R0370

**P & D ENVIRONMENTAL**
**A Division of Paul H. King, Inc.**
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September 9, 2004
Report 0055.R20

Mr. Manmohan Chopra
29211 Marshbrook Drive
Hayward, CA 94545



SUBJECT: 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 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 June 3, 2004. A Site Location Map (Figure 1) and Site Plan (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 June 3, 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. 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

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.

HYDROGEOLOGY

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. Groundwater has historically been encountered at the site at depths ranging from approximately 40 to 45 feet below grade.

The measured depth to water at or near the site on June 3, 2004 for all of the wells ranged from 38.01 to 41.35 feet. Since the previous monitoring on February 20, 2004, groundwater elevations have increased in all of the wells ranging between 1.03 feet and 1.26 feet. The groundwater flow direction on June 3, 2004 was to the northwest with a gradient of 0.049.

The groundwater flow direction and gradient has remained relatively unchanged since the previous water level measurements on February 20, 2004. The groundwater monitoring data are presented in Table 1. The groundwater flow direction at the site on June 3, 2004 is shown on Figure 2.

LABORATORY RESULTS

All of the groundwater samples collected from the monitoring wells were analyzed for TPH-G using EPA Method 5030 in conjunction with Modified EPA Method 8015 and for Volatile Organic Compounds (VOCs) using EPA Method 8260, in accordance with a request from Ms. Eva Chu of the ACDEH.

The laboratory analytical results for the groundwater samples show that in wells MW5, MW6, MW7 and MW8 TPH-G, MTBE and BTEX were not detected with the exception of well MW5, where MTBE was detected at a concentration of 0.0072 mg/L. TPH-G was detected in well MW2 at a concentration of 50 mg/L, and in wells MW1, MW3 and MW4 at concentrations of 0.059, 0.00 and 0.32 mg/L, respectively. MTBE was detected in wells MW2, MW3 and MW4 at concentrations of 3.9, 1.4 and 6.2 mg/L, respectively and in well MW1 at a concentration of 0.13 mg/L. Benzene was not detected in any of the wells except for MW2 at a concentration of 5.4 mg/L. With the exception of MTBE, no other fuel oxygenates or lead scavengers were detected in any of the wells. Petroleum-related VOCs were detected using EPA Method 8260 in well MW2, and non-petroleum-related VOCS were detected using EPA Method 8260 in wells MW7 and MW8.

Since the previous sampling event, TPH-G concentrations have decreased in well MW1 and MW2, increased in well MW3 and MW4; and remained unchanged (not detected) in wells MW5 through MW8. MTBE concentrations have decreased in wells MW1 and MW4, and increased in wells MW2, MW3, and MW5, and remained unchanged in the other wells. Benzene concentrations have decreased in wells MW1 and MW2, and have remained not detected in the remaining 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 June 3, 2004 from all of the monitoring wells (MW1 through MW8), the groundwater flow direction at the subject site is to the northwest, and is relatively unchanged since the previous monitoring event. Since the previous sampling event, TPH-G concentrations have decreased in well MW1 and MW2, increased in well MW3 and MW4; and remained unchanged (not detected) in wells MW5 through MW8. MTBE concentrations have decreased in wells MW1 and MW4, and increased in wells MW2, MW3, and MW5, and remained unchanged in the other wells. Benzene concentrations have decreased in wells MW1 and MW2, and have remained not detected in the remaining wells.

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 judgment 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

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

June 14, 2004
Report 0055.R20



TABLE 1
WELL MONITORING DATA
MW1

| Well No. | Date Monitored | Top of Casing Elev. (ft.) | Depth to Water (ft.) | Water Table Elev. (ft.) |
|---|---|---|---|---|
| MW1 | 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
MW2

| Well No. | Date Monitored | Top of Casing Elev. (ft.) | Depth to Water (ft.) | Water Table Elev. (ft.) |
|---|---|---|---|---|
| MW2 | 6/03/04 | 86.61+ | 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.
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++ = Indicates survey data provided by Aegis Environmental

TABLE 1 (Continued)
WELL MONITORING DATA
MW3

| Well No. | Date Monitored | Top of Casing Elev. (ft.) | Depth to Water (ft.) | Water Table Elev. (ft.) |
|---|---|---|---|---|
| MW3 | 6/03/04 | 87.48+ | 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:
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++ = Indicates survey data provided by Aegis Environmental

TABLE 1 (Continued)
WELL MONITORING DATA
MW4

| Well No. | Date Monitored | Top of Casing Elev. (ft.) | Depth to Water (ft.) | Water Table Elev. (ft.) |
|---|---|---|---|---|
| MW4 | 6/03/04 | 86.21+ | 38.01 | 48.20 |
| | 2/20/04 | | 36.98 | 49.23 |
| | 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.
** = Indicates depth to water measurements prior to groundwater monitoring well development.

TABLE 1 (Continued)
WELL MONITORING DATA
MW5

| Well No. | Date Monitored | Top of Casing Elev. (ft.) | Depth to Water (ft.) | Water Table Elev. (ft.) |
|---|---|---|---|---|
| MW5 | 6/03/04 | 89.10+ | 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:
Elevations are in feet Mean Sea Level.
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++ = 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
MW6

| Well No. | Date Monitored | Top of Casing Elev. (ft.) | Depth to Water (ft.) | Water Table Elev. (ft.) |
|---|---|---|---|---|
| MW6 | 6/03/04 | 84.02+ | 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
MW7

| Well No. | Date Monitored | Top of Casing Elev. (ft.) | Depth to Water (ft.) | Water Table Elev. (ft.) |
|---|---|---|---|---|
| MW7 | 6/03/04 | 87.11+ | 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 |

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
MW8

| Well No. | Date Monitored | Top of Casing Elev. (ft.) | Depth to Water (ft.) | Water Table Elev. (ft.) |
|---|---|---|---|---|
| MW8 | 6/03/04 | 89.70+ | 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.
ft. = Feet.
+ = Indicates survey data provided by Kier & Wright dated June 26, 1995.
** = Indicates depth to water measurements prior to groundwater monitoring well development.

TABLE 2
GROUNDWATER
LABORATORY ANALYTICAL RESULTS
MW1

| Date | TPH-G | MTBE | Benzene | Toluene | Ethyl-benzene | Total Xylenes | Other VOCs by EPA 8260 |
|---|---|---|---|---|---|---|---|
| 06/03/04 | 0.059 | 0.13 | ND<0.002.5 | ND<0.002.5 | ND<0.002.5 | ND<0.002.5 | ND |
| 02/20/04 | 0.220 | 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 |
|---|---|---|---|---|---|---|---|
| 06/03/04 | 50 | 3.9 | 5.4 | 4.2 | 2.2 | 8.8 | ND, except<br>Napthalene = 0.36<br>n-Propyl benzene = 0.14<br>1,2,4-Trimethylbenzene = 1.3<br>1,3,5-Trimethylbenzene = 0.3 |
| 02/20/04 | 61 | 2.7 | 5.9 | 3.5 | 2.4 | 10 | ND, except<br>tert-Butyl benzene = 150<br>Napthalene = 0.23<br>n-Propyl benzene = 0.15<br>1,2,4-Trimethylbenzene = 1.3<br>1,3,5-Trimethylbenzene = 0.33 |
| 11/25/03 | 65 | 2.7 | 6.8 | 8.8 | 2.9 | 16 | ND, except<br>Naphtalene = 0.54<br>1,2,4-Trimethylbenzene = 1.8<br>1,3,5-Trimethylbenzene = 0.42 |
| 07/15/03 | 78 | 4.1 | 3.3 | 4.4 | 1.8 | 9.3 | ND, except<br>Naphthalene = 0.29<br>1,2,4-Trimethylbenzene = 1.3<br>1,3,5-Trimethylbenzene = 0.32<br>n-Propyl benzene = 0.15 |
| 04/17/03 | 57 | 5.6 | 3.4 | 5.1 | 2.8 | 10 | ND, except<br>Naphthanlene = 0.43<br>1,2,4-Trimethylbenzene = 2.2<br>n-proylbenzene = 0.26<br>1,3,5-Trimethylbenzene = 0.55 |
| 01/20/03 | 48 | 3.8 | 2.9 | 3.0 | 2.0 | 11 | ND, except<br>Naphthanlene = 0.35<br>1,2,4-Trimethylbenzene = 1.4<br>1,3,5-Trimethylbenzene = 0.32<br>Isopropylbenzene = 0.069<br>n-Propyl benzene = 0.16 |

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 |
|---|---|---|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|---|
| 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 | 0.730 | 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 | -- |

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.
a = Laboratory Report note: no recognizable pattern
Results are reported in milligrams per Liter (mg/L), unless otherwise specified.

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

| Date | TPH-G | MTBE | Benzene | Toluene | Ethyl-benzene | Total Xylenes | Other VOCs by EPA 8260 |
|---|---|---|---|---|---|---|---|
| 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.

TABLE 2 (Continued)
GROUNDWATER
LABORATORY ANALYTICAL RESULTS
MW4

| Date | TPH-G | MTBE | Benzene | Toluene | Ethyl-benzene | Total Xylenes | Other VOCs by EPA 8260 |
|---|---|---|---|---|---|---|---|
| 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,b | 6.6 | ND<0.1 | ND<0.1 | ND<0.1 | ND<0.1 | ND |
| 11/25/03 | ND<1.0,b | 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 | -- |

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 = Laboratory Report Note: reporting limit raised due to high MTBE content.

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

| Date | TPH-G | MTBE | Benzene | Toluene | Ethyl-benzene | Total Xylenes | Other VOCs by EPA 8260 |
|---|---|---|---|---|---|---|---|
| 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.

TABLE 2 (Continued)
GROUNDWATER
LABORATORY ANALYTICAL RESULTS
MW5

| Date | TPH-G | MTBE | Benzene | Toluene | Ethyl-benzene | Total Xylenes | Other VOCs by EPA 8260 |
|---|---|---|---|---|---|---|---|
| 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<0.001 | ND<0.001 | ND<0.001 | ND<0.001 | ND<0.001 | ND |
| 11/25/03 | ND | 0.00084 | ND | ND | ND | ND | 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 |
|---|---|---|---|---|---|---|---|
| 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 | ND<0.001 | ND<0.001 | ND<0.001 | ND<0.001 | ND<0.001 | ND<0.001 |
| 11/25/03 | ND | 0.00084 | ND<0.001 | ND<0.001 | ND<0.001 | ND<0.001 | ND |
| 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.

TABLE 2 (Continued)
GROUNDWATER
LABORATORY ANALYTICAL RESULTS
MW7

| Date | TPH-G | MTBE | Benzene | Toluene | Ethyl-benzene | Total Xylenes | Other VOCs by EPA 8260 |
|---|---|---|---|---|---|---|---|
| 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<0.001 | ND<0.001 | ND<0.001 | ND<0.001 | ND<0.001 | 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 | -- |

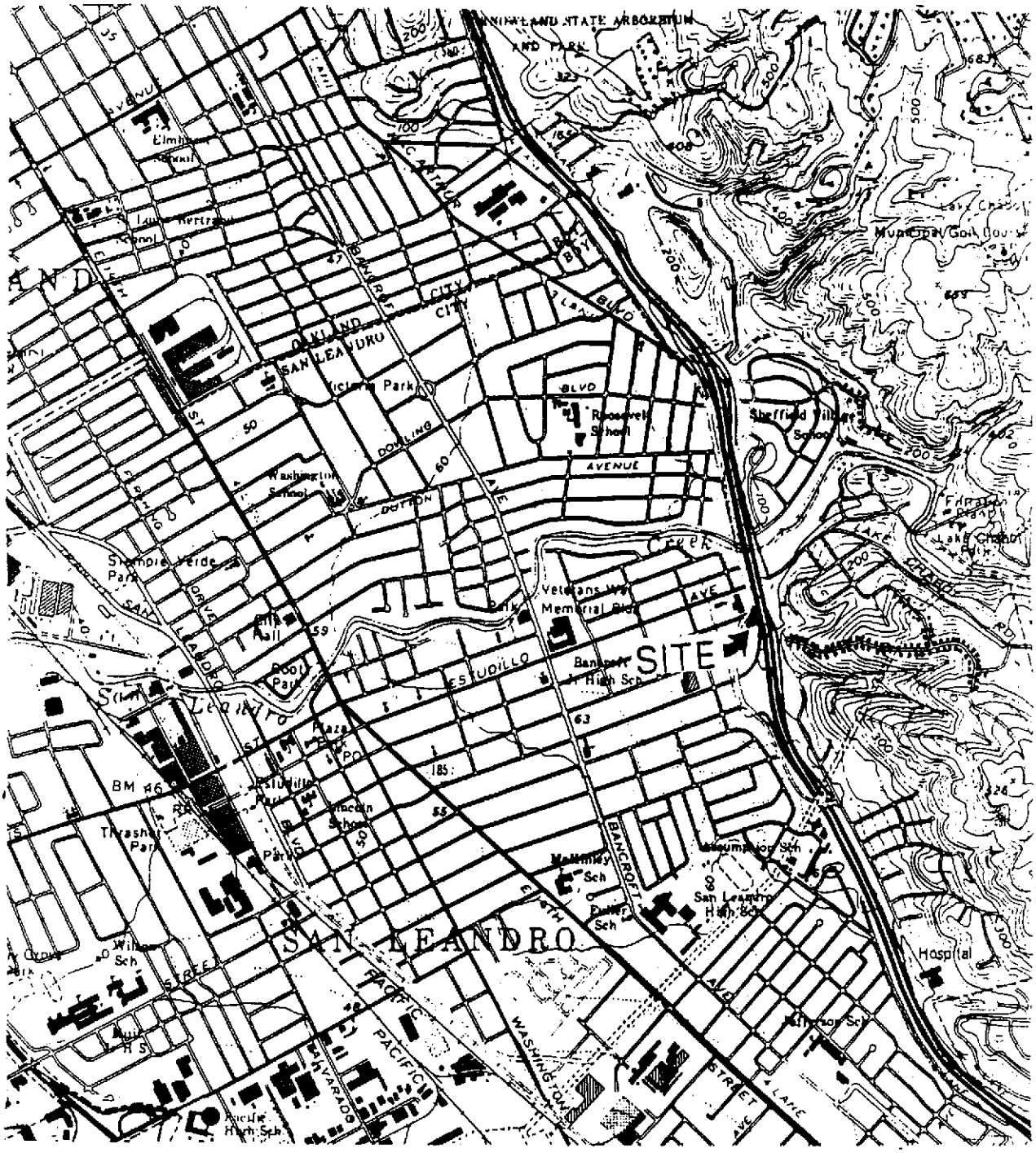
NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
MTBE = Methyl Tert Butyl Ether.
VOCs = Volatile Organic Compounds
ND = Not Detected.
-- = Sample not analyzed for this compound during this sampling event.
Results are reported in milligrams per Liter (mg/L), unless otherwise specified.

TABLE 2 (Continued)
GROUNDWATER
LABORATORY ANALYTICAL RESULTS
MW8

| Date | TPH-G | MTBE | Benzene | Toluene | Ethyl-benzene | Total Xylenes | Other VOCs by EPA 8260 |
|---|---|---|---|---|---|---|---|
| 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<0.001 | ND<0.001 | ND<0.001 | ND<0.001 | ND<0.001 | 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.

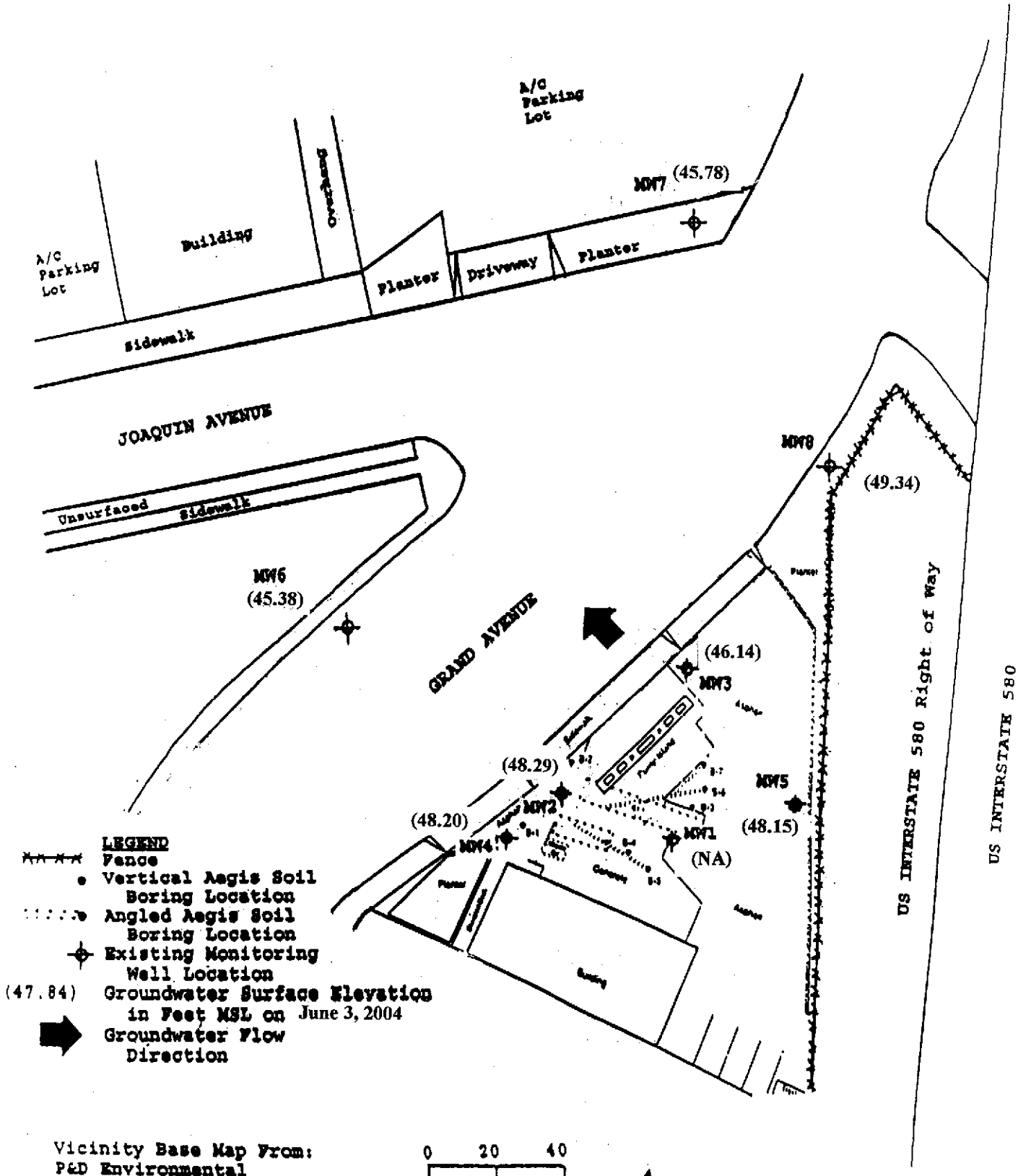
**P & D ENVIRONMENTAL**
A Division of Paul H. King, Inc.
4020 Panama Court
Oakland, CA 94611
(510) 658-6916




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

0 20 40
Scale in Feet

N

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 ~~0055~~ Former Haber Oil
Job No. 0055
TOC to Water (ft.) 39.59
Well Depth (ft.) 52.7
Well Diameter 4in
Gal./Casing Vol. 8.5 ε=29.5

Well No. MW1
Date 6/2/04
Sheen None
Free Product Thickness Ø
Sample Collection Method Teflon bailer

| TIME | GAL. PURGED | pH @ | TEMPERATURE (oF) | ELECTRICAL CONDUCTIVITY (µS/cm x 100) |
|---|---|---|---|---|
| 1:51 | 3 | 5.41 | 69.9 | 7.22 |
| 1:55 | 8 | 5.48 | 69.6 | 7.20 |
| 1:59 | 13 | 5.47 | 69.5 | 7.07 |
| 2:01 | 16 | 5.54 | 69.7 | 7.17 |
| 2:06 | 22 | 5.50 | 69.6 | 7.05 |
| 2:10 | 26 | 5.53 | 69.6 | 6.92 |
| 2:15 | Sampling | time. | | |

NOTES: NO PH C odor or sheen on purge water. Brown scum on water surface ~~of~~ & in well.

PURGE10.92

Former Haber Oil

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name ~~0055 MW2~~

Job No. 0055

TOC to Water (ft.) 38.32

Well Depth (ft.) 52.4

Well Diameter 4in

Gal./Casing Vol. 9.1
ε=27.3

Well No. MW2

Date 6/2/04

Sheen None

Free Product Thickness Ø

Sample Collection Method
Teflon bailer

| TIME | GAL. PURGED | pH | TEMPERATURE (oF) | ELECTRICAL CONDUCTIVITY (µS/cm)x(10³) |
|---|---|---|---|---|
| 4:41 | 5 | 5.79 | 68.6 | 1.28(?) |
| 4:46 | 10 | 5.81 | 68.6 | 1.67(?) |
| 4:51 | 15 | 5.94 | 68.6 | 7.75 |
| 4:57 | 20 | 5.99 | 68.6 | 7.59 |
| 5:02 | 24 | 6.03 | 68.6 | 7.18 |
| 5:05 | 28 | 6.05 | 68.3 | 7.11 |
| 5:10 | Sampling time. | | | |

NOTES: PHC odor but no sheen on purge water

PURGE10.92

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name ~~0055~~ Former Baker Oil
Well No. MW3
Job No. 0055
Date 6/2/04
TOC to Water (ft.) 41.34
Sheen None
Well Depth (ft.) 55.3
Free Product Thickness Ø
Well Diameter 4 in
Sample Collection Method Teflon bailer
Gal./Casing Vol. 9.0
Σ=27.0

| TIME | GAL. PURGED | pH | TEMPERATURE (°F) | ELECTRICAL CONDUCTIVITY (µS/cm)(x100) |
|---|---|---|---|---|
| 2:41 | 3 | 5.46 | 68.4 | 6.76 |
| 2:49 | 8 | 5.51 | 69.5 | 6.61 |
| 2:57 | 12 | 5.54 | 69.6 | 6.68 |
| 3:01 | 17 | 5.58 | 68.4 | 6.53 |
| 3:07 | 22 | 5.47 | 68.6 | 6.42 |
| 3:13 | 27 | 5.48 | 69.6 | 6.35 |
| 3:20 | Sampling time. | | | |

NOTES: Slight PHC odor, but no sheen on purge water.

PURGE10.92

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name ~~0055~~ Former Hobbs Oil
Job No. 0055
TOC to Water (ft.) ~~36.91~~ 38.01
Well Depth (ft.) 53.3
Well Diameter 4in
Gal./Casing Vol. 9.9
Σ = 29.7

Well No. MW4
Date 6/2/04
Sheen None
Free Product Thickness 0
Sample Collection Method
Teflon bailer

| TIME | GAL. PURGED | pH | TEMPERATURE (°F) | ELECTRICAL CONDUCTIVITY (µS/cm)*100 |
|---|---|---|---|---|
| 3:53 | 5 | 5.61 | 60.9 | 8.42 |
| 3:56 | 10 | 6.20 | 69.6 | 8.40 |
| 4:00 | 15 | 6.14 | 68.8 | 8.46 |
| 4:04 | 20 | 6.04 | 68.7 | 8.46 |
| 4:07 | 25 | 6.10 | 67.8 | 8.28 |
| 4:12 | 30 | 5.98 | 69.0 | 8.59 |
| 4:20 | Sampling time | | | |

NOTES: No PHC odor or sheen on purge water

PURGE10.92

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name ~~0055~~ Former Haber 011
Job No. 0055
TOC to Water (ft.) 40.95
Well Depth (ft.) 54.7
Well Diameter 4in.
Gal./Casing Vol. 3.1 ε=9.3

Well No. MW5
Date 6/2/09
Sheen None
Free Product Thickness Ø
Sample Collection Method Teflon bailer

| TIME | GAL. PURGED | pH | TEMPERATURE (°F) | ELECTRICAL CONDUCTIVITY (µS x (m) x (oo)) |
|---|---|---|---|---|
| 1:07 | 1 | 5.54 | 67.2 | 7.59 |
| 1:09 | 3 | 5.58 | 67.0 | 7.45 |
| 1:11 | 5 | 5.57 | 66.7 | 7.36 |
| | ~~7~~ | | | |
| 1:13 | 8 | 5.57 | 67.1 | 7.40 |
| 1:14 | 9.5 | 5.58 | 66.7 | 7.33 |
| 1:20 | Sampling | time. | | |

NOTES: No PHC odor or Sheen on purge water.

PURGE10.92

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name ~~0055~~ Former Hahn Oil
Job No. 0055
TOC to Water (ft.) 38.64
Well Depth (ft.) 49.1
Well Diameter 2 in.
Gal./Casing Vol. 1.7 Σ=5.1

Well No. MW6
Date 6/2/04
Sheen None
Free Product Thickness Ø
Sample Collection Method Teflon bailer

| TIME | GAL. PURGED | pH | TEMPERATURE (of) | ELECTRICAL CONDUCTIVITY (µS/cm *100) |
|---|---|---|---|---|
| 11:53 | 0.5 | 5.23 | 68.4 | 6.53 |
| 11:54 | 1.0 | 5.28 | 68.0 | 6.73 |
| 11:54 | 2.0 | 5.28 | 68.1 | 6.75 |
| 11:55 | 3.0 | 5.30 | 67.5 | 6.69 |
| 11:55 | 4.0 | 5.29 | 67.6 | 6.79 |
| 11:56 | 5.2 | 5.31 | 67.4 | 6.75 |
| 12:00 | Sampling | time | | |

NOTES: No PH C. odor or sheen on purge water. Water in Christie box above T.O.C.

PURGE10.92

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name ~~0055~~ Former Hake-Oil
Well No. MW7
Job No. 0055
Date 6/2/04
TOC to Water (ft.) 41.33
Sheen None
Well Depth (ft.) 49.8
Free Product Thickness Ø
Well Diameter 2in.
Sample Collection Method
Gal./Casing Vol. 1.4
3 = 4.2
Teflon bailer

| TIME | GAL. PURGED | pH | TEMPERATURE (°F) | ELECTRICAL CONDUCTIVITY (µS/cm *100) |
|---|---|---|---|---|
| 11:15 | 0.5 | 5.28 | 69.6 | 6.46 |
| 11:15 | 1.0 | 5.23 | 68.4 | 6.32 |
| 11:16 | 1.5 | 5.22 | 68.1 | 6.11 |
| 11:16 | 2.0 | 5.20 | 68.1 | 6.22 |
| 11:17 | 3.0 | 5.24 | 67.6 | 6.17 |
| 11:17 | 4.3 | 5.25 | 67.4 | 6.10 |
| 11:25 | Sampling | time | | |

NOTES: No PHC odor or sheen on purge water.

PURGE10.92

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING DATA SHEET

Site Name ~~0055~~ former Haker 01

Job No. 0055

TOC to Water (ft.) 40.36

Well Depth (ft.) 48.0

Well Diameter 2 in.

Gal./Casing Vol. 1.2
ε = 3.6

Well No. MW8

Date 6/3/04

Sheen None

Free Product Thickness Ø

Sample Collection Method
Teflon bailer

| TIME | GAL. PURGED | pH 5.31 | TEMPERATURE (°F) | ELECTRICAL CONDUCTIVITY (mS/cm) |
|---|---|---|---|---|
| 10:37 | 0.5 | ~~6.47~~ | 64.1 | 6.47 |
| 10:38 | 1.0 | 5.29 | 64.1 | 6.71 |
| 10:39 | 1.5 | 5.25 | 64.1 | 6.68 |
| | ~~2.0~~ | | ~~6~~ | |
| 10:39 | 3.0 | 5.24 | 64.1 | 6.54 |
| 10:40 | 4.0 | 5.22 | 64.2 | 6.60 |
| 10:45 | Sampling | ~~time~~ | | |

NOTES: No PH Color or sheen on purge water

PURGE10.92

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| | | |
|---|---|---|
| P & D Environmental<br>4020 Panama Court<br>Oakland, CA 94611-4931 | Client Project ID: #0055; Former Haber Oil | Date Sampled: 06/03/04 |
| | | Date Received: 06/04/04 |
| | Client Contact: Paul King | Date Extracted: 06/08/04-06/10/04 |
| | Client P.O.: | Date Analyzed: 06/08/04-06/10/04 |

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

Extraction method: SW5030B Analytical methods: SW8015Cm Work Order: 0406078

| Lab ID | Client ID | Matrix | TPH(g) | DF | % SS |
|---|---|---|---|---|---|
| 001A | MW1 | W | 59,a | 1 | 94.8 |
| 002A | MW2 | W | 50,000,a | 100 | 87.4 |
| 003A | MW3 | W | 110,m | 1 | 91.4 |
| 004A | MW4 | W | 320,a | 5 | 85.8 |
| 005A | MW5 | W | ND | 1 | 86.6 |
| 006A | MW6 | W | ND | 1 | 86.1 |
| 007A | MW7 | W | ND | 1 | 86.1 |
| 008A | MW8 | W | ND | 1 | 87.5 |
| | | | | | |
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| | | | | | |
| | | | | | |

| | | | |
|---|---|---|---|
| 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.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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| | | |
|---|---|---|
| P & D Environmental | Client Project ID: #0055; Former Haber Oil | Date Sampled: 06/03/04 |
| | | Date Received: 06/04/04 |
| 4020 Panama Court | Client Contact: Paul King | Date Extracted: 06/09/04 |
| Oakland, CA 94611-4931 | Client P.O.: | Date Analyzed: 06/09/04 |

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

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0406078

| | |
|---|---|
| Lab ID | 0406078-001B |
| Client ID | MW1 |
| Matrix | Water |

| Compound | Concentration * | DF | Reporting Limit | Compound | Concentration * | DF | Reporting Limit |
|---|---|---|---|---|---|---|---|
| Acetone | ND<25 | 5.0 | 5.0 | Acrolein (Propenal) | ND<25 | 5.0 | 5.0 |
| Acrylonitrile | ND<10 | 5.0 | 2.0 | tert-Amyl methyl ether (TAME) | ND<2.5 | 5.0 | 0.5 |
| Benzene | ND<2.5 | 5.0 | 0.5 | Bromobenzene | ND<2.5 | 5.0 | 0.5 |
| Bromochloromethane | ND<2.5 | 5.0 | 0.5 | Bromodichloromethane | ND<2.5 | 5.0 | 0.5 |
| Bromoform | ND<2.5 | 5.0 | 0.5 | Bromomethane | ND<2.5 | 5.0 | 0.5 |
| 2-Butanone (MEK) | ND<5.0 | 5.0 | 1.0 | t-Butyl alcohol (TBA) | ND<25 | 5.0 | 5.0 |
| n-Butyl benzene | ND<2.5 | 5.0 | 0.5 | sec-Butyl benzene | ND<2.5 | 5.0 | 0.5 |
| tert-Butyl benzene | ND<2.5 | 5.0 | 0.5 | Carbon Disulfide | ND<2.5 | 5.0 | 0.5 |
| Carbon Tetrachloride | ND<2.5 | 5.0 | 0.5 | Chlorobenzene | ND<2.5 | 5.0 | 0.5 |
| Chloroethane | ND<2.5 | 5.0 | 0.5 | 2-Chloroethyl Vinyl Ether | ND<5.0 | 5.0 | 1.0 |
| Chloroform | ND<2.5 | 5.0 | 0.5 | Chloromethane | ND<2.5 | 5.0 | 0.5 |
| 2-Chlorotoluene | ND<2.5 | 5.0 | 0.5 | 4-Chlorotoluene | ND<2.5 | 5.0 | 0.5 |
| Dibromochloromethane | ND<2.5 | 5.0 | 0.5 | 1,2-Dibromo-3-chloropropane | ND<2.5 | 5.0 | 0.5 |
| 1,2-Dibromoethane (EDB) | ND<2.5 | 5.0 | 0.5 | Dibromomethane | ND<2.5 | 5.0 | 0.5 |
| 1,2-Dichlorobenzene | ND<2.5 | 5.0 | 0.5 | 1,3-Dichlorobenzene | ND<2.5 | 5.0 | 0.5 |
| 1,4-Dichlorobenzene | ND<2.5 | 5.0 | 0.5 | Dichlorodifluoromethane | ND<2.5 | 5.0 | 0.5 |
| 1,1-Dichloroethane | ND<2.5 | 5.0 | 0.5 | 1,2-Dichloroethane (1,2-DCA) | ND<2.5 | 5.0 | 0.5 |
| 1,1-Dichloroethene | ND<2.5 | 5.0 | 0.5 | cis-1,2-Dichloroethene | ND<2.5 | 5.0 | 0.5 |
| trans-1,2-Dichloroethene | ND<2.5 | 5.0 | 0.5 | 1,2-Dichloropropane | ND<2.5 | 5.0 | 0.5 |
| 1,3-Dichloropropane | ND<2.5 | 5.0 | 0.5 | 2,2-Dichloropropane | ND<2.5 | 5.0 | 0.5 |
| 1,1-Dichloropropene | ND<2.5 | 5.0 | 0.5 | cis-1,3-Dichloropropene | ND<2.5 | 5.0 | 0.5 |
| trans-1,3-Dichloropropene | ND<2.5 | 5.0 | 0.5 | Diisopropyl ether (DIPE) | ND<2.5 | 5.0 | 0.5 |
| Ethylbenzene | ND<2.5 | 5.0 | 0.5 | Ethyl tert-butyl ether (ETBE) | ND<2.5 | 5.0 | 0.5 |
| Hexachlorobutadiene | ND<2.5 | 5.0 | 0.5 | Hexachloroethane | ND<2.5 | 5.0 | 0.5 |
| 2-Hexanone | ND<2.5 | 5.0 | 0.5 | Isopropylbenzene | ND<2.5 | 5.0 | 0.5 |
| 4-Isopropyl toluene | ND<2.5 | 5.0 | 0.5 | Methyl-t-butyl ether (MTBE) | 130 | 5.0 | 0.5 |
| Methylene chloride | ND<2.5 | 5.0 | 0.5 | 4-Methyl-2-pentanone (MIBK) | ND<2.5 | 5.0 | 0.5 |
| Naphthalene | ND<2.5 | 5.0 | 0.5 | Nitrobenzene | ND<50 | 5.0 | 10 |
| n-Propyl benzene | ND<2.5 | 5.0 | 0.5 | Styrene | ND<2.5 | 5.0 | 0.5 |
| 1,1,1,2-Tetrachloroethane | ND<2.5 | 5.0 | 0.5 | 1,1,2,2-Tetrachloroethane | ND<2.5 | 5.0 | 0.5 |
| Tetrachloroethene | ND<2.5 | 5.0 | 0.5 | Toluene | ND<2.5 | 5.0 | 0.5 |
| 1,2,3-Trichlorobenzene | ND<2.5 | 5.0 | 0.5 | 1,2,4-Trichlorobenzene | ND<2.5 | 5.0 | 0.5 |
| 1,1,1-Trichloroethane | ND<2.5 | 5.0 | 0.5 | 1,1,2-Trichloroethane | ND<2.5 | 5.0 | 0.5 |
| Trichloroethene | ND<2.5 | 5.0 | 0.5 | Trichlorofluoromethane | ND<2.5 | 5.0 | 0.5 |
| 1,2,3-Trichloropropane | ND<2.5 | 5.0 | 0.5 | 1,1,2-Trichloro-1,2,2-trifluoroethane | ND<50 | 5.0 | 10 |
| 1,2,4-Trimethylbenzene | ND<2.5 | 5.0 | 0.5 | 1,3,5-Trimethylbenzene | ND<2.5 | 5.0 | 0.5 |
| Vinyl Chloride | ND<2.5 | 5.0 | 0.5 | Xylenes | ND<2.5 | 5.0 | 0.5 |

**Surrogate Recoveries (%)**

| | | | |
|---|---|---|---|
| %SS1: | 93.1 | %SS2: | 108 |
| %SS3: | 111 | | |

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.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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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: 06/03/04 |
| | | Date Received: 06/04/04 |
| 4020 Panama Court | Client Contact: Paul King | Date Extracted: 06/09/04 |
| Oakland, CA 94611-4931 | Client P.O.: | Date Analyzed: 06/09/04 |

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

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0406078

| | |
|---|---|
| Lab ID | 0406078-002B |
| Client ID | MW2 |
| Matrix | Water |

| Compound | Concentration * | DF | Reporting Limit | Compound | Concentration * | DF | Reporting Limit |
|---|---|---|---|---|---|---|---|
| Acetone | ND<1000 | 200 | 5.0 | Acrolein (Propenal) | ND<1000 | 200 | 5.0 |
| Acrylonitrile | ND<400 | 200 | 2.0 | tert-Amyl methyl ether (TAME) | ND<100 | 200 | 0.5 |
| Benzene | 5400 | 200 | 0.5 | Bromobenzene | ND<100 | 200 | 0.5 |
| Bromochloromethane | ND<100 | 200 | 0.5 | Bromodichloromethane | ND<100 | 200 | 0.5 |
| Bromoform | ND<100 | 200 | 0.5 | Bromomethane | ND<100 | 200 | 0.5 |
| 2-Butanone (MEK) | ND<200 | 200 | 1.0 | t-Butyl alcohol (TBA) | ND<1000 | 200 | 5.0 |
| n-Butyl benzene | ND<100 | 200 | 0.5 | sec-Butyl benzene | ND<100 | 200 | 0.5 |
| tert-Butyl benzene | ND<100 | 200 | 0.5 | Carbon Disulfide | ND<100 | 200 | 0.5 |
| Carbon Tetrachloride | ND<100 | 200 | 0.5 | Chlorobenzene | ND<100 | 200 | 0.5 |
| Chloroethane | ND<100 | 200 | 0.5 | 2-Chloroethyl Vinyl Ether | ND<200 | 200 | 1.0 |
| Chloroform | ND<100 | 200 | 0.5 | Chloromethane | ND<100 | 200 | 0.5 |
| 2-Chlorotoluene | ND<100 | 200 | 0.5 | 4-Chlorotoluene | ND<100 | 200 | 0.5 |
| Dibromochloromethane | ND<100 | 200 | 0.5 | 1,2-Dibromo-3-chloropropane | ND<100 | 200 | 0.5 |
| 1,2-Dibromoethane (EDB) | ND<100 | 200 | 0.5 | Dibromomethane | ND<100 | 200 | 0.5 |
| 1,2-Dichlorobenzene | ND<100 | 200 | 0.5 | 1,3-Dichlorobenzene | ND<100 | 200 | 0.5 |
| 1,4-Dichlorobenzene | ND<100 | 200 | 0.5 | Dichlorodifluoromethane | ND<100 | 200 | 0.5 |
| 1,1-Dichloroethane | ND<100 | 200 | 0.5 | 1,2-Dichloroethane (1,2-DCA) | ND<100 | 200 | 0.5 |
| 1,1-Dichloroethene | ND<100 | 200 | 0.5 | cis-1,2-Dichloroethene | ND<100 | 200 | 0.5 |
| trans-1,2-Dichloroethene | ND<100 | 200 | 0.5 | 1,2-Dichloropropane | ND<100 | 200 | 0.5 |
| 1,3-Dichloropropane | ND<100 | 200 | 0.5 | 2,2-Dichloropropane | ND<100 | 200 | 0.5 |
| 1,1-Dichloropropene | ND<100 | 200 | 0.5 | cis-1,3-Dichloropropene | ND<100 | 200 | 0.5 |
| trans-1,3-Dichloropropene | ND<100 | 200 | 0.5 | Diisopropyl ether (DIPE) | ND<100 | 200 | 0.5 |
| Ethylbenzene | 2200 | 200 | 0.5 | Ethyl tert-butyl ether (ETBE) | ND<100 | 200 | 0.5 |
| Hexachlorobutadiene | ND<100 | 200 | 0.5 | Hexachloroethane | ND<100 | 200 | 0.5 |
| 2-Hexanone | ND<100 | 200 | 0.5 | Isopropylbenzene | ND<100 | 200 | 0.5 |
| 4-Isopropyl toluene | ND<100 | 200 | 0.5 | Methyl-t-butyl ether (MTBE) | 3900 | 200 | 0.5 |
| Methylene chloride | ND<100 | 200 | 0.5 | 4-Methyl-2-pentanone (MIBK) | ND<100 | 200 | 0.5 |
| Naphthalene | 360 | 200 | 0.5 | Nitrobenzene | ND<2000 | 200 | 10 |
| n-Propyl benzene | 140 | 200 | 0.5 | Styrene | ND<100 | 200 | 0.5 |
| 1,1,1,2-Tetrachloroethane | ND<100 | 200 | 0.5 | 1,1,2,2-Tetrachloroethane | ND<100 | 200 | 0.5 |
| Tetrachloroethene | ND<100 | 200 | 0.5 | Toluene | 4200 | 200 | 0.5 |
| 1,2,3-Trichlorobenzene | ND<100 | 200 | 0.5 | 1,2,4-Trichlorobenzene | ND<100 | 200 | 0.5 |
| 1,1,1-Trichloroethane | ND<100 | 200 | 0.5 | 1,1,2-Trichloroethane | ND<100 | 200 | 0.5 |
| Trichloroethene | ND<100 | 200 | 0.5 | Trichlorofluoromethane | ND<100 | 200 | 0.5 |
| 1,2,3-Trichloropropane | ND<100 | 200 | 0.5 | 1,1,2-Trichloro-1,2,2-trifluoroethane | ND<2000 | 200 | 10 |
| 1,2,4-Trimethylbenzene | 1300 | 200 | 0.5 | 1,3,5-Trimethylbenzene | 300 | 200 | 0.5 |
| Vinyl Chloride | ND<100 | 200 | 0.5 | Xylenes | 8800 | 200 | 0.5 |

**Surrogate Recoveries (%)**

| | | | |
|---|---|---|---|
| %SS1: | 86.7 | %SS2: | 105 |
| %SS3: | 108 | | |

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.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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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: 06/03/04 |
| | | Date Received: 06/04/04 |
| 4020 Panama Court | Client Contact: Paul King | Date Extracted: 06/09/04 |
| Oakland, CA 94611-4931 | Client P.O.: | Date Analyzed: 06/09/04 |

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

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0406078

| | |
|---|---|
| Lab ID | 0406078-003B |
| Client ID | MW3 |
| 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<100 | 100 | 1.0 | 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 |
| 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) | 1400 | 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 | 1,1,2-Trichloro-1,2,2-trifluoroethane | ND<1000 | 100 | 10 |
| 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: | 85.3 | %SS2: | 107 |
| %SS3: | 108 | | |

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.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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| | | |
|---|---|---|
| P & D Environmental | Client Project ID: #0055; Former Haber Oil | Date Sampled: 06/03/04 |
| | | Date Received: 06/04/04 |
| 4020 Panama Court | Client Contact: Paul King | Date Extracted: 06/09/04 |
| Oakland, CA 94611-4931 | Client P.O.: | Date Analyzed: 06/09/04 |

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

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0406078

| | |
|---|---|
| Lab ID | 0406078-004B |
| Client ID | MW4 |
| Matrix | Water |

| Compound | Concentration * | DF | Reporting Limit | Compound | Concentration * | DF | Reporting Limit |
|---|---|---|---|---|---|---|---|
| Acetone | ND<1000 | 200 | 5.0 | Acrolein (Propenal) | ND<1000 | 200 | 5.0 |
| Acrylonitrile | ND<400 | 200 | 2.0 | tert-Amyl methyl ether (TAME) | ND<100 | 200 | 0.5 |
| Benzene | ND<100 | 200 | 0.5 | Bromobenzene | ND<100 | 200 | 0.5 |
| Bromochloromethane | ND<100 | 200 | 0.5 | Bromodichloromethane | ND<100 | 200 | 0.5 |
| Bromoform | ND<100 | 200 | 0.5 | Bromomethane | ND<100 | 200 | 0.5 |
| 2-Butanone (MEK) | ND<200 | 200 | 1.0 | t-Butyl alcohol (TBA) | ND<1000 | 200 | 5.0 |
| n-Butyl benzene | ND<100 | 200 | 0.5 | sec-Butyl benzene | ND<100 | 200 | 0.5 |
| tert-Butyl benzene | ND<100 | 200 | 0.5 | Carbon Disulfide | ND<100 | 200 | 0.5 |
| Carbon Tetrachloride | ND<100 | 200 | 0.5 | Chlorobenzene | ND<100 | 200 | 0.5 |
| Chloroethane | ND<100 | 200 | 0.5 | 2-Chloroethyl Vinyl Ether | ND<200 | 200 | 1.0 |
| Chloroform | ND<100 | 200 | 0.5 | Chloromethane | ND<100 | 200 | 0.5 |
| 2-Chlorotoluene | ND<100 | 200 | 0.5 | 4-Chlorotoluene | ND<100 | 200 | 0.5 |
| Dibromochloromethane | ND<100 | 200 | 0.5 | 1,2-Dibromo-3-chloropropane | ND<100 | 200 | 0.5 |
| 1,2-Dibromoethane (EDB) | ND<100 | 200 | 0.5 | Dibromomethane | ND<100 | 200 | 0.5 |
| 1,2-Dichlorobenzene | ND<100 | 200 | 0.5 | 1,3-Dichlorobenzene | ND<100 | 200 | 0.5 |
| 1,4-Dichlorobenzene | ND<100 | 200 | 0.5 | Dichlorodifluoromethane | ND<100 | 200 | 0.5 |
| 1,1-Dichloroethane | ND<100 | 200 | 0.5 | 1,2-Dichloroethane (1,2-DCA) | ND<100 | 200 | 0.5 |
| 1,1-Dichloroethene | ND<100 | 200 | 0.5 | cis-1,2-Dichloroethene | ND<100 | 200 | 0.5 |
| trans-1,2-Dichloroethene | ND<100 | 200 | 0.5 | 1,2-Dichloropropane | ND<100 | 200 | 0.5 |
| 1,3-Dichloropropane | ND<100 | 200 | 0.5 | 2,2-Dichloropropane | ND<100 | 200 | 0.5 |
| 1,1-Dichloropropene | ND<100 | 200 | 0.5 | cis-1,3-Dichloropropene | ND<100 | 200 | 0.5 |
| trans-1,3-Dichloropropene | ND<100 | 200 | 0.5 | Diisopropyl ether (DIPE) | ND<100 | 200 | 0.5 |
| Ethylbenzene | ND<100 | 200 | 0.5 | Ethyl tert-butyl ether (ETBE) | ND<100 | 200 | 0.5 |
| Hexachlorobutadiene | ND<100 | 200 | 0.5 | Hexachloroethane | ND<100 | 200 | 0.5 |
| 2-Hexanone | ND<100 | 200 | 0.5 | Isopropylbenzene | ND<100 | 200 | 0.5 |
| 4-Isopropyl toluene | ND<100 | 200 | 0.5 | Methyl-t-butyl ether (MTBE) | 6200 | 200 | 0.5 |
| Methylene chloride | ND<100 | 200 | 0.5 | 4-Methyl-2-pentanone (MIBK) | ND<100 | 200 | 0.5 |
| Naphthalene | ND<100 | 200 | 0.5 | Nitrobenzene | ND<2000 | 200 | 10 |
| n-Propyl benzene | ND<100 | 200 | 0.5 | Styrene | ND<100 | 200 | 0.5 |
| 1,1,1,2-Tetrachloroethane | ND<100 | 200 | 0.5 | 1,1,2,2-Tetrachloroethane | ND<100 | 200 | 0.5 |
| Tetrachloroethene | ND<100 | 200 | 0.5 | Toluene | ND<100 | 200 | 0.5 |
| 1,2,3-Trichlorobenzene | ND<100 | 200 | 0.5 | 1,2,4-Trichlorobenzene | ND<100 | 200 | 0.5 |
| 1,1,1-Trichloroethane | ND<100 | 200 | 0.5 | 1,1,2-Trichloroethane | ND<100 | 200 | 0.5 |
| Trichloroethene | ND<100 | 200 | 0.5 | Trichlorofluoromethane | ND<100 | 200 | 0.5 |
| 1,2,3-Trichloropropane | ND<100 | 200 | 0.5 | 1,1,2-Trichloro-1,2,2-trifluoroethane | ND<2000 | 200 | 10 |
| 1,2,4-Trimethylbenzene | ND<100 | 200 | 0.5 | 1,3,5-Trimethylbenzene | ND<100 | 200 | 0.5 |
| Vinyl Chloride | ND<100 | 200 | 0.5 | Xylenes | ND<100 | 200 | 0.5 |

**Surrogate Recoveries (%)**

| | | | |
|---|---|---|---|
| %SS1: | 84.5 | %SS2: | 106 |
| %SS3: | 103 | | |

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.

DHS Certification No. 1644

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| | | |
|---|---|---|
| P & D Environmental | Client Project ID: #0055; Former Haber Oil | Date Sampled: 06/03/04 |
| | | Date Received: 06/04/04 |
| 4020 Panama Court | Client Contact: Paul King | Date Extracted: 06/09/04 |
| Oakland, CA 94611-4931 | Client P.O.: | Date Analyzed: 06/09/04 |

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

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0406078

| | |
|---|---|
| Lab ID | 0406078-005B |
| Client ID | MW5 |
| 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 | 1.0 | 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 |
| 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) | 7.2 | 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 | 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 1.0 | 10 |
| 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: | 88.1 | %SS2: | 112 |
| %SS3: | 113 | | |

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.

DHS Certification No. 1644

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| | | |
|---|---|---|
| P & D Environmental | Client Project ID: #0055; Former Haber Oil | Date Sampled: 06/03/04 |
| | | Date Received: 06/04/04 |
| 4020 Panama Court | Client Contact: Paul King | Date Extracted: 06/09/04 |
| Oakland, CA 94611-4931 | Client P.O.: | Date Analyzed: 06/09/04 |

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

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0406078

| | |
|---|---|
| Lab ID | 0406078-006B |
| Client ID | MW6 |
| 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 | 1.0 | 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 |
| 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 | 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 1.0 | 10 |
| 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: | 86.5 | %SS2: | 106 |
| %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.

DHS Certification No. 1644

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| | | |
|---|---|---|
| P & D Environmental | Client Project ID: #0055; Former Haber Oil | Date Sampled: 06/03/04 |
| | | Date Received: 06/04/04 |
| 4020 Panama Court | Client Contact: Paul King | Date Extracted: 06/09/04 |
| Oakland, CA 94611-4931 | Client P.O.: | Date Analyzed: 06/09/04 |

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

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0406078

| | |
|---|---|
| Lab ID | 0406078-007B |
| Client ID | MW7 |
| 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 | 1.0 | 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 |
| 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 | 0.98 | 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 | 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 1.0 | 10 |
| 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: | 97.6 | %SS2: | 113 |
| %SS3: | 117 | | |

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.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

**McCampbell Analytical, Inc.**

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

| | | |
|---|---|---|
| P & D Environmental | Client Project ID: #0055; Former Haber Oil | Date Sampled: 06/03/04 |
| | | Date Received: 06/04/04 |
| 4020 Panama Court | Client Contact: Paul King | Date Extracted: 06/09/04 |
| Oakland, CA 94611-4931 | Client P.O.: | Date Analyzed: 06/09/04 |

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

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0406078

| | |
|---|---|
| Lab ID | 0406078-008B |
| Client ID | MW8 |
| 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 | 1.0 | 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 | 1.0 | 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 |
| 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 | 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 1.0 | 10 |
| 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: | 95.4 | %SS2: | 112 |
| %SS3: | 114 | | |

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.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

**McCampbell Analytical, Inc.**

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# QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W WorkOrder: 0406078

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 11839 Spiked Sample ID: 0406077-001A

| | 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 | 98.1 | 99.4 | 1.40 | 83.8 | 102 | 19.5 | 70 | 130 |
| MTBE | ND | 10 | 105 | 103 | 1.91 | 104 | 115 | 10.3 | 70 | 130 |
| Benzene | ND | 10 | 110 | 110 | 0 | 103 | 115 | 11.2 | 70 | 130 |
| Toluene | ND | 10 | 109 | 108 | 1.30 | 98.5 | 109 | 10.5 | 70 | 130 |
| Ethylbenzene | ND | 10 | 109 | 109 | 0 | 105 | 114 | 8.59 | 70 | 130 |
| Xylenes | ND | 30 | 96 | 96 | 0 | 95.3 | 100 | 4.78 | 70 | 130 |
| %SS: | 96.6 | 10 | 105 | 106 | 0.782 | 100 | 104 | 3.69 | 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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with 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

**McCampbell Analytical, Inc.**

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

# QC SUMMARY REPORT FOR SW8260B

Matrix: W WorkOrder: 0406078

EPA Method: SW8260B Extraction: SW5030B BatchID: 11840 Spiked Sample ID: 0406077-001B

| | 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 | 79.3 | 79.8 | 0.604 | 89.6 | 83.5 | 7.02 | 70 | 130 |
| Benzene | ND | 10 | 101 | 101 | 0 | 123 | 115 | 6.61 | 70 | 130 |
| t-Butyl alcohol (TBA) | ND | 50 | 80.2 | 77.7 | 3.10 | 96.6 | 83 | 15.1 | 70 | 130 |
| Chlorobenzene | ND | 10 | 95.5 | 93.8 | 1.73 | 105 | 102 | 2.69 | 70 | 130 |
| 1,2-Dibromoethane (EDB) | ND | 10 | 90.7 | 87.3 | 3.75 | 107 | 103 | 3.15 | 70 | 130 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 10 | 96 | 96.5 | 0.489 | 112 | 106 | 5.62 | 70 | 130 |
| 1,1-Dichloroethene | ND | 10 | 84.1 | 84.7 | 0.777 | 117 | 110 | 6.52 | 70 | 130 |
| Diisopropyl ether (DIPE) | ND | 10 | 105 | 104 | 0.839 | 120 | 113 | 6.07 | 70 | 130 |
| Ethyl tert-butyl ether (ETBE) | ND | 10 | 91.8 | 90.7 | 1.19 | 113 | 105 | 6.94 | 70 | 130 |
| Methyl-t-butyl ether (MTBE) | ND | 10 | 90.2 | 89.2 | 1.16 | 105 | 97.5 | 7.13 | 70 | 130 |
| Toluene | ND | 10 | 105 | 103 | 2.20 | 112 | 108 | 3.55 | 70 | 130 |
| Trichloroethene | ND | 10 | 82.2 | 82.5 | 0.351 | 90.8 | 85.8 | 5.69 | 70 | 130 |
| %SS1: | 109 | 10 | 84.5 | 86.2 | 1.98 | 82.8 | 80.4 | 2.95 | 70 | 130 |
| %SS2: | 97.4 | 10 | 99.1 | 98.5 | 0.618 | 97.8 | 96.2 | 1.61 | 70 | 130 |
| %SS3: | 103 | 10 | 107 | 108 | 0.661 | 107 | 108 | 0.627 | 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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with 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

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

# CHAIN-OF-CUSTODY RECORD



**WorkOrder: 0406078** **ClientID: PDEO**

**Report to:**
Paul King
P & D Environmental
4020 Panama Court
Oakland, CA 94611-4931
TEL: (510) 658-4363
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:* 6/4/04
*Date Printed:* 6/4/04

| 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 |
| 0406078-001 | MW1 | Water | 6/3/04 | ☐ | B | A | | | | | | | | | | | | | |
| 0406078-002 | MW2 | Water | 6/3/04 | ☐ | B | A | | | | | | | | | | | | | |
| 0406078-003 | MW3 | Water | 6/3/04 | ☐ | B | A | | | | | | | | | | | | | |
| 0406078-004 | MW4 | Water | 6/3/04 | ☐ | B | A | | | | | | | | | | | | | |
| 0406078-005 | MW5 | Water | 6/3/04 | ☐ | B | A | | | | | | | | | | | | | |
| 0406078-006 | MW6 | Water | 6/3/04 | ☐ | B | A | | | | | | | | | | | | | |
| 0406078-007 | MW7 | Water | 6/3/04 | ☐ | B | A | | | | | | | | | | | | | |
| 0406078-008 | MW8 | Water | 6/3/04 | ☐ | 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: Melissa Valles**

**Comments:**

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

ppeo

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

0406618

# 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 for VOCs incl. fuel oxys + lead scavengers | PRESERVATIVE | REMARKS |
|---|---|---|---|---|---|---|---|---|
| MW1 | 6/3/04 | | 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 | | |

ICE/°C ✓
GOOD CONDITION ✓ APPROPRIATE CONTAINERS ✓
HEAD SPACE ABSENT ✓ PRESERVED IN LAB ___
DECHLORINATED IN LAB ___
PRESERVATION ✓ (VOAs | O&G | METALS | OTHER)

| RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: (SIGNATURE) |
|---|---|---|---|
| Wilhelm Welzenbach | 6/4 | 1530 | |
| RELINQUISHED BY: (SIGNATURE) | DATE 6/4 | TIME 4:30p | RECEIVED BY: (SIGNATURE) Joe Vall |
| 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 with HCl