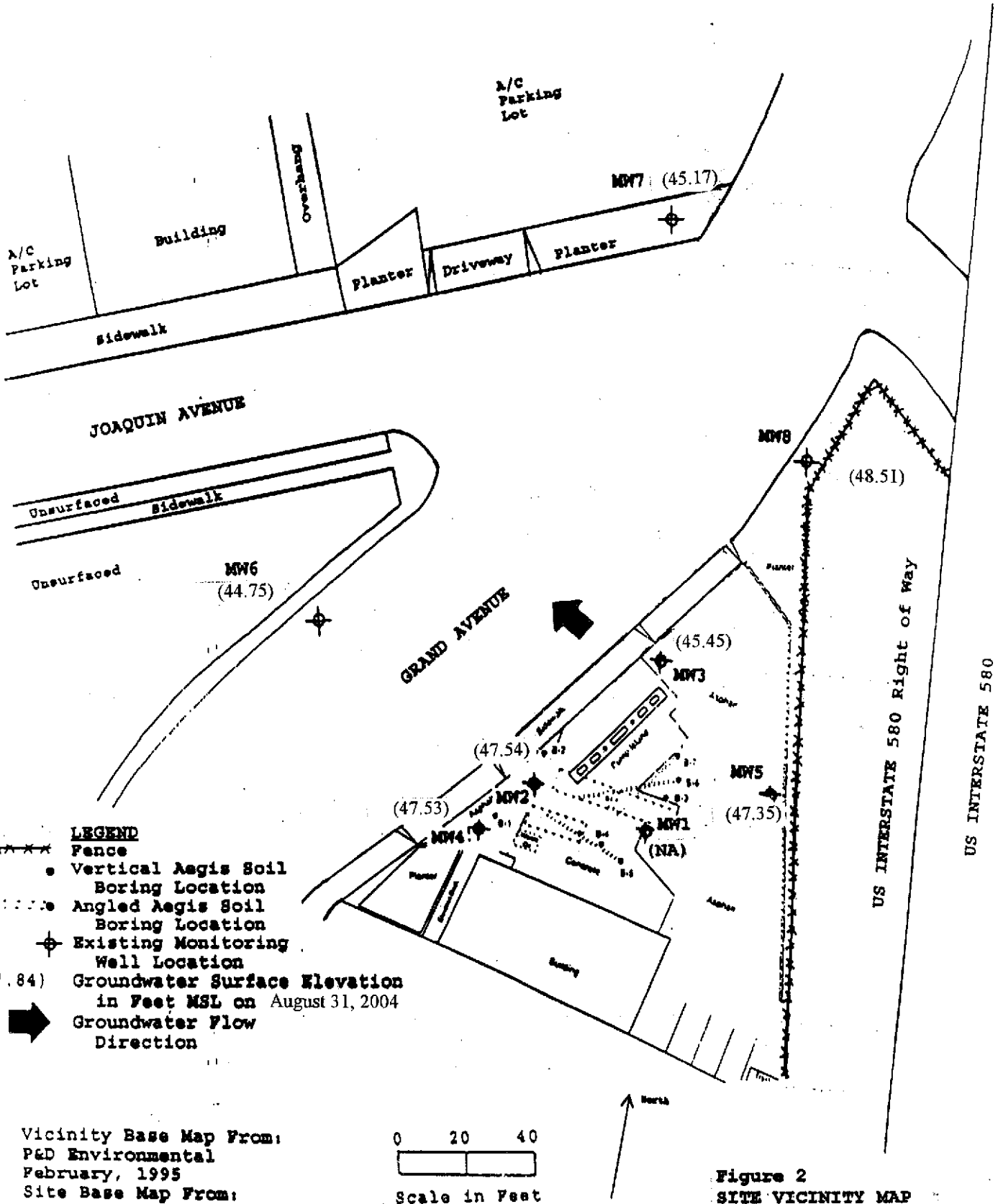
P & D ENVIRONMENTAL
A Division of Paul H. King, Inc.
4020 Panama Court
Oakland, CA 94611
(510) 658-6916



Base Map From:
U.S. Geological Survey
San Leandro, Calif.
7.5 Minute Quadrangle
Photorevised 1980

Figure 1
SITE LOCATION MAP
Former Haber Oil Station
1401 Grand Avenue
San Leandro, California

P & D ENVIRONMENTAL
A Division of Paul H. King, Inc.
4020 Panama Court
Oakland, CA 94611
(510) 658-6916



Vicinity Base Map From:
P&D Environmental
February, 1995
Site Base Map From:
Aegis Environmental, Inc.
Problem Assessment Report
dated December 16, 1992

Figure 2
SITE VICINITY MAP
Former Haber Oil Station
1401 Grand Avenue
San Leandro, California

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name FORMER HABER OIL
Well No. MW1
Job No. 0055
Date 8/31/04
TOC to Water (ft.) 40.35
Sheen None
Well Depth (ft.) 55'
Free Product Thickness Ø
Well Diameter 4"
Sample Collection Method
Gal./Casing Vol. 9.4
= 28.2
TEFLON BAILER

TIME	GAL. PURGED	pH	TEMPERATURE (°F)	ELECTRICAL CONDUCTIVITY (mS/cm)
1:22	~~0.5~~ 5.0	4.25	91.9	2.11
1:24	10.0	4.24	90.8	2.11
1:28	15.0	4.21	90.9	2.06
1:32	20.0	4.14	89.5	2.08
1:36	25.0	4.11	89.6	1.98
1:40	29.0	4.13	89.7	2.02
1:45	Sampling time.			

NOTES: NO PHC odor or sheen on purge water

PURGE10.92

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name FORMER HARBER OIL
Well No. MW2
Job No. 0055
Date 8/31/04
TOC to Water (ft.) 39.07
Sheen None
Well Depth (ft.) 55
Free Product Thickness Ø
Well Diameter 4"
Sample Collection Method
Gal./Casing Vol. 10.3
30.9
TEFLON BAILER

TIME	GAL. PURGED	pH	TEMPERATURE (°F)	ELECTRICAL CONDUCTIVITY (mS/cm)
4:09	5	4.07	90.3	2.08
4:14	10	3.99	88.7	1.96
4:20	15	3.69	86.4	1.82
4:27	20	3.64	85.9	1.76
4:32	25	3.59	85.1	1.67
4:39	31	3.62	84.5	1.61
4:45	Sampling time.			

NOTES: Strong PHC odor, but no sheen on sample.

PURGE10.92

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name FORMER HARBOR OIL — Well No. MW3

Job No. 0055 — Date 8/31/04

TOC to Water (ft.) 42.03 — Sheen None

Well Depth (ft.) 55 — Free Product Thickness Ø

Well Diameter 4" — Sample Collection Method

Gal./Casing Vol. 8.4 — TEFLON BAILER

Σ = 25.2

TIME	GAL. PURGED	pH 3.97 ~~1.78~~	TEMPERATURE (°F)	ELECTRICAL CONDUCTIVITY (MS/cm) ~~3.97~~ 1.78
2:19	5.0		89.1	
2:25	9.0	3.88	87.2	1.78
2:29	14.0	3.83	86.3	1.67
2:34	18.0	3.75	84.5	1.56
2:39	22.0	3.74	83.4	1.52
2:42	26.0	3.73	83.4	1.52
2:50	Sampling time.			

NOTES: PHC odor, but no sheen on purge water

PURGE10.92

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name FORMER HARBER OIL — Well No. MW4

Job No. 0055 — Date 8/31/04

TOC to Water (ft.) 38.68 — Sheen None

Well Depth (ft.) 55 — Free Product Thickness Ø

Well Diameter 4" — Sample Collection Method TEFLON BAILER

Gal./Casing Vol. 10.5 Σ = 31.5

TIME	GAL. PURGED	pH	TEMPERATURE (°F)	ELECTRICAL CONDUCTIVITY (mS/cm)
3:12	9	4.21	86.6	2.07
3:16	10	4.18	86.9	2.07
3:18	15	4.07	85.6	1.98
3:24	20	4.04	85.2	1.98
3:29	25	4.02	84.9	1.96
3:35	32	3.99	84.9	1.95
3:40	Sampling time			

NOTES: PHC Odor, but no sheen on purge water.

PURGE10.92

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name FORMER HABER OIL
Job No. 0055
TOC to Water (ft.) 41.75
Well Depth (ft.) 55
Well Diameter 4"
Gal./Casing Vol. ~~2.1~~ 8.6 ~~6.9~~ 24.8

Well No. MW5
Date 8/31/04
Sheen None
Free Product Thickness Ø
Sample Collection Method TEFLON BAILER

TIME	GAL. PURGED	pH	TEMPERATURE (°F)	ELECTRICAL CONDUCTIVITY (mS/cm)
12:24	~~1.0~~ 3.0	3.74	90.6	2.21
12:27	~~2.0~~ 6.0	3.69	88.8	2.08
12:29	~~3.0~~ 10.0	3.69	87.1	2.08
12:33	~~4.0~~ 15.0	3.71	86.6	2.02
12:37	~~5.0~~ 20.0	3.97	89.8	2.19
12:41	~~6.5~~ 25.0	4.04	90.5	2.24
12:45	Sampling time.			

NOTES: NO PHC odor or sheen on purge water

PURGE10.92

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name FORMER HARBER OIL
Well No. MW 6
Job No. 0055
Date 8/31/04
TOC to Water (ft.) 3.27
Sheen None
Well Depth (ft.) 50
Free Product Thickness Ø
Well Diameter 2"
Sample Collection Method
Gal./Casing Vol. 1.7
TEFLON BAILER
EQ 5.1

TIME	GAL. PURGED	pH	TEMPERATURE (°F)	ELECTRICAL CONDUCTIVITY (MS/cm)
11:47	0.5	3.56	90.2	2.03
11:48	1.0	3.49	88.3	2.00
11:48	2.0	3.47	87.9	2.02
11:49	3.0	3.47	87.8	2.03
11:50	4.0	3.49	87.3	2.04
11:50	5.2	3.50	87.3	2.04
11:55	Sampling time			

NOTES: No HHC odor or sheen on purge water.

PURGE10.92

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name FORMER HARBOR OIL
Job No. 0055
TOC to Water (ft.) 41.94
Well Depth (ft.) 50
Well Diameter 2"
Gal./Casing Vol. 1.3 E=3.9

Well No. MW7
Date 8/31/04
Sheen NONE
Free Product Thickness Ø
Sample Collection Method
TEFLON BAILER

TIME	GAL. PURGED	pH	TEMPERATURE (of)	ELECTRICAL CONDUCTIVITY (mS/cm)
11:10	0.5	2.79	82.0	1.50
11:10	1.0	2.77	80.3	1.48
11:11	1.5	2.77	79.8	1.48
11:11	2.0	2.76	~~97~~ 79.7	1.48
11:12	3.0	2.76	79.7	1.49
11:12	3.5	2.76	79.8	1.48
11:13	4.0	2.77	79.5	1.50
11:20	Sampling	Time		

NOTES: NO PHC odor or sheen on purge water.

PURGE10.92

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name FORMER HANSON OIL
Job No. 0055
TOC to Water (ft.) 41.19
Well Depth (ft.) 50
Well Diameter 2"
Gal./Casing Vol. 1.4
3= 4.2

Well No. MW8
Date 8/31/04
Sheen None
Free Product Thickness Ø
Sample Collection Method
TEFLON BAILER

TIME	GAL. PURGED	pH	TEMPERATURE (°F)	ELECTRICAL CONDUCTIVITY (mS/cm)
10:31	0.5	3.82	98.6	2.59
10:31	1	3.73	93.7	2.45
10:32	1.5	3.64	92.4	2.41
10:32	2.5	3.56	90.7	2.35
10:34	3.5	3.45	89.4	2.24
10:34	4.5	3.36	87.6	2.14
10:35	5.0	3.25	86.0	2.07
10:35	5.5	3.19	85.1	2.01
10:40	Sampling	Done		

NOTES: NO PHC odor or sheen on purge water

PURGE10.92

McCampbell Analytical, Inc.

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Website: www.mccampbell.com E-mail: main@mccampbell.com

P & D Environmental 4020 Panama Court Oakland, CA 94611-4931	Client Project ID: #0055; Former Haber Oil	Date Sampled: 08/31/04
		Date Received: 09/01/04
	Client Contact: Wilhelm Welzenbach	Date Extracted: 09/02/04-09/04/04
	Client P.O.:	Date Analyzed: 09/02/04-09/04/04

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline *

Extraction method: SW5030B Analytical methods: SW8015Cm Work Order: 0409016

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	MW-1	W	ND	1	100
002A	MW-2	W	43,000,a	100	99.1
003A	MW-3	W	110,m	1	106
004A	MW-4	W	ND<250,j	5	106
005A	MW-5	W	ND	1	96.6
006A	MW-6	W	ND	1	97.1
007A	MW-7	W	ND	1	99.2
008A	MW-8	W	ND	1	96.7

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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P & D Environmental	Client Project ID: #0055; Former Haber Oil	Date Sampled: 08/31/04
4020 Panama Court		Date Received: 09/01/04
	Client Contact: Wilhelm Welzenbach	Date Extracted: 09/02/04
Oakland, CA 94611-4931	Client P.O.:	Date Analyzed: 09/02/04

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0409016

Lab ID	0409016-001B
Client ID	MW-1
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	31	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	104	%SS2:	94.2
%SS3:	95.7		

Comments:

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

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

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

DF = Dilution Factor

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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P & D Environmental	Client Project ID: #0055; Former Haber Oil	Date Sampled: 08/31/04
4020 Panama Court		Date Received: 09/01/04
	Client Contact: Wilhelm Welzenbach	Date Extracted: 09/02/04
Oakland, CA 94611-4931	Client P.O.:	Date Analyzed: 09/02/04

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0409016

Lab ID	0409016-002B
Client ID	MW-2
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<500	100	5.0	Acrolein (Propenal)	ND<500	100	5.0
Acrylonitrile	ND<200	100	2.0	tert-Amyl methyl ether (TAME)	ND<50	100	0.5
Benzene	4400	100	0.5	Bromobenzene	ND<50	100	0.5
Bromochloromethane	ND<50	100	0.5	Bromodichloromethane	ND<50	100	0.5
Bromoform	ND<50	100	0.5	Bromomethane	ND<50	100	0.5
2-Butanone (MEK)	ND<200	100	2.0	t-Butyl alcohol (TBA)	ND<500	100	5.0
n-Butyl benzene	ND<50	100	0.5	sec-Butyl benzene	ND<50	100	0.5
tert-Butyl benzene	ND<50	100	0.5	Carbon Disulfide	ND<50	100	0.5
Carbon Tetrachloride	ND<50	100	0.5	Chlorobenzene	ND<50	100	0.5
Chloroethane	ND<50	100	0.5	2-Chloroethyl Vinyl Ether	ND<100	100	1.0
Chloroform	ND<50	100	0.5	Chloromethane	ND<50	100	0.5
2-Chlorotoluene	ND<50	100	0.5	4-Chlorotoluene	ND<50	100	0.5
Dibromochloromethane	ND<50	100	0.5	1,2-Dibromo-3-chloropropane	ND<50	100	0.5
1,2-Dibromoethane (EDB)	ND<50	100	0.5	Dibromomethane	ND<50	100	0.5
1,2-Dichlorobenzene	ND<50	100	0.5	1,3-Dichlorobenzene	ND<50	100	0.5
1,4-Dichlorobenzene	ND<50	100	0.5	Dichlorodifluoromethane	ND<50	100	0.5
1,1-Dichloroethane	ND<50	100	0.5	1,2-Dichloroethane (1,2-DCA)	ND<50	100	0.5
1,1-Dichloroethene	ND<50	100	0.5	cis-1,2-Dichloroethene	ND<50	100	0.5
trans-1,2-Dichloroethene	ND<50	100	0.5	1,2-Dichloropropane	ND<50	100	0.5
1,3-Dichloropropane	ND<50	100	0.5	2,2-Dichloropropane	ND<50	100	0.5
1,1-Dichloropropene	ND<50	100	0.5	cis-1,3-Dichloropropene	ND<50	100	0.5
trans-1,3-Dichloropropene	ND<50	100	0.5	Diisopropyl ether (DIPE)	ND<50	100	0.5
Ethylbenzene	2300	100	0.5	Ethyl tert-butyl ether (ETBE)	ND<50	100	0.5
Freon 113	ND<1000	100	10	Hexachlorobutadiene	ND<50	100	0.5
Hexachloroethane	ND<50	100	0.5	2-Hexanone	ND<50	100	0.5
Isopropylbenzene	61	100	0.5	4-Isopropyl toluene	ND<50	100	0.5
Methyl-t-butyl ether (MTBE)	2700	100	0.5	Methylene chloride	ND<50	100	0.5
4-Methyl-2-pentanone (MIBK)	ND<50	100	0.5	Naphthalene	570	100	0.5
Nitrobenzene	ND<1000	100	10	n-Propyl benzene	200	100	0.5
Styrene	ND<50	100	0.5	1,1,1,2-Tetrachloroethane	ND<50	100	0.5
1,1,2,2-Tetrachloroethane	ND<50	100	0.5	Tetrachloroethene	ND<50	100	0.5
Toluene	2300	100	0.5	1,2,3-Trichlorobenzene	ND<50	100	0.5
1,2,4-Trichlorobenzene	ND<50	100	0.5	1,1,1-Trichloroethane	ND<50	100	0.5
1,1,2-Trichloroethane	ND<50	100	0.5	Trichloroethene	ND<50	100	0.5
Trichlorofluoromethane	ND<50	100	0.5	1,2,3-Trichloropropane	ND<50	100	0.5
1,2,4-Trimethylbenzene	1900	100	0.5	1,3,5-Trimethylbenzene	400	100	0.5
Vinyl Chloride	ND<50	100	0.5	Xylenes	8200	100	0.5

Surrogate Recoveries (%)

%SS1:	98.7	%SS2:	101
%SS3:	102		

Comments:

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

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

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

DF = Dilution Factor

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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P & D Environmental	Client Project ID: #0055; Former Haber Oil	Date Sampled: 08/31/04
4020 Panama Court		Date Received: 09/01/04
	Client Contact: Wilhelm Welzenbach	Date Extracted: 09/02/04
Oakland, CA 94611-4931	Client P.O.:	Date Analyzed: 09/02/04

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0409016

Lab ID	0409016-003B
Client ID	MW-3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<100	20	5.0	Acrolein (Propenal)	ND<100	20	5.0
Acrylonitrile	ND<40	20	2.0	tert-Amyl methyl ether (TAME)	ND<10	20	0.5
Benzene	ND<10	20	0.5	Bromobenzene	ND<10	20	0.5
Bromochloromethane	ND<10	20	0.5	Bromodichloromethane	ND<10	20	0.5
Bromoform	ND<10	20	0.5	Bromomethane	ND<10	20	0.5
2-Butanone (MEK)	ND<40	20	2.0	t-Butyl alcohol (TBA)	ND<100	20	5.0
n-Butyl benzene	ND<10	20	0.5	sec-Butyl benzene	ND<10	20	0.5
tert-Butyl benzene	ND<10	20	0.5	Carbon Disulfide	ND<10	20	0.5
Carbon Tetrachloride	ND<10	20	0.5	Chlorobenzene	ND<10	20	0.5
Chloroethane	ND<10	20	0.5	2-Chloroethyl Vinyl Ether	ND<20	20	1.0
Chloroform	ND<10	20	0.5	Chloromethane	ND<10	20	0.5
2-Chlorotoluene	ND<10	20	0.5	4-Chlorotoluene	ND<10	20	0.5
Dibromochloromethane	ND<10	20	0.5	1,2-Dibromo-3-chloropropane	ND<10	20	0.5
1,2-Dibromoethane (EDB)	ND<10	20	0.5	Dibromomethane	ND<10	20	0.5
1,2-Dichlorobenzene	ND<10	20	0.5	1,3-Dichlorobenzene	ND<10	20	0.5
1,4-Dichlorobenzene	ND<10	20	0.5	Dichlorodifluoromethane	ND<10	20	0.5
1,1-Dichloroethane	ND<10	20	0.5	1,2-Dichloroethane (1,2-DCA)	ND<10	20	0.5
1,1-Dichloroethene	ND<10	20	0.5	cis-1,2-Dichloroethene	ND<10	20	0.5
trans-1,2-Dichloroethene	ND<10	20	0.5	1,2-Dichloropropane	ND<10	20	0.5
1,3-Dichloropropane	ND<10	20	0.5	2,2-Dichloropropane	ND<10	20	0.5
1,1-Dichloropropene	ND<10	20	0.5	cis-1,3-Dichloropropene	ND<10	20	0.5
trans-1,3-Dichloropropene	ND<10	20	0.5	Diisopropyl ether (DIPE)	ND<10	20	0.5
Ethylbenzene	ND<10	20	0.5	Ethyl tert-butyl ether (ETBE)	ND<10	20	0.5
Freon 113	ND<200	20	10	Hexachlorobutadiene	ND<10	20	0.5
Hexachloroethane	ND<10	20	0.5	2-Hexanone	ND<10	20	0.5
Isopropylbenzene	ND<10	20	0.5	4-Isopropyl toluene	ND<10	20	0.5
Methyl-t-butyl ether (MTBE)	860	20	0.5	Methylene chloride	ND<10	20	0.5
4-Methyl-2-pentanone (MIBK)	ND<10	20	0.5	Naphthalene	ND<10	20	0.5
Nitrobenzene	ND<200	20	10	n-Propyl benzene	ND<10	20	0.5
Styrene	ND<10	20	0.5	1,1,1,2-Tetrachloroethane	ND<10	20	0.5
1,1,2,2-Tetrachloroethane	ND<10	20	0.5	Tetrachloroethene	ND<10	20	0.5
Toluene	ND<10	20	0.5	1,2,3-Trichlorobenzene	ND<10	20	0.5
1,2,4-Trichlorobenzene	ND<10	20	0.5	1,1,1-Trichloroethane	ND<10	20	0.5
1,1,2-Trichloroethane	ND<10	20	0.5	Trichloroethene	ND<10	20	0.5
Trichlorofluoromethane	ND<10	20	0.5	1,2,3-Trichloropropane	ND<10	20	0.5
1,2,4-Trimethylbenzene	ND<10	20	0.5	1,3,5-Trimethylbenzene	ND<10	20	0.5
Vinyl Chloride	ND<10	20	0.5	Xylenes	ND<10	20	0.5

Surrogate Recoveries (%)

%SS1:	103	%SS2:	94.8
%SS3:	92.0		

Comments:

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

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

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

DF = Dilution Factor

DHS Certification No. 1644

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P & D Environmental	Client Project ID: #0055; Former Haber Oil	Date Sampled: 08/31/04
4020 Panama Court		Date Received: 09/01/04
	Client Contact: Wilhelm Welzenbach	Date Extracted: 09/02/04
Oakland, CA 94611-4931	Client P.O.:	Date Analyzed: 09/02/04

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0409016

Lab ID	0409016-004B
Client ID	MW-4
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<500	100	5.0	Acrolein (Propenal)	ND<500	100	5.0
Acrylonitrile	ND<200	100	2.0	tert-Amyl methyl ether (TAME)	ND<50	100	0.5
Benzene	ND<50	100	0.5	Bromobenzene	ND<50	100	0.5
Bromochloromethane	ND<50	100	0.5	Bromodichloromethane	ND<50	100	0.5
Bromoform	ND<50	100	0.5	Bromomethane	ND<50	100	0.5
2-Butanone (MEK)	ND<200	100	2.0	t-Butyl alcohol (TBA)	ND<500	100	5.0
n-Butyl benzene	ND<50	100	0.5	sec-Butyl benzene	ND<50	100	0.5
tert-Butyl benzene	ND<50	100	0.5	Carbon Disulfide	ND<50	100	0.5
Carbon Tetrachloride	ND<50	100	0.5	Chlorobenzene	ND<50	100	0.5
Chloroethane	ND<50	100	0.5	2-Chloroethyl Vinyl Ether	ND<100	100	1.0
Chloroform	ND<50	100	0.5	Chloromethane	ND<50	100	0.5
2-Chlorotoluene	ND<50	100	0.5	4-Chlorotoluene	ND<50	100	0.5
Dibromochloromethane	ND<50	100	0.5	1,2-Dibromo-3-chloropropane	ND<50	100	0.5
1,2-Dibromoethane (EDB)	ND<50	100	0.5	Dibromomethane	ND<50	100	0.5
1,2-Dichlorobenzene	ND<50	100	0.5	1,3-Dichlorobenzene	ND<50	100	0.5
1,4-Dichlorobenzene	ND<50	100	0.5	Dichlorodifluoromethane	ND<50	100	0.5
1,1-Dichloroethane	ND<50	100	0.5	1,2-Dichloroethane (1,2-DCA)	ND<50	100	0.5
1,1-Dichloroethene	ND<50	100	0.5	cis-1,2-Dichloroethene	ND<50	100	0.5
trans-1,2-Dichloroethene	ND<50	100	0.5	1,2-Dichloropropane	ND<50	100	0.5
1,3-Dichloropropane	ND<50	100	0.5	2,2-Dichloropropane	ND<50	100	0.5
1,1-Dichloropropene	ND<50	100	0.5	cis-1,3-Dichloropropene	ND<50	100	0.5
trans-1,3-Dichloropropene	ND<50	100	0.5	Diisopropyl ether (DIPE)	ND<50	100	0.5
Ethylbenzene	ND<50	100	0.5	Ethyl tert-butyl ether (ETBE)	ND<50	100	0.5
Freon 113	ND<1000	100	10	Hexachlorobutadiene	ND<50	100	0.5
Hexachloroethane	ND<50	100	0.5	2-Hexanone	ND<50	100	0.5
Isopropylbenzene	ND<50	100	0.5	4-Isopropyl toluene	ND<50	100	0.5
Methyl-t-butyl ether (MTBE)	3900	100	0.5	Methylene chloride	ND<50	100	0.5
4-Methyl-2-pentanone (MIBK)	ND<50	100	0.5	Naphthalene	ND<50	100	0.5
Nitrobenzene	ND<1000	100	10	n-Propyl benzene	ND<50	100	0.5
Styrene	ND<50	100	0.5	1,1,1,2-Tetrachloroethane	ND<50	100	0.5
1,1,2,2-Tetrachloroethane	ND<50	100	0.5	Tetrachloroethene	ND<50	100	0.5
Toluene	ND<50	100	0.5	1,2,3-Trichlorobenzene	ND<50	100	0.5
1,2,4-Trichlorobenzene	ND<50	100	0.5	1,1,1-Trichloroethane	ND<50	100	0.5
1,1,2-Trichloroethane	ND<50	100	0.5	Trichloroethene	ND<50	100	0.5
Trichlorofluoromethane	ND<50	100	0.5	1,2,3-Trichloropropane	ND<50	100	0.5
1,2,4-Trimethylbenzene	ND<50	100	0.5	1,3,5-Trimethylbenzene	ND<50	100	0.5
Vinyl Chloride	ND<50	100	0.5	Xylenes	ND<50	100	0.5

Surrogate Recoveries (%)

%SS1:	107	%SS2:	95.8
%SS3:	101		

Comments:

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

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

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

DF = Dilution Factor

DHS Certification No. 1644

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Website: www.mccampbell.com E-mail: main@mccampbell.com

P & D Environmental	Client Project ID: #0055; Former Haber Oil	Date Sampled: 08/31/04
4020 Panama Court		Date Received: 09/01/04
	Client Contact: Wilhelm Welzenbach	Date Extracted: 09/02/04
Oakland, CA 94611-4931	Client P.O.:	Date Analyzed: 09/02/04

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0409016

Lab ID	0409016-005B
Client ID	MW-5
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	2.5	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	109	%SS2:	95.0
%SS3:	98.6		

Comments:

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

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

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

DF = Dilution Factor

DHS Certification No. 1644

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P & D Environmental	Client Project ID: #0055; Former Haber Oil	Date Sampled: 08/31/04
4020 Panama Court		Date Received: 09/01/04
	Client Contact: Wilhelm Welzenbach	Date Extracted: 09/02/04
Oakland, CA 94611-4931	Client P.O.:	Date Analyzed: 09/02/04

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0409016

Lab ID	0409016-006B
Client ID	MW-6
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	0.84	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	0.51	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	0.51	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	109	%SS2:	96.1
%SS3:	98.6		

Comments:

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

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

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

DF = Dilution Factor

DHS Certification No. 1644

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Website: www.mccampbell.com E-mail: main@mccampbell.com

P & D Environmental	Client Project ID: #0055; Former Haber Oil	Date Sampled: 08/31/04
		Date Received: 09/01/04
4020 Panama Court	Client Contact: Wilhelm Welzenbach	Date Extracted: 09/02/04
Oakland, CA 94611-4931	Client P.O.:	Date Analyzed: 09/02/04

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0409016

Lab ID	0409016-007B
Client ID	MW-7
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	0.73	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	105	%SS2:	94.9
%SS3:	92.4		

Comments:

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

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

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

DF = Dilution Factor

DHS Certification No. 1644

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P & D Environmental	Client Project ID: #0055; Former Haber Oil	Date Sampled: 08/31/04
		Date Received: 09/01/04
4020 Panama Court	Client Contact: Wilhelm Welzenbach	Date Extracted: 09/02/04
Oakland, CA 94611-4931	Client P.O.:	Date Analyzed: 09/02/04

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0409016

Lab ID	0409016-008B
Client ID	MW-8
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	1.3	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	110	%SS2:	94.3
%SS3:	100		

Comments:

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

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

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

DF = Dilution Factor

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W WorkOrder: 0409016

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 12952 Spiked Sample ID: 0409035-001A

	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex)[£]	ND	60	100	103	2.37	102	102	0	70	130
MTBE	ND	10	98.5	95.7	2.92	103	94.6	8.51	70	130
Benzene	ND	10	113	111	1.51	120	110	8.56	70	130
Toluene	ND	10	107	105	2.07	110	104	5.86	70	130
Ethylbenzene	ND	10	107	107	0	111	105	5.07	70	130
Xylenes	ND	30	94.7	91	3.95	96	91	5.35	70	130
%SS:	100	10	111	109	1.94	115	110	4.55	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

DHS Certification No. 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W WorkOrder: 0409016

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 12938 Spiked Sample ID: 0408437-008A

	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex)£	ND	60	99.2	98.5	0.693	98.6	97.8	0.885	70	130
MTBE	ND	10	106	111	5.18	109	105	4.31	70	130
Benzene	ND	10	103	104	0.731	105	103	1.62	70	130
Toluene	ND	10	97	95.7	1.39	99.4	95.8	3.71	70	130
Ethylbenzene	ND	10	100	101	1.00	103	98.9	3.72	70	130
Xylenes	ND	30	86.3	90	4.16	90	86	4.55	70	130
%SS:	100	10	104	104	0	104	106	2.35	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

DHS Certification No. 1644

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QC SUMMARY REPORT FOR SW8260B

Matrix: W WorkOrder: 0409016

EPA Method: SW8260B	Extraction: SW5030B			BatchID: 12939			Spiked Sample ID: 0409001-001B			
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
tert-Amyl methyl ether (TAME)	ND	10	81	84.5	4.31	83.8	82.6	1.42	70	130
Benzene	ND	10	99.2	104	4.33	99.9	101	0.612	70	130
t-Butyl alcohol (TBA)	6.69	50	73.2	73.8	0.671	88.3	86.6	1.90	70	130
Chlorobenzene	ND	10	88.7	89.9	1.38	89.4	89.6	0.298	70	130
1,2-Dibromoethane (EDB)	ND	10	103	98.1	4.87	99.8	99.1	0.671	70	130
1,2-Dichloroethane (1,2-DCA)	ND	10	94.3	95.5	1.25	90.9	91.2	0.366	70	130
1,1-Dichloroethene	ND	10	95.1	97.9	2.98	96.9	96.3	0.677	70	130
Diisopropyl ether (DIPE)	2.40	10	85.4	88.8	3.11	107	106	0.908	70	130
Ethyl tert-butyl ether (ETBE)	ND	10	91.1	93.5	2.61	91.9	91	0.963	70	130
Methyl-t-butyl ether (MTBE)	ND	10	92.6	94.9	2.40	92.7	91.4	1.37	70	130
Toluene	ND	10	88.4	88	0.429	88.1	88.1	0	70	130
Trichloroethene	ND	10	95.2	98.8	3.63	95.7	94.9	0.866	70	130
%SS1:	106.6	10	102	104	1.40	95.9	94.4	1.63	70	130
%SS2:	91.8	10	94.8	91.7	3.33	92.6	93.4	0.920	70	130
%SS3:	100	10	98.7	97.7	1.03	95.6	95.3	0.328	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

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

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

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

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

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

DHS Certification No. 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8260B

Matrix: W WorkOrder: 0409016

EPA Method: SW8260B	Extraction: SW5030B	BatchID: 12953	Spiked Sample ID: 0409019-001A

	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
tert-Amyl methyl ether (TAME)	ND	10	77.3	82.3	6.28	77.8	78.7	1.15	70	130
Benzene	ND	10	116	114	1.66	114	115	1.07	70	130
t-Butyl alcohol (TBA)	ND	50	78.9	78.5	0.536	81.2	82.3	1.31	70	130
Chlorobenzene	ND	10	108	106	2.12	105	107	2.21	70	130
1,2-Dibromoethane (EDB)	ND	10	109	108	0.434	108	110	1.88	70	130
1,2-Dichloroethane (1,2-DCA)	ND	10	103	103	0	102	104	1.88	70	130
1,1-Dichloroethene	ND	10	116	113	3.21	116	119	2.16	70	130
Diisopropyl ether (DIPE)	ND	10	109	110	0.282	110	112	1.95	70	130
Ethyl tert-butyl ether (ETBE)	ND	10	98.2	99.4	1.24	98.8	99.9	1.10	70	130
Methyl-t-butyl ether (MTBE)	ND	10	94.3	94.9	0.636	95.4	95.2	0.199	70	130
Toluene	ND	10	108	106	1.93	105	108	2.67	70	130
Trichloroethene	ND	10	100	98	1.94	96.9	98.6	1.75	70	130
%SS1:	110	10	108	108	0	105	105	0	70	130
%SS2:	101	10	95	95	0	96.3	97	0.798	70	130
%SS3:	105	10	98	97	0.822	98.3	98.5	0.196	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

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

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

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

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

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

DHS Certification No. 1644

QA/QC Officer

P & D ENVIRONMENTAL
A Division of Paul H. King, Inc.
4020 Panama Court
Oakland, CA 94611
(510) 658-6916

PQ#0 - 04090116

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NUMBER:	PROJECT NAME:
0055	Former Haber Oil

SAMPLED BY: (PRINTED AND SIGNATURE)
Wilhelm Welzenbach Wilhelm Welzenbach

	SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): TPH(g)	8260 + Fuel Oxys and Lead Scavengers				PRESERVATIVE	REMARKS
(†)	MW1	8/31/04		water		5	X	X				ICE	Normal Turnaround
(†)	MW2						X	X					
(†)	MW3						X	X					
(†)	MW4						X	X					
(†)	MW5						X	X					
†	MW6						X	X					
†	MW7						X	X					
†	MW8						X	X					

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)
Wilhelm Welzenbach	9/1/04	1303	
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)
	9/1/04	1415	
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)

TOTAL NO. OF SAMPLES (THIS SHIPMENT): 8
TOTAL NO. OF CONTAINERS (THIS SHIPMENT): 40

LABORATORY: McCampbell Analytical
LABORATORY CONTACT: Angela Rydelius
LABORATORY PHONE NUMBER: (925) 798-1620

SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( )YES (X)NO

REMARKS: VOAs preserved w HCl

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0409016 **ClientID: PDEO**

Report to:
Wilhelm Welzenbach
P & D Environmental
4020 Panama Court
Oakland, CA 94611-4931
TEL: (510) 658-6916
FAX: 510-834-0152
ProjectNo: #0055; Former Haber Oil
PO:

Bill to:
Accounts Payable
P & D Environmental
4020 Panama Court
Oakland, CA 94611-4931

Requested TAT: 5 days
Date Received: 9/1/04
Date Printed: 9/1/04

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0409016-001	MW-1	Water	8/31/04	☐	B	A													
0409016-002	MW-2	Water	8/31/04	☐	B	A													
0409016-003	MW-3	Water	8/31/04	☐	B	A													
0409016-004	MW-4	Water	8/31/04	☐	B	A													
0409016-005	MW-5	Water	8/31/04	☐	B	A													
0409016-006	MW-6	Water	8/31/04	☐	B	A													
0409016-007	MW-7	Water	8/31/04	☐	B	A													
0409016-008	MW-8	Water	8/31/04	☐	B	A													

Test Legend:

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

Prepared by: Rosa Venegas

Comments:

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