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SDMS 157941

Report Addendum for Additional Data Collection in the Phase 1A Area

Omega Chemical Superfund Site
Whittier, California

June 27, 2003

Submitted to:

U.S. Environmental Protection Agency
Region IX

DRAFT

Prepared for:

Omega Chemical Site PRP Organized Group

Prepared by:

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Project No. 10500-37240.T1.GW.REPORT

SDMS 157941

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June 27, 2003

Mr. Loren Henning
Superfund Division (SFD-74)
U.S. Environmental Protection Agency, Region 9
75 Hawthorne Street
San Francisco, California 94105-3901

Subject: Submittal of Draft Report Addendum for Additional Data Collection in the Phase 1a Area
Omega Chemical Superfund Site
CDM Project No. 10500-37240-T1.GW.REPORT
CDM File No. 10500-5.2.3

Dear Mr. Henning:

On behalf of the Omega Chemical Site PRP Organized Group (OPOG), Camp Dresser & McKee Inc. (CDM) is herein submitting two copies of the Draft Report Addendum for Additional Data Collection in the Phase 1a Area, for your review and comment. One copy of the document has also been transmitted to each individual indicated below.

Please feel free to contact me or Chuck McLaughlin (909/222-0387) if you have any questions.

Sincerely,

CAMP DRESSER & MCKEE INC.

Sharon Wallin

Sharon L. Wallin, R.G.
Project Manager

Enclosure

cc: Carol Yuge, Roy F. Weston, Inc.
Lori Parnass, DTSC
John Hartley, US Army Corps of Engineers
Chuck McLaughlin, de maximis, inc.

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The information contained in the document *Report Addendum for Additional Data Collection in the Phase 1a Area Omega Chemical Superfund Site*, dated June 27, 2003, has received appropriate technical review and approval. The conclusions and recommendations presented represent professional judgments and are based upon findings from the investigations and sampling identified in the report and the interpretation of such data based on our experience and background. This acknowledgement is made in lieu of all warranties, either expressed or implied. The activities outlined in this report were performed under the supervision of a California Registered Geologist.

Reviewed and Approved by:

REGISTERED GEOLOGIST
SHARON L. WALLIN
4399
Sep. 4/04
STATE OF CALIFORNIA

Sharon Wallin

Sharon Wallin, R.G.
Project Manager

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Section 1
Introduction

On behalf of the Omega Chemical Site PRP Organized Group (OPOG), Camp Dresser & McKee Inc. (CDM) has prepared this Report Addendum for Additional Data Collection in the Phase 1a Area of the Omega Chemical Superfund Site (Site). The Site is located at 12504 East Whittier Boulevard in Whittier, California (see Figures 1-1, 1-2, and 1-3 for illustrations of Site location, vicinity, and Phase1a area, respectively). The activities described in this document were performed in partial fulfillment of Tasks 1 and 3 of the Statement of Work included in Consent Decree No. 00-12471 between USEPA and OPOG. The Consent Decree was lodged on November 24, 2000 and entered into the U.S. District Court on February 28, 2001.

1.1 Background

Under USEPA Administrative Order 95-15, OPOG performed an initial investigation of the Phase 1a area (see Figure 1-3) during June and July 1999 in accordance with the Final Sampling and Analysis Plan (SAP) Phase 1a Field Investigation (CDM, April 23, 1999). As part of the initial investigation, three groundwater monitoring wells (OW1b, OW2 and OW3) were installed in the Phase 1a area and sampled. An existing on-site well (OW1) was also sampled. In addition, well OW2 was test pumped at four steps (1.15, 2.50, 3.75, and 5.50 gallons per minute [gpm], respectively), with each pumping step lasting approximately one hour.

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The results of the initial investigation were detailed in the USEPA-approved Phase 1a Pre-Design Field Investigation Report (CDM, October 13, 1999). The Phase 1a report recommended the following to assist in selecting the most appropriate location for groundwater containment:

- Additional confirmatory sampling to verify the volatile organic compound (VOC) concentrations detected in newly-installed Omega well OW1b.
- Additional investigations to further understand hydraulic conductivity and transmissivity conditions along or downgradient of Putnam Street.
- Installation of a sentinel well on Washington Boulevard to characterize the lateral variability of hydrostratigraphic conditions and assist in determining if the low permeability conditions indicated at OW2 and OW3 are laterally continuous and persistent, or if preferential pathways of higher hydraulic conductivity exist.

With the approval of the Phase 1a Report, OPOG completed all work required by Order 95-15 and negotiated the current Consent Decree (No. 00-12471) with USEPA.

In accordance with Task 3 of the current Consent Decree, OPOG installed four downgradient wells (formerly referred to as sentinel wells). The four wells (OW4a, OW4b, OW5 and OW6) were installed during March through August 2001 in accordance with the USEPA-approved Downgradient Well Installation and

Groundwater Monitoring SAP (CDM, April 20, 2001). The Downgradient Well SAP also specified the collection of quarterly groundwater samples and monthly water level monitoring for one year from all Omega wells. Groundwater samples were collected from the Omega wells during mid-May, mid-August, and mid-November 2001 and mid-February 2002.

In May 2001, USEPA requested that OPOG install and sample an additional groundwater monitoring well upgradient of the site. Additional data requirements for the proposed groundwater remedy were also discussed in a Technical Memorandum from OPOG to USEPA dated October 31, 2001. The Technical Memorandum identified the following additional data requirements:

- Installation of a third monitoring well at Putnam Street, between wells OW2 and OW3, to verify the lateral distribution of VOCs at this location and to collect additional hydrostratigraphic and hydraulic data at this location;
- Performance of single well aquifer recovery tests at wells OW2, OW3, OW4a and the new Putnam Street well location to provide better estimates of hydraulic conductivity at these locations; and
- Addition of 1,4-dioxane, metals, bioparameters (e.g., electron donors and receptors), total dissolved solids (TDS), total organic carbon (TOC), and chemical oxygen demand (COD) to the analytical suite for the next round of sampling at wells OW1, OW1b, OW2, OW3, OW4a and OW4b.

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Wells OW7 (upgradient well) and OW8 (Putnam well) were installed and sampled in March 2002. Well drilling, installation, development, and sampling activities were performed in accordance with the procedures specified in the Downgradient Well SAP.

Following the completion of quarterly sampling and monthly water level monitoring in mid-February 2002, OPOG initiated semi-annual sampling of all 10 Omega wells. Semi-annual sampling was performed during mid-August 2002 and mid-February 2003 in accordance with the SAP Addendum for Additional Data Collection in the Phase 1a Area (CDM, May 31, 2002). The additional data requirements listed above from the Technical Memorandum formed the basis of the activities described in the SAP Addendum. In addition to groundwater monitoring, the SAP Addendum also specified short-term constant discharge and recovery aquifer testing and sampling of wells OW2, OW3, OW4a and OW8. Aquifer testing and sampling of these wells was performed mid-March 2003.

This Report Addendum presents the results of the additional data collection activities (semi-annual groundwater sampling and water level monitoring, and aquifer testing and sampling), in addition to prior quarterly groundwater sampling and monthly water level monitoring activities. Boring/Well Construction Logs for all 10 Omega wells are provided in Appendix A. An electric log for well OW4b, which was drilled using mud rotary methods, is also provided in Appendix A.

USEPA has also been performing a regional groundwater investigation in areas downgradient of the Site to identify additional sites which may have contributed to groundwater contamination in the area. Phase 1 of the regional groundwater investigation was performed for USEPA by Roy F. Weston, Inc. (Weston) during the period from August 15 through November 2, 2001. The Phase 1 investigation included the analysis of 81 in-situ groundwater samples collected using a push-probe drill rig, temporary well screen, and bailer. In addition, 30 exploratory boring were advanced during the Phase 1 investigation using a cone penetrometer (CPT) drill rig. The results of the Phase 1 investigation were presented in the Phase 1 Groundwater Characterization Study (Weston, February 2002). Weston also installed and sampled 18 groundwater monitoring wells as part of a subsequent Phase 2 investigation. The results of the Phase 2 investigation are pending. USEPA also collected split samples for laboratory analysis from all Omega wells during the quarterly and semi-annual sampling events.

1.2 Purpose and Objective

As described above, the purpose of the investigation detailed in this Report Addendum was to collect additional data (e.g., lithologic, water quality, aquifer hydraulics, etc.) in order to assist in the selection of the groundwater remedy in the Phase 1a Area. This document summarizes the results of the additional investigation

1.3 Organization of Report

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This report is organized into five sections, as follows:

- Section 1 - Introduction
- Section 2 - Field Procedures
- Section 3 – Data Presentation and Evaluation
- Section 4 – Conclusions and Recommendations
- Section 5 – References
- Appendix A – Boring/Well Construction Logs and Electric log
- Appendix B – Completed Field Forms
- Appendix C – Well Survey Data
- Appendix D – Analytical Reports and COCs
- Appendix E – Aquifer Test Data
- Appendix F - Fate and Transport
- Appendix G – Data Validation

Figures and tables are provided at the rear of each section where they are first discussed.

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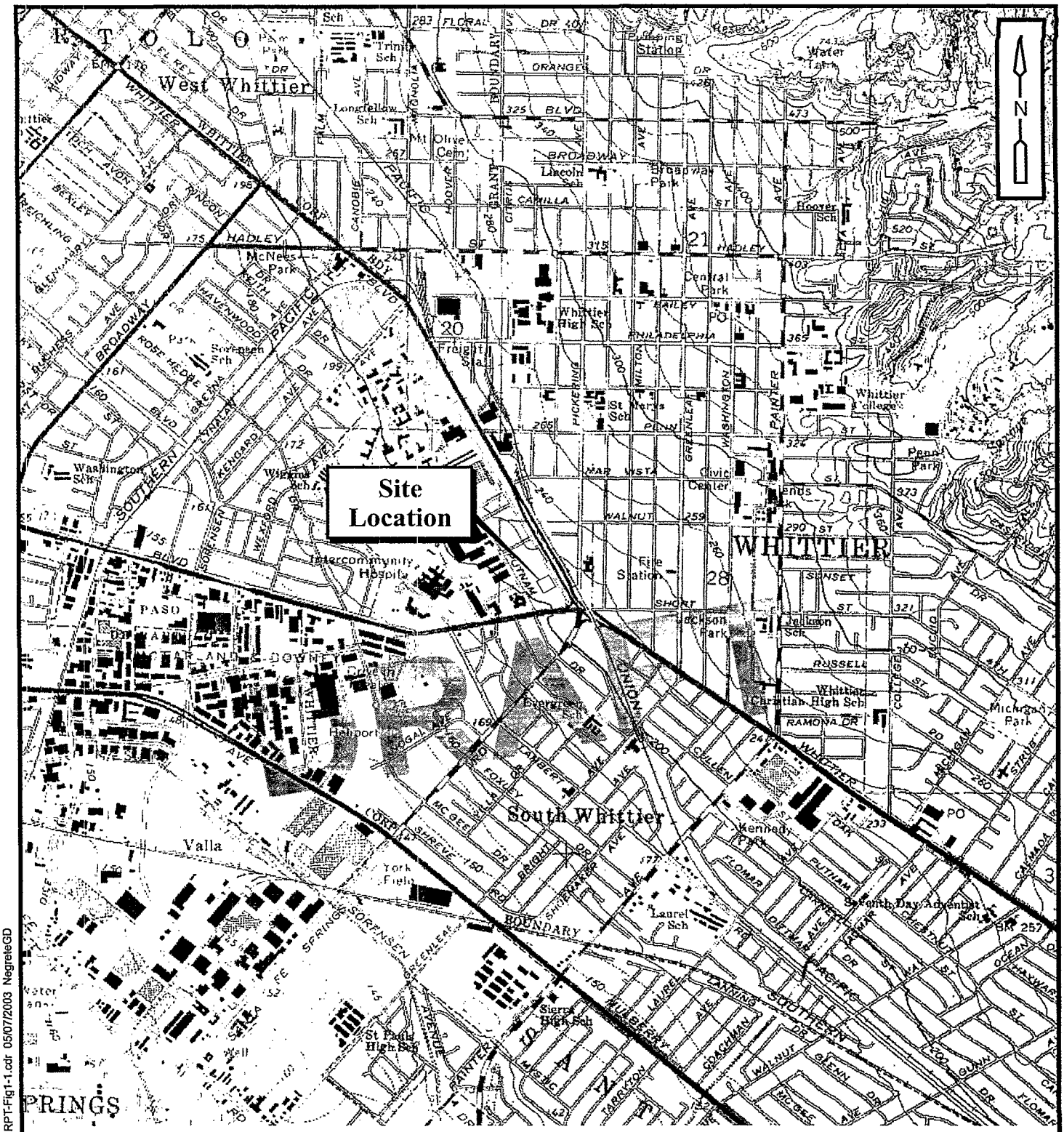

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Site Location Map

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Figure 1-1

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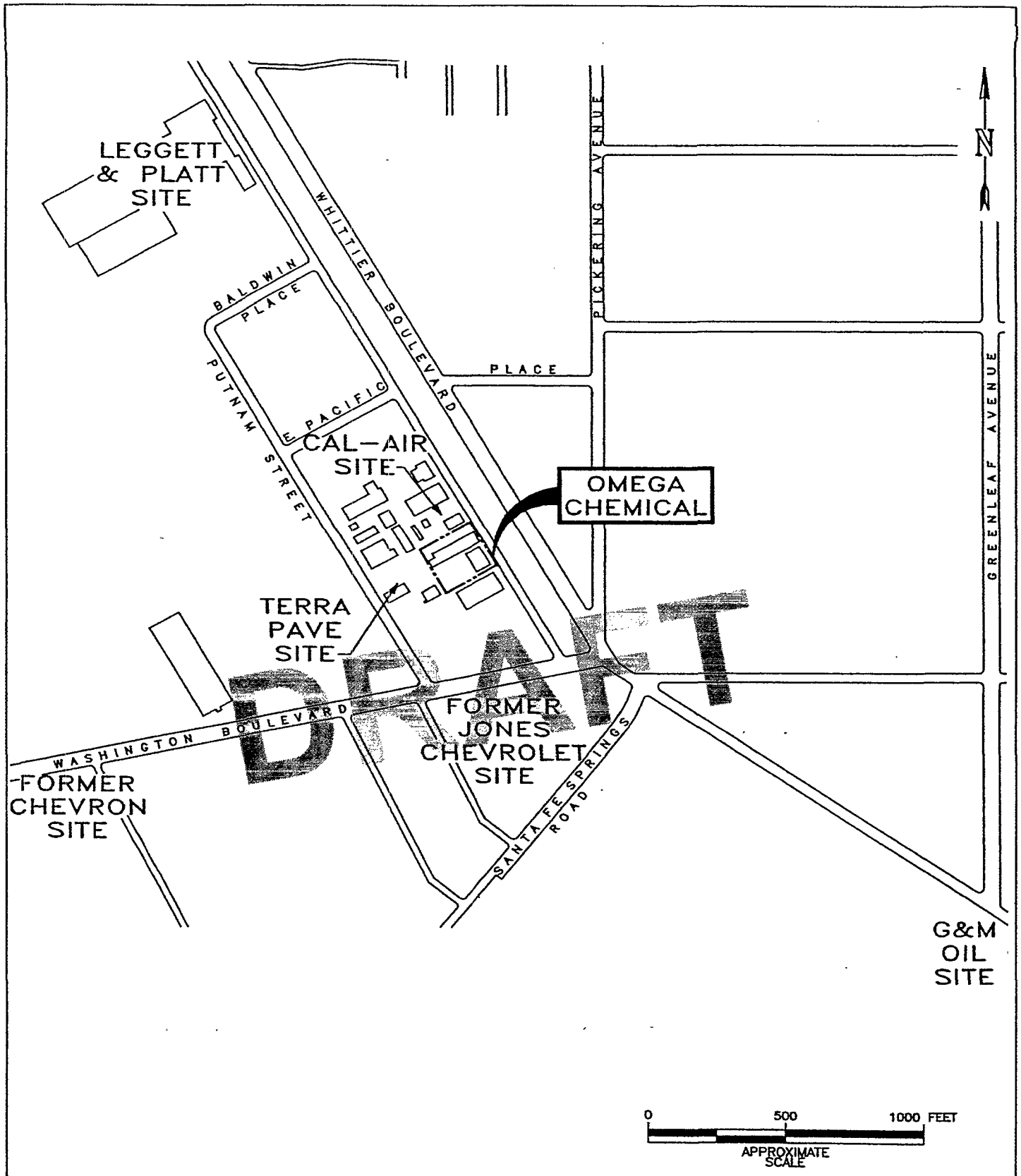

SOURCE: England & Associates and Hargis + Associates, Inc.

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VICINITY MAP

CDM
environmental engineers, scientists, planners, & management consultants

Figure 1-2

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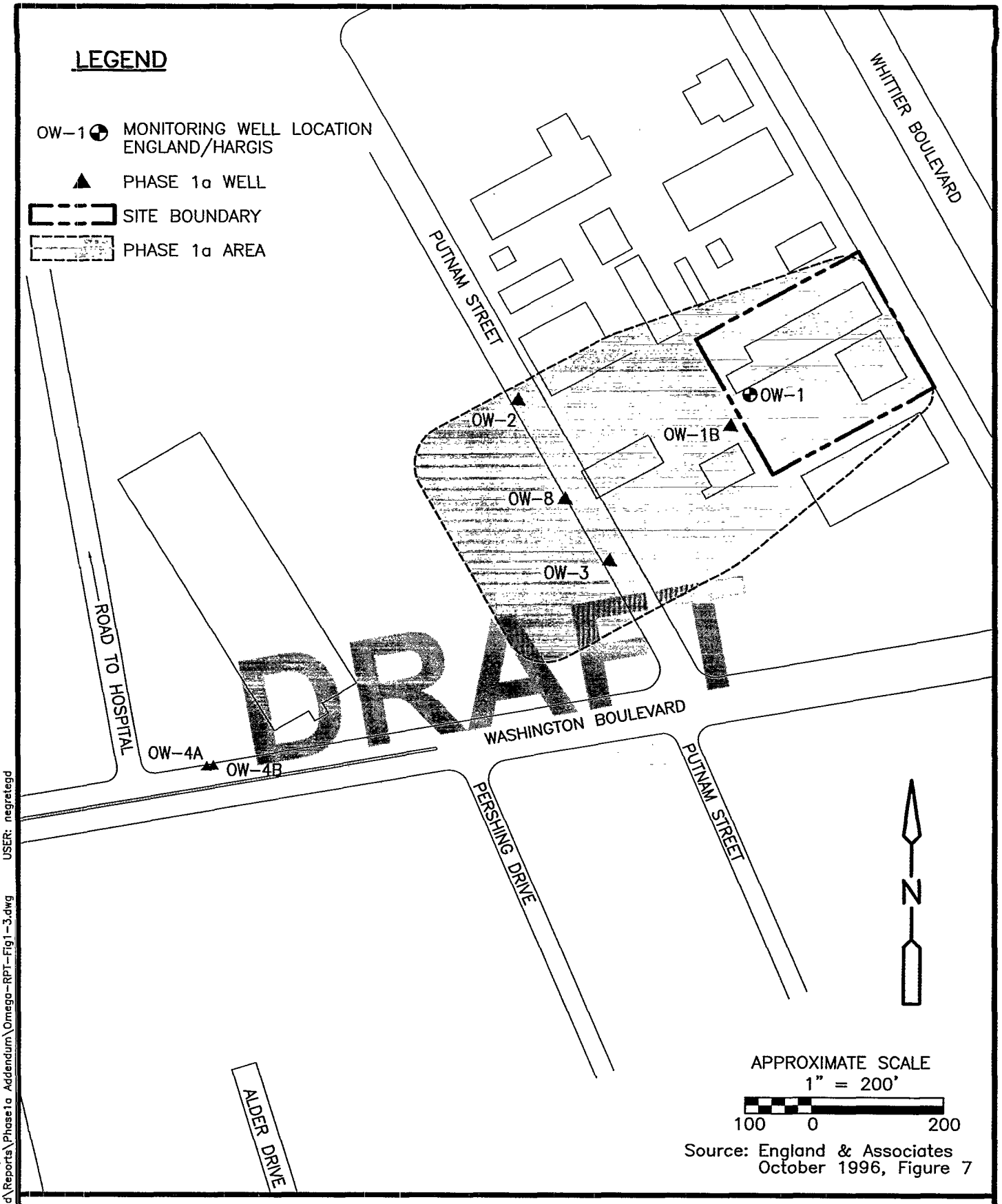

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Omega Site Phase 1a Area

CDM

Figure 1-3

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Section 2
Field Procedures

As discussed in Section 1, two tasks were performed during the field investigation:

- Task 1 - Aquifer Testing and Water Quality Sampling and Analysis
- Task 2 - Semi-Annual Monitoring Well Sampling and Analysis

A brief discussion of field procedures is provided below.

2.1 Task 1 - Aquifer Testing and Water Quality Sampling and Analysis

Wells OW2, OW3, OW4a and OW8 were test pumped during the period from March 10 through March 14, 2003. Testing and sampling procedures are described below.

2.1.1 Aquifer Testing

Constant discharge pumping was performed for a 4-hour period at each of the four well locations, with recovery measured until the water level at each tested well had recovered to within approximately 95% of its pre-test static condition.

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The following average pumping rates were maintained during aquifer testing:

- OW2 - 2.3 gpm
- OW3 - 1.34 gpm
- OW8 – 10.4 gpm
- OW4a - 10.3 gpm

Water levels prior to initiating each test and during the pumping and recovery phases of each test were monitored automatically using a data logger and transducer (In-Situ Mini-Troll™), and manually using an electric water level indicator. Equipment operation was performed in accordance with manufacturer's instruction manuals.

Manual water level readings were generally collected on a typical logarithmic progression (e.g., every minute during the first ten minutes of the test, every two minutes from 10 to 20 minutes into the test, every 5 minutes from 20 to 30 minutes into the test, every 10 minutes from 30 to 60 minutes into the test, etc.). The data logger also collected water level measurements using its pre-set logarithmic progression. Manual measurements are provided on the field forms contained in Appendix B.

The pumping rate at each well location was measured using an in-line flowmeter and totalizer. The volume of water pumped during each test and the time pumped was noted. Periodically during pumping, samples of the discharge water were collected for field measurement of pH, temperature, electrical conductivity, and turbidity. Field measurements were recorded on the Aquifer Pump Test Data sheets contained in Appendix B. Equipment decontamination was performed as described in Section 4.8 of the Downgradient Well SAP.

A total of 6,326 gallons of water were generated during the four tests. The water was pumped directly into a vacuum truck. Upon the completion of testing at each location, the purge water was transported under non-hazardous waste manifest to the Demenno/Kerdoon (DK) facility in Compton, California for recycling. Because well purge water from previous sampling events in 2001, 2002, and 2003 had also been recycled by the DK facility, a disposal profile had been established for the water and further analysis was not required prior to disposal.

2.1.2 Water Quality Sampling and Analysis

Water quality samples were collected from each pumped well just before the termination of pumping. One sample was collected from each well and submitted for analysis of the following parameters on a standard turnaround basis:

- VOCs plus acetone, Freon 11, Freon 12, Freon 113, MTBE (methyl-tertiary-butyl-ether) and Tentatively Identified Compounds (TICs) by Method 8260B
- 1,4-Dioxane by Method 8270M

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The discharge rate was slowed to less than one gpm during sample collection. The sample containers were filled directly from the end of the discharge pipe. One sequential duplicate sample was also collected from well OW8. Sample collection and handling was performed as described in the following section. Analytical reports and completed COC forms for analytical samples collected during aquifer testing are contained in Appendix D.

2.2 Semi-Annual Monitoring Well Sampling and Analysis

In accordance with the SAP Addendum, all 10 Omega wells will be sampled on a semi-annual basis until the Phase 1a Area treatment plant is operational. As previously discussed, semi-annual sampling was initiated during mid-August 2002. To date, two semi-annual sampling events have been completed (mid-August 2002 and mid-February 2003). Groundwater samples collected from the 10 Omega wells and duplicates collected from well OW8 were analyzed for the following parameters at a fixed-base laboratory during the two semi-annual sampling events performed to date:

- VOCs plus acetone, Freon 11, Freon 12, Freon 113, MTBE (methyl-tertiary-butyl-ether) and Tentatively Identified Compounds (TICs) by Method 8260B

In addition, groundwater samples collected from selected wells (OW1, OW1b, OW2, OW3, OW4a, OW4b, and OW8) were analyzed for 1,4-dioxane by Method 8270M during the mid-August 2002 and mid-February 2003 sampling events. As previously described in Section 2.1.1, samples of the discharge water were collected periodically for field measurement of pH, temperature, electrical conductivity, and turbidity. Field measurements for the August 2002 and February 2003 semi-annual sampling events are indicated on the Monitoring Well Purge and Sampling forms contained in Appendix B. Analytical reports and completed COC forms for analytical samples collected during the semi-annual sampling events are contained in Appendix D.

As indicated in the Technical Memorandum (OPOG, October 31, 2001), additional analyses for biodegradation/natural attenuation parameters and emerging compounds were also performed on groundwater samples collected from selected wells (OW1, OW1b, OW2, OW3, OW4a, OW4b and OW8) during the February 2003 semi-annual sampling event. Analyses of the field parameters listed below were performed in accordance with manufacturer's directions provided with each Direct Reading Instrument (DRI) and Hach Test Kit.

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Biodegradation/Natural Attenuation Field Parameters
The following biodegradation/natural attenuation parameters were analyzed immediately in the field:

- Dissolved Oxygen (DO) *
- Redox (Eh) *
- Sulfate **
- Iron (II) **
- Alkalinity **
- Chloride **
- Hydrogen Sulfide **
- Carbon Dioxide **

* Indicates field analysis using a DRI.

** Indicates field analysis performed per manufacturer's instructions using a Hach Test Kit.

Biodegradation/Natural Attenuation Analytical Parameters (fixed-base laboratory)

- Nitrate/Nitrite
- Dissolved Organic Carbon
- Methane/Ethane/Ethene (if field tests indicated conditions were anaerobic)

Sample handling was performed as indicated in Section 3 (Table 3-1) of the SAP Addendum. Laboratory samples for dissolved organic carbon analysis were collected in unacidified containers, and filtering by the lab was indicated on the Chain of Custody (COC) form. Field personnel coordinated with the analytical laboratory to make sure that analyses with short holding times (e.g., nitrate/nitrite and hexavalent chromium) were analyzed within the required holding time.

In accordance with the SAP Addendum, bottles were filled for methane/ethane/ethene analyses and stored in an iced cooler pending evaluation of the dissolved oxygen measurements and ferrous iron (Fe II) field analytical results for the sampled wells. According to the SAP Addendum, in the event that anaerobic conditions were observed at a sampled well location (e.g., ferrous iron was detected during field testing and dissolved oxygen measurements were less than 1 mg/L), the bottles filled for methane/ethane/ethene analyses were to be submitted to the fixed-base laboratory for analysis. Methane/ethane/ethane are metabolic byproducts produced only under reduced, anaerobic environments. Methane is produced through carbon dioxide reduction and/or fermentation reactions, while ethane and ethane are innocuous end-products that result from the reductive dechlorination of chlorinated VOCs. In the absence of anaerobic conditions, methane/ethane/ethene generation is likely be insignificant, therefore, analysis for these compounds in the event that aerobic conditions were observed, was unwarranted. Based on evaluation of the field results, three samples (OW1, OW1b, and OW8 were selected for methane/ethane/ethene analyses.

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Emerging Compounds (fixed-base laboratory)

- Hexavalent Chromium
- 1,4-Dioxane
- Perchlorate

Each well was purged using a portable submersible pump and dedicated polyethylene tubing previously installed inside each Omega well. Upon the completion of purging, with the exception of samples for VOC and 1,4-dioxane analysis, all sample containers were filled directly from the end of the discharge tubing, with the discharge rate lowered to less than one gpm during filling of the sample containers.

Upon the completion of sample collection using the submersible pump, the pump was removed from the well and a precleaned, disposable bailer lowered to the

approximate middle of the perforated section. The bailer was used to collect samples for VOCs and 1,4-dioxane analyses. The groundwater contained in the bailer was poured directly into the sample containers, minimizing agitation. After sampling was completed, the bailer and line were discarded.

All samples were submitted for standard analytical turnaround time. Level 4 deliverables were requested on approximately 10% of the samples submitted for fixed-base laboratory analysis during each sampling event, in order to perform formal validation of the data. Data validation results are discussed in Section 3.5. The laboratory provided both electronic and hard copy reports.

Water level measurements were also collected from the Omega wells prior to each sampling event. Water level measurements and water quality sampling activities were performed in accordance with the procedures specified in Sections 2.1.4 and 2.1.5 of the Downgradient Well SAP, respectively.

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Section 3
Data Presentation and Evaluation

As previously discussed, wells OW7 and OW8 were installed in March 2002. These wells yielded additional information regarding subsurface conditions at the two locations presently being evaluated for extraction of impacted groundwater. In addition, during the period from May 2001 through February 2003, water level measurements were collected from Omega wells monthly for one year and then semi-annually for a year, totaling 14 separate events. Monitoring well locations are illustrated on Figure 3-1, with groundwater elevation contours for the 14 water level monitoring events illustrated on Figures 3-2 through 3-15. Selected VOC results and emerging compound results are illustrated on Figures 3-16 and 3-17, respectively.

Well construction information has been summarized in Table 3-1, with water level measurements and groundwater elevation summarized in Table 3-2. Analytical results for all groundwater sampling events were input into the project's Access™ database, with analytical results summarized in Tables 3-3 through 3-8. Biodegradation/natural attenuation field results are summarized in Table 3-9.

3.1 Lithologic Data

The subsurface lithology at the location of new well OW7 is very similar to the lithology at locations OW1 and OW1b. As indicated on the lithologic logs contained in Appendix A, the subsurface materials at location OW7 consist primarily of clays and silty clays. The subsurface materials at the location of new well OW8 are comparable to the materials observed at locations OW2 and OW3, with silts and clays observed to an approximate depth of 54 feet below ground surface (bgs) and sand observed in the interval from 54 to 79 feet bgs. The subsurface materials adjacent to the screened interval of well OW8 are slightly coarser-grained (very fine to coarse sands) than the subsurface materials adjacent to the screened interval of well OW2 (very fine to fine sands).

The subsurface materials adjacent to the screened interval of well OW4a are generally coarser-grained (fine to coarse sands with some gravel), and consist of sands and silty sands interbedded with clays and silty clays. Due to flowing sands encountered at location OW4, the deeper well (OW4b) was drilled using the mud rotary drilling method vs. the hollow-stem auger method used to drill and install the other 9 Omega wells. An electric log was performed in the OW4b boring and is included in Appendix A. The electric log correlates well with the lithologic logs at location OW4.

3.2 Water Level and Groundwater Elevation Results

All Omega wells were surveyed and groundwater elevation calculated at each location using the water level measurements for each well. Groundwater elevation results are summarized in Table 3-2. As indicated on the groundwater elevation contour maps (Figures 3-2 through 3-15), the direction of groundwater flow was consistently towards the southwest during all 14 water level monitoring events. There

is a noticeable change in hydraulic gradient in the vicinity of Washington Boulevard, which corresponds to the observed transition from finer-grained subsurface lithology in the area northeast of Washington Boulevard to coarser-grained subsurface lithology in the area southwest of Washington Boulevard.

As observed at the two locations where shallow and deeper well pairs (OW1 and OW4) are present, groundwater elevations in the deeper wells ranged from approximately 3.5 to 7 feet deeper than the elevations observed at the shallow wells at those locations. This head difference suggests that some degree of hydraulic separation exists between the shallow and deeper screened zones. The head differences also indicate a downward hydraulic gradient at these locations, suggesting that there is the potential for contaminants to migrate downward towards the deeper zone. Water quality results from the two well pair locations support the assumption that hydraulic separation between the two zones limits downward vertical migration.

3.3 Quarterly and Semi-Annual Groundwater Sampling Analytical Results

As discussed previously, water quality samples were collected quarterly from all Omega wells for one year starting mid-May 2001 and ending mid-February 2002. In addition, samples were collected on a semi-annual basis in mid-August 2002 and mid-February 2003. Analytical results for all detected compounds (laboratory and field) are summarized in Tables 3-3 through 3-9.

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The following discussion of groundwater sample analytical results is limited to samples collected from wells in the Phase 1a area (OW1, OW1b, OW2, OW3, and OW8), along Washington Boulevard (OW4a and OW4b), and the well directly upgradient from the Omega facility (OW7). Screened intervals for each well are indicated on the majority of the analytical summary tables.

3.3.1 Chlorinated VOCs

Chlorinated VOCs have been detected more frequently and at elevated concentrations in the Phase 1a area, therefore, they are the primary compounds of concern at the Site. The following discussion regarding chlorinated VOCs is based on well location with respect to distance from the assumed on-site source area, and depth (see Table 3-3 for well construction information and screened intervals). As shown on Figure 3-1, wells OW1 and OW1b are located at or in close proximity to the Site and are considered source area wells. Putnam Street wells OW2, OW3 and OW8 are located a short distance (e.g., approximately 300 feet) downgradient from the Site. As discussed previously, these five wells are located within the Phase 1a study area. Wells OW4a and OW4b are located on Washington Boulevard approximately 1,000 feet downgradient from the Site. At the two locations where a deeper well is paired with a water table well (OW1 and OW1b, and OW4a and OW4b), the vertical extent of chlorinated VOCs is discussed.

Source Area Wells OW1 and Ow1b

Well OW1 is a water table well (screened from 62.5 to 77.5 feet bgs) located on-site and is considered a source area well. Well OW1b (screened from 110 to 120 feet bgs) is a deeper well located on the adjacent Terra Pave property, and paired with well OW1 provides information on the vertical extent of chlorinated VOCs in the general area of the assumed source. Chlorinated VOC concentrations in well OW1 generally declined during the period from May 2001 to February 2002, and then increased from February 2002 to February 2003. Freon 11 and Freon 113 concentrations in well OW1 generally exhibited the reverse trend, increasing and then decreasing during the same time period.

The compound detected at the highest concentration in well OW1 during the quarterly and semi-annual sampling events was tetrachloroethene (PCE), which was detected at concentrations ranging from 30,000 micrograms per liter (ug/l) in February 2002 to 100,000 ug/l in February 2003. Other chlorinated VOCs detected at elevated concentrations included 1,1,1-trichloroethane (1,1,1-TCA) at a maximum concentration of 10,000 ug/l in February 2003; 1,1-dichloroethene (1,1-DCE) at a maximum concentration of 2,700 ug/l in May 2001; chloroform (CFM) at a maximum concentration of 500 ug/l in May 2001 and February 2003; and methylene chloride (MC) at a maximum concentration of 490 ug/l in May 2001.

Chlorinated VOCs were generally not detected in near-site deeper well OW1b. The primary exception was PCE, which was detected at concentrations several orders-of-magnitude lower in well OW1b compared to well OW1. The concentration of PCE in well OW1b ranged from 62 µg/L in May 2001 to 29 ug/l in August 2001. These data demonstrate that chlorinated VOC concentrations attenuate with increased depth and appear to be of limited vertical extent.

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Putnam Street Wells OW2, OW3 and OW8

Chlorinated VOCs were detected in water table wells OW2 ,OW3, and OW8 located approximately 300 feet downgradient from the Site along Putnam Street. Based on evaluation of the analytical results, the following general observations were made regarding the concentrations of chlorinated VOCS in the three wells.

Chlorinated VOC concentrations in the three Putnam Street wells were less than those observed in the on-site source area well (OW1). For example, PCE was detected at a concentration of 13,000 ug/l in well OW8 in February 2003, compared to a concentration of 100,000 ug/l detected in on-site source area well OW1 during February 2003.

The concentrations observed in wells OW2 and OW3 were generally comparable to each other. PCE concentrations in wells OW2 and OW3 during quarterly and semi-annual sampling ranged from 610 to 1,300 ug/l and from 200 to 2,100 ug/l, respectively. TCE concentrations in wells OW2 and OW3 ranged from 110 to 150 ug/l and 160 to 270 ug/l, respectively. Maximum concentrations of other chlorinated VOCs detected in well OW2 were 790 ug/l 1,1-DCE; 1,600 ug/l Freon 113; and 390

ug/l Freon 11. Maximum concentrations of other chlorinated VOCs detected in well OW3 were 1,700 ug/l 1,1,-DCE; 530 ug/l Freon 113; and 380 ug/l Freon 11.

In comparison, the concentrations of chlorinated VOCs detected in well OW8 were generally higher than the concentrations detected in wells OW2 and OW3. Maximum concentrations of PCE, TCE, 1,1,-DCE, Freon 113 and Freon 11 detected in groundwater samples collected from well OW8 were 11,000 ug/l; 930ug/l; 1,700 ug/l; 2,500 ug/l and 1,000 ug/l, respectively. In addition, MC and CFM were detected at maximum concentrations of 930 ug/l and 550 ug/l, respectively, in groundwater samples collected from well OW8. By comparison, MC and CFM were detected either at low concentrations or were not detected in samples collected from wells OW2 and OW3.

At location OW8, MC and CFM concentrations increased from the initial quarterly sampling event in March 2002 (36 and 390 ug/l, respectively) to the most recent semi-annual sampling event in February 2003 (930 and 550 ug/l, respectively). Higher concentrations of MC and CFM (2,400 and 790 ug/l, respectively) were reported for the duplicate sample collected from well OW8 in February 2003. Review of the laboratory report indicated that surrogate recoveries were within acceptable limits and there were no QA/QC issues indicated on the case narrative.

The concentration of MC detected in well OW8 during the February 2003 sampling event (930 ug/l) was higher than the concentration (72 ug/l) detected in on-site source area well OW1. The concentrations of Freon 113 and Freon 11 were also higher in well OW8 in comparison to the concentrations reported for well OW1.

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Washington Boulevard Wells OW4a and OW4b

Chlorinated VOCs were detected in Washington Boulevard water table well OW4a located approximately 1,000 feet downgradient from the Site. Concentrations were generally several orders of magnitude less than concentrations observed in the on-site source area well (OW1), and several times less than concentrations observed in Putnam Street wells OW2 and OW3. Chlorinated VOC concentrations, therefore, were observed to attenuate with increased distance downgradient from the source area.

The compound MC, which was detected at elevated concentrations in the groundwater samples collected from well OW8, was not detected in the samples collected from well OW4a at a detection limit of 5 ug/l. In addition, the concentration of CFM was several orders of magnitude lower in the samples collected from well OW4a in comparison with the concentration detected in samples collected from well OW8.

Low concentrations of chlorinated VOCs (e.g., 1.2 to 1.9 ug/l PCE) were generally detected in groundwater samples collected from deeper well OW4b during the four quarterly sampling events. As discussed previously, well OW4b is located adjacent to

well OW4a. For reference, well OW4a is screened from 49.8 feet to 69.8 bgs, with well OW4b screened from 112 to 122.3 feet bgs. During the two semi-annual sampling events in August 2002 and February 2003, PCE was detected at increased concentrations of 12 and 41 ug/l, respectively. In addition, several additional compounds (TCE, 1,1-DCE, Freon 113 and Freon 11) were also detected in groundwater samples collected from well OW4b. As was observed at the source area well pair location (OW1/OW1b), the data for the downgradient well pair (OW4a/OW4b) demonstrate that chlorinated VOC concentrations attenuate with increased depth and appear to be of limited vertical extent.

Upgradient Well OW7
Several chlorinated VOCs were detected at low concentrations at the upgradient well (OW7) location. Maximum concentrations of 12 ug/l PCE, 1.8 ug/l TCE, 62 ug/l Freon 113, and 36 ug/l Freon 11 were detected in the upgradient well.

3.3.2 Aromatic VOCs

Several aromatic organics have historically been detected at relatively low concentrations in on-site source area well OW1 (see Table 3-4). During the most recent February 2003 semi-annual sampling event, aromatic compounds were detected at concentrations comparable to the July 1999 and May 2001 sampling events. During the February 2003 sampling event, the following aromatics were detectedin groundwater samples collected from on-site source area well OW1: benzene at 15 ug/l, toluene at 24 ug/l, ethylbenzene at 8.1 ug/l, total xylenes at 4.4 ug/l, and isopropylbenzene at 2.3 ug/l. Historically, aromatic organics have not been detected in deeper well OW1b. With one minor exception (benzene at a concentration of 0.62 ug/l), they were not detected during the February 2003 sampling event.

Aromatic organics have also generally not been detected in groundwater samples collected from Putnam Street wells OW2 and OW3, Washington Boulevard well OW4a, and upgradient well OW7. Low levels of benzene (ranging from 0.79 to 1.8 ug/l) were detected in well OW4b during the semi-annual sampling events. Acetone has also been routinely detected in well OW4b during all groundwater sampling events at concentrations ranging from 28 to 1,500 ug/l. In addition, 2-propanol has also been detected in the well at concentrations ranging from 350 to 940 ug/l.

Benzene, toluene, and acetone have also been detected in groundwater samples collected from well OW8 during quarterly and semi-annual sampling events. Benzene concentrations ranged from 5.3 ug/l (August 2002) to 5.4 ug/l (March 2002), toluene concentrations ranged from 1.9 ug/l (March 2002) to 120 ug/l (February 2003), and acetone concentrations ranged from 41 ug/l (March 2002) to 5,800 ug/l (February 2003).

3.3.3 Semi-VOCs, Pesticides, and Metals

Semi-VOCs and pesticides were analyzed for and not detected at locations OW1 and OW1b during all four quarterly sampling events (see Table 3-5). Total and dissolved metals were also analyzed at these two well locations and were generally found at

background concentrations during all four quarterly sampling events (see Table 3-6). Based on these results, sampling and analysis for these parameters was discontinued at the start of semi-annual sampling.

3.3.4 Emerging Compounds

During the February 2003 semi-annual sampling event, additional analysis for three emerging compounds (hexavalent chromium, perchlorate, and 1,4-dioxane) at selected well locations was included in the analytical suite. Perchlorate was also analyzed in wells OW1 and OW1b during the four quarterly sampling events. Analysis for 1,4-dioxane has also been performed at all well locations since the November 2001 quarterly sampling event. Emerging compounds results are summarized in Table 3-7.

Perchlorate was detected in only one well, OW4b, at a concentration of 9.4 ug/l. Hexavalent chromium was detected in wells OW2, OW3, OW4a and OW8 at concentrations of 3.1, 5.4, 12 and 1.1 ug/l, respectively, during the February 2003 semi-annual sampling event.

The compound 1,4-dioxane was detected at high concentrations in groundwater samples collected from on-site well OW1, and ranged from 3,300 ug/l (estimated) to 52,000 ug/l during the quarterly and semi-annual sampling events. The concentrations detected in deeper well OW1b were generally several orders of magnitude less, and ranged from 17 to 60 ug/l. 1,4-dioxane was also detected in groundwater samples collected from well OW8 during the quarterly and semi-annual sampling events. Concentrations declined steadily from 1,000 ug/l in March 2002 to 180 ug/l in February 2003.

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Relatively low concentrations of 1, 4-dioxane were detected in groundwater samples collected from wells OW2, OW3 and OW4a, with maximum detected concentrations of 1.4, 1.2, and 14 ug/l, respectively. 1,4-dioxane was not detected in deeper well OW4b. As was observed for chlorinated VOCs, 1,4-dioxane concentrations were observed to attenuate with increased depth and distance downgradient from the Site.

3.3.5 Biodegradation/Natural Attenuation Parameters

As discussed previously, various biodegradation/natural attenuation parameters were analyzed during the most recent semi-annual sampling event in February 2003. Analysis was performed in the field using field test kits and direct reading instruments, and also by an off-site laboratory. Laboratory results are summarized in Table 3-8, with field results summarized in Table 3-9.

Laboratory Results

Nitrate concentrations ranged from 11 to 8.8 milligrams per liter (mg/l) in samples collected from the water table wells (OW1, OW2, OW3, OW4a, and OW8) to 2.7 mg/l in deeper well OW1b. Nitrate was not detected in deeper well OW4b. Nitrite was detected at a concentration of 1 mg/l at one well location (OW1b).

In accordance with the criteria specified in Section 2.2, samples for methane, ethane, and ethene analyses were collected from water table wells OW1 and OW8, and deeper well OW1b. Concentrations in well OW1 were 4.8 ug/l; 3,200 nanograms per liter (ng/l); and 1,400 ng/l, respectively. Concentrations in deeper well OW1b were 2,400 ug/l; 480 ng/l; and 1,500 ng/l, respectively. Concentrations in well OW8 were 4.7 ug/l; 36 ng/l; and 1,000 ng/l, respectively.

Field Results

As shown in Table 3-9, electrical conductivity measurements ranged from 1,140 micromhos per centimeter (umhos/cm) at well location OW1b to 1,676 umhos/cm at well location OW8. pH measurements ranged from 6.73 at well location OW1 to 7.30 at well location OW4b. Dissolved oxygen measurements for samples collected from source area wells OW1 and OW1b were less than 1 parts per million (ppm). Redox potentials were negative at locations OW1, OW1b, OW4b, and OW8. Carbon dioxide was detected at all sampled locations except for well OW4b. Ferrous iron was detected at well locations OW1, OW1b, OW3, and OW8. Sulfate concentrations ranged from 162.5 mg/l (OW1) to 475 mg/l (OW1b). Chloride concentrations ranged from 26.25 mg/l (OW3) to 72.5 mg/l (OW8).

3.4 Aquifer Testing

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From March 10 through March 14, 2003, CDM conducted four individual constant rate pumping tests at wells OW2, OW3, OW4a, and 8. Each test was approximately four-hours in duration. CDM used an In-Situ Mini-Troll™ datalogger/sensor to monitor water levels at logarithmic intervals in the pumping well during the test activities. CDM also collected manual water level measurements prior to, during, and after the testing period in the pumping well and closest observation wells.

CDM metered the discharge during each test and collected totalizer readings at the beginning and end of the pumping period. Due to some flow adjustments made during testing, a constant discharge rate was difficult to maintain at the locations of OW2, OW3, and OW4a. Totalizer readings were used to estimate the average pumping rate for the entire test period. Therefore, the average pumping rate calculated from the totalizer readings may not reflect the true rate at any specific period during the test. As discussed previously in Section 2.1.2, groundwater samples were collected for laboratory analysis immediately prior to the termination of pumping at each tested well location. The analytical results of samples collected during aquifer testing are discussed below.

3.4.1 Water Quality Sampling and Analysis

As previously discussed, water quality samples for laboratory analysis were collected just prior to the termination of pumping at all well locations which were test pumped (OW2, OW3, OW4a, and OW8) during March 2003.

VOC concentrations in samples collected from wells OW2, OW3, and OW4a during March 2003 were generally comparable to concentrations detected during the

February 2003 semi-annual sampling event. Concentrations of PCE, TCE, 1,1-DCE, 1,1-DCA, 1,2-DCA, and CFM detected in samples collected from well OW8 were generally two to three times higher during March 2003 compared to February 2003. 1,1,1-TCA concentrations in well OW8 increased approximately an order of magnitude from February 2003 to March 2003. Freon 113 and Freon 11 concentrations in well OW8 were comparable during the two sampling events. The concentration of toluene in well OW8 was approximately 20 times higher during March 2003.

The concentration of 1,4-dioxane in the sample collected during March 2003 from well OW8 was 2,600 ug/l, an approximate order-of-magnitude increase compared to the February 2003 result of 240 ug/l. A duplicate sample collected from well OW8 also reported a 1,4-dioxane concentration of 2,600 ug/l. The concentrations of 1,4-dioxane in the other three test pumped wells (OW2, OW3 and OW4a) during March 2003 remained relatively low or non-detected, and were not observed to increase compared to the February 2003 results.

There are several possible reasons for the observed increases in well OW8 during the March 2003 sampling. The higher levels were observed after well OW8 had been pumping for four hours at an increased rate, likely drawing from areas of higher mass closer to the source area on the site. During aquifer testing, well OW8 was pumped at approximately 10.4 gallons per minute (gpm) for 4 hours, with approximately 2,500 gallons of groundwater pumped from the well. During routine groundwater sampling one month earlier in February 2003, the well was purged at approximately 3 gpm for 40 minutes, with a total purge volume of 117 gallons. It is also possible that variations in sampling equipment could have had some effect on the sample. The sample collected immediately prior to the termination of aquifer testing was collected directly from the discharge line. The sample collected during routine groundwater sampling was collected using a disposable bailer lowered to the middle of the perforated section after the portable pump had been removed from the well. This is the standard USEPA-approved procedure which is utilized during routine groundwater sampling of Omega wells. In addition, as discussed below, well OW8 appears to be located within a higher-permeability channel-like deposit which may be more hydraulically connected to higher mass, upgradient areas than wells OW2 and OW3.

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3.4.2 Evaluation of Aquifer Parameters

CDM evaluated aquifer properties from the results of the four pumping tests by analyzing the pumping test drawdown and recovery curves in accordance to the methods described in the CDM Aquifer Hydraulic Tests Standard Operating Procedure (SOP-FL-010) (CDM, July 15, 1993). Table 3-10 summarizes the test results and aquifer properties estimated from the various analyses that were performed. A description of each of the aquifer properties and methods used to estimate the aquifer parameters are provided below.

Drilling logs and well construction details are included in Appendix A and described in Section 3.1. For the purpose of analyzing the pumping test data, CDM reviewed the

well logs and water level data to estimate the saturated thickness of the aquifer at each well location. Based on this review it appears that although the aquifer is confined by about 50 feet of silty clay, it is not completely saturated and, therefore, the shallow groundwater is considered to occur under water table (unconfined) conditions.

Transmissivity is the permeability for the full aquifer thickness and is equivalent to the amount of water flowing through a vertical, one-foot wide strip of the aquifer in one day (under unit gradient). It is estimated using pumping test drawdown and recovery measurements. CDM estimated transmissivity from the pumping test data using manual straight-line curve matching based on the Cooper-Jacob solution as outlined in SOP-FL-010. Figures E-1 through E-4 show the time-drawdown and time-recovery plots for each pumping test and the straight-line curve used to estimate transmissivity based on the Cooper-Jacob method. Additionally, CDM used the AQTESOLVE for Windows pumping test software package to obtain additional transmissivity estimates using Cooper-Jacob and Theis curve matching analytical solutions for comparison and quality assurance. These plots are included as Figures E-5 through E-16. A detailed description of the analytical solutions and various plots are included in Appendix E.

The Theis equation and all derivations used (Cooper-Jacob, t/t') for analyzing the pumping tests are based on the following assumptions (Driscoll, 1986):

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- The water-bearing formation is uniform in character and the hydraulic conductivity is the same in all directions.
- The formation is uniform in thickness and infinite in areal extent.
- The formation receives no recharge from any source.
- The pumped well penetrates, and receives water from, the full thickness of the water-bearing formation.
- The water removed from storage is discharged instantaneously when the head is lowered.
- The pumping well is 100-percent efficient.
- All water removed from the well comes from aquifer storage.
- The water table has no slope.

The assumptions of the Theis equation and its derivations are based on an idealized setting for a pumping test. The hydrogeologic setting and well characteristics at the Omega site do not comply with the assumptions in the Theis equation as follows:

- The water bearing formation does not appear uniform and homogeneous both vertically and aerially. Based on the analysis of the testing data, the aquifer's transmissivity appears to vary across the site and reflect a permeable channel-like feature that trends from OW8 in a NE to SW direction. This channel is no wider than about 120 feet in the NW and SE directions from OW8 based on the lithology description and calculated hydraulic conductivities of OW2 and OW3.

- The water bearing formation receives recharge from local precipitation.

- The pumping wells do not appear to be 100-percent efficient.

- The water table across the site has a gradient of about 0.008 ft/ft.

A break from the assumptions can result in variable differences between the actual and calculated transmissivity and hydraulic conductivity values. CDM addressed this in the following manner:

- The analysis was conducted on the pumping well and the radial distance to the observation point was considered to be equal to the well casing radius (0.2 feet) making effects from the ground water gradient negligible.

- Additional transmissivity estimates are obtained from the recovery curve for each test, thereby removing the factors of pumping efficiency and well storage effects because the well is not pumping. Recovery water levels are returning at a rate allowed by the hydraulic characteristics of the aquifer.

- The calculated transmissivities are combined and averaged from the Theis analysis and its derivation (Cooper-Jacob) for each well.

- The short 4-hour testing duration is to unlikely show affects from local recharge events.

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The recent testing analysis indicates that lower permeability portions of the aquifer at well locations OW2 and OW3 have average transmissivities that range between 10 and 90 square feet per day (ft^2/day) while more permeable portions of the aquifer at well locations OW8 and OW4A have average transmissivities that range between 400 and 4,500 ft^2/day.

Storage coefficient is the volume of water taken into or released from storage per unit change in head per unit area (Driscoll, 1986). Storage coefficients are lower in confined aquifers than in unconfined. This is because, in confined aquifers, pressure is reduced in the aquifer, but the aquifer is not dewatered. Typically, storage coefficients range from 0.01 to 0.30 for unconfined aquifers and 0.001 and lower for confined aquifers. A storage coefficient for the aquifer underlying the Omega site could not be determined using the recent pumping test data because the observation wells monitored during each test did not respond to the pumping.

3.5 Quality Assurance/Quality Control and Data Validation

A variety of Quality Assurance/Quality Control (QA/QC) samples (e.g., duplicates and equipment blanks) were collected during groundwater sampling. In addition, double or triple volume for laboratory QC samples (Matrix Spike/Matrix Spike Duplicate [MS/MSD]) were also collected and submitted to the laboratory. QA/QC sample results are included in the analytical summary tables.

Level IV data packets (CLP-Like) were requested for approximately 10% of the samples per groundwater monitoring event. One level IV data packet per event was subjected to formal data validation. Data validation results are included in Appendix G.

The laboratory provided both hard copy and electronic results. Electronic results were input directly into the project's Access database. Laboratory analytical data were reviewed and evaluated to ensure that they were usable and met the project objectives prior to incorporating the data into the database. To this extent, USEPA's Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review (USEPA, 1999 and 2002, respectively) was used in conjunction with the project work plan to assess overall analytical data quality.

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Laboratory data were reviewed for inclusion and frequency of the necessary QC supporting information. Supporting QC documentation that were evaluated for each analytical report included the following major items:

- sample holding times
- method blanks
- matrix spike/matrix spike duplicate (MS/MSD) recoveries
- relative percent difference (RPD) between MS and MSD
- laboratory control sample (LCS) recoveries
- field quality control sample results

Prior to incorporating the Omega analytical data into the database, the electronic data were checked for accuracy against the hard copy analytical reports. Standard procedure includes contacting the laboratory in the event that discrepancies are discovered, resolving and correcting discrepancies, and reissuing the analytical reports, as necessary. Data validation reports for four Level IV data packets for are presented in Appendix G.

Table 3-1
Omega Chemical Superfund Site
Well Construction Details

Well No.	Casing Dia. (inches)	Boring diameter (inches)	TD drilled (feet bgs)	Screened interval (feet bgs)	Slot Size (inch)	Filter Pack Gradation	Filter Pack Interval	Date Drilled	TD Cased (feet bgs)	Northing feet	Easting feet	GS Elevation (feet msl)	Reference Point Elev. (feet msl)	Reference Point (casing)
OW1	4	10	80	62.5-77.5	0.020	#2/12	59-77.5	Jun-96	80	4101351.3	4274702.0	207.79	210.3	top PVC
OW1b	4	10	130	110-120	0.020	#2/12	99-130	Jun-99	120	4101331.7	4274666.4	205.18	204.98	top PVC
OW2	4	10	85	60-80	0.020	#2/12	55-85	Jun-99	80	4101362.0	4274396.2	201.04	200.1	top PVC
OW3	4	10	85	63-83	0.020	#2/12	55-85	Jun-99	83	4101113.0	4274538.0	196.88	196.33	top of steel
OW4a	4	10	80	49.8-69.8	0.020	#2/12	44.7-75.7	Mar-01	75	4100784.2	4273942.3	182.73	182.47	top of steel
OW4b	4	10	132	112-122.3	0.020	#2/12	109.5-132	Mar-01	127.2	4100782.7	4273932.3	182.63	182.22	top of steel
OW5	4	10	52	30-50	0.020	#2/12	25-51	Aug-01	50	4100291.9	4272058.3	152.68	151.96	top of PVC
OW6	4	10	61.5	38-58	0.020	#2/12	36-59	Mar-01	58	4100352.7	4273577.3	170.94	170.54	top of steel
OW7	4	10	92	70.9-90.9	0.020	#2/12	65-92.5	Mar-02	90.9	4101548.4	4274850.7	213.34	212.01	top of steel
OW8	4	10	81	60.4-80.0	0.020	#2/12	55-81	Mar-02	80.0	4101239.5	4274466.7	199.03	198.42	top of steel

bgs - feet below ground surface
msl - feet above Mean Sea Level
GS - Ground Surface
TD - Total Depth

Dia. - Diameter

Note: northing and easting data per California Coordinate System NAD27

UTM Coordinates Zone 11, NAD 83 (meters) as follows:

	Northing	Easting
OW1	3759242.1	403554.4
OW1b	3759236.3	403543.4
OW2	3759246.6	403461.2
OW3	3759170.1	403503.4
OW4a	3759072.3	403320.6
OW4b	3759071.9	403317.6
OW5	3758929.8	402744.6
OW6	3758942.3	403207.7
OW7	3759301.6	403600.4
OW8	3759209.0	403482.2

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Table 3-2
Omega Chemical Superfund Site
Water Level and Groundwater Elevation Summary

Date	Well ID	OW-1	OW-1b	OW-2	OW-3	OW-4a	OW-4b	0W-5	0W-6	OW-7	OW-8
	TOC Elev (ft MSL)	210.30	204.98	200.10	196.33	182.47	182.22	151.96	170.54	212.01	198.42
05/15/2001	DTW (ft btoc)	74.19	72.30	66.47	62.55	53.60	57.11	--	--	--	--
	GW Elev (ft MSL)	**136.11**	**132.68**	**133.63**	**133.78**	**128.87**	**125.11**	--	--	--	--
06/14/2001	DTW (ft btoc)	74.14	72.53	66.38	62.44	53.36	57.51	--	--	--	--
	GW Elev (ft MSL)	**136.16**	**132.45**	**133.72**	**133.89**	**129.11**	**124.71**	--	--	--	--
07/24/2001	DTW (ft btoc)	74.04	73.36	66.25	62.29	53.31	58.82	--	--	--	--
	GW Elev (ft MSL)	**136.26**	**131.62**	**133.85**	**134.04**	**129.16**	**123.40**	--	--	--	--
08/16/2001	DTW (ft btoc)	74.08	74.18	66.34	62.39	53.70	60.01	26.14	42.54	--	--
	GW Elev (ft MSL)	**136.22**	**130.80**	**133.76**	**133.94**	**128.77**	**122.21**	**125.82**	**128.00**	--	--
09/18/2001	DTW (ft btoc)	74.33	74.75	66.66	62.70	54.35	60.82	27.33	43.25	--	--
	GW Elev (ft MSL)	**135.97**	**130.23**	**133.44**	**133.63**	**128.12**	**121.40**	**124.63**	**127.29**	--	--
10/18/2001	DTW (ft btoc)	74.84	74.83	66.95	62.98	54.76	60.98	27.59	43.69	--	--
	GW Elev (ft MSL)	**135.46**	**130.15**	**133.15**	**133.35**	**127.71**	**121.24**	**124.37**	**126.85**	--	--
11/15/2001	DTW (ft btoc)	74.38	75.49	66.92	62.95	54.87	61.67	28.18	43.95	--	--
	GW Elev (ft MSL)	**135.92**	**129.49**	**133.18**	**133.38**	**127.60**	**120.55**	**123.78**	**126.59**	--	--
12/14/2001	DTW (ft btoc)	74.80	75.05	67.28	63.33	55.43	60.76	28.24	44.41	--	--
	GW Elev (ft MSL)	**135.50**	**129.93**	**132.82**	**133.00**	**127.04**	**121.46**	**123.72**	**126.13**	--	--
01/18/2002	DTW (ft btoc)	74.92	74.12	67.40	63.52	55.55	59.53	27.44	44.39	--	--
	GW Elev (ft MSL)	**135.38**	**130.86**	**132.70**	**132.81**	**126.92**	**122.69**	**124.52**	**126.15**	--	--
02/14/2002	DTW (ft btoc)	74.86	73.56	67.31	63.36	55.21	58.81	26.73	44.00	--	--
	GW Elev (ft MSL)	**135.44**	**131.42**	**132.79**	**132.97**	**127.26**	**123.41**	**125.23**	**126.54**	--	--
03/13/2002	DTW (ft btoc)	75.13	74.52	67.50	63.58	55.30	59.34	26.75	44.01	74.83	65.61
	GW Elev (ft MSL)	**135.17**	**130.46**	**132.60**	**132.75**	**127.17**	**122.88**	**125.21**	**126.53**	**137.18**	**132.81**
04/19/2002	DTW (ft btoc)	75.16	NM	67.52	63.61	55.35	60.02	27.12	44.12	74.93	65.69
	GW Elev (ft MSL)	**135.14**	**NM**	**132.58**	**132.72**	**127.12**	**122.20**	**124.84**	**126.42**	**137.08**	**132.73**
08/20/2002	DTW (ft btoc)	75.97	77.04	68.30	64.47	56.80	63.64	30.03	45.70	75.86	66.46
	GW Elev (ft MSL)	**134.33**	**127.94**	**131.80**	**131.86**	**125.67**	**118.58**	**121.93**	**124.84**	**136.15**	**131.96**
02/19/2003	DTW (ft btoc)	76.70	77.04	69.44	65.58	58.58	62.46	30.85	47.49	76.89	67.37
	GW Elev (ft MSL)	**133.60**	**127.94**	**130.66**	**130.75**	**123.89**	**119.76**	**121.11**	**123.05**	**135.12**	**131.05**

TOC - Top of Casing
Elev - Elevation
ft MSL - feet mean sea level
DTW - Depth to Water
ft btoc - feet below top of casing
GW Elev - Groundwater Elevation

Table 3-3
Omega Chemical Superfund Site
Chlorinated VOCs Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	PCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCA	1,2-DCA	1,2-DCB	CBN	CTC	CFM	MC	Freon 113	Freon 11	VC
OW1	62.5 - 77.5																			
	06/06/1996	ORIG	81000	3400	12000	500 U		3600	500 U	500 U	500 U	2600	500 U	500 U	500 U	3200	15000	1400	990	500 U
	07/02/1999	ORIG	23000	1300	2100	4.6	2.6	1200	[illegible]	160	86	120	0.97	2	3.6	400	110	1300	550	2.1
	05/16/2001	ORIG	86000	2400	8900	20 U	20 U	2700	20 U	100	130	87	20 U	20 U	10 U	500	490	720	410	10 U
	05/16/2001	N	3.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	08/17/2001	ORIG	54000	2000	5800	100 U	100 U	2100	100 U	100 U	100 U	62	100 U	100 U	50 U	380	500 U	1400	620	50 U
	11/15/2001	ORIG	33000	1200	2200	2.2	4.7	1300	[illegible]	74	54	40	1 U	1.8	0.5 U	280	21	1400	590	0.5 U
	02/14/2002	ORIG	30000	1200	2200	100 U	100 U	1200	100 U	100 U	100 U	50 U	100 U	100 U	50 U	280	500 U	1300	480	50 U
	08/20/2002	ORIG	42000	1900	3100	200 U	200 U	1300	200 U	200 U	200 U	100 U	200 U	200 U	100 U	320	1000 U	1100	600	100 U
	08/20/2002	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	02/19/2003	ORIG	100000	3000	10000	4.7	32	2600	8.6	39	88	84	15	7.8	0.5 U	500	72	510	120	0.5 U
OW1b	110 - 120																			
	07/02/1999	ORIG	180 R	11	7.4	0.5 U	1 U	11	0.5 U	0.65	2.4	8.8	0.5 U	1 U	0.5 U	6.6	10 U	12	2.9	0.5 U
	07/02/1999	N	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	10 U	5 U	0.5 U	0.5 U
	07/02/1999	DUP	300	14	7.8	0.5 U	1 U	13	0.5 U	0.78	2.8	10	0.5 U	1 U	0.5 U	7.7	10 U	12	3	0.5 U
	05/16/2001	ORIG	62	2.4	1 U	1 U	1 U	1.9	2.7	1 U	1 U	2.9	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	05/16/2001	DUP	56	1.9	1 U	1 U	1 U	1 U	2.4	1 U	1 U	2.2	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	08/17/2001	ORIG	29	1 U	1 U	1 U	1 U	1 U	1.7	1 U	1 U	1.2	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	11/16/2001	ORIG	60	5.6	6	1 U	1 U	1.6	1.4	1 U	1 U	1	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	02/14/2002	ORIG	28	1 U	1 U	1 U	1 U	1 U	1.1	1 U	1 U	0.69	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	08/20/2002	ORIG	41	1.4	1 U	1 U	1 U	1.1	1 U	1 U	1 U	0.76	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	02/19/2003	ORIG	45	2.2	1 U	1 U	1 U	3.1	1 U	1 U	1 U	0.64	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.6

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Chlorinated VOCs Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	PCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCA	1,2-DCA	1,2-DCB	CBN	CTC	CFM	MC	Freon 113	Freon 11	VC
OW2	60 - 80																			
	07/02/1999	ORIG	1300	240	8.5	2 U	4 U	680	2 U	2 U	2.8	2 U	2 U	4 U	2 U	4 U	40 U	2600	610	2 U
	05/15/2001	ORIG	780	150	10 U	10 U	10 U	500	10 U	10 U	10 U	5 U	10 U	10 U	5 U	10 U	50 U	1100	370	5 U
	08/17/2001	ORIG	620	110	2	1 U	1 U	360	1 U	1 U	1.1	0.5 U	1 U	1 U	0.57	1 U	5 U	1400	330	0.5 U
	11/16/2001	ORIG	730	130	2.6	1 U	1 U	390	1 U	1 U	1.5	0.5 U	1 U	1 U	0.61	1 U	5 U	1600	390	0.5 U
	02/15/2002	ORIG	710	110	2.1	1 U	1 U	350	1 U	1 U	1.5	0.5 U	1 U	1 U	0.79	1.2	5 U	1400	380	0.5 U
	08/21/2002	ORIG	610	120	4 U	4 U	4 U	350	4 U	4 U	4 U	2 U	4 U	4 U	2 U	4 U	20 U	1400	310	2 U
	02/19/2003	ORIG	1300	150	5.9	1 U	1 U	790	1 U	1 U	1.9	0.5 U	1 U	1 U	0.5 U	1.9	5 U	820	280	0.5 U
	03/10/2003	ORIG	1400	160	3.7	2 U	2 U	680	2 U	2 U	2.1	1 U	2 U	2 U	1 U	2.5	10 U	660	240	1 U
OW3	63 - 83																			
	07/02/1999	ORIG	670	170	28	2 U	4 U	1200	2 U	2 U	2 U	2 U	2 U	4 U	2 U	4 U	40 U	800	410	2 U
	05/16/2001	ORIG	2100	270	33	20 U	20 U	1700	20 U	20 U	20 U	10 U	20 U	20 U	10 U	20 U	100 U	430	380	10 U
	08/17/2001	ORIG	1800	200	22	4 U	4 U	1500	4 U	4 U	4 U	2 U	4 U	4 U	2 U	12	20 U	520	330	2 U
	11/15/2001	ORIG	1300	180	17	1 U	1 U	1200	1 U	1 U	1.6	0.5 U	1 U	1 U	0.66	6.5	5 U	530	300	0.5 U
	02/15/2002	ORIG	1400	180	14	4 U	4 U	1100	4 U	4 U	4 U	2 U	4 U	4 U	2 U	7.7	20 U	530	280	2 U
	08/20/2002	ORIG	200	160	12	4 U	4 U	130	4 U	4 U	4 U	2 U	4 U	4 U	2 U	7.4	20 U	360	230	2 U
	02/20/2003	ORIG	1500	170	9.5	4 U	4 U	1100	4 U	4 U	4 U	2 U	4 U	4 U	2 U	7	20 U	450	320	2 U
	02/20/2003	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	03/13/2003	ORIG	1800	170	8.9	4 U	4 U	1400	4 U	4 U	4 U	2 U	4 U	4 U	2 U	6.8	20 U	430	250	2 U

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Chlorinated VOCs Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	PCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCA	1,2-DCA	1,2-DCB	CBN	CTC	CFM	MC	Freon 113	Freon 11	VC
OW4A	49.8 - 69.8																			
	05/16/2001	ORIG	1000	120	20 U	20 U	20 U	1500	20 U	20 U	20 U	10 U	20 U	20 U	10 U	39	100 U	580	260	10 U
	08/16/2001	ORIG	1300	180	21	1 U	1 U	2400	1 U	1 U	1.7	3.5	1 U	1 U	1	62	5 U	910	340	0.5 U
	11/16/2001	ORIG	9.8	30	1 U	1 U	1 U	10	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	32	5 U	5.3	2.2	0.5 U
	11/16/2001	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	02/15/2002	ORIG	130	48	1.6	1 U	1 U	230	1 U	1 U	1 U	0.69	1 U	1 U	0.5 U	33	5 U	160	62	0.5 U
	02/15/2002	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	08/21/2002	ORIG	87	50	1 U	1 U	1 U	120	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	37	5 U	88	44	0.5 U
	02/20/2003	ORIG	37	30	1 U	1 U	1 U	79	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	21	5 U	53	23	0.5 U
	03/14/2003	ORIG	250	25	1 U	1 U	1 U	210	1 U	1 U	1 U	0.77	1 U	1 U	0.5 U	13	5 U	150	69	0.5 U
OW4B	112 - 122.3																			
	04/03/2001	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	05/16/2001	ORIG	1.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	08/16/2001	ORIG	1.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	11/16/2001	ORIG	1.9	1 U	1 U	1 U	1 U	1.2	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	02/15/2002	ORIG	1.9	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	08/21/2002	ORIG	12	7.9	1 U	1 U	1 U	22	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	86	14	0.5 U
	02/20/2003	ORIG	41	3.7	1 U	1 U	1 U	14	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	30	1 U	0.5 U

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Omega Chemical Superfund Site
Chlorinated VOCs Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	PCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCA	1,2-DCA	1,2-DCB	CBN	CTC	CFM	MC	Freon 113	Freon 11	VC
OW5	30 - 50																			
	08/17/2001	ORIG	150	510	2 U	2 U	2 U	22	31	2 U	2 U	1 U	2 U	2 U	1 U	2 U	10 U	220	52	1 U
	08/17/2001	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	08/17/2001	DUP	190	550	1 U	1 U	1 U	35	36	1.4	1 U	0.5 U	1 U	1 U	0.5 U	2.4	5 U	240	66	0.5 U
	11/16/2001	ORIG	130	470	1 U	1 U	1 U	24	26	1 U	1 U	0.5 U	1 U	1 U	0.5 U	2.1	5 U	180	46	0.5 U
	11/16/2001	DUP	130	570	1 U	1 U	1 U	18	30	1.6	1 U	0.5 U	1 U	1 U	0.5 U	2.3	5 U	170	47	0.5 U
	02/15/2002	ORIG	130	390	1 U	1 U	1 U	22	30	1.3	1 U	0.5 U	1 U	1 U	0.5 U	2	5 U	230	40	0.5 U
	02/15/2002	DUP	120	410	1 U	1 U	1 U	18	32	1.8	1 U	0.5 U	1 U	1 U	0.5 U	2.1	5 U	230	39	0.5 U
	08/22/2002	ORIG	150	300	1 U	1 U	1 U	37	34	1.2	1 U	0.5 U	1 U	1 U	0.5 U	2.1	5 U	200	61	0.5 U
	02/21/2003	ORIG	440	810	1 U	1 U	1 U	98	97	5.1	1 U	2.6	1 U	1 U	0.5 U	26	5 U	470	120	0.5 U
OW6	38 - 58																			
	05/16/2001	ORIG	28	4	4 U	4 U	4 U	39	4 U	4 U	4 U	2 U	4 U	4 U	2 U	4 U	20 U	160	96	2 U
	08/17/2001	ORIG	24	4 U	4 U	4 U	4 U	39	4 U	4 U	4 U	2 U	4 U	4 U	2 U	4 U	20 U	180	93	2 U
	11/16/2001	ORIG	140	22	2.9	1 U	1 U	190	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	5.7	5 U	770	440	0.5 U
	02/15/2002	ORIG	69	13	1.3	1 U	1 U	120	1 U	1 U	1 U	0.5 U	1 U	1 U	1.1	3.2	5 U	530	190	0.5 U
	08/21/2002	ORIG	21	3.9	1 U	1 U	1 U	35	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1.1	5 U	140	95	0.5 U
	02/21/2003	ORIG	72	15	1 U	1 U	1 U	91	1 U	1 U	1 U	0.5 U	1 U	1 U	0.71	3.3	5 U	460	350	0.5 U
OW7	70.9 - 90.9																			
	03/27/2002	ORIG	5.6	1.2	1 U	1 U	1 U	0.61 J	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	62	36	0.5 U
	03/27/2002	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	0.23 J	5 U	1 U	0.5 U
	08/21/2002	ORIG	8.2	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	51	44	0.5 U
	02/21/2003	ORIG	12	1.8	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	44	36	0.5 U

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Table 3-3
Omega Chemical Superfund Site
Chlorinated VOCs Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	PCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCA	1,2-DCA	1,2-DCB	CBN	CTC	CFM	MC	Freon 113	Freon 11	VC
OW8	60.4 - 80																			
	03/27/2002	ORIG	11000	930	50	33	2.2	1600	6.3	92	48	110	1.7	1.2	0.5 U	390	36	2500	820	0.5 U
	08/22/2002	ORIG	9400	910	49	20 U	20 U	1700	20 U	81	46	49	20 U	20 U	10 U	350	100 U	2100	1000	10 U
	08/22/2002	DUP	10000	840	47	25	1.9	1500	9.7	66	45	86	1.2	1.1	0.5 U	340	140	5 U	910	0.5 U
	02/20/2003	ORIG	11000	910	50	39	20 U	1200	20 U	58	46	240	20 U	20 U	10 U	550	930	2300	1000	10 U
	02/20/2003	DUP	13000	1000	48	58	25 U	1300	25 U	73	60	310	25 U	25 U	12 U	790	2400	2500	990	12 U
	03/11/2003	ORIG	34000	2200	390	100 U	100 U	2600	100 U	110	100	820	100 U	100 U	50 U	2000	6500	2800	810	50 U
	03/11/2003	DUP	36000	2100	380	100 U	100 U	2500	100 U	100 U	100 U	790	100 U	100 U	50 U	2000	6300	2600	820	50 U
QC	-																			
	08/21/2002	M	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	02/19/2003	M	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	02/20/2003	M	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U
	02/21/2003	M	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	1 U	5 U	5 U	1 U	0.5 U

Notes:

Concentrations are reported in micrograms per liter (ug/l).
Only chlorinated compounds detected in one or more groundwater samples are reported.
Samples analyzed by EPA Methods 502.2, 8240 or 8260.
If blank, analyte was either not reported or not analyzed.

Screened interval is shown in feet below ground surface.

U = Not detected at a concentration greater than the reporting limit shown.
H = Estimated result; sample analyzed after holding time.
R = Result not usable based on data validation.

PCE = Tetrachloroethene; TCE = Trichloroethene; TCA = Trichloroethane; PCA = 1,1,1,2-Tetrachloroethane; DCE = Dichloroethene; DCA = Dichloroethane; DCB = Dichlorobenzene; CBN = Chlorobenzene; CTC = Carbon tetrachloride; CFM = Chloroform; MC = Methylene chloride; Freon 113 = 1,1,2-Trichloro-1,2,2-trifluoroethane; Freon 11 = Trichlorofluoromethane; and VC = Vinyl chloride.

Sample Type:
ORIG = Original sample
DUP = Duplicate sample
M = Trip Blank
N = Equipment decontamination blank

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Table 3-4
Omega Chemical Superfund Site
Aromatic and Other VOCs Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval	Sample Date	Sample Type	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	sec-Butyl benzene	Isopropyl benzene	Acetone	2-Propanol	MTBE
OW1	62.5 - 77.5											
	06/06/1996	ORIG	500 U	500 U	500 U	2000 U	2000 U			10000 U		
	07/02/1999	ORIG	10	14	1.5	1.5	3	0.5 U	1 U	10 U		
	05/16/2001	ORIG	15	23	20 U	20 U	20 U	20 U	20 U	200 U		20 U
	05/16/2001	N	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	08/17/2001	ORIG	50 U	100 U	100 U	100 U	100 U	100 U	100 U	1000 U		100 U
	11/15/2001	ORIG	7.5	2.6	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	02/14/2002	ORIG	50 U	100 U	100 U	100 U	100 U	100 U	100 U	1000 U		100 U
	08/20/2002	ORIG	100 U	200 U	200 U	200 U	200 U	200 U	200 U	2000 U		200 U
	08/20/2002	N	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	02/19/2003	ORIG	15	24	8.1	1	3.4	1 U	2.3	10 U		1 U
OW1b	110 - 120											
	07/02/1999	ORIG	0.5 U	0.5 U	1 U	1 U	1 U	0.5 U	1 U	10 U		
	07/02/1999	N	0.5 U	0.5 U	1 U	1 U	1 U	0.5 U	1 U	10 U		
	07/02/1999	DUP	0.5 U	0.5 U	1 U	1 U	1 U	0.5 U	1 U	10 U		
	05/16/2001	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	16		1 U
	05/16/2001	DUP	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	08/17/2001	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	11/16/2001	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	02/14/2002	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	08/20/2002	ORIG	0.55	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	02/19/2003	ORIG	0.62	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
OW2	60 - 80											
	07/02/1999	ORIG	2 U	2 U	4 U	4 U	4 U	2 U	4 U	40 U		
	05/15/2001	ORIG	5 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U		10 U
	08/17/2001	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	11/16/2001	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	02/15/2002	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	08/21/2002	ORIG	2 U	4 U	4 U	4 U	4 U	4 U	4 U	40 U		4 U
	02/19/2003	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	03/10/2003	ORIG	1 U	2 U	2 U	2 U	2 U	2 U	2 U	20 U		2 U
OW3	63 - 83											
	07/02/1999	ORIG	2 U	2 U	4 U	4 U	4 U	2 U	4 U	40 U		
	05/16/2001	ORIG	10 U	20 U	20 U	20 U	20 U	20 U	20 U	200 U		20 U
	08/17/2001	ORIG	2 U	4 U	4 U	4 U	4 U	4 U	4 U	40 U		4 U
	11/15/2001	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	02/15/2002	ORIG	2 U	4 U	4 U	4 U	4 U	4 U	4 U	40 U		4 U
	08/20/2002	ORIG	2 U	4 U	4 U	4 U	4 U	4 U	4 U	40 U		4 U
	02/20/2003	ORIG	2 U	4 U	4 U	4 U	4 U	4 U	4 U	40 U		4 U
	02/20/2003	N	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	03/13/2003	ORIG	2 U	4 U	4 U	4 U	4 U	4 U	4 U	40 U		4 U

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Table 3-4
Omega Chemical Superfund Site
Aromatic and Other VOCs Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval	Sample Date	Sample Type	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	sec-Butyl benzene	Isopropyl benzene	Acetone	2-Propanol	MTBE
OW4A	49.8 - 69.8											
	05/16/2001	ORIG	10 U	20 U	20 U	20 U	20 U	20 U	20 U	200 U		20 U
	08/16/2001	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	11/16/2001	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	11/16/2001	N	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	02/15/2002	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	02/15/2002	N	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	08/21/2002	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	02/20/2003	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	03/14/2003	ORIG	0.5 U	1.4	1 U	1 U	1 U	1 U	1 U	10 U		1 U
OW4B	112 - 122.3											
	04/03/2001	ORIG	0.5 U	1 U	1 U	1.1	1 U	1 U	1 U	28	350	
	05/16/2001	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	120	940	1 U
	08/16/2001	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	470		1 U
	11/16/2001	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1500		1 U
	02/15/2002	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	280	650	1 U
	08/21/2002	ORIG	1.8	1 U	1 U	1 U	1 U	1 U	1 U	240	570	1 U
	02/20/2003	ORIG	0.79	1 U	1 U	1 U	1 U	1 U	1 U	220		1 U
OW5	30 - 50											
	08/17/2001	ORIG	1 U	2 U	2 U	2 U	2 U	2 U	2 U	20 U		2 U
	08/17/2001	N	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	08/17/2001	DUP	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	11/16/2001	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	11/16/2001	DUP	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	02/15/2002	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	02/15/2002	DUP	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	08/22/2002	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	02/21/2003	ORIG	0.53	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
OW6	38 - 58											
	05/16/2001	ORIG	2.8	4 U	4 U	4 U	4 U	4 U	4 U	40 U		270
	08/17/2001	ORIG	2.5	4 U	4 U	4 U	4 U	4 U	4 U	40 U		150
	11/16/2001	ORIG	1.7	1 U	1 U	1 U	1 U	1 U	1 U	10 U		120
	02/15/2002	ORIG	2.4	1 U	1 U	1 U	1 U	1.4	1 U	10 U		92
	08/21/2002	ORIG	0.86	1 U	1 U	1 U	1 U	1 U	1 U	10 U		150
	02/21/2003	ORIG	1.1	1 U	1 U	1 U	1 U	1 U	1 U	10 U		34
OW7	70.9 - 90.9											
	03/27/2002	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	03/27/2002	N	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	08/21/2002	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	02/21/2003	ORIG	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U

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Table 3-4
Omega Chemical Superfund Site
Aromatic and Other VOCs Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval	Sample Date	Sample Type	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	sec-Butyl benzene	Isopropyl benzene	Acetone	2-Propanol	MTBE
OW8	60.4 - 80											
	03/27/2002	ORIG	5.4	1.9	1 U	1 U	0.62 J	1 U	1 U	41		1 U
	08/22/2002	ORIG	10 U	20 U	20 U	20 U	20 U	20 U	20 U	200 U		20 U
	08/22/2002	DUP	5.3	4.7	1 U	1 U	1 U	1 U	1 U	89		1 U
	02/20/2003	ORIG	10 U	44	20 U	20 U	20 U	20 U	20 U	1600		20 U
	02/20/2003	DUP	12 U	120	25 U	25 U	25 U	25 U	25 U	5800		25 U
	03/11/2003	ORIG	50 U	900	100 U	100 U	100 U	100 U	100 U	6300		100 U
	03/11/2003	DUP	50 U	860	100 U	100 U	100 U	100 U	100 U	5800		100 U
QC	-											
	08/21/2002	M	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	02/19/2003	M	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	02/20/2003	M	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U
	02/21/2003	M	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U		1 U

Notes:

Concentrations are reported in micrograms per liter (ug/l).

Screened interval is shown in feet below ground surface.

Only analytes detected in one or more groundwater samples are listed.
U = Not detected at a concentration greater than the reporting limit shown.
H = Estimated result; sample analyzed after holding time.
Samples analyzed by EPA Methods 502.2, 8240 or 8260.
If blank, analyte was either not reported or not analyzed.

MTBE = Methyl tertiary butyl ether

Sample Type:
DUP = Duplicate sample
ORIG = Original sample
M = Trip Blank
N = Equipment decontamination blank

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Table 3-5
Omega Chemical Superfund Site
Pesticide and Semi-Volatile Organic Compound (SVOC) Analytical Summary
Groundwater Analytical Results

Method	Analyte	OW-1				OW-1b			
		5/16/01	8/17/01	11/15/01	2/14/02	5/16/01	8/17/01	11/16/01	2/14/02
EPA 8081A	4,4'-DDD	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
	4,4'-DDE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
	4,4'-DDT	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
	ALDRIN (HHDN)	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
	ALPHA-BHC (A-BHC)	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
	BETA-BHC (B-BHC)	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
	CHLORDANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	DELTA-BHC (C-BHC)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
	DIELDRIN	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
	ENDOSULFAN I	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
	ENDOSULFAN II	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
	ENDOSULFAN SULFATE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
	ENDRIN	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
	ENDRIN ALDEHYDE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
	ENDRINE KETONE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
	GAMMA-BHC (LINDANE)	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
	HEPTACHLOR	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
	HEPTACHLOR EPOXIDE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
	METHOXYCHLOR	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
	TOXAPHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
EPA 8270C	1,2,4-TRICHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	1,2-DICHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	1,3-DICHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	1,4-DICHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	2,4,5- TRICHLOROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	2,4,6-TRICHLOROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	2,4-DICHLOROPHENOL	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	2,4-DIMETHYLPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	2,4-DINITROPHENOL	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
	2,4-DINITROTOLUENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	2,6-DINITROTOLUENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	2-CHLORONAPHTHALENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	2-CHLOROPHENOL	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	2-METHYLNAPHTHALENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	2-METHYLPHENOL	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	2-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	2-NITROPHENOL	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	3,3-DICHLOROBENZIDINE	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U
	3-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	4,6-DINITRO-2-METHYLPHENOL	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U

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Table 3-5
Omega Chemical Superfund Site
Pesticide and Semi-Volatile Organic Compound (SVOC) Analytical Summary
Groundwater Analytical Results

Method	Analyte	OW-1				OW-1b			
		5/16/01	8/17/01	11/15/01	2/14/02	5/16/01	8/17/01	11/16/01	2/14/02
EPA 8270C	4-BROMOPHENYL-PHENYL ETHER	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	4-CHLORO-3-METHYLPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	4-CHLOROANILINE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	4-CHLOROPHENYL-PHENYL ETHER	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	4-METHYLPHENOL	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	4-NITROANILINE	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
	4-NITROPHENOL	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
	ACENAPHTHENE (ETHYLENE NAPH	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ACENAPHTHYLENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ANILINE (PHENYLAMINE) (AMINOBE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ANTHRACENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	AZOBENZENE	20 U	20 U	20 U		20 U	20 U	20 U	
	BENZIDINE	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
	BENZO(A)ANTHRACENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	BENZO(A)PYRENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	BENZO(B)FLUORANTHENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	BENZO(G,H,I)PERYLENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	BENZO(K)FLUORANTHENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	BENZOIC ACID	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
	BENZYL ALCOHOL (PHENYLMETHA	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	BIS(2-CHLOROETHOXY)METHANE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	BIS(2-CHLOROETHYL)ETHER	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	BIS(2-CHLOROISOPROPYL)ETHER	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	BIS(2-ETHYLHEXYL)PHTHALATE	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
	BUTYLBENZYL PHTHALATE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	CHRYSENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	DI-N-BUTYLPHTHALATE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	DI-N-OCTYL PHTHALATE (DIOCTYL	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U
	DIBENZO(A,H)ANTHRACENE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	DIBENZOFURAN (DIPHENYLENE OXI	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	DIETHYL PHTHALATE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	DIMETHYL PHTHALATE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	FLUORANTHENE (IDRYL)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	FLUORENE (ALPHA-DIPHENYLENEM	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	HEXACHLOROBENZENE (PERCHLO	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	HEXACHLOROBUTADIENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	HEXACHLOROCYCLOPENTADIENE	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U
	HEXACHLOROETHANE (PERCHLOR	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	INDENO(1,2,3-C,D)PYRENE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	ISOPHORONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

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Table 3-5
Omega Chemical Superfund Site
Pesticide and Semi-Volatile Organic Compound (SVOC) Analytical Summary
Groundwater Analytical Results

		OW-1				OW-1b			
Method	Analyte	5/16/01	8/17/01	11/15/01	2/14/02	5/16/01	8/17/01	11/16/01	2/14/02
EPA 8270C	N-NITROSODI-N-PROPYLAMINE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	N-NITROSODIPHENYLAMINE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	NAPHTHALENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	NITROBENZENE (OIL OF MIRBANE)	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U
	PENTACHLOROPHENOL (PCP)	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U
	PHENANTHRENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	PHENOL	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	PYRENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Notes:

All concentrations are reported in micrograms per liter (ug/l)
U = Not detected at a concentration greater than the reporting limit shown

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Table 3-6
Omega Chemical Superfund Site
Metals Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval	Sample Date	Sample Type	Total/ Dissolved	Ag	As	Ba	Be	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Sb	Se	Tl	V	Zn
OW1	62.5 - 77.5																			
	05/16/2001	ORIG	Total	2 U	7.4	81	1 U	2 U	5.1	8.1	4.2	0.2 U	22	45	2 U	4 U	24	2 U	14	40 U
			Diss	1 U	6.7	55	0.5 U	1 U	[illegible]	1 U	2 U	0.2 U	22	30	1 U	2 U	24	1 U	1.8	20 U
	08/17/2001	ORIG	Total	1 U	6.6	79	0.5 U	1.6	4.3	[illegible]	5.3	0.2 U	22	32	1.2	2 U	25	1 U	13	20 U
			Diss	1 U	4	51	0.5 U	1.1	2.7	1 U	2 U	0.2 U	22	23	1 U	2 U	21	1 U	4.2	20 U
	11/15/2001	ORIG	Total	2 U	2.7	55	1 U	2 U	[illegible]	2 U	4 U	0.2 U	23	21	2 U	4 U	19	2 U	7.7	40 U
			Diss	2 U	2.7	50	1 U	2 U	[illegible]	2 U	4 U	0.2 U	21	22	2 U	4 U	21	2 U	5.6	40 U
	02/14/2002	ORIG	Total	1 U	3.4	51	0.5 U	1 U	2.5	1.4	2	0.2 U	21	22	1 U	2 U	21	1 U	4.9	20 U
			Diss	1 U	3.2	52	0.5 U	1 U	2.4	1 U	9.3	0.2 U	21	23	1 U	2 U	20	1 U	4.7	20 U
OW1b	110 - 120																			
	05/16/2001	ORIG	Total	1 U	2.3	20	0.5 U	1 U	[illegible]	1.8	5.9	0.2 U	49	6.8	1 U	2 U	2.6	1 U	2.7	120
			Diss	1 U	1.7	12	0.5 U	1 U	1 U	1 U	2 U	0.2 U	46	1.7	1 U	2 U	3.1	1 U	1.1	20 U
	05/16/2001	DUP	Total	1 U	2.6	22	0.5 U	1 U	1.3	2.3	7.4	0.2 U	47	8.5	2.9	2 U	2.9	1 U	2.8	130
			Diss	1 U	1.9	11	0.5 U	1 U	1 U	1 U	2 U	0.2 U	45	1.7	1 U	2 U	3.3	1 U	1.2	20 U
	08/17/2001	ORIG	Total	1 U	2.2	31	0.5 U	1 U	1.[illegible]	[illegible]	5	0.2 U	55	6.3	1 U	2 U	5.8	1 U	2.4	86
			Diss	1 U	1 U	22	0.5 U	1 U	1 U	1 U	2 U	0.2 U	59	2.8	1 U	2 U	4.8	1 U	1 U	20 U
	11/16/2001	ORIG	Total	2 U	2 U	30	1 U	2 U	2 U	2 U	4 U	0.2 U	68	3.9	2 U	4 U	6.2	2 U	2.9	54
			Diss	2 U	2 U	24	1 U	2 U	2 U	2 U	4 U	0.2 U	68	8.1	2 U	4 U	6.5	2 U	2 U	40 U
	02/14/2002	ORIG	Total	1 U	2.7	53	0.5 U	1 U	2.4	[illegible]	[illegible]	0.2	64	14	1.4	2 U	5.9	1 U	6.8	260
			Diss	1 U	1 U	22	0.5 U	1 U	1 U	1 U	2 U	0.2 U	68	4	1 U	2 U	5.9	1 U	1 U	20 U

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Notes:

Concentrations are reported in micrograms per liter (ug/l).

Screened interval is shown in feet below ground surface.

U = Not detected at a concentration greater than the reporting limit shown.

All metals (except mercury) analyzed by EPA Method 6020; Mercury analyzed by EPA Method 7470.

Sample Type:
ORIG = Original sample
DUP = Duplicate sample

Ag = Silver; As = Arsenic; Ba = Barium; Be = Beryllium; Cd = Cadmium; Co = Cobalt; Cr = Chromium; Cu = Copper; Hg = Mercury; Mo = Molybdenum; Ni = Nickel; Pb = Lead; Sb = Antimony; Tl = Thallium; V = Vanadium; Zn = Zinc.

Table 3-7
Omega Chemical Superfund Site
Cyanide, Hexavalent Chromium, Perchlorate and 1,4-Dioxane Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval		Sample Date	Sample Type	Cyanide	Hexavalent Chromium	Perchlorate	1,4-Dioxane
OW1	62.5 - 77.5	05/16/2001	ORIG	25 U		4 U	
		08/17/2001	ORIG	25 U		4 U	
		11/15/2001	ORIG			4 U	3300 E
		02/14/2002	ORIG	25 U		4 U	11000 E
		08/20/2002	ORIG				4100 E
		08/20/2002	N				0.63
		02/19/2003	ORIG		0.3 U	4 U	52000
OW1b	110 - 120	05/16/2001	ORIG	25 U		4 U	
		05/16/2001	DUP	25 U		4 U	
		08/17/2001	ORIG	25 U		4 U	
		11/16/2001	ORIG			4 U	57
		02/14/2002	ORIG	25 U		4 U	41
		08/20/2002	ORIG				60
		02/19/2003	ORIG		0.3 U	4 U	17
OW2	60 - 80	11/16/2001	ORIG				0.5 U
		02/15/2002	ORIG				0.54 U
		08/21/2002	ORIG				1
		02/19/2003	ORIG		3.1	4 U	1.4
		03/10/2003	ORIG				0.5 U
OW3	63 - 83	11/15/2001	ORIG				1
		02/15/2002	ORIG				1.1
		08/20/2002	ORIG				1.2
		02/20/2003	ORIG		5.4	4 U	0.5 U
		02/20/2003	N		0.3 U	4 U	0.5 U
		03/13/2003	ORIG				1.2
OW4A	49.8 - 69.8	11/16/2001	ORIG				4.9
		02/15/2002	ORIG				11
		08/21/2002	ORIG				14
		02/20/2003	ORIG		12	4 U	0.88
		03/14/2003	ORIG				1.8
OW4B	112 - 122.3	11/16/2001	ORIG				0.53 U
		02/15/2002	ORIG				0.51 U
		08/21/2002	ORIG				0.5 U
		02/20/2003	ORIG		0.3 U	9.4	0.5 U

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Table 3-7
Omega Chemical Superfund Site
Cyanide, Hexavalent Chromium, Perchlorate and 1,4-Dioxane Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval		Sample Date	Sample Type	Cyanide	Hexavalent Chromium	Perchlorate	1,4-Dioxane
OW5	30 - 50	11/16/2001	ORIG				0.76
		11/16/2001	DUP				0.88
		02/15/2002	ORIG				1.1
		02/15/2002	DUP				0.98
OW6	38 - 58	11/16/2001	ORIG				4
		02/15/2002	ORIG				0.86
OW7	70.9 - 90.9	03/27/2002	ORIG				0.5 U
OW8	60.4 - 80	03/27/2002	ORIG				1000
		08/22/2002	ORIG				830
		08/22/2002	DUP				840
		02/20/2003	ORIG		1.1	4 U	240
		02/20/2003	DUP		0.86	4 U	180
		03/11/2003	ORIG				2600
		03/11/2003	DUP				2600

Notes:

Concentrations are reported in micrograms per liter (ug/l).

U = Not detected at a concentration greater than the reporting limit shown.
E = *Estimated result. Concentration exceeds instrument's upper calibration range.*

Screened interval is shown in feet below ground surface.

Cyanide analyzed by EPA Method 335.2; perchlorate by EPA Method 300 modified or Method 314 (2003 results); 1,4-dioxane analyzed by EPA Method 8270 modified; and hexavalent chromium analyzed by EPA Method 218.6.

Sample Type:
DUP = Duplicate sample
ORIG = Original sample
N = Equipment decontamination blank

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Table 3-8
Omega Chemical Superfund Site
Biodegradation and Natural Attenuation Parameters
Groundwater Analytical Results

Well ID/ Screened Interval		Sample Date	Sample Type	Methane (ug/l)	Ethane (ng/l)	Ethene (ng/l)	Nitrate (as N) (mg/l)	Nitrite (as N) (mg/l)
OW1	62.5 - 77.5	02/19/2003	ORIG	4.8	3200	1400	11	0.3 U
OW1b	110 - 120	02/19/2003	ORIG	2400	480	1500	2.7	1
OW2	60 - 80	02/19/2003	ORIG				11	0.3 U
OW3	63 - 83	02/20/2003	ORIG				8.8	0.3 U
		02/20/2003	N				0.11 U	0.15 U
OW4A	49.8 - 69.8	02/20/2003	ORIG				11	0.3 U
OW4B	112 - 122.3	02/20/2003	ORIG				0.11 U	0.15 U
OW8	60.4 - 80	02/20/2003	ORIG	4.7	36	1000	9.3	0.75 U
		02/20/2003	DUP	4.5	47	1400	9.8	0.75 U

Notes:

U = Not detected at a concentration greater than the reporting limit shown.
ug/l = micrograms per liter
ng/l = nanograms per liter
mg/l = milligrams per liter

Screened interval is shown in feet below ground surface.

Methane analyzed by Method AM20GAX; ethane and ethene analyzed by Method AM18; nitrate and nitrite analyzed by EPA Method 300.0.

Sample Type:
DUP = Duplicate sample
ORIG = Original sample
N = Equipment decontamination blank

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Table 3-9
Omega Chemical Superfund Site
Biodegradation, Natural Attenuation, and Other Field Results

Well No.	Date	pH	Electrical Conductivity (umhos/cm)	Turbidity (NTUs)	Dissolved Oxygen (ppm)	Redox Potential (mV)	Alkalinity (as $CaCO_3$)	Hydrogen Sulfide	Carbon Dioxide (as $CaCO_3$)	Ferrous Iron	Sulfate	Chloride
OW1	02/19/2003	6.73	1629	12	0.44	-15.8	590	0.1272	97.5	0.215	162.5	70
OW1b	02/19/2003	7.4	1140	83	0.30	-151.0	230	0.04982	17.5	0.245	475	47.5
OW2	02/19/2003	7.0	1339	5	3.25	87.1	360	0.00954	57.5	<0.01	295	46.25
OW3	02/20/2003	6.94	1524	49	4.5	4.8	400	0.01325	55	0.105	355	26.25
OW4a	02/20/2003	7.04	1448	1	3.29	84.6	550	0.00212	77.5	<0.01	222.5	47.5
OW4b	02/20/2003	7.30	1441	1	3.08	-2.8	90	0.04081	<1.25	<0.01	165	41.25
OW8	02/20/2003	6.89	1676	3	1.57	-155.1	440	0.04876	65	0.43	347.5	72.5

Note: Electrical Conductivity, pH, Turbidity, Dissolved Oxygen, and Redox Potential by Direct Reading Instrument, units as indicated.
Alkalinity, Hydrogen Sulfide, Carbon Dioxide, Ferrous Iron, Sulfate and Chloride by Hach Test Kit, all concentrations in milligrams per liter (mg/l).

mV = millivolts
ppm = parts per million
NTU = Nephelometric Turbidity Units
umhos/cm = micromhos per centimeter
$CaCO_3$ = Calcium Carbonate

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Table 3-10
Estimated Aquifer Parameters

Well	Saturated Thickness (ft)[1]	Pumping			Manual Transmissivity (ft^2/day)[3]		AQTESOLV Transmissivity (ft^2/day)[4]			Ave T	Ave K
		Duration (min)	Average Rate (gpm)[2]	Total Drawdown (ft)	Time Drawdown (Cooper-Jacob)	Time Recovery (Cooper-Jacob)	Time Drawdown (Cooper-Jacob)	Time Drawdown (Theis)	t/t[1] Recovery (Theis)	ft^2/day	ft/day
OW2	18	240	2.3	9.23	48	68	84	104	178	96	5
OW3	22	240	1.34	11.25	15	14	15	15	12	14	1
OW8	13	240	10.4	2.89	399	966 [5]	446	421	1,225 [5]	422	32
OW4a	23	240	10.3	2.29	4,555	4,544	6,117	4,315	3,027	4,512	196

Notes:
[1] Saturated thickness estimated from well lithologic logs.
[2] Average pumping rates based on beginning and ending totalizer readings during test pumping.
[3] Determined by straight line curve analysis in accordance with SOP-FL-010.
[4] Determined using AQTESOL for Windows Version 2.12 program (HydroSOLVE, Inc.).
[5] Values not included in average and may be elevated due to backflow of water into the well during recovery due to a leaking check valve.

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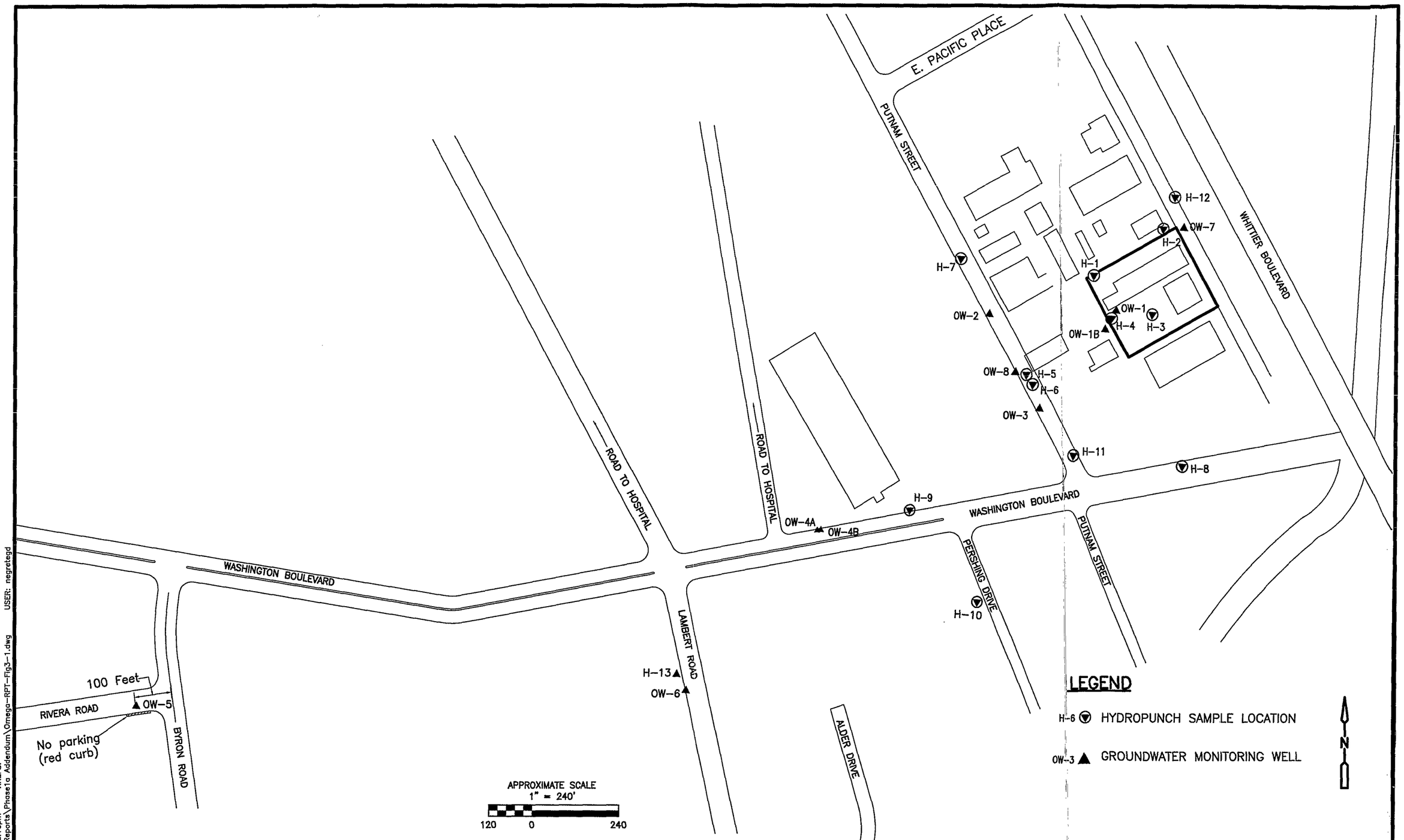

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Monitoring Well Locations

Figure 3-1

CDM

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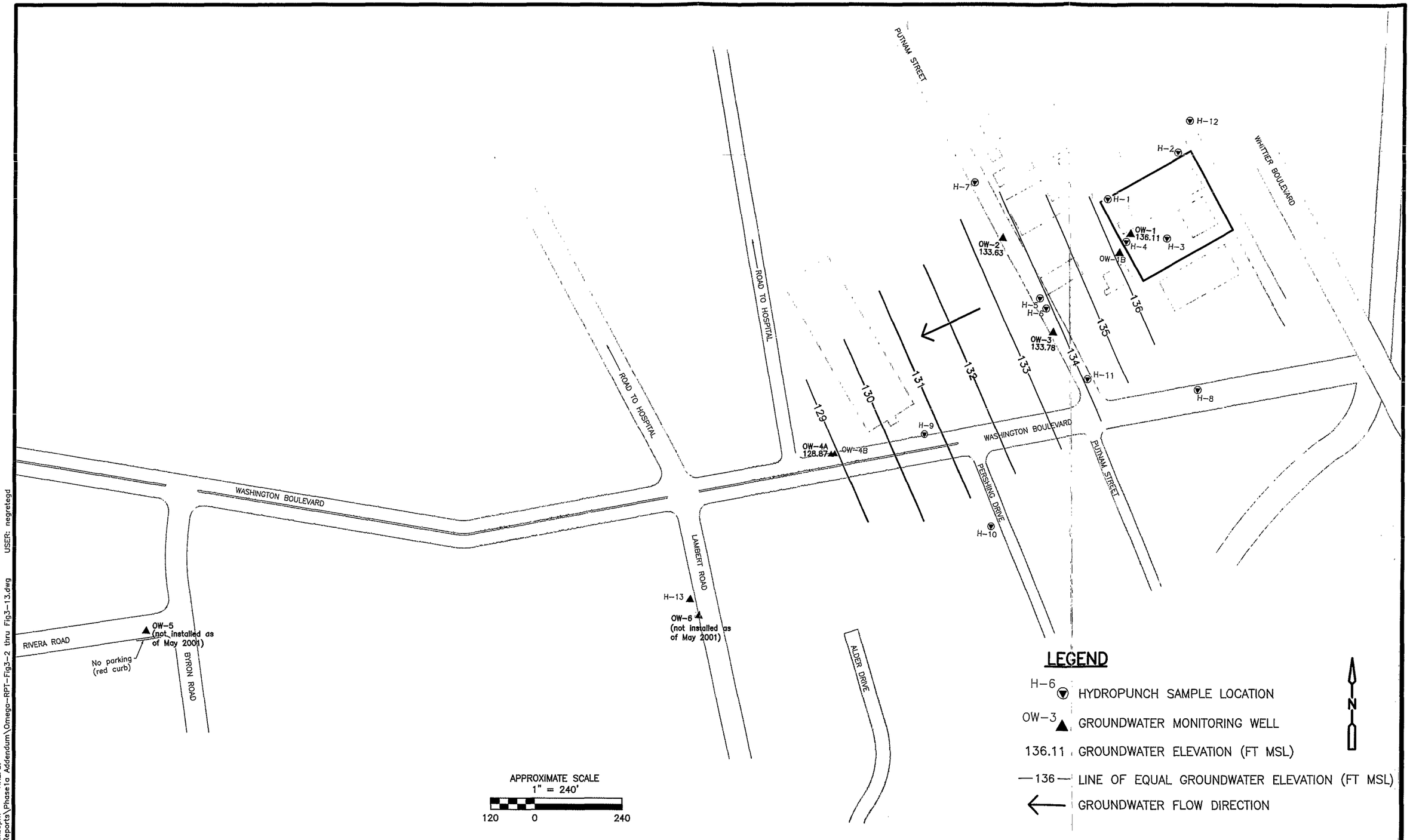

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Groundwater Contour Map
May 2001

Figure 3-2

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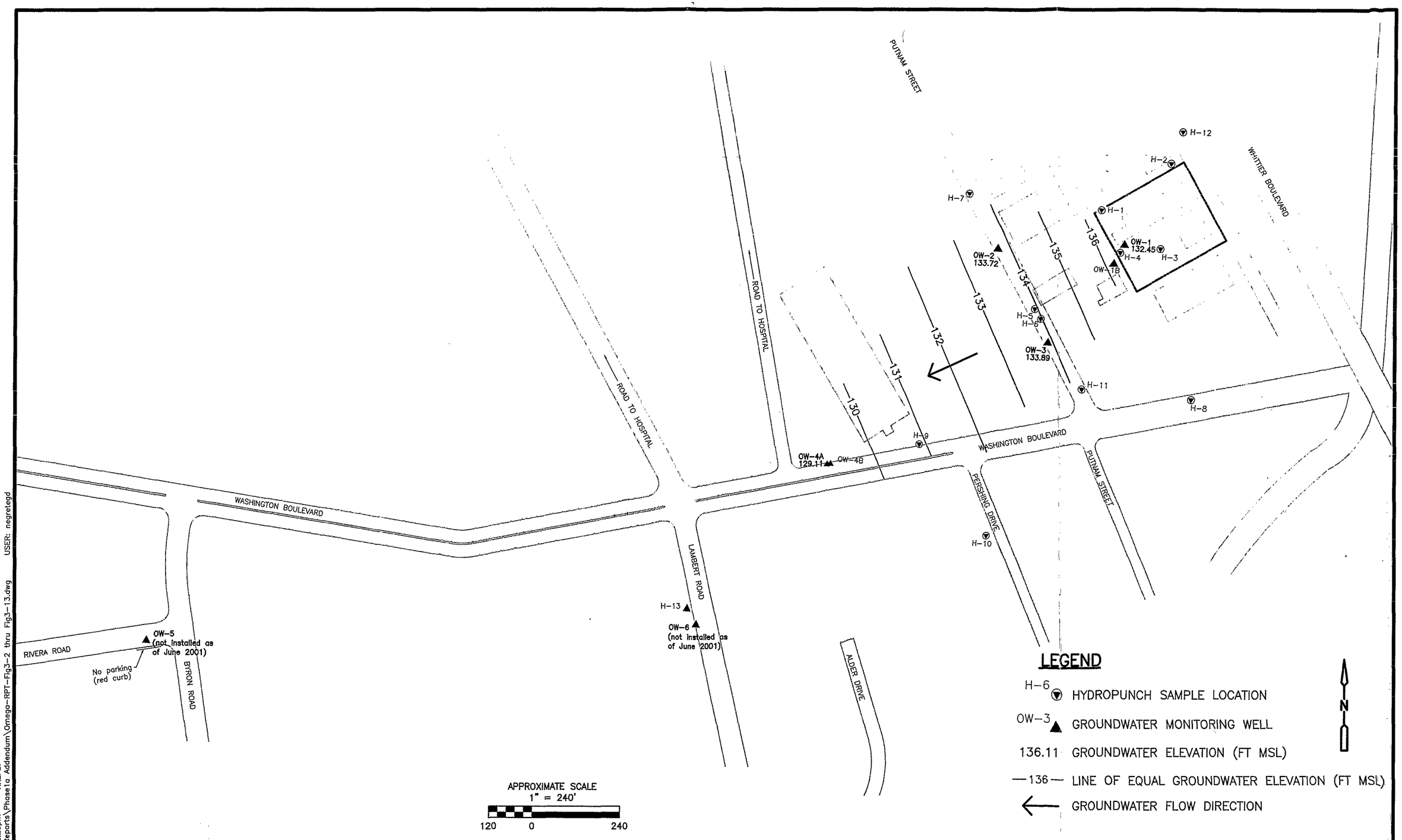

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Groundwater Contour Map
June 2001

Figure 3-3

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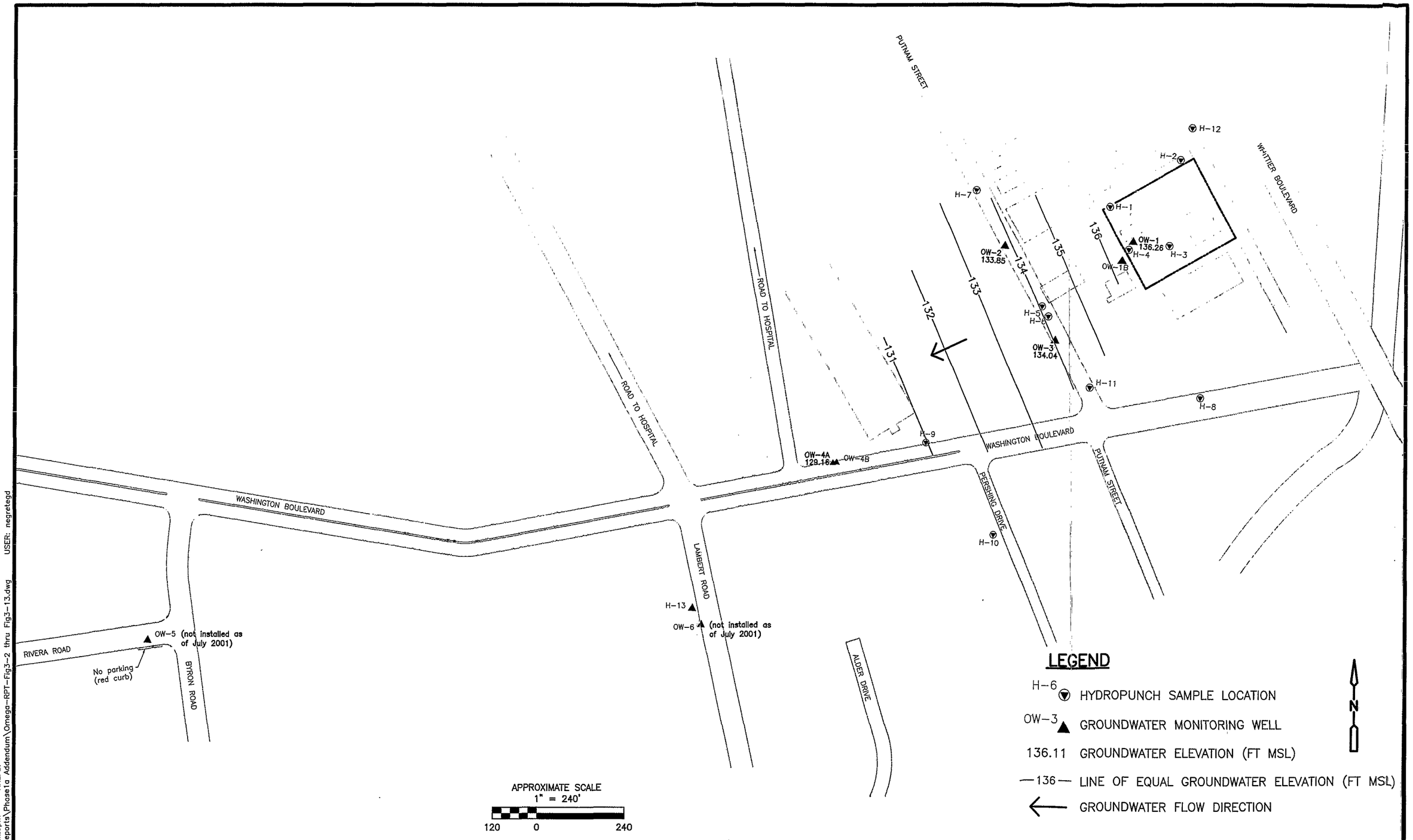

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Groundwater Contour Map
July 2001

Figure 3-4

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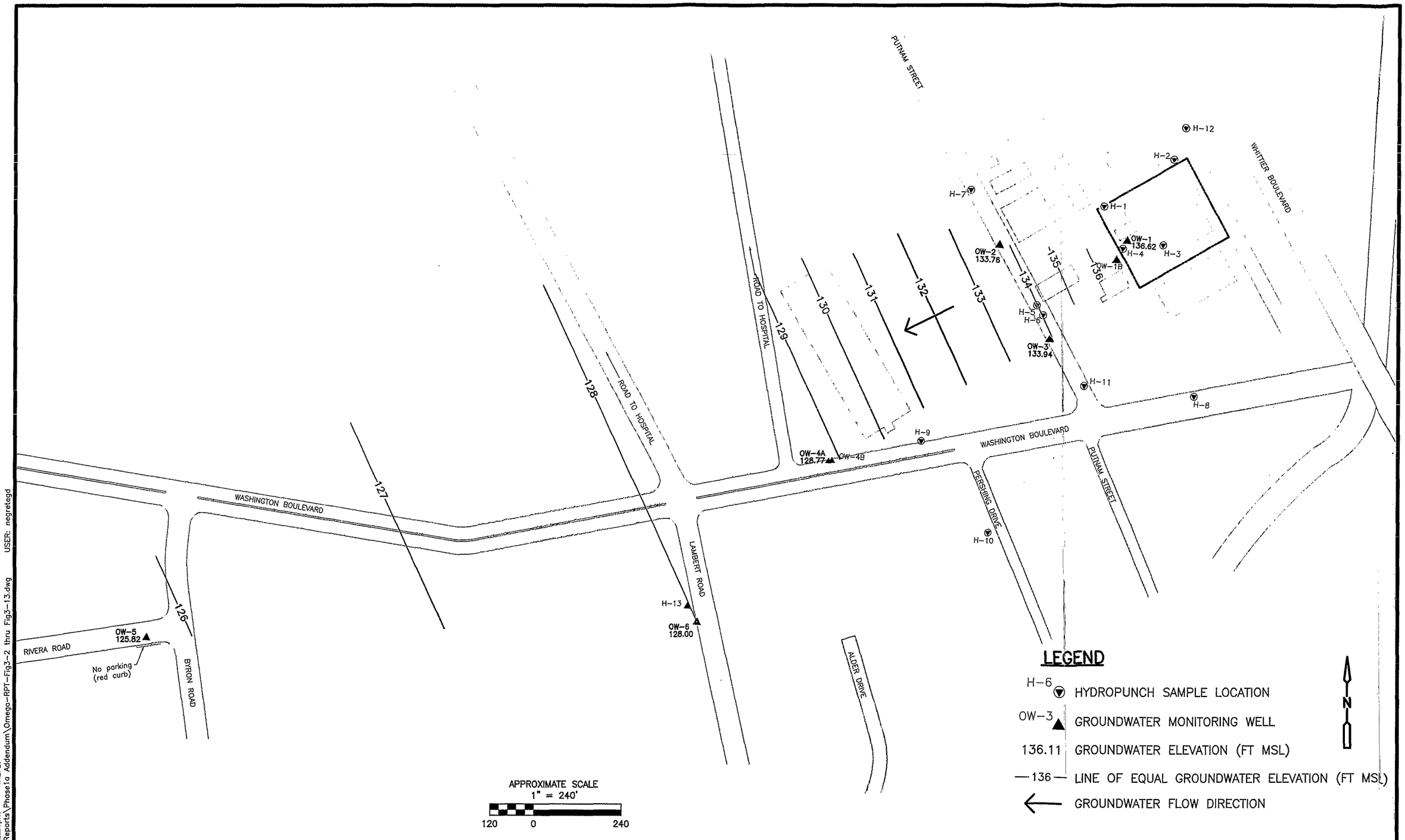

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Groundwater Contour Map
August 2001

Figure 3-5

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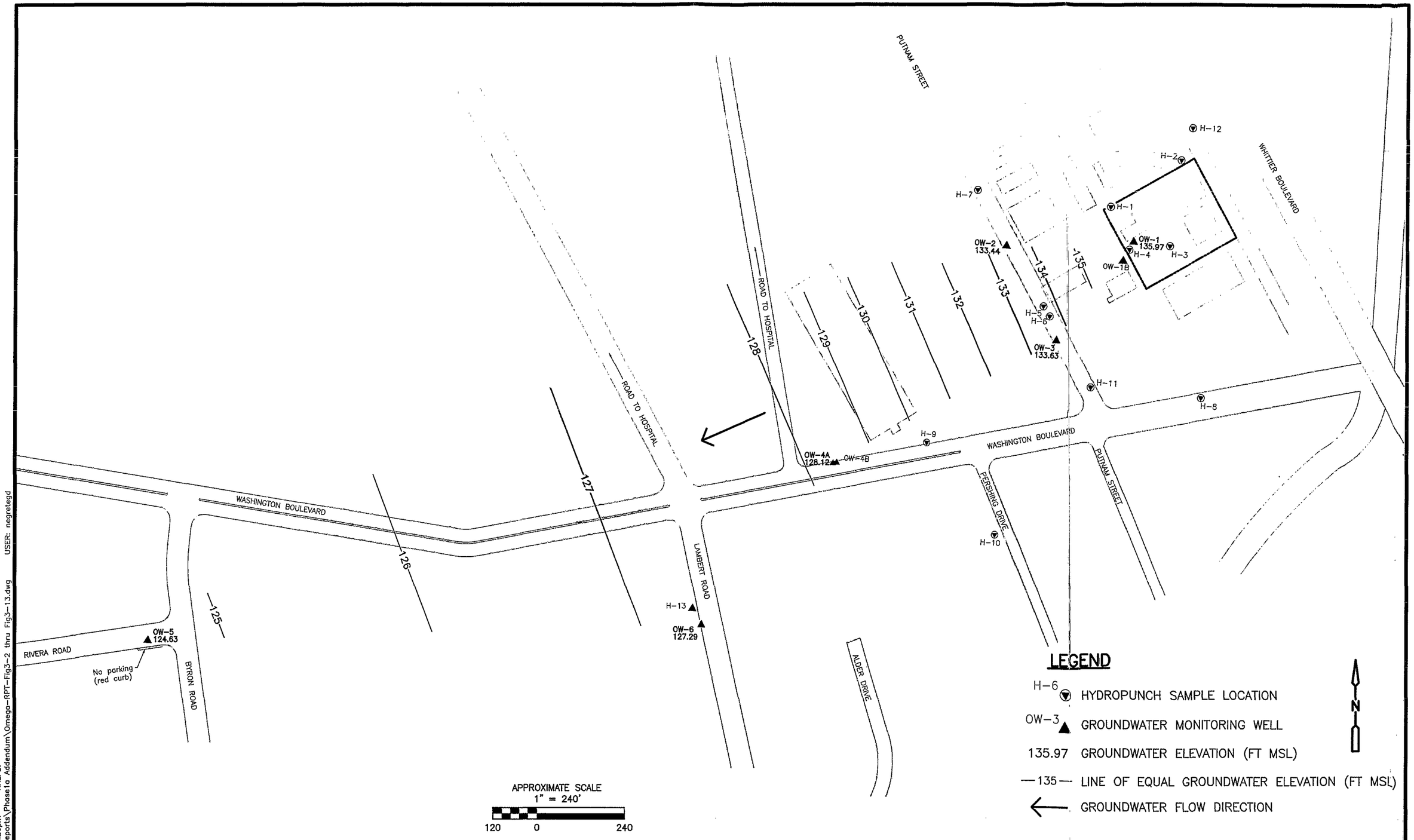

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Groundwater Contour Map
September 2001

Figure 3-6

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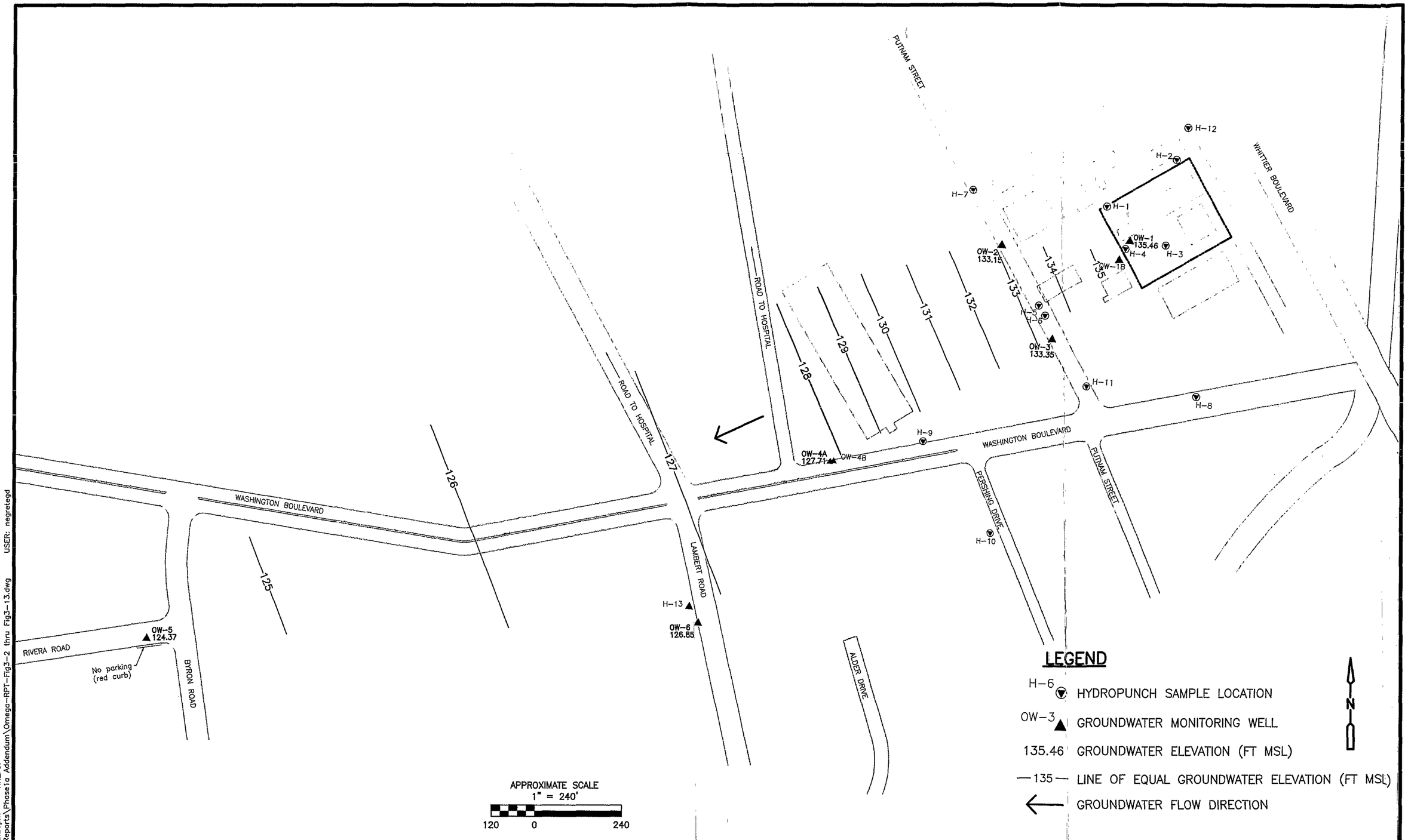

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Groundwater Contour Map
October 2001

Figure 3-7

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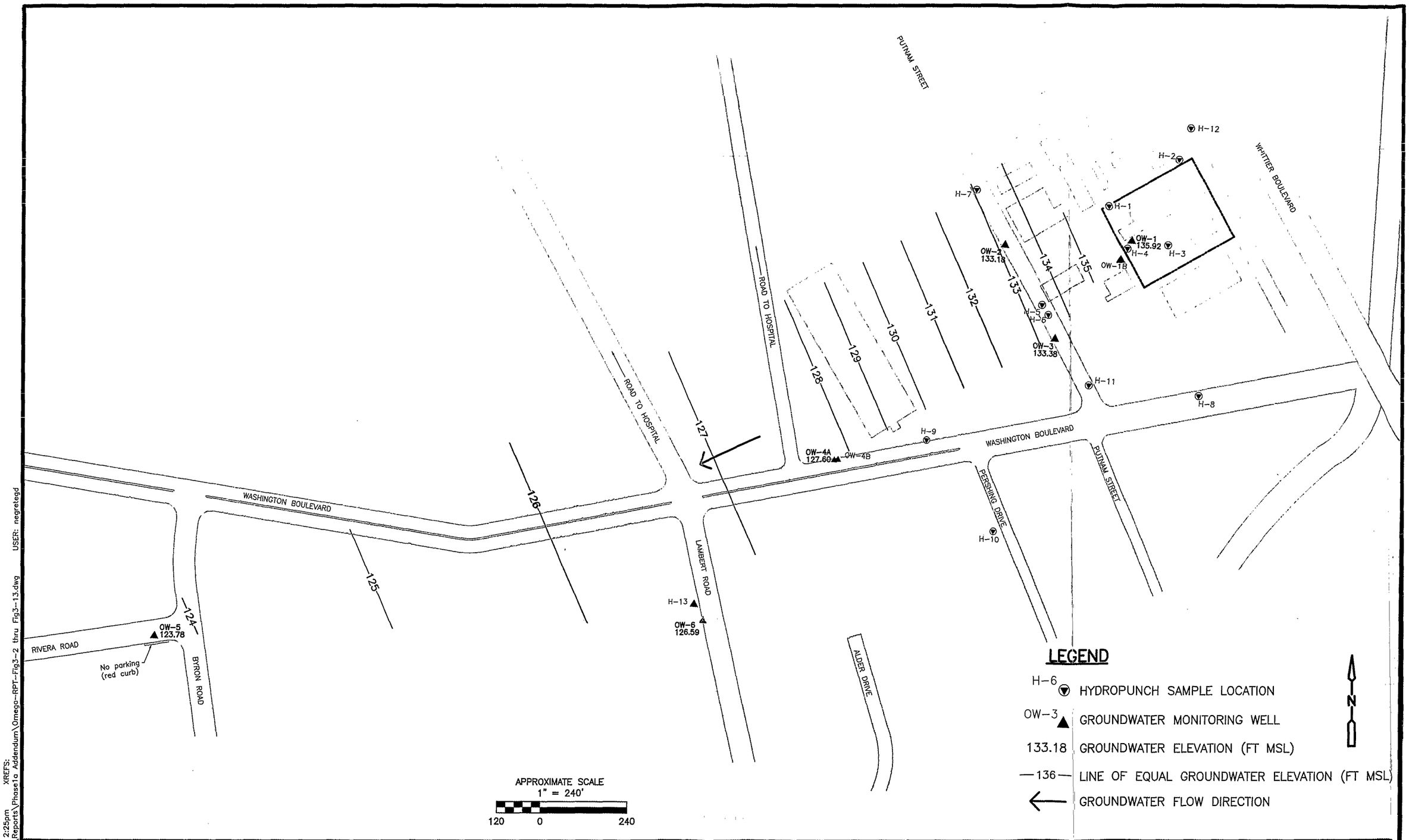

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Groundwater Contour Map
November 2001

Figure 3-8

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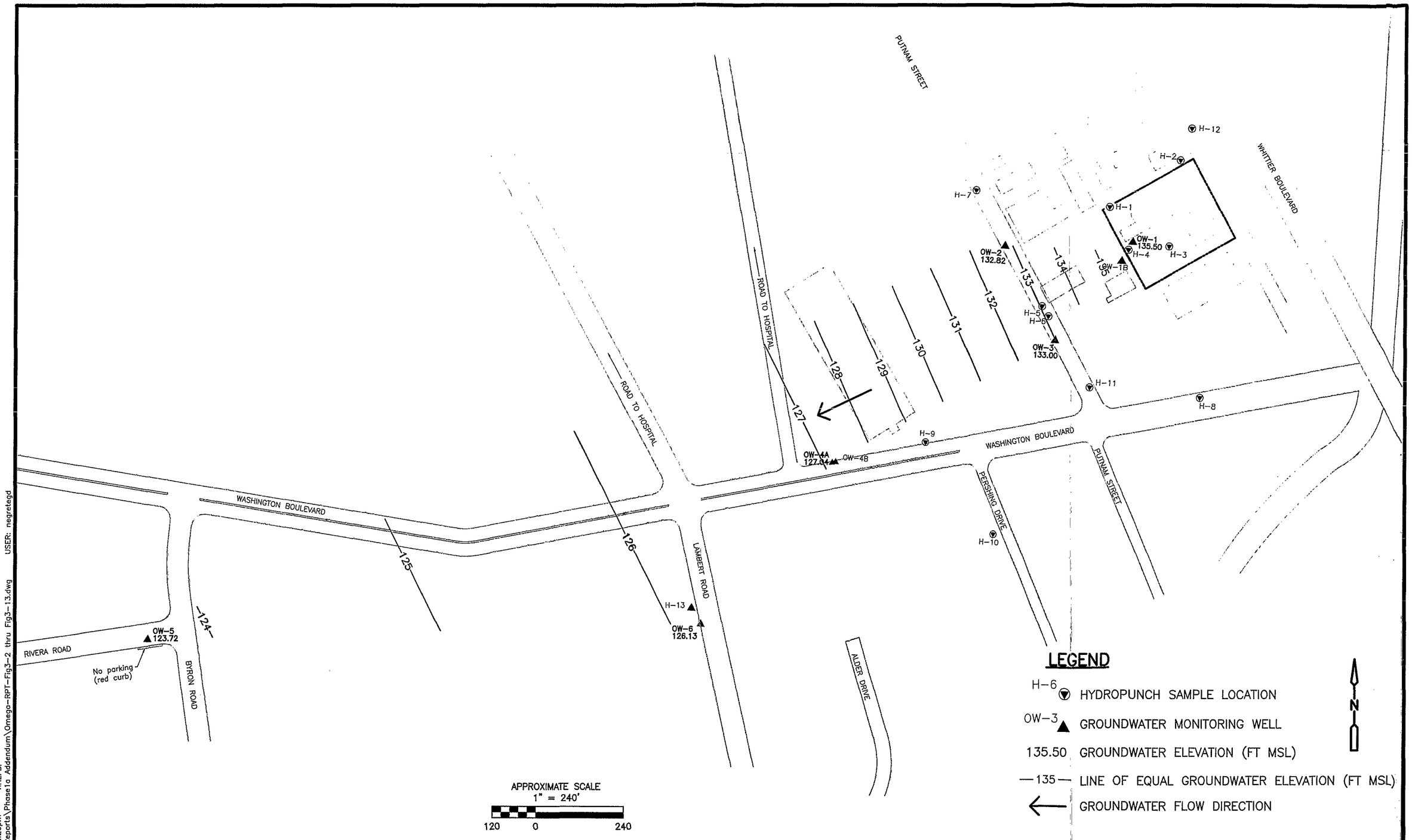

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Groundwater Contour Map
December 2001

Figure 3-9

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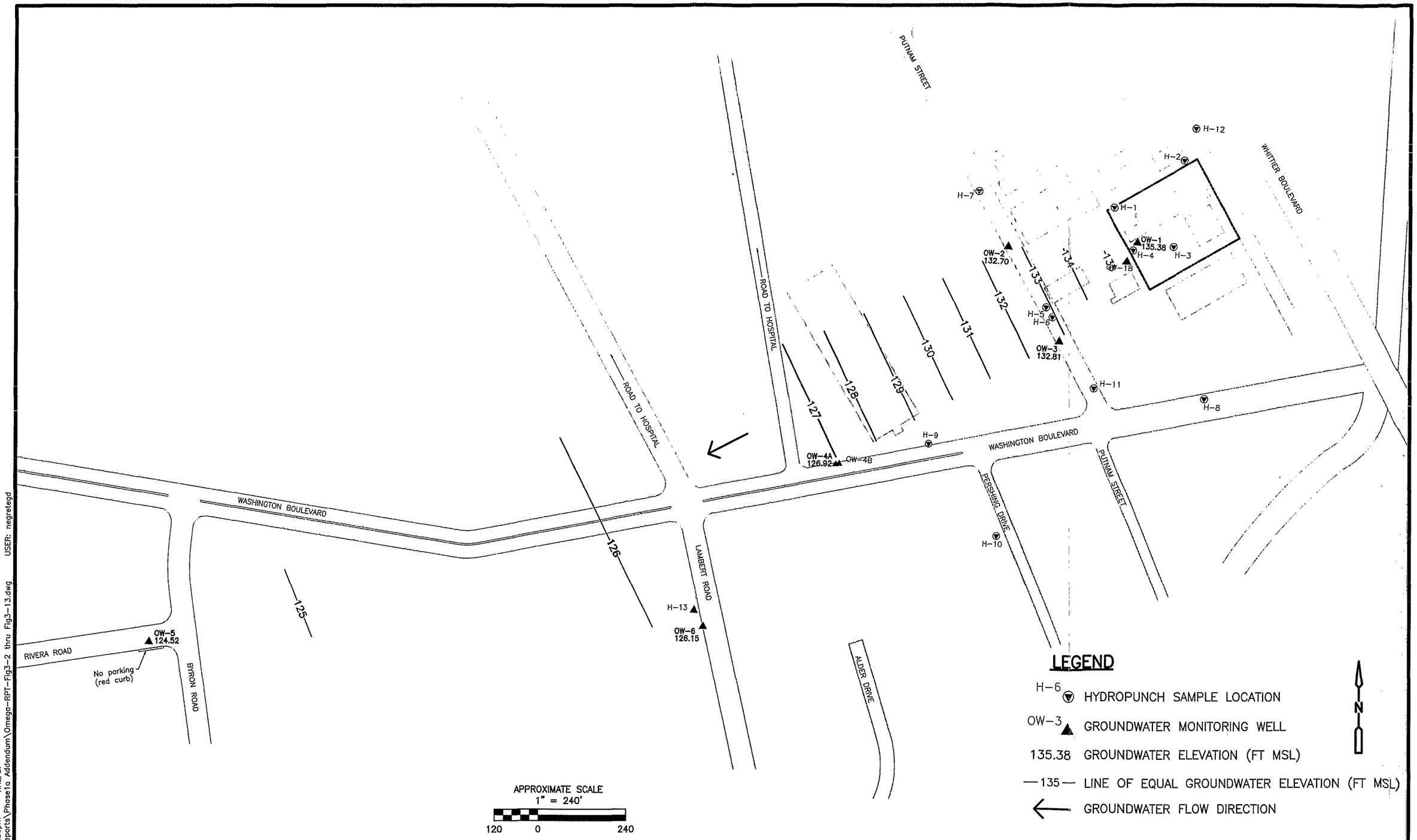

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Groundwater Contour Map
January 2002

Figure 3-10

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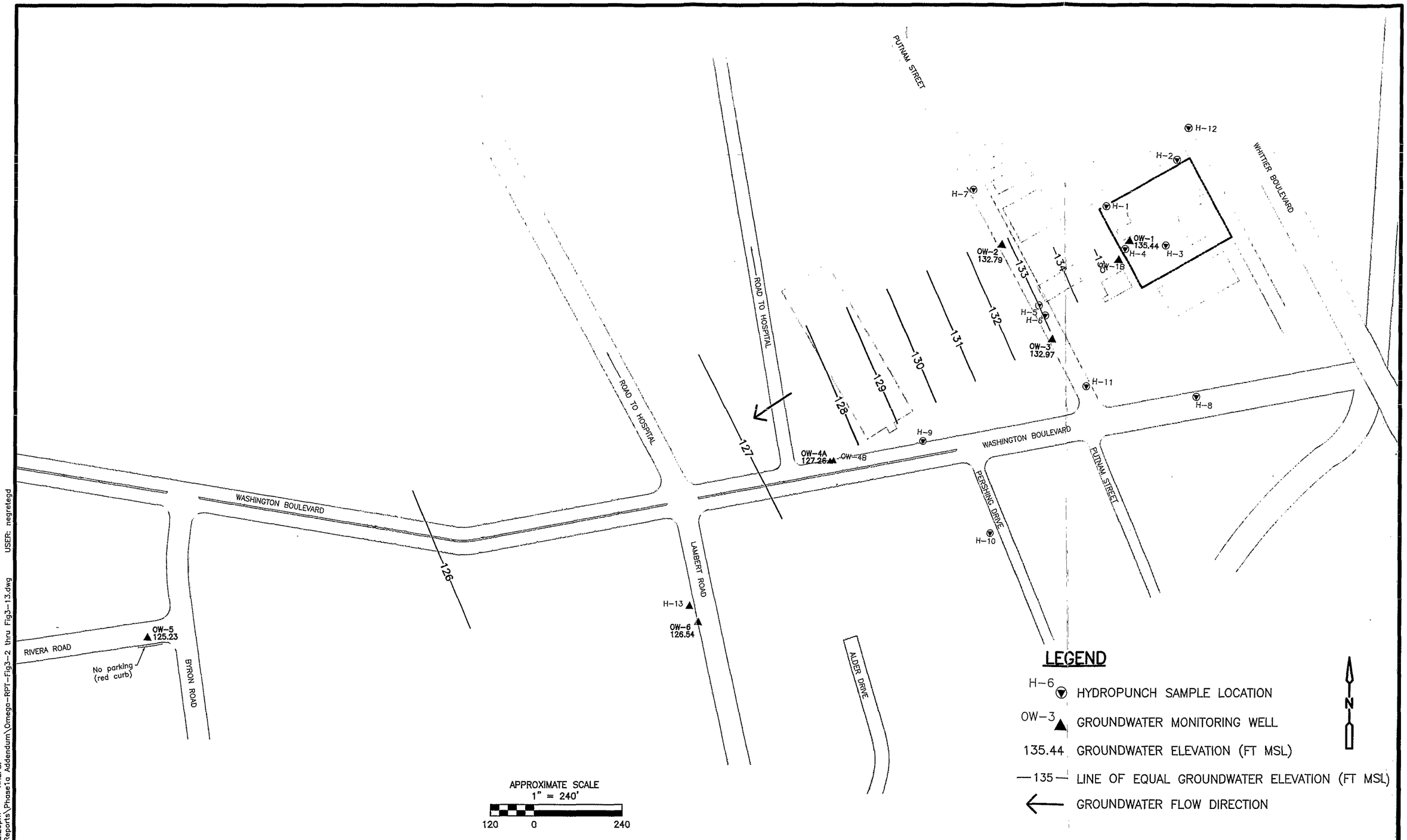

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Groundwater Contour Map
February 2002

Figure 3-11

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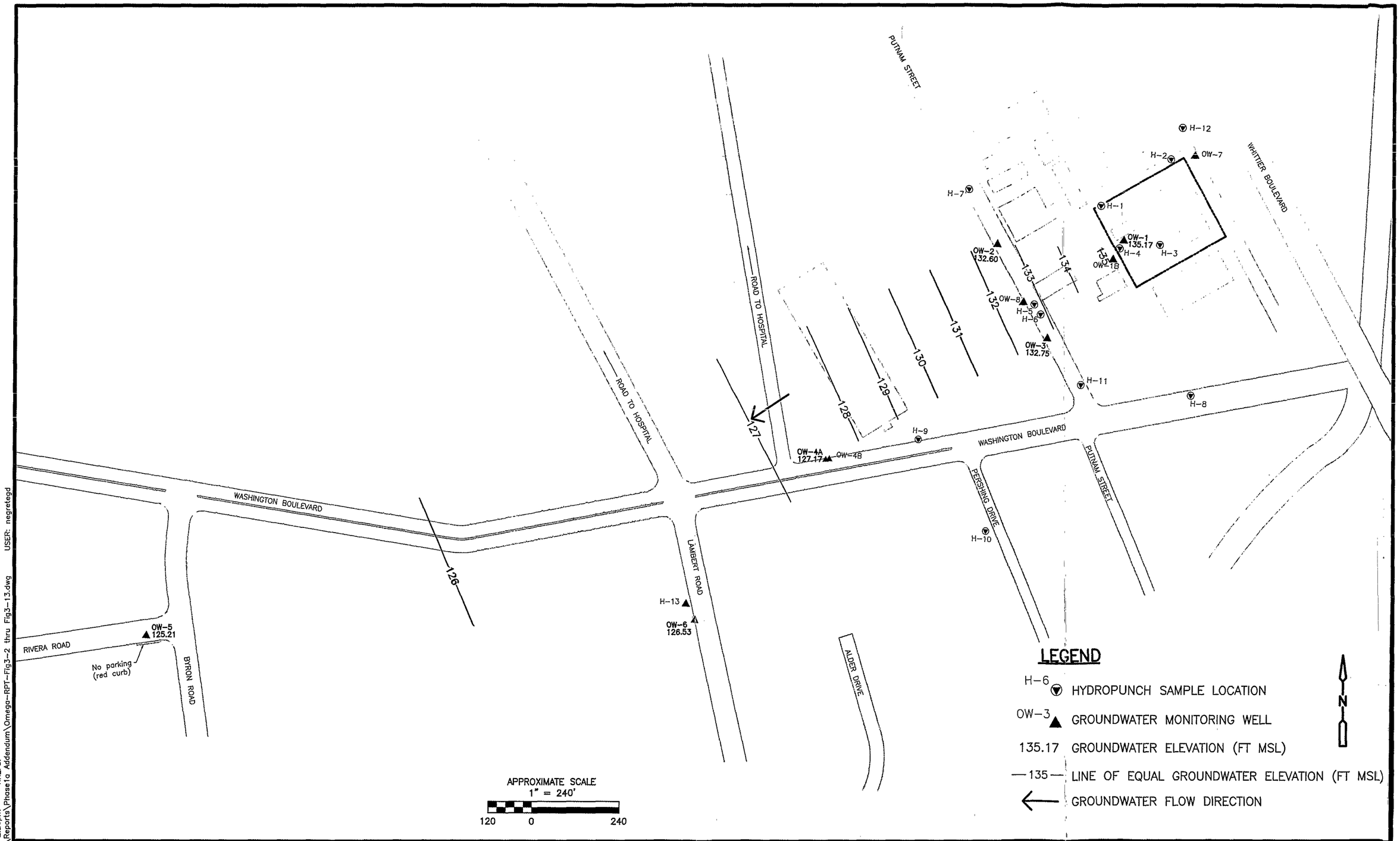

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Groundwater Contour Map
March 2002

Figure 3-12

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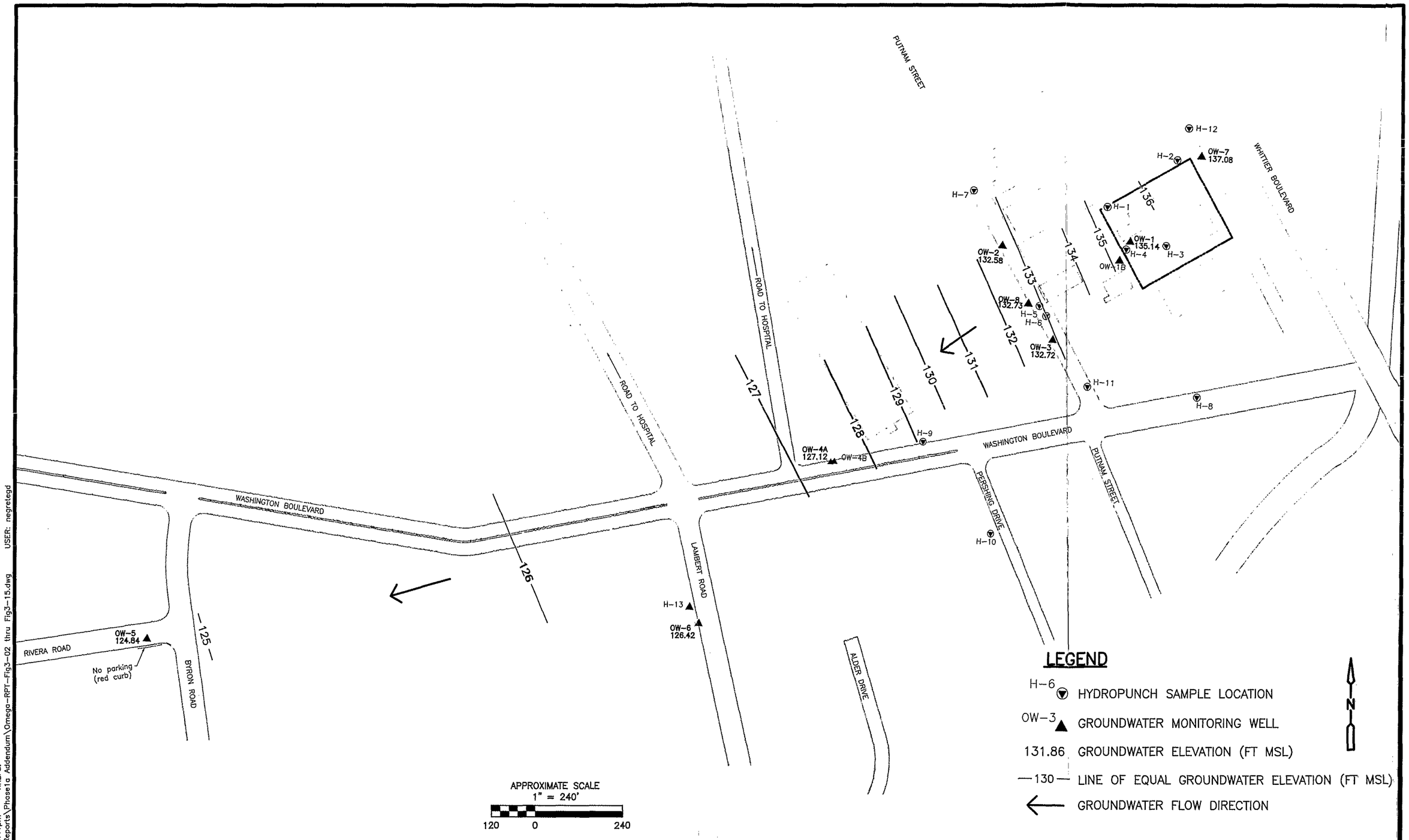

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Groundwater Contour Map
April 2002

Figure 3-13

CDM

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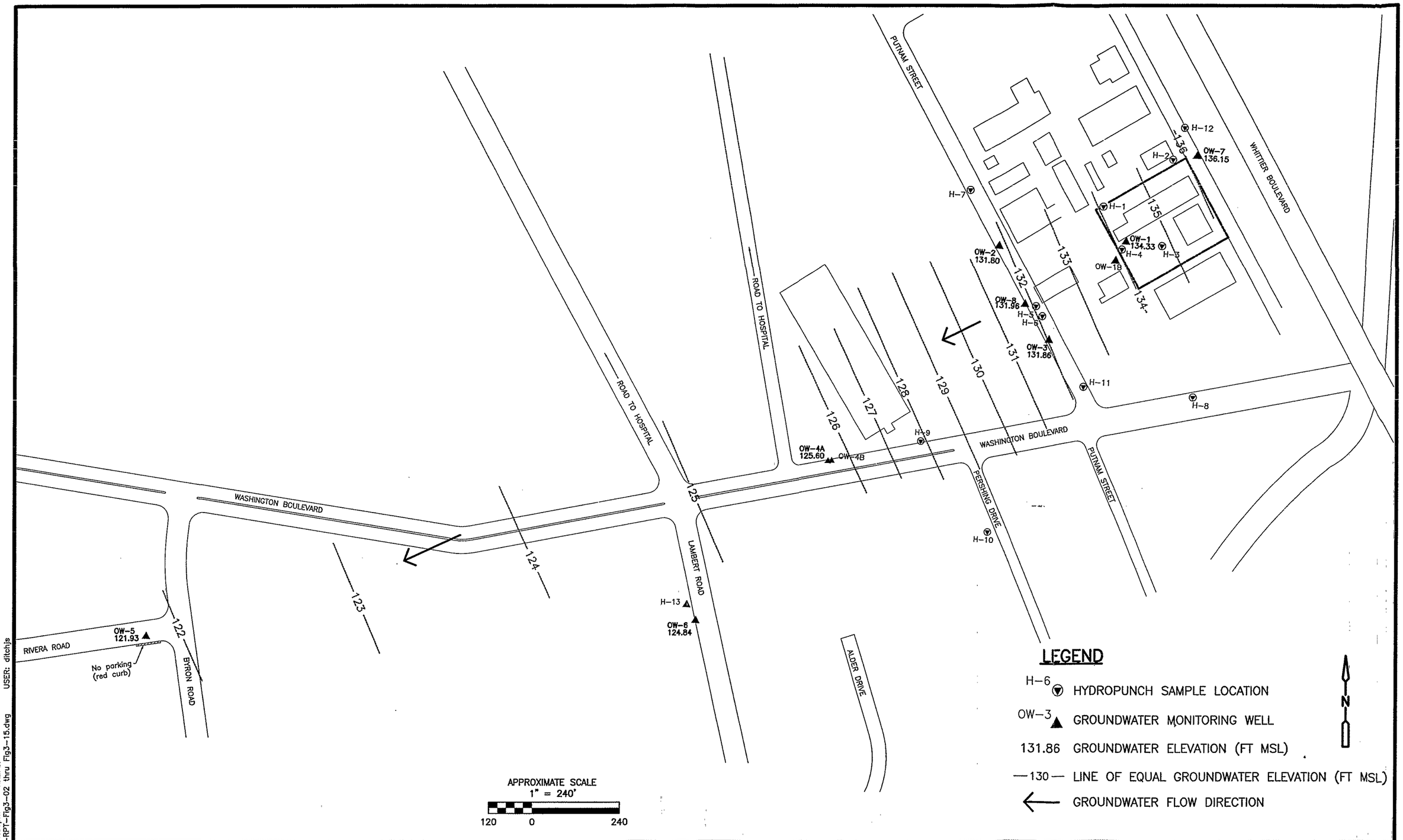

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Groundwater Contour Map
August 2002

Figure 3-14

CDM

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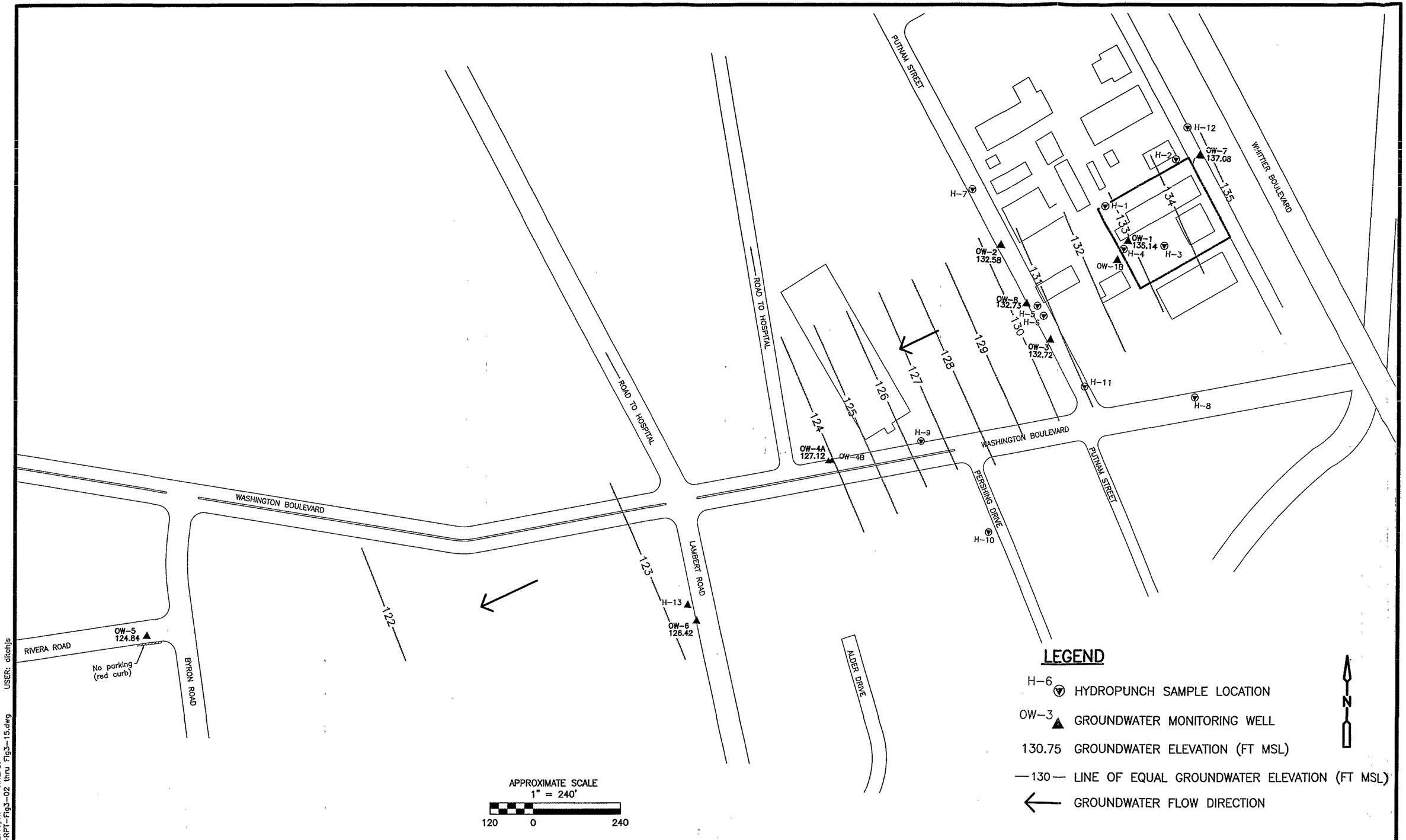

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Groundwater Contour Map
February 2003

Figure 3-15

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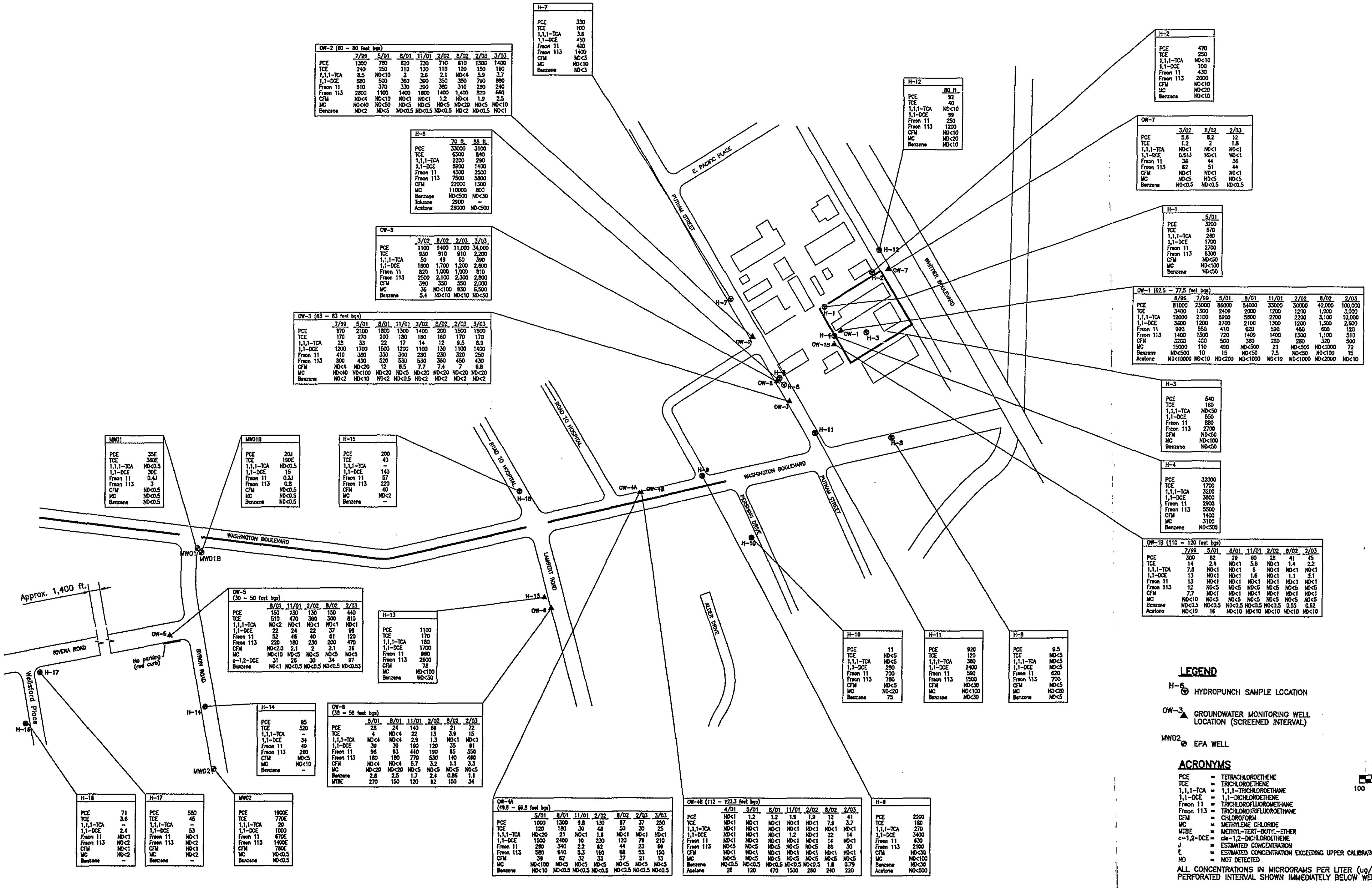

H-7

PCE	330
TCE	100
1,1,1-TCA	3.6
1,1-DCE	450
Freon 11	400
Freon 113	1400
CFM	ND<3
MC	ND<10
Benzene	ND<3

OW-2 (60 - 80 feet bgs)

	7/99	5/01	8/01	11/01	2/02	8/02	2/03	3/03
PCE	1300	780	620	730	710	610	1300	1400
TCE	240	150	110	130	110	120	150	160
1,1,1-TCA	8.5	ND<10	2	2.6	2.1	ND<4	5.9	3.7
1,1-DCE	680	500	360	390	350	350	790	680
Freon 11	610	370	330	390	380	310	280	240
Freon 113	2600	1100	1400	1600	1400	1,400	820	680
CFM	ND<4	ND<10	ND<1	ND<1	1.2	ND<4	1.9	2.5
MC	ND<40	ND<50	ND<5	ND<5	ND<5	ND<20	ND<5	ND<10
Benzene	ND<2	ND<5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<1

H-6

	70 ft.	86 ft.
PCE	33000	3100
TCE	6300	640
1,1,1-TCA	2200	290
1,1-DCE	6900	1400
Freon 11	4300	2500
Freon 113	7500	5800
CFM	22000	1300
MC	110000	800
Benzene	ND<500	ND<30
Toluene	2900	--
Acetone	26000	ND<500

OW-8

	3/02	8/02	2/03	3/03
PCE	1100	9400	11,000	34,000
TCE	930	910	910	2,200
1,1,1-TCA	50	49	50	390
1,1-DCE	1600	1,700	1,200	2,600
Freon 11	820	1,000	1,000	810
Freon 113	2500	2,100	2,300	2,800
CFM	390	350	550	2,000
MC	36	ND<100	930	6,500
Benzene	5.4	ND<10	ND<10	ND<50

OW-3 (63 - 83 feet bgs)

	7/99	5/01	8/01	11/01	2/02	8/02	2/03	3/03
PCE	670	2100	1800	1300	1400	200	1500	1800
TCE	170	270	200	180	180	160	170	170
1,1,1-TCA	28	33	22	17	14	12	9.5	8.9
1,1-DCE	1200	1700	1500	1200	1100	130	1100	1400
Freon 11	410	380	330	300	280	230	320	250
Freon 113	800	430	520	530	530	360	450	430
CFM	ND<4	ND<20	12	6.5	7.7	7.4	7	6.8
MC	ND<40	ND<100	ND<20	ND<5	ND<20	ND<20	ND<20	ND<20
Benzene	ND<2	ND<10	ND<2	ND<0.5	ND<2	ND<2	ND<2	ND<2

H-12

	80 ft
PCE	92
TCE	40
1,1,1-TCA	ND<10
1,1-DCE	99
Freon 11	250
Freon 113	1200
CFM	ND<10
MC	ND<20
Benzene	ND<10

H-2

PCE	470
TCE	250
1,1,1-TCA	ND<10
1,1-DCE	100
Freon 11	430
Freon 113	2000
CFM	ND<10
MC	ND<20
Benzene	ND<10

OW-7

	3/02	8/02	2/03
PCE	5.6	8.2	12
TCE	1.2	2	1.8
1,1,1-TCA	ND<1	ND<1	ND<1
1,1-DCE	0.61J	ND<1	ND<1
Freon 11	36	44	36
Freon 113	62	51	44
CFM	ND<1	ND<1	ND<1
MC	ND<5	ND<5	ND<5
Benzene	ND<0.5	ND<0.5	ND<0.5

H-1

	5/01
PCE	3200
TCE	670
1,1,1-TCA	260
1,1-DCE	1700
Freon 11	2700
Freon 113	6300
CFM	ND<50
MC	ND<100
Benzene	ND<50

OW-1 (62.5 - 77.5 feet bgs)

	8/96	7/99	5/01	8/01	11/01	2/02	8/02	2/03
PCE	81000	23000	86000	54000	33000	30000	42,000	100,000
TCE	3400	1300	2400	2000	1200	1200	1,900	3,000
1,1,1-TCA	12000	2100	6800	5800	2200	2200	3,100	10,000
1,1-DCE	3600	1200	2700	2100	1300	1200	1,300	2,800
Freon 11	990	550	410	620	590	480	600	120
Freon 113	1400	1300	720	1400	1400	1300	1,100	510
CFM	3200	400	500	360	280	280	320	500
MC	15000	110	490	ND<500	21	ND<500	ND<1000	72
Benzene	ND<500	10	15	ND<50	7.5	ND<50	ND<100	15
Acetone	ND<10000	ND<10	ND<200	ND<1000	ND<10	ND<1000	ND<2000	ND<10

H-3

PCE	540
TCE	160
1,1,1-TCA	ND<50
1,1-DCE	550
Freon 11	880
Freon 113	2700
CFM	ND<50
MC	ND<100
Benzene	ND<50

H-4

PCE	32000
TCE	1700
1,1,1-TCA	3200
1,1-DCE	3600
Freon 11	2900
Freon 113	5500
CFM	1400
MC	3100
Benzene	ND<500

OW-1B (110 - 120 feet bgs)

	7/99	5/01	8/01	11/01	2/02	8/02	2/03
PCE	300	62	29	60	28	41	45
TCE	14	2.4	ND<1	5.6	ND<1	1.4	2.2
1,1,1-TCA	7.8	ND<1	ND<1	6	ND<1	ND<1	ND<1
1,1-DCE	13	ND<1	ND<1	1.6	ND<1	1.1	3.1
Freon 11	13	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
Freon 113	12	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
CFM	7.7	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
MC	ND<10	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
Benzene	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.55	0.62
Acetone	ND<10	16	ND<10	ND<10	ND<10	ND<10	ND<10

MW01

PCE	35E
TCE	360E
1,1,1-TCA	ND<0.5
1,1-DCE	30E
Freon 11	0.4J
Freon 113	3
CFM	ND<0.5
MC	ND<0.5
Benzene	ND<0.5

MW01B

PCE	20J
TCE	190E
1,1,1-TCA	ND<0.5
1,1-DCE	15
Freon 11	0.2J
Freon 113	0.8
CFM	ND<0.5
MC	ND<0.5
Benzene	ND<0.5

H-15

PCE	200
TCE	40
1,1,1-TCA	-
1,1-DCE	140
Freon 11	57
Freon 113	220
CFM	40
MC	ND<2
Benzene	-

OW-5 (30 - 50 feet bgs)

	8/01	11/01	2/02	8/02	2/03
PCE	150	130	130	150	440
TCE	510	470	390	300	810
1,1,1-TCA	ND<2	ND<1	ND<1	ND<1	ND<1
1,1-DCE	22	24	22	37	98
Freon 11	52	46	40	61	120
Freon 113	220	180	230	200	470
CFM	ND<2.0	2.1	2	2.1	26
MC	ND<10	ND<5	ND<5	ND<5	ND<5
c-1,2-DCE	31	26	30	34	97
Benzene	ND<1	ND<0.5	ND<0.5	ND<0.5	ND<0.53

H-13

PCE	1100
TCE	170
1,1,1-TCA	180
1,1-DCE	1700
Freon 11	960
Freon 113	2600
CFM	78
MC	ND<100
Benzene	ND<30

H-14

PCE	95
TCE	520
1,1,1-TCA	-
1,1-DCE	34
Freon 11	49
Freon 113	280
CFM	ND<5
MC	ND<10
Benzene	-

OW-6 (38 - 58 feet bgs)

	5/01	8/01	11/01	2/02	8/02	2/03
PCE	28	24	140	89	21	72
TCE	4	ND<4	22	13	3.9	15
1,1,1-TCA	ND<4	ND<4	2.9	1.3	ND<1	ND<1
1,1-DCE	39	39	190	120	35	81
Freon 11	96	93	440	190	95	350
Freon 113	180	180	770	530	140	460
CFM	ND<4	ND<4	5.7	3.2	1.1	3.3
MC	ND<20	ND<20	ND<5	ND<5	ND<5	ND<5
Benzene	2.8	2.5	1.7	2.4	0.86	1.1
MTBE	270	150	120	92	150	34

H-16

PCE	71
TCE	3.6
1,1,1-TCA	-
1,1-DCE	2.4
Freon 11	ND<1
Freon 113	ND<2
CFM	ND<1
MC	ND<2
Benzene	-

H-17

PCE	580
TCE	45
1,1,1-TCA	-
1,1-DCE	53
Freon 11	ND<1
Freon 113	ND<2
CFM	ND<1
MC	ND<2
Benzene	-

MW02

PCE	1900E
TCE	770E
1,1,1-TCA	20
1,1-DCE	1000
Freon 11	670E
Freon 113	1400E
CFM	780E
MC	ND<0.5
Benzene	ND<0.5

OW-4A (49.8 - 69.8 feet bgs)

	5/01	8/01	11/01	2/02	8/02	2/03	3/03
PCE	1000	1300	9.8	130	87	37	250
TCE	120	180	30	48	50	30	25
1,1,1-TCA	ND<20	21	ND<1	1.6	ND<1	ND<1	ND<1
1,1-DCE	1500	2400	10	230	120	79	210
Freon 11	280	340	2.2	62	44	23	69
Freon 113	580	910	5.3	160	88	53	150
CFM	39	62	32	33	37	21	13
MC	ND<100	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
Benzene	ND<10	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

OW-4B (112 - 122.3 feet bgs)

	4/01	5/01	8/01	11/01	2/02	8/02	2/03
PCE	ND<1	1.2	1.2	1.9	1.9	12	41
TCE	ND<1	ND<1	ND<1	ND<1	ND<1	7.9	3.7
1,1,1-TCA	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
1,1-DCE	ND<1	ND<1	ND<1	1.2	ND<1	22	14
Freon 11	ND<1	ND<1	ND<1	ND<1	ND<1	14	ND<1
Freon 113	ND<5	ND<5	ND<5	ND<5	ND<5	86	30
CFM	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
MC	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
Benzene	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.8	0.79
Acetone	28	120	470	1500	280	240	220

H-9

PCE	2200
TCE	180
1,1,1-TCA	270
1,1-DCE	3400
Freon 11	630
Freon 113	2100
CFM	ND<30
MC	ND<100
Benzene	ND<30
Acetone	ND<500

H-10

PCE	11
TCE	ND<5
1,1,1-TCA	ND<5
1,1-DCE	280
Freon 11	700
Freon 113	780
CFM	ND<5
MC	ND<20
Benzene	75

H-11

PCE	920
TCE	120
1,1,1-TCA	380
1,1-DCE	2400
Freon 11	590
Freon 113	1500
CFM	ND<30
MC	ND<100
Benzene	ND<30

H-8

PCE	9.5
TCE	ND<5
1,1,1-TCA	ND<5
1,1-DCE	ND<5
Freon 11	620
Freon 113	700
CFM	ND<5
MC	ND<20
Benzene	ND<5

LEGEND

H-6 HYDROPUNCH SAMPLE LOCATION

OW-3 GROUNDWATER MONITORING WELL LOCATION (SCREENED INTERVAL)

MW02 EPA WELL

ACRONYMS

PCE = TETRACHLOROETHENE
TCE = TRICHLOROETHENE
1,1,1-TCA = 1,1,1-TRICHLOROETHANE
1,1-DCE = 1,1-DICHLOROETHENE
Freon 11 = TRICHLOROFLUOROMETHANE
Freon 113 = TRICHLOROTRIFLUOROETHANE
CFM = CHLOROFORM
MC = METHYLENE CHLORIDE
MTBE = METHYL-TERT-BUTYL-ETHER
c-1,2-DCE = cis-1,2-DICHLOROETHENE
J = ESTIMATED CONCENTRATION
E = ESTIMATED CONCENTRATION EXCEEDING UPPER CALIBRATION RANGE
ND = NOT DETECTED

ALL CONCENTRATIONS IN MICROGRAMS PER LITER (ug/L).
PERFORATED INTERVAL SHOWN IMMEDIATELY BELOW WELL NUMBER

APPROXIMATE SCALE
1" = 200'
100 0 200

N

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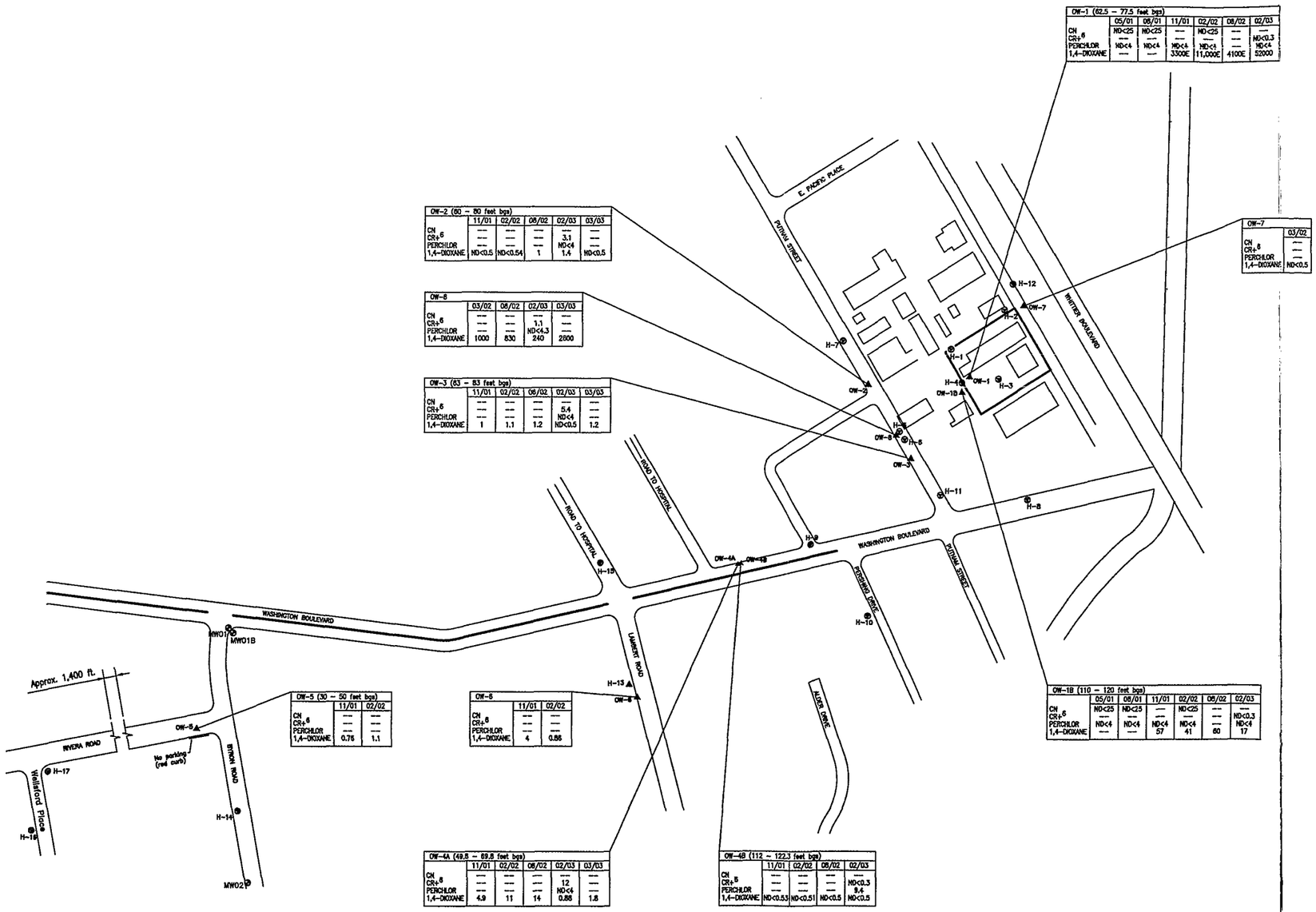
environmental engineers, scientists, planners, & management consultants

OMEGA CHEMICAL

Groundwater Analytical Results for Selected VOCs

Figure 3-16



OW-1 (62.5 – 77.5 feet bgs)	05/01	08/01	11/01	02/02	08/02	02/03
CN	ND<25	ND<25	---	ND<25	---	---
$CR+^6$	---	---	---	---	---	ND<0.3
PERCHLOR	ND<4	ND<4	ND<4	ND<4	---	ND<4
1,4-DIOXANE	---	---	3300E	11,000E	4100E	52000

OW-2 (60 – 80 feet bgs)	11/01	02/02	08/02	02/03	03/03
CN	---	---	---	---	---
$CR+^6$	---	---	---	3.1	---
PERCHLOR	---	---	---	ND<4	---
1,4-DIOXANE	ND<0.5	ND<0.54	1	1.4	ND<0.5

OW-7	03/02
CN	---
$CR+^6$	---
PERCHLOR	---
1,4-DIOXANE	ND<0.5

OW-8	03/02	08/02	02/03	03/03
CN	---	---	---	---
$CR+^6$	---	---	1.1	---
PERCHLOR	---	---	ND<4.3	---
1,4-DIOXANE	1000	830	240	2600

OW-3 (63 – 83 feet bgs)	11/01	02/02	08/02	02/03	03/03
CN	---	---	---	---	---
$CR+^6$	---	---	---	5.4	---
PERCHLOR	---	---	---	ND<4	---
1,4-DIOXANE	1	1.1	1.2	ND<0.5	1.2

OW-5 (30 – 50 feet bgs)	11/01	02/02
CN	---	---
$CR+^6$	---	---
PERCHLOR	---	---
1,4-DIOXANE	0.76	1.1

OW-6	11/01	02/02
CN	---	---
$CR+^6$	---	---
PERCHLOR	---	---
1,4-DIOXANE	4	0.86

OW-1B (110 – 120 feet bgs)	05/01	08/01	11/01	02/02	08/02	02/03
CN	ND<25	ND<25	---	ND<25	---	---
$CR+^6$	---	---	---	---	---	ND<0.3
PERCHLOR	ND<4	ND<4	ND<4	ND<4	---	ND<4
1,4-DIOXANE	---	---	57	41	60	17

OW-4A (49.8 – 69.8 feet bgs)	11/01	02/02	08/02	02/03	03/03
CN	---	---	---	---	---
$CR+^6$	---	---	---	12	---
PERCHLOR	---	---	---	ND<4	---
1,4-DIOXANE	4.9	11	14	0.88	1.8

OW-4B (112 – 122.3 feet bgs)	11/01	02/02	08/02	02/03
CN	---	---	---	---
$CR+^6$	---	---	---	ND<0.3
PERCHLOR	---	---	---	9.4
1,4-DIOXANE	ND<0.53	ND<0.51	ND<0.5	ND<0.5

LEGEND

H-6 HYDROPUNCH SAMPLE LOCATION

OW-3 GROUNDWATER MONITORING WELL LOCATION (SCREENED INTERVAL)

MW02 EPA WELL

N

APPROXIMATE SCALE
1" = 200'
100 0 200

ACRONYMS

$CR+^6$ = HEXAVALENT CHROMIUM
--- = NOT ANALYZED
E = ESTIMATED
ND = NOT DETECTED

ALL CONCENTRATIONS IN MICROGRAMS PER LITER (ug/L).
PERFORATED INTERVAL SHOWN IMMEDIATELY BELOW WELL NUMBER

DATE: [redacted] 13, 200[redacted]
DWG: P:\10500\OCad\Reports\Phase1a Addendum\Omega-RPT-Fig3-17-EmrgngCmpnds.dwg USER: negretegd

CDM
environmental engineers, scientists, planners, & management consultants

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Groundwater Analytical Results
Emerging Compounds

Figure 3-17

Section 4
Conclusions and Recommendations

Based on evaluation of the historical and recently-acquired lithologic, water level, analytical, and aquifer testing data, the following conclusions and recommendations are provided.

4.1 Conclusions

Conclusions regarding groundwater flow direction, groundwater sampling results, and fate and transport of compounds detected in groundwater in the Phase 1a area are presented below.

4.1.1 Groundwater Flow Direction

Monthly and semi-annual water level monitoring performed to date indicates a consistent groundwater flow direction towards the southwest in the water table zone.

4.1.2 Groundwater Sampling Results

Chlorinated VOCs have been detected more frequently and at elevated concentrations in the Phase 1a area, therefore, they are the primary compounds of concern. Based on observations at two locations where a water table and deeper well pair are present (OW1 and OW1b, and OW4a and OW4b), chlorinated VOC concentrations were observed to attenuate with depth and appear to be of limited vertical extent. Concentrations were also observed to attenuate with increased distance downgradient from the Site. Aromatic organics, semi-VOAs, pesticides, and metals were detected sporadically and at relatively low concentrations in groundwater samples collected from the Phase 1a area wells, therefore, they are not considered compounds of concern.

Based on evaluation of the lithologic, aquifer testing, and groundwater sampling results, there appears to be a higher-permeability area (possibly a channel deposit) immediately downgradient of the Site in the vicinity of well OW8 on Putnam Street. Relatively higher (compared to well OW2 to the north and well OW3 to the south) VOC and 1,4-dioxane concentrations were also detected in this area.

4.1.3 Fate and Transport

Groundwater sampling results indicate that the highest contaminant concentrations are associated with the former source area locations that are upgradient of Putnam Street, and that this contamination is predominantly limited to the shallower portions of the aquifer. These contaminants include various chloroethene parent compounds (PCE and TCE) and their primary daughter product pathways (cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride [VC]); chloroethane parent compounds (PCA, 1,1,1-TCA, and 1,1,2-TCA) and their daughter products (1,1-DCA, 1,2-DCA, and 1,1-DCE [abiotic hydrolysis of 1,1,1-TCA]); choromethanes (CTC, CFM, and MC), and freons.

The highest VOC concentrations are found within the shallow groundwater plume as evidenced by data from well OW1 (screened from 62.5 to 77.5 feet bgs) during the February 2003 semi-annual sampling event. In particular, the data indicate elevated concentrations of the parent-compounds PCE (100,000 ug/l) and 1,1,1-TCA (10,000 ug/l), with TCE (3,000 ug/l) and 1,1-DCE (2,600 ug/l) present at substantially lower concentrations and likely as biotransformation daughter-products, respectively. The concentration of PCE detected at monitoring well OW1 (100,000 ug/l) represents 50% of the aqueous solubility of PCE (200,000 ug/l) and therefore provides strong evidence for the presence of a dense non-aqueous phase liquid (DNAPL) within this area of the Site. Conversely, groundwater data from monitoring well OW1b (screened from 110 to 120 feet bgs) during the February 2003 semi-annual sampling event indicate only minimal VOC detections at this deeper interval (PCE concentration of 45 ug/l; TCE concentration of 2.2 ug/l; and 1,1-DCE concentration of 3.1 ug/l), and aquifer characteristics that limit the vertical migration of contamination in this area.

Groundwater data collected from monitoring wells located downgradient of the source areas indicate a trend towards decreasing total VOC concentrations, with increasing fractions of daughter products relative to the parent compounds along a defined contaminant flow path. To facilitate the analysis of VOC trends, two subsets of contaminants (chloroethenes and chloroethanes) and their degradation daughter products were identified. The flow path was defined by monitoring wells OW1, OW8, and OW4A. Well OW5, which is located downgradient from Washington Boulevard wells OW4a and OW4b, was also included in the evaluation. VOC concentrations within both subsets were converted to units of molar concentration by dividing each chemical concentration by its respective molecular weight. For those chemicals below the reporting limit, a value equivalent to one half of the reporting limit was applied. The results of this analysis are presented in Table F-1 and Figures F-1 and F-2 in Appendix F.

The summation of chloroethenes along the defined flow path, along with the ratio of sequential dechlorination daughter products are depicted in the table. As shown in the table, the total molar concentration of chloroethenes decreases along the flow path from 626 umoles/L (OW1) to 0.46 umoles/L (OW4A), with a subsequent increase to 9.8 umoles/L at OW5. These data suggest an attenuation of contaminant mass along this flow path with an increase of mass at the furthest downgradient well that may be attributed to commingling groundwater contaminant plumes. Furthermore, the ratio of PCE/TCE and TCE/cis-1,2-DCE decrease along this flow path suggesting an active biotransformation of parent compounds to daughter products.

Similar results are presented for the chloroethane contaminants and their daughter products in Table F-1. Similar analyses for the other subsets of contaminants were not performed due to the frequency of values below the reporting limits. The transient spike in the 1,1,2-TCA/1,2-DCA ratio is the result of concentrations below the reporting limits for both chemicals.

Despite the active dechlorination processes inferred from the above analyses, significant dechlorination to innocuous end products for the chloroethene contaminants (e.g., ethene) and chloroethane contaminants (ethane) is not evident. The non-detection of vinyl chloride in flow path monitoring wells and low concentrations of ethene at source area monitoring well OW1 (1.4 ug/l) and OW8 (1.0 ug/l) suggest limited potential for complete detoxification of the chloroethene contaminants through the reductive (anaerobic) pathways considered in this evaluation (see Tables 3-8 and 3-9 for biodegradation and natural attenuation results).

Similarly, the absence of chloroethane and low concentrations of ethane at source area monitoring well OW1 (3.2 ug/l) and OW8 (0.036 ug/l) suggest limited detoxification of the chloroethane contaminants through reductive dechlorination processes. Limited detoxification of the chloroethene and chloroethane contaminants through reductive processes is likely due to the presence of elevated sulfate concentrations (> 150 mg/L) that interfere with such reactions.

These interferences may be overcome through implementation of active remediation systems that can reduce sulfate concentrations and promote further detoxification of these contaminants. While biodegradation of the VOC daughter products to innocuous carbon dioxide may occur through oxidative processes under aerobic and iron-reducing conditions, such processes are not inferred through this limited data evaluation.

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In summary, results from this screening level evaluation of intrinsic biotransformation processes suggest that active dechlorination of the primary chloroethene, chloroethane, and chloromethane contaminants is occurring. Furthermore, while limited detoxification of these contaminants is occurring through reductive dechlorination processes, some detoxification of these contaminants through oxidative processes is possible. Future design of remediation systems to address these contaminants should consider biologically-mediated systems that are capable of achieving complete detoxification of these contaminants in-situ, thereby limiting risks associated with other technologies in which contaminant mass is transferred from one media to another.

4.2 Recommendations

Due to the variable subsurface lithology and distribution of chlorinated VOCs and 1,4-dioxane in the Phase 1a area, additional evaluation of the type of groundwater extraction well (horizontal and/or vertical), length and/or depth (horizontal and/or vertical) needs to be performed. The collection of soil and in-situ groundwater samples using direct-push methodology is recommended as a cost effective method to evaluate the lateral extent of the channel-like deposit and concentrations of chlorinated VOCS and 1,4-dioxane observed at the location of well OW8.

OPOG will submit a scope of work to USEPA for review and comment prior to implementation of the proposed field work. The scope of work will include a map showing proposed soil sampling locations. Upon completion of the field work,

OPOG will prepare a brief technical memorandum for submittal to USEPA summarizing the findings of the investigation.

Earlier conceptual designs for the groundwater treatment plant considered treatment for VOCs only. With the detection of relatively high concentrations of 1,4-dioxane in the on-site source area well (OW1) and elevated concentrations in the downgradient Putnam Street well (OW8), additional treatment requirements need to be considered. The compound 1,4-dioxane is not readily strippable or absorbed by granular activated carbon (GAC), therefore, alternative treatment methods (e.g., ultraviolet-oxidation [UV-OX]) need to be evaluated to address the detection of this compound.

DRAFT

Section 5
References

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Appendix A
Boring/Well Construction Logs and Electric Log

399-X\2062\LOGS\08/20/96

MONITORING WELL: OW-1

PROJECT NAME: Omega

PROJECT NUMBER: 445.2

DATE DRILLED: 6/4/96

SURFACE ELEVATION: 207.9 feet msl

BOREHOLE DIA.: 6.5-inch, reamed to 10"

TOTAL DEPTH OF BORING: 80 feet bls

DRILLING COMPANY: Gregg Drilling

METHOD: Hollow Stem Auger

DRILLER'S NAME: C. Winegarner

DRILL RIG: Mobile Drill B-61

LOGGED BY: G. Cranham (R.G.# 5897)

CHECKED BY: M. Palmer (R.G.# 5915)

LOCATION: See Figure 1.

COMMENTS: Sampler: 2.5 foot continous core sampler & 1½-inch SPT sampler.

Weather: Hazy sunshine, wind 0-5 mph from east, 70° F.

WELL DETAILS

DATE WELL INSTALLED: 6/4/96

SCREEN: 4-inch ID, 0.020-inch, stainless steel wire-wrap well screen.

CASING: 4-inch ID, flush threaded, schedule 40 PVC blank well casing.

DNAPL SUMP: 4-inch ID, flush threaded, stainless steel well casing

FILTER PACK MATERIAL: No. 2/12 Monterey Sand

SEAL: Concrete 0 to 3.5 feet bls
Neat Portland Cement 3.5 to 56.2 feet bls
Medium Bentonite tablets 56.2 to 59 feet bls

COVER: Above-ground locking steel vault

WATER LEVEL: 67.6 feet bls, (6/5/96)

SCREEN INTERVAL: 62.5 to 77.5 feet bls

CASING INTERVAL: 0 to 62.5 feet bls

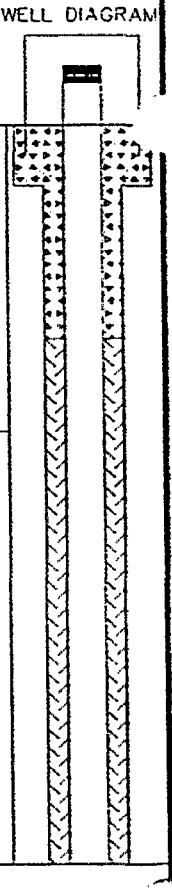
DNAPL SUMP CASING INTERVAL: 77.5 to 80 feet bls

FILTER PACK INTERVAL: 59 to 77.5 feet bls

COMMENTS Filter pack separated from cement seal surrounding DNAPL sump by canvas cementing basket.

DEPTH (feet)	SAMPLE	RECOVERY %	USCS	GRAPHIC LOG	LITHOLOGIC DESCRIPTION OF MATERIAL
1			ML CH		Concrete Slab Clayey Silt to Silty Clay. Very dark brown, moist to very moist, loose.
2					
3					
4					
5		72	ML		Silt with Sand, yellowish brown (10 YR 5/4), moist to very moist, soft to firm (crumbly), low plasticity, medium dry strength, low toughness, sand very fine, some carbonate pore fillings. [5-6.8': UV-no]
6					
7					
8		100			[7.5-10': UV-no]
9					
10		84			[10-12.1': UV-no]
11					

WELL DIAGRAM



RPT NO.

SHEET 1 OF 5

FIGURE B-3. LITHOLOGIC LOG FOR MONITORING WELL OW-1

PROJECT NAME: Omega

PROJECT NUMBER: 445.2

DATE DRILLED: 6/4/96

MONITORING WELL: OW-1

DEPTH (feet)	SAMPLE	RECOVERY %	USCS	GRAPHIC LOG	LITHOLOGIC DESCRIPTION OF MATERIAL	WELL DIAGRAM
		100	ML		[12.5–15': UV–no]	
13						
14					Root casts or soil pores common at 14 to 15 feet.	
15		84			Very moist at approximately 15 feet. [15–17.1': UV–no; Dye–no reaction]	
16					Granitic pebble at 15.7 feet	
17		100			[17.5–20': UV–no]	
18						
19						
20		92			[20–22.3': UV–no; Dye–no reaction]	
21						
22		36			[22.5–23.4: UV–no]	
23						
24						
25		0				
26						
27						
28		8				
29					(Clay ball in auger bit may have interfered with recovery.)	
30		88			Increased clay content at 30.1 to 30.4 feet.	
31			CH		Clay, brown (10 YR 4/3), moist, very stiff, medium to high plasticity, medium toughness, high dry strength; trace silt, trace sand, occasional pebbles	
32		72			[31.5–32.5: UV–no; Dye–no reaction] [32.5–34.3': UV–no]	

RPT NO.

SHEET 2 OF 5

FIGURE B–3. LITHOLOGIC LOG FOR MONITORING WELL OW–1

PROJECT NAME: Omega

PROJECT NUMBER: 445.2

DATE DRILLED: 6/4/96

MONITORING WELL: OW-1

DEPTH (feet)	SAMPLE	RECOVERY %	USCS	GRAPHIC LOG	LITHOLOGIC DESCRIPTION OF MATERIAL	WELL DIAGRAM
34			CH		Slickensided Structure at 33 feet.	
35		40			Increased silt content at 35.1 to 35.5 feet, stiff [35-36': UV-no; Dye-no reaction]	
36						
37			ML		Silt with Sand, same as 5 to 14 feet.	
38		52			[37.5-38.8': UV-no]	
39						
40		40			[40-41': UV-no; Dye-no reaction]	
41						
42						
43		92			[42.5-44.8': UV-no]	
44					43.6 to 44 feet: grades downward to clay.	
			CH		Clay, same as 31.2 to 37 feet.	
45		76			Increased silt content at 45 to 46 feet and 47.5 to 48 feet. [45-46.9': UV-carbonates; Dye-no reaction]	
46						
47						
48		84			[47.5-49.6': UV-carbonate]	
49					Carbonate streaks common at 49 to 52 feet.	
50		100			Slickensided structure at 50 to 51.5 feet [50-52.5': UV-carbonate; Dye-no reaction]	
51						
52						
53						

RPT NO.

SHEET 3 OF 5

FIGURE B-3. LITHOLOGIC LOG FOR MONITORING WELL OW-1

PROJECT NAME: Omega

PROJECT NUMBER: 445.2

DATE DRILLED: 6/4/96

MONITORING WELL: OW-1

DEPTH (feet)	SAMPLE	RECOVERY %	USCS	GRAPHIC LOG	LITHOLOGIC DESCRIPTION OF MATERIAL	WELL DIAGRAM
55			CH			
56						
57						
58						
59						
60						
61						
62						
63						
64						
65		96			Clay: dark brown. [65-67.4': UV-no; Dye-no reaction; OVA-12 ppm]	
66			ML		Silt, yellowish brown with reddish-brown fine sand patches, (silt: 10 YR 5/4; fine sand: 7.5 YR 5/8), moist	
67			CH		Silty Sand, very moist to wet, medium to coarse, 0.05 foot thick, at base of silt, slight chemical odor.	
68		100			Clay, same as 31.2 to 37 feet, stiff. [67.5-70': UV-no] Wet at 67.7 feet.	
69						
70						
71						
72		100			[72-73.5': UV-no]	
73						
74						

RPT NO.

SHEET 4 OF 5

FIGURE B-3. LITHOLOGIC LOG FOR MONITORING WELL OW-1

PROJECT NAME: Omega

PROJECT NUMBER: 445.2

DATE DRILLED: 6/4/96

MONITORING WELL: OW-1

DEPTH (feet)	SAMPLE	RECOVERY %	USCS	GRAPHIC LOG	LITHOLOGIC DESCRIPTION OF MATERIAL	WELL DIAGRAM
76		100	CH		Carbonate steaks common at 75 to 79.5 feet, Carbonate layer at 75.5 to 75.6 feet. Increased silt content below 75 feet, firm to stiff. [75–76.5': UV-carbonate]	
77						
78						
79		100			[78.5–80': UV-no] Granitic pebble at 78.7 feet	
80						
81					TOTAL DEPTH OF BORING = 80 FEET BELOW LAND SURFACE	
82						
83						
84						
85						
86						
87						
88						
89						
90						
91						
92						
93						
94						
95						

RPT NO.

SHEET 5 OF 5

FIGURE B-3. LITHOLOGIC LOG FOR MONITORING WELL OW-1

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER	10500-24699-T4.FIELD	BORING/WELL NUMBER	OW-1b
PROJECT NAME	Omega Chemical	DATE DRILLED	6/16/99-6/18/99
LOCATION	12504 East Whittier Blvd, Whittier, CA	CASING TYPE/DIAMETER	4" Sch 40, MS Blank
DRILLING METHOD	Hollow Stem Auger	SCREEN TYPE/SLOT	4" SS, 20-slot
SAMPLING METHOD	Modified CA Split Spoon	GRAVEL PACK TYPE	Lonestar #2/12
GROUND ELEVATION		GROUT TYPE/QUANTITY	Portland Cement/5% Bentonite/495 gal
TOP OF CASING		DEPTH TO WATER	59.00
LOGGED BY	Mike Hoffman	GROUND WATER ELEVATION	
REMARKS			

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0.0						CL		CONCRETE is 4 inches thick. SILTY CLAY: brown (10YR4/3); low plasticity, soft, no UV illumination, dry to moist, no odor.	0.3	
0.0	4 6 9	18			5	CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft, no UV illumination, dry to moist, no odor.	5.0	
0.0		18	OC-SG-OW1b-10-061699	SG	10	CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft, UV illuminated small fragments, dry to moist, no odor.	10.0	Cement-Bentonite Grout (0-96 ft bgs).
9.4	5 9 14	18			15	CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft; trace pebbles to 1/2" diameter; UV illuminated small fragments and streaks, dry to moist, no odor.	15.0	
0.0		18	OC-SG-OW1b-20-061699	SG	20	CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft; trace pebbles to 1/2" diameter; no UV illumination, dry to moist, no odor.	20.0	
9.4	9 16 20	18			25	CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft, no UV illumination, dry to moist, no odor.	25.0	4", Sch 40, MS Blank (0-110 ft bgs).
9.4		18	OC-SG-OW1b-30-061699	SG	30	CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft, no UV illumination, dry to moist, no odor.	30.0	
					35				35.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-24699-T4.FIELD **BORING/WELL NUMBER** OW-1b
PROJECT NAME Omega Chemical **DATE DRILLED** 6/16/99-6/18/99

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
75.2	10 18 22	18	OC-S-OW1b-35-061699			CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft, no UV illumination, dry to moist, no odor.	40.0	
18.8		18	OC-SG-OW1B-40-061699	SG	40	CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft, UV illuminated small fragments, dry to moist, no odor.	45.0	
47.0	12 17 25	18	OC-S-OW1b-45-061699		45	CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft, UV illuminated small fragments, dry to moist, no odor.	50.0	Cement-Bentonite Grout (0-96 ft bgs).
23.5		18	OC-SG-OW1b-50-061699	SG	50	CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft, UV illuminated small fragments, dry to moist, no odor.	55.0	
84.7	15 22 27	18	OC-S-OW1b-55-061699		55	CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft, UV illuminated small streaks, dry to moist, no odor.	60.0	
211.7		18	OC-SG-OW1b-60-061699	SG	60	CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft, UV illuminated precipitate, dry to moist, moderate to strong hydrocarbon odor.	65.0	
122.3	7 18 24	18	OC-S-OW1b-65-061699		65	CL		SILTY CLAY: dark yellowish brown (10YR4/4); low plasticity, soft, UV illuminated precipitate and fragments, dry to moist, moderate to strong hydrocarbon odor.	70.0	4", Sch 40, MS Blank (0-110 ft bgs).
28.2	15 20 22	18	OC-S-OW1b-70-061699		70	CL		SILTY CLAY: brown (10YR4/3); low plasticity, stiff, UV illuminated fragments and streaks, dry to moist, no odor.	75.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-24699-T4.FIELD **BORING/WELL NUMBER** OW-1b
PROJECT NAME Omega Chemical **DATE DRILLED** 6/16/99-6/18/99

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
21.5	14 28 30	18	OC-S-OW1b-75-061699			CL		SILTY CLAY: brown (10YR4/3); low plasticity, stiff, UV illuminated fragments and streaks, dry to moist, no odor.		
					80				80.0	Cement-Bentonite Grout (0-96 ft bgs).
21.5	12 28 31	18	OC-S-OW1b-80-061699			CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft, UV illuminated streaks, dry to moist, no odor.		
					85				85.0	
4.7	10 11 13	18				CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft, UV illuminated streaks, dry to moist, no odor.		
					90				90.0	4", Sch 40, MS Blank (0-110 ft bgs).
28.2	11 14 20	18	OC-S-OW1b-90-061699			CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft, no UV illumination, dry to moist, no odor.		
					95				95.0	
0.0	3 4 4	18				CL		SILTY CLAY: brown (10YR4/3); low plasticity, stiff, no UV illumination, dry to moist, no odor.		Bentonite Pellets (96-99 ft bgs).
					100				100.0	
0.0	3 4 6	18	OC-S-OW1b-100-061899			CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft to firm; traces of coarse sand to fine gravel; no UV illumination, dry to moist, no odor.		Lonestar #2/12 Filter Pack (99-130 ft bgs).
					105				105.0	
0.0	3 3 6	18				CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft to firm; traces of coarse sand to fine gravel; no UV illumination, dry to moist, no odor.		
					110				110.0	
0.0	5 5 9	18	OC-S-OW1b-110-061899			CL		SILTY CLAY: brown (10YR4/3); low plasticity, firm, no UV illumination, dry to moist, no odor.		4", SS, 20-slot, Screen (110-120 ft bgs).
					115				115.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-24699-T4.FIELD **BORING/WELL NUMBER** OW-1b
PROJECT NAME Omega Chemical **DATE DRILLED** 6/16/99-6/18/99

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (Inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0.0	10 14 17	18				CL		SILTY CLAY: brown (10YR4/3); low plasticity, firm, no UV illumination, dry to moist, no odor.	120.0	4", SS, 20-slot, Screen (110-120 ft bgs).
0.0	4 8 12	18	OC-S-OW1b-120-061899		120	CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft to firm; traces of coarse sand to fine gravel; no UV illumination, dry to moist, no odor.	125.0	
0.0	8 18 24	18			125	CL		SILTY CLAY WITH GRAVEL: brown (10YR4/3); 85% silty clay, low plasticity, soft; 15% gravel in matrix, up to 1/2" diameter, angular to subrounded, low to moderate sphericity; no UV illumination, moist, no odor.	130.0	Lonestar #2/12 Filter Pack (99-130 ft bgs).
0.0	6 8 14	18			130	CL		SILTY CLAY: brown (10YR4/3); low plasticity, soft to firm; traces of coarse sand to fine gravel; no UV illumination, dry to moist, no odor.	131.5	TD = 130 ft bgs.

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER	10500-24699-T4.FIELD	BORING/WELL NUMBER	OW-2
PROJECT NAME	Omega Chemical	DATE DRILLED	6/17/99
LOCATION	12504 East Whittier Blvd, Whittier, CA	CASING TYPE/DIAMETER	4" Sch 40, MS Blank
DRILLING METHOD	Hollow Stem Auger	SCREEN TYPE/SLOT	4" SS, 20-slot
SAMPLING METHOD	Modified CA Split Spoon	GRAVEL PACK TYPE	Lonestar #2/12
GROUND ELEVATION		GROUT TYPE/QUANTITY	Portland Cement/5% Bentonite/205 gal
TOP OF CASING		DEPTH TO WATER	
LOGGED BY	Mike Hoffman	GROUND WATER ELEVATION	
REMARKS			

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0.0						CL		CONCRETE is 3 inches thick. SILTY CLAY: brown (10YR4/3); 100% silty clay, low plasticity,stiff, soft, moist, no odor.	0.3	
0.0	5 9 10	18			5	CL		SILTY CLAY: dark brown (10YR3/3); 100% silty clay, low plasticity, soft, moist, no odor.	5.0	
0.0	5 5 14	18			10	CL		SILTY CLAY: dark brown (10YR3/3); 100% silty clay, low plasticity, soft, moist, no odor.	10.0	Cement-Bentonite Grout (0-50 ft bgs).
0.0	10 13 15	18			15	CL		SILTY CLAY: dark brown (10YR3/3); 100% silty clay, low plasticity, soft, moist, no odor.	15.0	
0.0	6 8 19	18			20	CL		SILTY CLAY: dark brown (10YR3/3); 100% silty clay, low plasticity, soft, moist, no odor.	20.0	
0.0	13 15 21	18			25	CL		SILTY CLAY: dark brown (10YR3/3); 100% silty clay, low plasticity, soft, moist, no odor.	25.0	4", Sch 40, MS Blank (0-60 ft bgs).
10.6	NA	18			30	CL		SILTY CLAY: dark brown (10YR3/3); 100% silty clay, low plasticity, soft, moist, no odor.	30.0	
					35				35.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-24699-T4.FIELD **BORING/WELL NUMBER** OW-2
PROJECT NAME Omega Chemical **DATE DRILLED** 6/17/99

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
16.5	8 12 19	18				CL		SILTY CLAY: dark brown (10YR4/3); 100% silty clay, low plasticity; trace coarse sand to 1/4" diameter gravel; firm, moist, no odor.		Cement-Bentonite Grout (0-50 ft bgs).
					40				40.0	
16.5	15 19 22	18				CL		SILTY CLAY: dark brown (10YR3/3); 100% silty clay, low plasticity, soft, moist, no odor.		
					45				45.0	4", Sch 40, MS Blank (0-60 ft bgs).
49.3	16 23 29	18	OC-S-OW2-45-061799			CL		SILTY CLAY: dark brown (10YR4/3); 100% silty clay, low plasticity; trace coarse sand to 1/4" diameter gravel; firm, moist, no odor.		
					50				50.0	
32.9	8 17 20	18				CL		SILTY CLAY: dark brown (10YR4/3); 100% silty clay, low plasticity; trace coarse sand to 1/4" diameter gravel; firm, moist, no odor.		Bentonite Pellets (50-55 ft bgs).
					55				55.0	
0.0	9 14 20	18				ML		SILT WITH SAND: brown (10YR4/3); 85% silt, loose, soft, slightly cohesive; 15% very fine sand; slightly moist, no odor.		Lonestar #2/12 Filter Pack (55-85 ft bgs).
					60				60.0	
27.4	7 7 20	18	OC-S-OW2-60-061799			SP SM		POORLY GRADED SAND WITH SILT: brown (10YR4/3); 90% sand, very fine to fine; 10% silt in matrix,; slightly moist, no odor.		
					65				65.0 ▽	
21.9	10 14 22	18				SP SM		POORLY GRADED SAND WITH SILT: gray (10YR5/1); 95% sand, very fine to fine; 5% silt in matrix; very moist, slightly cohesive, no odor.		4", SS, 20-slot, Screen (60-80 ft bgs).
					70				70.0	
0.0	10 10 17	18				SP SM		POORLY GRADED SAND WITH SILT: gray (10YR5/1); 95% sand, very fine to fine; 5% silt in matrix; very moist, slightly cohesive, no odor.		
					75				75.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-24699-T4.FIELD **BORING/WELL NUMBER** OW-2

PROJECT NAME Omega Chemical **DATE DRILLED** 6/17/99

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0.0	13 21 30	18				CL		SILTY CLAY: dark grayish brown (10YR4/2); 100% silty clay, low plasticity, soft, moist, no odor.	80.0	4", SS, 20-slot, Screen (60-80 ft bgs).
0.0	12 18 24	18	OC-S-OW2-80-061799		80	SC		CLAYEY SAND: brown (10YR4/3); 80% sand, very fine to fine: 20% clay in matrix and as balls, moderate plasticity; saturated, no odor.	85.0	Lonestar #2/12 Filter Pack (55-85 ft bgs).
0.0	NA	18			85	CL		SILTY CLAY: dark grayish brown (10YR4/2); 100% silty clay, low plasticity, soft, moist, no odor.	86.5	TD = 85 ft bgs.

LAEWNN01 OMEGA.GPJ LAEWNN01.GDT 9/24/99

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER	10500-24699-T4.FIELD	BORING/WELL NUMBER	OW-3
PROJECT NAME	Omega Chemical	DATE DRILLED	6/15/99
LOCATION	12504 East Whittier Blvd, Whittier, CA	CASING TYPE/DIAMETER	4" Sch 40, MS Blank
DRILLING METHOD	Hollow Stem Auger	SCREEN TYPE/SLOT	4" SS, 20-slot
SAMPLING METHOD	Modified CA Split Spoon	GRAVEL PACK TYPE	Lonestar #2/12
GROUND ELEVATION		GROUT TYPE/QUANTITY	Portland Cement/5% Bentonite/210 gal
TOP OF CASING		DEPTH TO WATER	59.00
LOGGED BY	Mike Hoffman	GROUND WATER ELEVATION	
REMARKS			

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0.0						CL		CONCRETE is 3 inches thick. SILTY CLAY: brown (10YR4/3); 100% silty clay, low plasticity, soft, moist, no odor.	0.3	
0.0	3 3 4	18			5	CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, low plasticity, soft, moist, no odor.	5.0	
0.0	4 6 10	18			10	CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, low plasticity, soft, moist, no odor.	10.0	Cement-Bentonite Grout (0-53 ft bgs).
0.0	5 5 14	18			15	CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, low plasticity, stiff, moist, no odor.	15.0	
0.0	5 7 13	18			20	CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, low plasticity, stiff, moist, no odor.	20.0	
0.0	10 12 17	18			25	CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, low plasticity, soft, moist, no odor.	25.0	4", Sch 40, MS Blank (0-63 ft bgs).
0.0	8 12 16	18			30	CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, low plasticity, stiff, moist, no odor.	30.0	
					35				35.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-24699-T4.FIELD **BORING/WELL NUMBER** OW-3
PROJECT NAME Omega Chemical **DATE DRILLED** 6/15/99

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0.0	10 13 20	18				CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, low plasticity, stiff, moist, no odor.		Cement-Bentonite Grout (0-53 ft bgs).
					40				40.0	
13.3	10 13 19	18	OC-S-OW3-45-061599			CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, low plasticity, stiff, moist, no odor.		
					45				45.0	4", Sch 40, MS Blank (0-63 ft bgs).
0.0	12 16 22	18				CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, low plasticity, stiff, moist, no odor.		
					50				50.0	
0.0	14 19 29	18	OC-S-OW3-50-061599			SW		WELL GRADED SAND: dark yellowish brown (10YR3/4); 95% sand, very fine to very coarse, angular to rounded, low to high sphericity; 5% gravel to 1/4" diameter, angular to subrounded, low to moderate sphericity; trace silt in matrix; moist, no odor.		
					55				55.0	
0.0	22 28 31	18				SW		NO RECOVERY: assuming sand and gravel.		Bentonite Pellets (53-58 ft bgs).
					60				60.0	Lonestar #2/12 Filter Pack (58-85 ft bgs).
0.0	21 28 31	18				CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, low plasticity, soft, moist, no odor.		
					65				65.0	
0.0	17 25 40	18				CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, low plasticity, soft, moist, no odor.		4", SS, 20-slot, Screen (63-83 ft bgs).
					70				70.0	
0.0	12 17 23	18				GC		CLAYEY GRAVEL: brown (10YR4/3); 60% gravel, angular to subrounded, low to moderate sphericity; 35% silty clay, low plasticity; 5% well graded sand, very fine to coarse; moist, no odor.		
					75				75.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-24699-T4.FIELD **BORING/WELL NUMBER** OW-3
PROJECT NAME Omega Chemical **DATE DRILLED** 6/15/99

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0.0	8 18 20	18	OC-S-OW3-75-061599			CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, low plasticity, soft; trace gravel; moist, no odor.	80.0	4", SS, 20-slot, Screen (63-83 ft bgs).
0.0	5 9 14	18			80	CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, low plasticity, soft; trace gravel; moist, no odor.	85.0	Lonestar #2/12 Filter Pack (58-85 ft bgs).
0.0	10 31 21	18			85	CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, low plasticity, stiff; trace gravel; moist, no odor.	86.5	TD = 85 ft bgs.

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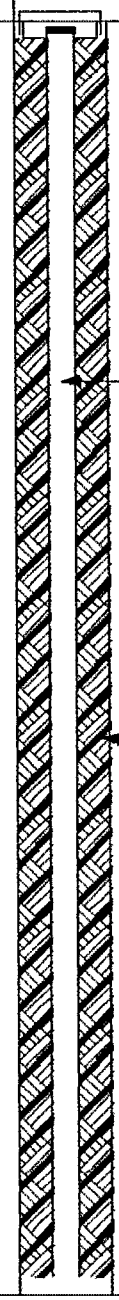
BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER	10500-30697-TO5B.INSTALL	BORING/WELL NUMBER	OW-4A
PROJECT NAME	Omega Chemical	DATE DRILLED	3/15/01
LOCATION	12504 East Whittier Blvd, Whittier, CA	CASING TYPE/DIAMETER	Sch 40, Mild Steel / 4"
DRILLING METHOD	Hollow Stem Auger	SCREEN TYPE/SLOT	4" Stainless Steel Wire Wrap / 0.020"
SAMPLING METHOD	CME Continous Core	GRAVEL PACK TYPE	Lonestar #2/12
GROUND ELEVATION	182.73	GROUT TYPE/QUANTITY	Portland Cement/5% Bentonite/210 gal
TOP OF CASING	182.47	STATIC WATER LEVEL (feet btoc)	54.87
LOGGED BY	W.F. Grove	GROUND WATER ELEVATION	127.60

REMARKS: Well is on north side of Washington Blvd., east of Lambert Rd.

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								ASPHALT is 4-inches thick.	0.3
								ROAD BASE	2.0
0.0						CL		SILTY CLAY: dark brown (10YR3/3); 100% silty clay, slightly plastic, soft, moist, no odor.	5.0
0.0		60			5	CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, slightly plastic, soft, moist, no odor. Trace gravel at 9-feet, fine to coarse, 1-inch maximum diameter.	10.0
0.0		30			10	CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, slightly plastic, soft, moist, no odor; increasing gravel, fine to coarse, 1-inch maximum diameter. Probable rock, no recovery below 12.5 feet.	12.5
								NO RECOVERY	15.0
		0			15			NO RECOVERY: Rock probably in front of sampler.	20.0
		0			20			NO RECOVERY: Rock probably in front of sampler. Cuttings indicate a silty clay.	25.0
0.0		18			25	CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, slightly plastic, firm, moist.	26.5
								NO RECOVERY	30.0
0.0		12			30	CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, slightly plastic, firm, moist.	31.0
								NO RECOVERY: attached a standard split spoon to resample.	32.0
0.0		12				CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, slightly plastic, firm, moist.	33.0
								NO RECOVERY: Broke some of a rock up and out, may work now.	35.0

WELL DIAGRAM



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NEWGINT OMEGA.GPJ NEWGINT.GDT 12/20/01

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-30697-TO5B.INSTALL **BORING/WELL NUMBER** OW-4A
PROJECT NAME Omega Chemical **DATE DRILLED** 3/15/01

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
		0						NO RECOVERY: Rock probably in front of sampler.	40.0
0.0		24			40	CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, slightly plastic, firm, moist.	41.0
						ML		CLAYEY SILT: brown (10YR4/3); 100% clayey silt, inelastic, soft, moist, no odor.	42.0
								NO RECOVERY	45.0
		50.4			45	ML		CLAYEY SILT: brown (10YR4/3); 100% clayey silt, inelastic, soft, moist, no odor.	46.0
						CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, nonplastic, soft to moderately hard, firmer, moist, no odor.	49.2
								NO RECOVERY	50.0
0.0		45.6			50	ML		SANDY SILT: yellowish brown (10YR5/4); 70% silt, soft; 30% poorly graded sand, very fine to fine, subrounded.	52.2
						SM		SILTY SAND: brown (10YR5/3); 85% poorly graded sand, very fine to fine, subrounded; 15% silt, soft.	53.8
								NO RECOVERY	55.0
0.0		51.6			55	SM		SILTY SAND: brown (10YR5/3); 85% poorly graded sand, very fine to fine, subrounded; 15% silt, soft.	57.0
						CL		SILTY CLAY WITH SAND: brown (10YR4/3); 55% clay, nonplastic, firm; 25% silt; 20% poorly graded sand, very fine to fine, subrounded; moist, no odor.	58.0
						SP		POORLY GRADED SAND: brown (10YR4/3) and pale brown (10YR6/3); 100% sand, fine to medium, subangular to subrounded; very moist. Encountered groundwater at 58-feet bgs.	59.3
0.0		50.4			60	SP		NO RECOVERY	60.0
								POORLY GRADED SAND: brown (10YR4/3) and pale brown (10YR6/3); 100% sand, fine to medium, subangular to subrounded; saturated. Encountered groundwater at 58-feet bgs.	63.4
						SM		SILTY SAND: pale brown (10YR6/3); 65% poorly graded sand, very fine, subrounded; 35% silt, enough to limit permeability; moist, no odor.	64.2
0.0		39.6			65	SM		NO RECOVERY	65.0
						SW		SILTY SAND: pale brown (10YR6/3); 65% poorly graded sand, very fine, subrounded; 35% silt, enough to limit permeability; moist, no odor.	66.2
								WELL GRADED SAND: pale brown (10YR6/3); 100% sand, fine to coarse, subangular to subrounded, saturated, no odor.	68.3
								NO RECOVERY	70.0
0.0		60			70	SW		WELL GRADED SAND (possible sluff): pale brown (10YR6/3); 100% sand, fine to coarse, subangular to subrounded, saturated, no odor.	73.0
						SP		POORLY GRADED SAND: pale brown (10YR6/3); 100% sand, fine to medium, increasing fineness with depth, subangular to subrounded, saturated, no odor.	75.0
					75				

WELL DIAGRAM

- 4", Sch 40, MS Blank (0.3 - 49.8 ft bgs)
- Portland Cement w/5% Bentonite Grout (2 - 42.5 ft bgs)
- Bentonite Chips (42.5 - 47.7 ft bgs)
- Lonestar #2/12 Filter Pack (47.7 - 75.7 ft bgs)
- 4", 20-slot, SS Wire Wrap Screen (49.8 - 69.8 ft bgs)
- 4", 20-slot, SS Wire Wrap Screen (69.8 - 74.8 ft bgs)

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-30697-TO5B.INSTALL **BORING/WELL NUMBER** OW-4A
PROJECT NAME Omega Chemical **DATE DRILLED** 3/15/01

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0.0		48				SP		POORLY GRADED SAND: pale brown (10YR6/3); 100% sand, fine to medium, increasing fineness with depth, subangular to subrounded, saturated, no odor.	76.0	
						SW		WELL GRADED SAND WITH GRAVEL: brown (10YR4/3); 70% sand, fine to coarse, subrounded to subangular, low to moderate sphericity; 30% gap graded gravel, fine to coarse, 2-inch maximum diameter, angular to subrounded, low to moderate sphericity; saturated, no odor.	78.0	Fill (76 - 80 ft bgs)
						CL		GRAVELLY CLAY: brown (10YR4/3); 60% clay, nonplastic, moderately firm; 25% gap graded gravel, fine to coarse, 2-inch maximum diameter, angular to subrounded, low to moderate sphericity; 15% gap graded sand, fine to coarse, subangular to subrounded, low to moderate sphericity; moist to saturated, no odor.	79.0	
					80			NO RECOVERY	80.0	

Total Depth of Borehole is 80 feet bgs.

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER	10500-30697-TO5B.INSTALL	BORING/WELL NUMBER	OW-4B
PROJECT NAME	Omega Chemical	DATE DRILLED	3/28/01
LOCATION	12504 East Whittier Blvd, Whittier, CA	CASING TYPE/DIAMETER	Sch 40, Mild Steel / 4"
DRILLING METHOD	Mud Rotary	SCREEN TYPE/SLOT	4" Stainless Steel Wire Wrap / 0.020"
SAMPLING METHOD	Grab Samples	GRAVEL PACK TYPE	Lonestar #2/12
GROUND ELEVATION	182.63	GROUT TYPE/QUANTITY	Portland Cement/5% Bentonite/210 gal
TOP OF CASING	182.22	STATIC WATER LEVEL (feet btoc)	61.67
LOGGED BY	W.F. Grove	GROUND WATER ELEVATION	120.55

REMARKS: Well is on north side of Washington Blvd., east of Lambert Rd.

(ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								ASPHALT is 4-inches thick.	0.3
								ROAD BASE	2.0
						CL		SILTY CLAY: dark brown (10YR3/3); 100% silty clay, slightly plastic, soft, moist, no odor.	5.0
					5	CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, slightly plastic, soft, moist, no odor. Trace gravel at 9-feet, fine to coarse, 1-inch maximum diameter.	10.0
					10	CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, slightly plastic, soft, moist, no odor; increasing gravel, fine to coarse, 1-inch maximum diameter. Probable rock, no recovery below 12.5 feet.	12.5
								NO RECOVERY	16.0
					15	CL		SILTY CLAY WITH GRAVEL: brown (10YR4/3); 100% silty clay, slightly plastic, soft, moist, no odor; increasing gravel, fine to coarse, 1-inch maximum diameter. Back to silty clay at 19 ft bgs.	19.0
					20			NO RECOVERY	25.0
					25	CL		SILTY CLAY: brown (10YR4/3); 90% silty clay, slightly plastic, firm, moist; 10% gravel and rock fragments.	28.0
					30	CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, slightly plastic, firm, moist; trace gravel and rock fragments.	33.0
								SILTY CLAY: brown (10YR4/3); 100% silty clay, slightly plastic, firm, moist.	
								NO RECOVERY	35.0
					35				

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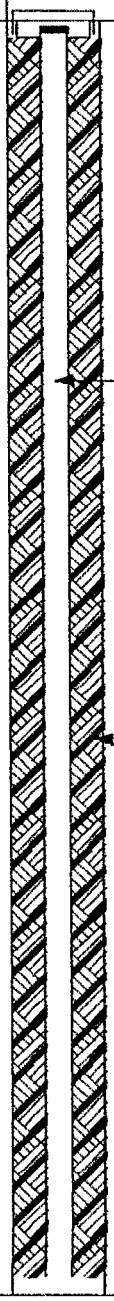
WELL DIAGRAM



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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-30697-TO5B.INSTALL **BORING/WELL NUMBER** OW-4B
PROJECT NAME Omega Chemical **DATE DRILLED** 3/28/01

Continued from Previous Page

(ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
						CL		SILTY CLAY: brown (10YR4/3); 80% silty clay, slightly plastic, firm, moist; 20% poorly graded sand, medium to coarse, angular to subrounded.	37.0	
								NO RECOVERY	40.0	
					40	CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, slightly plastic, firm, moist.	41.0	
						ML		CLAYEY SILT: brown (10YR4/3); 100% clayey silt, inelastic, soft, moist, no odor.	42.0	
								NO RECOVERY Below 43-feet, only trace sand.	45.0	
					45	ML		CLAYEY SILT: brown (10YR4/3); 100% clayey silt, inelastic, soft, moist, no odor.	46.0	4", Sch 40, MS Blank (0.3 - 112 ft bgs)
						CL		SILTY CLAY: brown (10YR4/3); 100% silty clay, nonplastic, soft to moderately hard, firmer, moist, no odor.	49.2	
								NO RECOVERY	50.0	
					50	ML		SANDY SILT: yellowish brown (10YR5/4); 70% silt, soft; 30% poorly graded sand, very fine to fine, subrounded.	52.2	
						SM		SILTY SAND: brown (10YR5/3); 85% poorly graded sand, very fine to fine, subrounded; 15% silt, soft.	53.8	
								NO RECOVERY	55.0	
					55	SM		SILTY SAND: brown (10YR5/3); 85% poorly graded sand, very fine to fine, subrounded; 15% silt, soft.	57.0	Portland Cement w/5% Bentonite Grout (2 - 105 ft bgs)
						CL		SILTY CLAY WITH SAND: brown (10YR4/3); 55% clay, nonplastic, firm; 25% silt; 20% poorly graded sand, very fine to fine, subrounded; moist, no odor.	58.0	
						SP		POORLY GRADED SAND: brown (10YR4/3) and pale brown (10YR6/3); 100% sand, fine to medium, subangular to subrounded; very moist. Encountered groundwater at 58-feet bgs.	59.3 60.0	
					60	SP		NO RECOVERY POORLY GRADED SAND: brown (10YR4/3) and pale brown (10YR6/3); 100% sand, fine to medium, subangular to subrounded; saturated. Encountered groundwater at 58-feet bgs.	63.4	
						SM		SILTY SAND: pale brown (10YR6/3); 65% poorly graded sand, very fine, subrounded; 35% silt, enough to limit permeability; moist, no odor.	64.2 65.0	
					65	SM		NO RECOVERY	66.2	
						SW		SILTY SAND: pale brown (10YR6/3); 65% poorly graded sand, very fine, subrounded; 35% silt, enough to limit permeability; moist, no odor.	68.3	
								WELL GRADED SAND: pale brown (10YR6/3); 100% sand, fine to coarse, subangular to subrounded, saturated, no odor. NO RECOVERY	70.0	
					70	SW		WELL GRADED SAND (possible sluff): pale brown (10YR6/3); 100% sand, fine to coarse, subangular to subrounded, saturated, no odor.	73.0	
						SP		POORLY GRADED SAND: pale brown (10YR6/3); 100% sand, fine to medium, increasing fineness with depth, subangular to subrounded, saturated, no odor.	75.0	
					75					

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-30697-TO5B.INSTALL **BORING/WELL NUMBER** OW-4B

PROJECT NAME Omega Chemical **DATE DRILLED** 3/28/01

Continued from Previous Page

(ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
						SP		POORLY GRADED SAND: pale brown (10YR6/3); 100% sand, fine to medium, increasing fineness with depth, subangular to subrounded, saturated, no odor.	76.0	
						SW		WELL GRADED SAND WITH GRAVEL: brown (10YR4/3); 70% sand, fine to coarse, subrounded to subangular, low to moderate sphericity; 30% gap graded gravel, fine to coarse, 2-inch maximum diameter, angular to subrounded, low to moderate sphericity; saturated, no odor.	77.0	
						CL			78.0	
					80	SP		GRAVELLY CLAY: brown (10YR4/3); 60% clay, nonplastic, moderately firm; 25% gap graded gravel, fine to coarse, 2-inch maximum diameter, angular to subrounded, low to moderate sphericity; 15% gap graded sand, fine to coarse, subangular to subrounded, low to moderate sphericity; moist to saturated, no odor.	80.0	
					85			POORLY GRADED SAND: 100% sand , fine to medium, subangular to subrounded, moderate sphericity, no odor. Rig chatter at 86 feet bgs. NO RECOVERY	86.0	4", Sch 40, MS Blank (0.3 - 112 ft bgs)
								CLAY: no cuttings, lithology based on geophysical log.		
					90					
					95			CLAY: brown (10YR4/3), and POORLY GRADED SAND: fine to medium, subangular to subrounded, moderate sphericity, no odor.		Portland Cement w/5% Bentonite Grout (2 - 105 ft bgs)
						CL		CLAY: brown (10YR4/3)		
					100			CLAY WITH SAND		
								CLAY AND SAND		
					105			CLAY WITH SAND		
								SAND: no cuttings, lithology based on geophysical log.	108.0	Bentonite Pellets (105 - 109.5 ft bgs)
					110					Lonestar #2/12 Filter Pack (109.5 - 132 ft bgs)
					115					

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-30697-TO5B.INSTALL **BORING/WELL NUMBER** OW-4B

PROJECT NAME Omega Chemical **DATE DRILLED** 3/28/01

Continued from Previous Page

(ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
						SP				4", 20-slot, SS Wire Wrap Screen (112 - 122.3 ft bgs)
					120			Total depth of geophysical survey is 122 ft bgs.	122.0	
								SAND: No cuttings collected, lithology based upon the response of the drill rig.		4" Sch 40, Stainless Steel Blank (122.3 - 127.2 ft bgs)
					125	SP				
					130					Lonestar #2/12 Filter Pack (109.5 - 132 ft bgs)
								Total Depth of Borehole is 132 feet bgs.	132.0	

NEWGINT OMEGA.GPJ NEWGINT.GDT 12/20/01

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER	10500-30697-TO5B.INSTALL	BORING/WELL NUMBER	OW-5
PROJECT NAME	Omega Chemical	DATE DRILLED	8/6/01
LOCATION	12504 East Whittier Blvd, Whittier, CA	CASING TYPE/DIAMETER	Sch 40, PVC / 4"
DRILLING METHOD	Hollow Stem Auger	SCREEN TYPE/SLOT	4" Stainless Steel Wire Wrap / 0.020"
SAMPLING METHOD	CME Continous Core	GRAVEL PACK TYPE	Monterey #2/12
GROUND ELEVATION	152.68	GROUT TYPE/QUANTITY	Portland Cement/5% Bentonite/210 gal
TOP OF CASING	151.96	STATIC WATER LEVEL (feet btoc)	28.18
LOGGED BY	Mike Hoffman	GROUND WATER ELEVATION	123.78
REMARKS			

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
		60				SM		ASPHALT is 6-inches thick. SILTY SAND; very dark gray (10YR3/1); 85% poorly graded sand, fine grained; 15% silt in matrix; moist; slightly cohesive; organic odor.	0.5
3.8		60			5			CLAY; very dark brown (10YR3/2); 100% clay, nonplastic, medium stiff; moist; numerous white inclusions.	5.0
0		60			10	CL		CLAY; as above except brown (10YR4/3) and contains trace fine gravel with subangular clasts.	
0		60			15			CLAY WITH SAND; dark yellow brown (10YR4/4); 85% clay, nonplastic, medium stiff; 15% fine sand; moist.	15.0
								CLAY; brown (10YR4/3); 100% clay; nonplastic, medium stiff; moist; numerous white inclusions.	16.5
0		60			20			CLAY; as above except dark yellow brown (10YR3/4).	
0		60			25	CL		NO RECOVERY (25-26.5 feet)	
								CLAY; as above except is low plastic; contains trace black inclusions; trace reddish (Fe) staining (weathering).	
0		42			30			CLAY; as above except dark greenish brown (10YR4/2); abundant mica; wet; lacks black and white inclusions.	
					35				

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NEWGINT OMEGA.GPJ NEWGINT.GDT 12/20/01

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-30697-TO5B.INSTALL **BORING/WELL NUMBER** OW-5

PROJECT NAME Omega Chemical **DATE DRILLED** 8/6/01

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0		48						NO RECOVERY (35-36 feet)	36.0	#2/12 Monterey Sand Filter Pack (25-51 ft bgs)
						ML		SILT; very dark brown (10YR3/2); 100% silt, low plasticity, medium stiff; abundant mica; wet.	39.0	
0		42			40	SM		SILTY SAND; very dark green brown (10YR3/2); 70% sand, fine; 30% silt in matrix; micaceous; wet. NO RECOVERY (40-41.5 feet) SILTY SAND; as above.	42.5	
2.3						SW		SAND; olive brown (2.5Y4/3); 100% sand, fine to coarse grained, subrounded to subangular, well graded; trace fine gravel, diameters to 1/4 inch, subangular.	45.0	#2/12 Monterey Sand Filter Pack (25-51 ft bgs)
					45	SP		SAND: lithology based on the response of the drill rig.	52.0	Slough
					50					

NEWGINT OMEGA.GPJ NEWGINT.GDT 12/20/01

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER	10500-30697-TO5B.INSTALL	BORING/WELL NUMBER	OW-6
PROJECT NAME	Omega Chemical	DATE DRILLED	3/16/01
LOCATION	12504 East Whittier Blvd, Whittier, CA	CASING TYPE/DIAMETER	Sch 40, Mild Steel / 4"
DRILLING METHOD	Hollow Stem Auger	SCREEN TYPE/SLOT	4" Stainless Steel Wire Wrap / 0.020"
SAMPLING METHOD	CME Continous Core	GRAVEL PACK TYPE	Lonestar #2/12
GROUND ELEVATION	170.94	GROUT TYPE/QUANTITY	Portland Cement/5% Bentonite/210 gal
TOP OF CASING	170.54	STATIC WATER LEVEL (feet btoc)	43.95
LOGGED BY	W.F. Grove	GROUND WATER ELEVATION	126.59

REMARKS: Well is on west side of Lambert Rd., south of Washington Blvd.

(ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								ASPHALT is 4-inches thick.	0.3
								ROAD BASE	2.0
						CL		SILTY CLAY: dark grayish brown (10YR4/2); 100% silty clay, slightly plastic, moist, no odor.	5.0
0.0		36			5	CL		SILTY CLAY: brown (10YR5/3) with heavy mottling from 7' to 8'; 100% silty clay grading to clay, slightly plastic; trace gravel, fine, 1/2-inch maximum diameter; moist, no odor.	8.0
								NO RECOVERY	10.0
0.0		55.2			10	CL		SILTY CLAY: brown (10YR4/3) moderate to heavy mottling; 85% clay, 15% silt, slightly plastic; trace gravel; moist, no odor.	12.0
						CL		CLAY: brown (10YR4/3) mottled; 90% clay, slightly plastic; 10% gravel, fine, 1/2-inch maximum diameter, increasing with depth; moist, no odor.	14.6
0.0		36.08			15	ML		NO RECOVERY CLAYEY SILT: brown (10YR4/3) mottling; 100% clayey silt, firm; trace gravel, fine, 3/4-inch maximum diameter; moist, no odor.	15.0 18.1
								NO RECOVERY	20.0
0.0		60			20	CL		SILTY CLAY: brown (10YR4/3) slight mottling; 100% clay, nonplastic, firm, moist, no odor.	
0.0		55.2			25			SILTY CLAY: brown (10YR4/3) slight mottling; 100% clay, nonplastic, firm, moist, no odor.	29.6
0.0		47			30	CL		NO RECOVERY SILTY CLAY: brown (10YR4/3) slight mottling; 100% clay, nonplastic, firm, moist, no odor.	30.0 33.9
								NO RECOVERY	35.0
					35			Continued Next Page	

WELL DIAGRAM

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-30697-TO5B.INSTALL **BORING/WELL NUMBER** OW-6

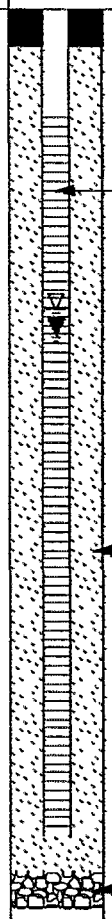
PROJECT NAME Omega Chemical **DATE DRILLED** 3/16/01

Continued from Previous Page

(ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.0		60				CL		SILTY CLAY: brown (10YR4/3) slight mottling; 100% clay, nonplastic, firm, moist, no odor.	36.8
						ML		SANDY SILT: brown (10YR4/3); 70% silt, moderately soft; 30% poorly graded sand, very fine, subrounded; moist, no odor.	38.2
						SM		SILTY SAND: brown (10YR4/3); 70% poorly graded sand, very fine, subrounded; 30% silt, soft; moist, no odor.	39.2
						ML		SANDY SILT: brown (10YR4/3); 70% silt, moderately soft; 30% poorly graded sand, very fine, subrounded; moist, no odor.	40.0
0.0		39.6			40	SP		POORLY GRADED SAND: brown (10YR4/3); 100% sand, very fine to fine, subrounded; trace silt; moist, no odor.	42.2
						SM		SILTY SAND: brown (10YR4/3); 70% sand, very fine to fine, subrounded; 30% silt, soft; moist, no odor.	42.8
						SP		POORLY GRADED SAND: pale brown (10YR6/3); 100% sand, fine to medium, subangular to subrounded; trace silt; wet, no odor.	43.3
		0			45			NO RECOVERY	
0.0		42			50	SP		POORLY GRADED SAND (SLUFF): brown (10YR5/3); 100% flowing sand, fine, some medium, trace coarse, saturated, no odor.	50.0
								NO RECOVERY	53.5
0.0		60			55	SP		POORLY GRADED SAND (SLUFF): brown (10YR5/3); 100% flowing sand, fine, some medium, trace coarse, saturated, no odor.	55.0
0.0		18			60				61.5

Total Depth of Borehole is 61.5 feet bgs.

WELL DIAGRAM



4", 20-slot, SS Wire Wrap Screen (38 - 58 ft bgs).

Lonestar #2/12 Filter Pack (36 - 59 ft bgs)

Fill (59 - 60 ft bgs).

NEWGINT OMEGA.GPJ NEWGINT.GDT 12/20/01

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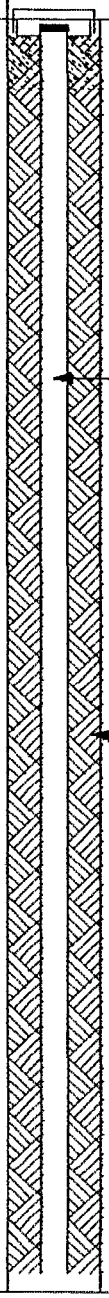
BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER	10500-30697-TO5B.INSTALL	BORING/WELL NUMBER	OW-7
PROJECT NAME	Omega Chemical	DATE DRILLED	3/13/02
LOCATION	12504 East Whittier Blvd, Whittier, CA	CASING TYPE/DIAMETER	Sch 40, Mild Steel / 4"
DRILLING METHOD	Hollow Stem Auger	SCREEN TYPE/SLOT	4" Stainless Steel Wire Wrap / 0.020"
SAMPLING METHOD	Modified CA Split Spoon	GRAVEL PACK TYPE	Monterey #2/12
GROUND ELEVATION	213.34	GROUT TYPE/QUANTITY	Portland Cement/5% Bentonite
TOP OF CASING	212.01	STATIC WATER LEVEL (feet btoc)	76.00
LOGGED BY	W.F. Grove	GROUND WATER ELEVATION	136.01
REMARKS			

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								CONCRETE is 8 inches thick.	0.7
								ROADBASE	1.0
						CL		CLAY: brown (7.5YR4/3); slightly plastic, soft, moist; minor rock.	
	8,9, 10	12			5				
	4,7, 11	14				ML		CLAYEY SILT: brown (7.5YR4/3); very slightly plastic, soft, moist; 30% clay, 70% silt.	6.5
0	5,6, 11,12	20				CL		SILTY CLAY: brown (7.5YR4/3); very slightly plastic, soft, moist; approximately 15% coarse sand; trace gravel to 25 mm.	7.5
	3,11, 13	12			10				
	7,14, 16	14							
0	9,7, 14,16	21							
	11,12, 19	14			15			CLAY: brown (7.5YR4/3); slightly plastic, moderately firm, moist; 15% silt; trace rock to 25mm; no staining or odor.	15.0
	9,14, 16	16							
0	12,18, 20,22	23				CL			
	3,9, 14	18			20			1" thick, medium to coarse sand lens.	
	10,16, 21	18						SILTY CLAY: brown (7.5YR4/3); slightly plastic, soft, moist; 35% silt; trace gravel to 10 mm; no staining or odor.	21.5
0	11,14, 20,22	22							
	5,9, 16	10			25	CL			
	11,16, 23	16							
0	8,12, 15,26	24							29.0
						ML		SILT: brown (7.5YR5/4); nonplastic to very slightly plastic; 20% clay; 5% gravel to 25 mm. Sand stringer at 29.6 feet bgs, fine to coarse, well graded, angular to subrounded.	30.0
	9,13, 21	18			30				
	6,18, 20	13				CL		CLAY: brown (7.5YR4/3); nonplastic to very slightly plastic, firm, moist; 15% silt; no staining or odor.	33.0
0	12,13, 22,30	22				CL		CLAY: brown (7.5YR4/3), slightly mottled; nonplastic to very slightly plastic, firm, moist; 15% silt; no staining or odor.	35.0
					35				

WELL DIAGRAM



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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-30697-TO5B.INSTALL **BORING/WELL NUMBER** OW-7

PROJECT NAME Omega Chemical **DATE DRILLED** 3/13/02

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
	7,7, 22	12						SILTY CLAY: brown (7.5YR4/3); very slightly plastic, firm, moist; 30% silt; no staining or odor.		
	12,17, 24	10								
0	10,17, 20,24	23				CL				
	18,20, 30	18			40					4" diameter, sch 40, mild steel blank (0-70.89 ft bgs).
	12,19, 22	18				ML		CLAYEY SILT: brown (7.5YR4/3); very slightly plastic, soft, moist; 35% clay; 5% very fine sand; no staining or odor.	41.5	
0	10,11, 16,30	18						SILTY CLAY: brown (7.5YR4/3); very slightly plastic, firm, moist, root structures filled with very light brown clay; 20% silt; trace coarse sand; no staining or odor.	43.0	
	5,7, 21	12			45					
	17,18, 20	18								
0	11,20, 22,23	18				CL				
	5,19, 20	16			50					Portland cement w/5% bentonite grout (2-60.6 ft bgs).
	16,22, 25	16								
0	14,27, 30,34	18						Increase in very light brown clay filling cracks.		
	17,20, 32	16			55			SILTY CLAY: brown (7.5YR4/3); very slightly plastic, firm, moist, root structures filled with very light brown clay; 20% silt; 5% gravel, 5 to 25 mm diameter, angular; trace coarse sand; no staining or odor. Sandy silt stringer at 57 feet bgs.	55.0	
	29,30, 57	15				CL				
0	12,18, 21,27	20				ML		SANDY SILT: brown (7.5YR5/4); nonplastic, soft, moist; 35% very fine sand, poorly graded, subrounded; very light brown clay filling fractures and other voids; no staining or odor.	58.0	
	13,17, 23	17			60			SILTY CLAY: brown (7.5YR4/3); very slightly plastic, firm, moist; 20% silt; fractures filled with very light brown clay; no staining or odor; silt and moisture content increase with depth.	60.5	
	16,18, 25	17								3/8" pressed, uncoated bentonite pellets (60.6-65 ft bgs).
0	5,7, 20,23	19				CL				
	10,19, 26	18			65					
	15,16, 23	18							67.0	#2/12 Monterey sand (65-92.5 ft bgs).
0	4,16, 17,24	24				CL		SILTY CLAY: brown (7.5YR4/3); very slightly plastic, very firm, moist; 20% silt; minor very light brown clay in fractures; no staining or odor.		
						SM			69.7	
	18,22, 29	18			70			SILTY SAND: brown (7.5YR5/4); 70% sand, very fine to coarse, well graded, subangular to subrounded; 25% silt; 5% gravel to 25 mm; no odor, moist.	70.2	
	15,28, 30	18				CL		CLAY: brown (7.5YR4/3); moist; 15% silt; very light brown clay in minor fractures or root structures; trace gravel to 25 mm, angular to subangular; no staining or odor.		4" diameter, 0.020", stainless steel, wire wrap screen (70.89-90.89 ft bgs).
0	16,20, 45,_	20								
					75				75.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-30697-TO5B.INSTALL **BORING/WELL NUMBER** OW-7

PROJECT NAME Omega Chemical **DATE DRILLED** 3/13/02

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
	7,9, 11	18						SILTY CLAY: brown (7.5YR5/4); slightly plastic, moist; 25% silt; trace gravel to 25 mm; no staining or odor.		
	3,14, 16	18								
0	3,8, 14,21	23				CL		Vertical crack filled with sand and very light clay from 79 to 80 ft bgs.		
					80					
	11,17, 20	18						Groundwater at 81 ft bgs, saturated sand and gravel lens.		4" diameter, 0.020", stainless steel, wire wrap screen (70.89-90.89 ft bgs).
	13,16, 27	17							82.5	
0	8,14, 16,24	24				ML		SANDY CLAYEY SILT: brown (7.5YR4/3); nonplastic to very slightly plastic, saturated; 20% clay; 15% very fine sand; minor very light brown clay; no staining or odor.	84.0	
					85			SANDY CLAYEY SILT: brown (7.5YR4/3); nonplastic, hard, moist; very minor very light brown clay in voids; no staining or odor. No water in this material.		
	6,14, 13	18								
	10,16, 21	18				ML				#2/12 Monterey sand (65-92.5 ft bgs).
0	5,7, 10,12	20								
					90				90.0	
								Total Depth of 8-inch pilot hole is 90 ft bgs, no further samples collected.		
									92.0	
								Total depth of 10-inch borehole is 92 ft bgs.		

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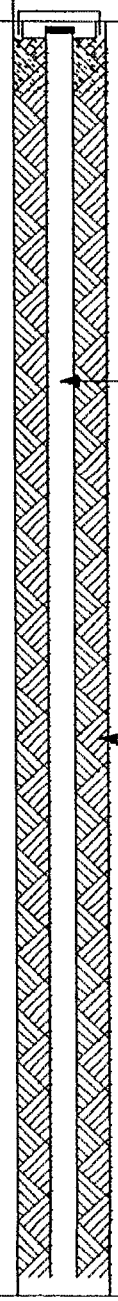
BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER	10500-30697-TO5B.INSTALL	BORING/WELL NUMBER	OW-8
PROJECT NAME	Omega Chemical	DATE DRILLED	3/13/02
LOCATION	12511 Putnam St, Whittier, CA	CASING TYPE/DIAMETER	Sch 40, Mild Steel / 4"
DRILLING METHOD	Hollow Stem Auger	SCREEN TYPE/SLOT	4" Stainless Steel Wire Wrap / 0.020"
SAMPLING METHOD	Modified CA Split Spoon	GRAVEL PACK TYPE	Monterey #2/12
GROUND ELEVATION	199.03	GROUT TYPE/QUANTITY	Portland Cement/5% Bentonite
TOP OF CASING	198.42	STATIC WATER LEVEL (feet btoc)	65.00
LOGGED BY	W.F. Grove	GROUND WATER ELEVATION	133.42
REMARKS			

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								CONCRETE is 7 inches thick.	0.6
								ROADBASE	1.0
						CL		SILTY CLAY: brown (7.5YR4/3); 70% clay with minor rock fragments to 3-inch diameter (probable fill), very slightly plastic, firm, hard to dig, moist; 30% silt; moist, no odor.	2.0
								SILT: light brown (7.5YR6/4); nonplastic, soft, moist to damp, no odor.	
	5,6, 7	18			5				
	3,4, 5	18							
0	9,10, 11,12	23				ML			
	8,10, 12	18			10				
	7,9, 11	17							
0	50,50	17							14.0
						CL		CLAY: brown (7.5YR4/2); very slightly plastic, hard, firm, no staining or odor.	15.0
	21,40, 50	17			15			SILTY CLAY: brown (7.5YR4/2); very slightly plastic, firm, moist; 30% silt; gravel/clay lens - trace gravel to 20 mm through out	
	17,21, 25	18							
0	16,22, 25,30	23				CL			
	12,17, 21	18			20				
									21.0
	13,18, 24	17						CLAY: brown (7.5YR4/2); very slightly plastic, hard, moist; less than 10% silt.	
2/0	22,29, 50,	18				CL			
	15,16, 20	17			25				
									26.0
	15,22, 29	18				SW		SAND: brown (7.5YR4/3); fine to coarse, well graded, subangular to subrounded, moist; grading to very fine to fine, poorly graded, subrounded at 27 feet, no odor.	27.0
						ML		SILT: brown (7.5YR4/3); nonplastic, soft, no staining or odor.	28.0
4/0	18,20, 25,30	23				CL		CLAY: brown (7.5YR4/3); very slightly plastic, hard; trace coarse sand to 5 mm; trace light brown clay in voids and cracks, no staining or odor.	
	41,50	14			30				30.5
	25,26, 31	18						SILTY CLAY: brown (7.5RY4/3); very slightly plastic, firm/hard, moist; 30% silt; trace coarse sand; no staining or odor.	
4/0	18,23, 26,30	18				CL			
					35				

WELL DIAGRAM



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NEWGINT OMEGA.GPJ NEWGINT.GDT 5/20/02

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-30697-TO5B.INSTALL **BORING/WELL NUMBER** OW-8

PROJECT NAME Omega Chemical **DATE DRILLED** 3/13/02

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
	14,17, 22	18								
	16,19, 26	17							37.0	
	20,24, 29,40	20				ML		SILT: brown (7.5YR4/3); nonplastic to very slightly plastic, soft to medium; interbedded with 3-inch thick clay stringers.		
					40				40.0	4" diameter, sch 40, mild steel blank (0-60.38 ft bgs).
18/0	23,27, 41	18						SILTY CLAY: brown (7.5YR4/3); very slightly plastic, firm to hard, moist; trace gravel to 5 mm; no staining or odor.		
	20,25, 32	14				CL				
	22,25, 27,27	22							44.5	
					45					Portland cement w/5% bentonite grout (2-51 ft bgs).
10/0	8,12, 15	17				ML		SILT: brown (7.5YR4/3); nonplastic, medium soft, moist; trace clay; no staining or odor.		
	12,15, 21	16							47.0	
	19,23, 26,28	20						SANDY SILT: light brown (7.5YR6/4); soft, moist; 35% very fine sand, poorly graded, subrounded; no staining or odor.		
					50					
18/2	17,21, 27	17				ML				
	15,20, 24	17								3/8" pressed, uncoated bentonite pellets (60.6-65 ft bgs).
4/2	29,50, 50,	18							54.0	
					55			SAND: light brown (7.5YR6/4); clean sand, very fine to fine, poorly graded, subrounded, moist, no staining or odor.		
	19,24, 28	16								
	17,20, 25	14								
4/2	50,50	12				SP				
					60					#2/12 Monterey sand (55-81 ft bgs).
	37,50	12								
	42,50	14								
									63.0	
2/0	50,50	12				SP		SAND: light brown (7.5YR6/4); clean sand, very fine to medium, poorly graded, subrounded, moist, no staining or odor.		
									65.0	
	29,50	15			65			SAND: light brown (7.5YR6/4); clean sand, very fine to medium, poorly graded, subrounded, saturated, no staining or odor. Groundwater encountered at 65 ft bgs.		
	28,50	14								
28/0	18,21, 25,30	22				SP				
					70					4" diameter, 0.020", stainless steel, wire wrap screen (60.38-79.98 ft bgs).
	20,23, 28	16								
	15,19, 22	15							72.0	
4/0	13,15, 19,22	24				SW		SAND: light brown (7.5YR6/4); fine to coarse, well graded, subangular to subrounded, saturated; no staining or odor. Sand heaving at 75 ft bgs.		
					75				75.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-30697-TO5B.INSTALL **BORING/WELL NUMBER** OW-8

PROJECT NAME Omega Chemical **DATE DRILLED** 3/13/02

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
	50	18				SW		SAND: light brown (7.5YR6/4); medium to coarse, minor fine, well graded, subangular to subrounded, saturated.		4" diameter, 0.020", stainless steel, wire wrap screen (60.38-79.98 ft bgs).
	50	18							78.0	
2/0	50	10				ML		SANDY SILT: brown (7.5YR4/3); nonplastic, firm, moist; 25-30% very fine sand; 5% gravel to 10 mm; light brown clay filling cracks and fractures.	80.0	
					80			Total Depth of 8-inch pilot hole is 80 ft bgs, no further samples collected.	81.0	
								Total Depth of 10-inch borehole is 81 ft bgs.		

PACIFIC SURVEYS

ELECTRIC LOG
LATEROLOG 3
GAMMA-RAY

Job No. 00724	Company	BC2 ENVIRONMENTAL	
	Well	OW-4B	
	Field	WHITTIER	
File No.	County	LOS ANGELES	State CA

Location: 12444 E. WASHINGTON BLVD. Sec. Twp. Rge.	Other Services: GR/LL3

Permanent Datum	G.L.		Elevation	Elevation
Log Measured From	G.L.	0	above perm. datum	K.B.
Drilling Measured From	G.L.			D.F. G.L.

Date	3-28-01		
Run Number	ONE		
Depth Driller	122'		
Depth Logger	122'		
Bottom Logged Interval	121'		
Top Log Interval	0'		
Casing Driller	10" @ 9'		
Casing Logger	9'		
Bit Size	9 5/8"		
Type Fluid in Hole	BENTONITE		
Density / Viscosity	N/A		
pH / Fluid Loss	N/A		
Source of Sample	PIT		
Rm @ Meas. Temp	6.4 @ 77F		
Rmf @ Meas. Temp	7.3 @ 77F		
Rmc @ Meas. Temp	N/A		
Source of Rmf / Rmc	MEAS		
Rm @ BHT	N/A		
Time Circulation Stopped	0 HRS		
Time Logger on Bottom			
Max. Recorded Temperature	N/A		
Equipment Number	PS-1		
Location	L.A.		
Recorded By	RIDDER		
Witnessed By	W. GROVE		

Calibration Report

Serial-Model:	100-2-A
Calibration Performed:	Tue Mar 27 12:01:50 2001

SP Calibration: Spontaneous Potential

System Reading	Calibration Reference
-0.331 V	-98.800 mV
0.543 V	98.800 mV

Gain= 226.087 Offset= -23.965

RSN Calibration: Resistivity Short Normal

System Reading	Calibration Reference
0.046 V	10.200 Ohm-m
0.404 V	102.200 Ohm-m

Gain= 257.157 Offset= -1.726

RLN Calibration: Resistivity Long Normal

System Reading	Calibration Reference
0.018 V	10.200 Ohm-m
0.110 V	102.200 Ohm-m

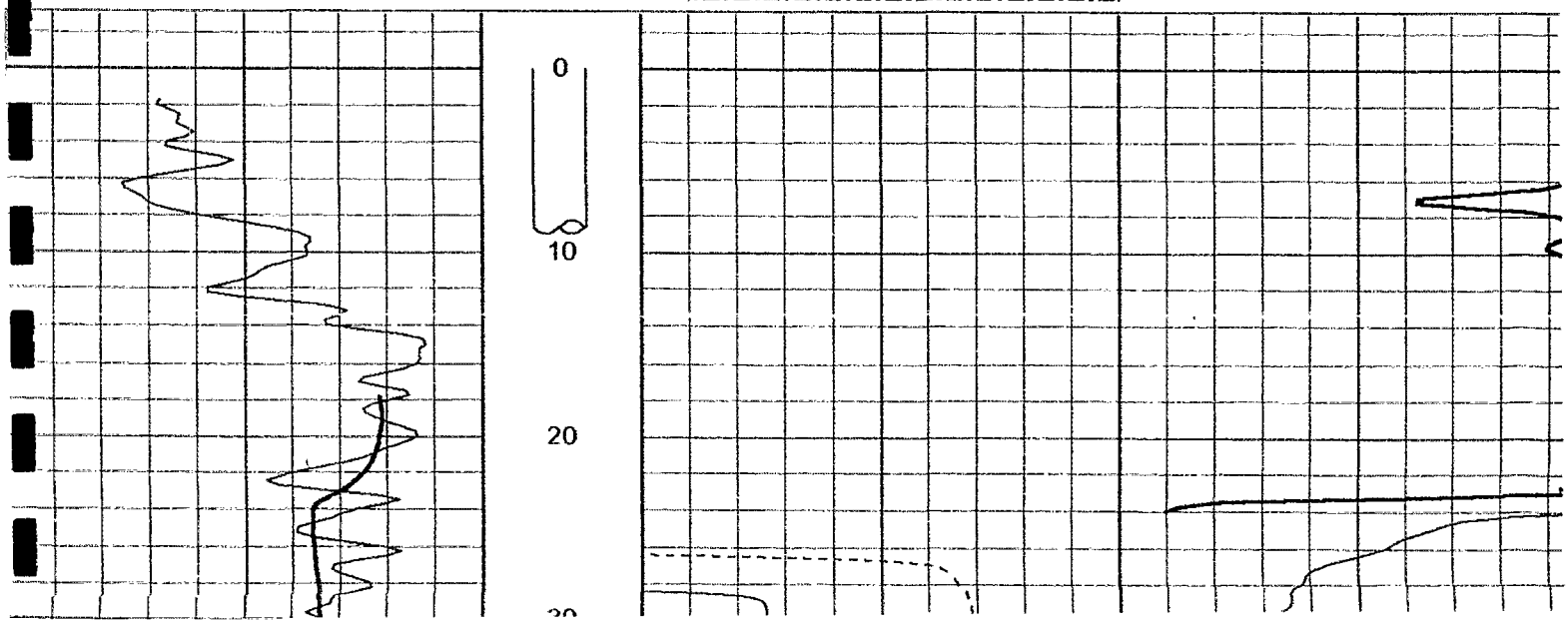
Gain= 999.333 Offset= -5.159

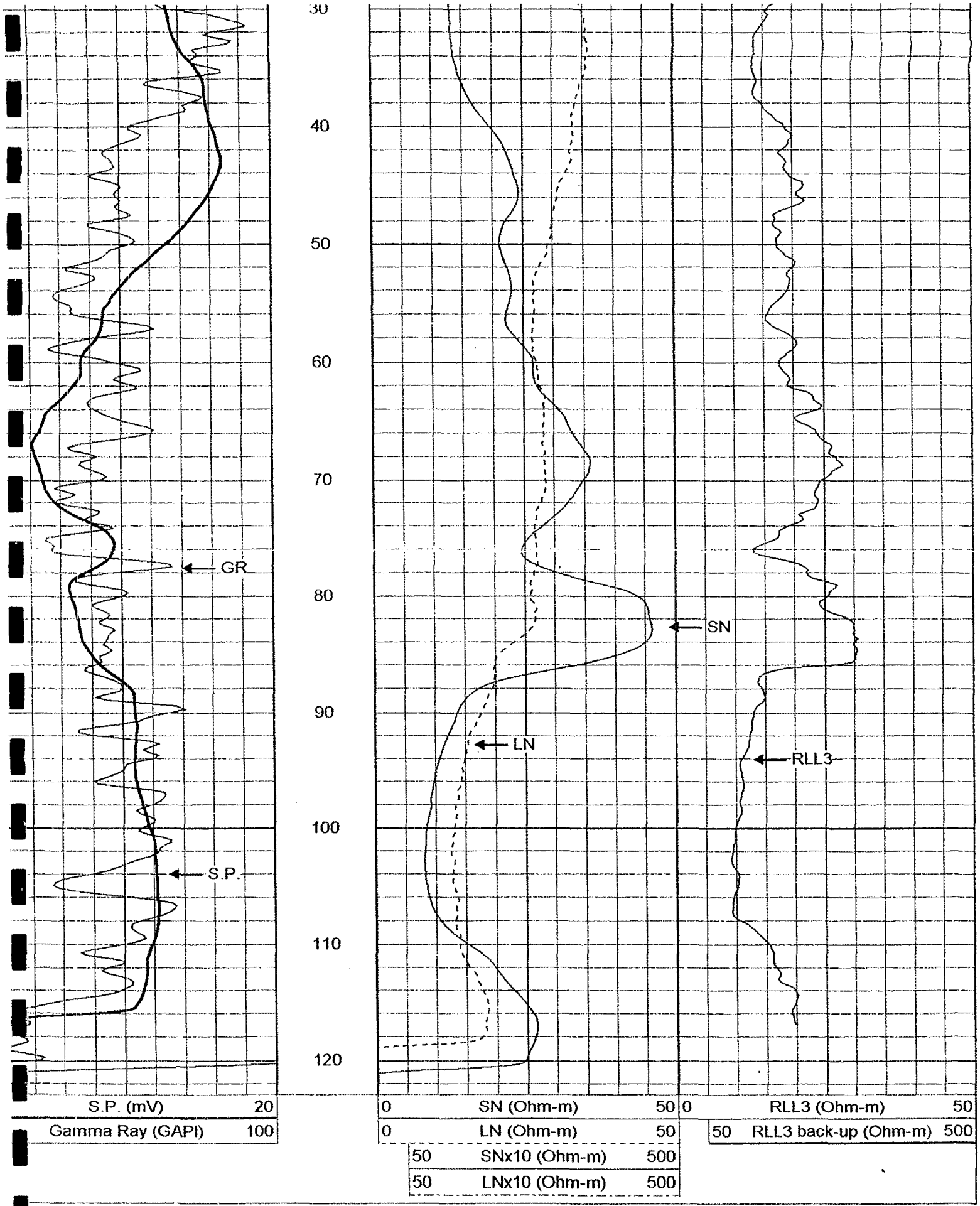
Database File:	00724.db
Dataset Pathname:	BC2/OW4B/LL3/merge1
Presentation Format:	elog2
Dataset Creation:	Wed Mar 28 19:23:50 2001
Charted by:	Depth in Feet scaled 1:120

-30	S.P. (mV)	20
50	Gamma Ray (GAPI)	100

0	SN (Ohm-m)	50
0	LN (Ohm-m)	50
50	SNx10 (Ohm-m)	500
50	LNx10 (Ohm-m)	500

0	RLL3 (Ohm-m)	
50	RLL3 back-up (Ohm-m)	5




30
40
50
60
70
80
90
100
110
120
GR
S.P.
SN
LN
RLL3
S.P. (mV) 20
Gamma Ray (GAPI) 100
0 SN (Ohm-m) 50
0 LN (Ohm-m) 50
50 SNx10 (Ohm-m) 500
50 LNx10 (Ohm-m) 500
0 RLL3 (Ohm-m) 50
50 RLL3 back-up (Ohm-m) 500

Appendix B
Completed Field Forms

Well No.: OW - 1	Site: Omega Chemical	Date: 2/19/03
Client: OPOG	Project No.:	
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC (SS) Other: MS	
Well Headspace:	PID (ppm): 340	FID (ppm):
Sampler: Ros P., mike Hoffman, Trei Chatman		

Total Depth of Well (feet): 82.72 Reference Point: _____ Datum: _____

Depth to Water (feet): 76.70

Water Column Height (feet): 6.02 (X) 2" - 0.16 / 4" (0.65) / 6" - 1.47 / __" - __ Gal/feet = 3.91 (X) 3 = 12 Minimum Purge Volume (Gallons)

PURGE METHOD:

Submersible Pump [✓] Bladder Pump [ ] Hand Pump [ ] Peristaltic Pump [ ] Bailer: PVC [ ] Teflon [ ] SS [ ] Disposable [✓]

Pump Make/Model: 2" Groundfos Purge Equipment Decon'd? Y [✓] N [ ]

Depth of Pump Intake (feet): ~~bottom~~ 80' Purge/Decon Water Containerized? Y [✓] N [ ] Container Type/Volume? _____

Time	Gallons	Temp. (C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	DO (ppm)	Eh (mV)	Observations/Comments
1312	~~3~~					~~0.30~~	~~-32.9~~	START PUMP
								@ 0.5 GPM
1318	3	72.4	6.89	1682	57	0.30	-32.9	CLEAR
1320	4							STOP PUMP
1331	5	72.7	6.81	1706	1000	0.31	-58.3	DTW = 78.5 / TURBID
1335	6	74.5	6.80	1646	1000	0.46	-36.1	SLOWED PUMP TO 0.25 GPM. lowered pump to bottom
1339	7	74.4	6.79	1632	91	0.37	-21.2	CLEAR / 0.4 mg/L chemets
1348	9	74.5	6.74	1632	51	0.40	-16.4	CLEAR
1356	11	74.1	6.77	1629	29	0.42	-19.4	CLEAR
1400	12	74.9	6.73	1629	12	0.44	-15.8	CLEAR DTW = 80.13

* start purge from bottom *

SAMPLE COLLECTION METHOD:

Pump: [ ] Flow rate: _____
Bailer: [✓] Type: disposable
Other: [ ] Desc.: _____

Sample ID: OC-GW-OW1-021903
Dup. ID (if appl.): —
Sample Time: 14:15

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
8260B	3 VOA	HCl
1,4-dioxane	1 L Amber	—
perchlorate/NO_3/NO_2	500 mL poly	—
CH_4, C_2H_6, C_2H_4	2 VOA	—
DOC	2 VOA	—
MNA/ Alkalinity, H_2S, CO_2, SO_4^{2-}, Cl^-	500 mL poly	—
Fe^{+2}	cup - field filtered	—
$CrVI$	500 mL poly	NaOH

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MONITORING WELL PURGE AND SAMPLING FORM

Well No.: OW - 1B	Site: Omega Chemical	Date: 2/19/03
Client: OPOG	Project No.: 10500 -	
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC SS Other: MS	
Well Headspace:	PID (ppm): Ø	FID (ppm):
Sampler: MH & TC		

Total Depth of Well (feet): 118.54 Reference Point: TOC Datum: _____

Depth to Water (feet): 77.04

Water Column Height (feet): 41.5 (X) 2" - 0.16 / (4" - 0.65) / 6" - 1.47 Gal/feet = 26.97 (X) 3 = 81 Minimum Purge Volume (Gallons)

PURGE METHOD:

Submersible Pump [X] Bladder Pump [ ] Hand Pump [ ] Peristaltic Pump [ ] Bailer: PVC [ ] Teflon [ ] SS [ ] Disposable [✓]

Pump Make/Model: 2" Grunfos Purge Equipment Decon'd? Y [X] N [ ]

Depth of Pump Intake (feet): bottom Purge/Decon Water Containerized? Y [X] N [ ] Container Type/Volume? Steel Drum 55 gal

Time	Gallons	Temp. (C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	DO (ppm)	Eh (mV)	Observations/Comments
936								START PUMP @ 0.5 GPM
946	5	68.4	7.2	1016	594	0.39	-147.0	DTW = 82.56
956	10	69.4	7.4	969.8	177	0.19	-239.2	DTW = 86.79
1000	12	71.0	7.4	992.0	114	0.16	-248.8	DTW = 89.28
1002	13							STOP PUMP
1019	14	70.2	7.3	1067	>1000	0.17	-173.4	DTW = 89.27
1023	16	69.9	7.3	1066	832	0.15	-198.5	DTW = 91.90
1027	18	71.3	7.5	998.6	404	0.17	-209.1	DTW = 92.80 / D.O 0-2 mg/L Chemets
1037	23	71.6	7.5	992.4	200	0.13	-213.4	DTW = 96.25
1047	27	72.3	7.5	995.8	394	0.15	-201.8	DTW = 102.20
1057	32	72.8	7.6	1031	>1000	0.11	-202.9	DTW = 104.65

SAMPLE COLLECTION METHOD:

Pump: [ ] Flow rate: _____
Bailer: [X] Type: disposable
Other: [ ] Desc.: _____

Sample ID: OC-GW-OW1B-021903
Dup. ID (if appl.): _____
Sample Time: 16:30

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
8260B	VOA	HCl
1,4-dioxane	1 L Amber	—
perchlorate / NO_3/NO_2	500mL poly	—
CH_4 C_2H_6 C_2H_4	2 VOA	—
DOC	2 VOA	—
MNA (Alkalinity, H_2S, CO_2, SO_4^{2-}, Cl)	500mL poly	—
Fe+2	cup. field filtered	—
Cr+6		NaOH

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MONITORING WELL PURGE AND SAMPLING FORM

Well No.: OW - 1B	Site: Omega Chemical	Date: 2/19/03
Client: OPOG	Project No.:	
Well Casing Diameter: 2" (6") 6" Other:	Well Casing Material: PVC SS Other: MS	
Well Headspace:	PID (ppm): Ø	FID (ppm):
Sampler: MH + TC		

Total Depth of Well (feet): 118.54 Reference Point: TOC Datum:

Depth to Water (feet): 77.04

Water Column Height (feet): 41.5 (X) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / ___" - ___ Gal/feet = 26.97 (X) 3 = 81 Minimum Purge Volume (Gallons)

PURGE METHOD:

Submersible Pump ☑ Bladder Pump ☐ Hand Pump ☐ Peristaltic Pump ☐ Bailer: PVC ☐ Teflon ☐ SS ☐ Disposable ☑

Pump Make/Model: 2" Grounded Fos Purge Equipment Decon'd? Y ☑ N ☐

Depth of Pump Intake (feet): _____ Purge/Decon Water Containerized? Y ☑ N ☐ Container Type/Volume? Steel Drum 55 gal

Time	Gallons	Temp. (C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	DO (ppm)	Eh (mV)	Observations/Comments
1107	37	72.1	7.5	1030	433	0.25	-193.3	DTW=108.39
1117	42	72.8	7.4	1041	179	0.28	-176.5	DTW=111.25 / CLEARING
1127	47	72.7	7.4	1048	134	0.29	-179.2	DTW=113.7
1137	52	72.9	7.4	1140	83	0.30	-151.0	DTW=117.18
1138	WELL DEWATERED							
1620								DTW=82.99

SAMPLE COLLECTION METHOD:

Pump: ☐ Flow rate: _____
Bailer: ☐ Type: _____
Other: ☐ Desc.: _____

Sample ID: _____
Dup. ID (if appl.): _____
Sample Time: 16:30

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
see page 1		

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MONITORING WELL PURGE AND SAMPLING FORM

Well No.: OW - 2	Site: Omega Chemical	Date: 2/19/03
Client: OPOG	Project No.:	
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC (SS) Other:	
Well Headspace:	PID (ppm): 149	FID (ppm):
Sampler: MH + TC		

Total Depth of Well (feet): 80.34 Reference Point: _____ Datum: _____

Depth to Water (feet): 69.44

Water Column Height (feet): 10.9 (X) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / ___" - ___ Gal/feet = 7.08 (X) 3 = 21 Minimum Purge Volume (Gallons)

PURGE METHOD:

Submersible Pump [x] Bladder Pump [ ] Hand Pump [ ] Peristaltic Pump [ ] Bailer: PVC [ ] Teflon [ ] SS [ ] Disposable [x]

Pump Make/Model: 2" Grundfos Purge Equipment Decon'd? Y [x] N [ ]

Depth of Pump Intake (feet): 78.00 Purge/Decon Water Containerized? Y [x] N [ ] Container Type/Volume? _____

Time	Gallons	Temp. (C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	DO (ppm)	Eh (mV)	Observations/Comments
1523								START @ 2.0 GPM
1526	6	70.4	7.33	1346	13.4	0.75	94.0	CLEAR
1529	12	71.0	7.1	1333	5	2.36	92.0	CLEAR DTW = 65.94
1531	16	71.3	7.0	1329	7	2.45	90.2	CLEAR
1533	20	71.1	7.0	1338	61	2.82	85.1	DTW = 71.03
1535	24	71.2	7.0	1337	8	3.10	86.9	D.O 2.0 mg/L Chemets
1541	36	70.1	7.0	1339	5	3.25	87.1	CLEAR
1544								END PUMP

SAMPLE COLLECTION METHOD:

Pump: [ ] Flow rate: _____
Bailer: [x] Type: disp.
Other: [ ] Desc.: _____

Sample ID: OC-GW-OW2-021903
Dup. ID (if appl.): _____
Sample Time: 15:50

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
8260B	3 VOA	HCl
1,4-dioxane	1 L Amber	—
perchlorate, NO_3/NO_2	500mL poly	—
CH_4, C_2H_6, C_2H_4	2 VOA	—
DOC	2 VOA	—
MNA (Alkalinity, H_2S, CO_2, SO_4^{2-}, Cl^-)	500mL poly	—
Fe^{+2}	1 cup field filtered	—
Cr^{+6}	500mL poly	NaOH

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MONITORING WELL PURGE AND SAMPLING FORM

Well No.: OW-3	Site: Omega Chemical	Date: 2/20/03
Client: OPOG	Project No.:	
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC SS Other: MS	
Well Headspace:	PID (ppm): 469	FID (ppm):
Sampler: MH RP w/ CDM	TC w/ BTC	

Total Depth of Well (feet): 82.85 Reference Point: _____ Datum: _____

Depth to Water (feet): (65.50)

Water Column Height (feet): 17.35 (X) 2" - 0.16 / (4") - 0.65 / 6" - 1.47 / __" - __ Gal/feet = 11.3 (X) 3 = 117 Minimum Purge Volume (Gallons)

+27.8 gal

39

PURGE METHOD:

Submersible Pump [✓] Bladder Pump [ ] Hand Pump [ ] Peristaltic Pump [ ] Bailer: PVC [ ] Teflon [ ] SS [ ] Disposable [✓]

Pump Make/Model: 2" Grundfos Purge Equipment Decon'd? Y [✓] N [ ]

Depth of Pump Intake (feet): bottom Purge/Decon Water Containerized? Y [X] N [ ] Container Type/Volume? 55 gal drum

START @ 924 2.0 GPM

Time	Gallons	Temp. (°C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	DO (ppm)	Eh (mV)	Observations/Comments
929	10	22.0	7.13	1499	26	1.95	-15.0	DTW = 68.51 / CLEAR
934	20	22.0	7.04	1508	22	3.53	10.0	DTW = 69.67
939	30	22.5	7.01	1512	22	3.82	17.5	DTW = 70.60
944	40	22.5	6.98	1513	20	4.67	26.6	DTW = 71.32
949	50	22.5	6.98	1513	19	4.78	27.6	DTW = 71.80
954	60	22.5	6.98	1514	14	4.84	32.8	DTW = 72.27
959	70	22.5	7.08	1520	16	4.59	38.4	DTW = 72.90
1004	80	22.5	6.97	1516	20	4.84	32.6	DTW = 73.4 / raised pump to 77.00'
1009	90	22.5	7.03	1510	478	4.83	-20.3	DTW = 74.10 TURBID
1014	100	22.5	7.07	1522	114	4.36	9.0	DTW = 75.32
1024	120	22.6	7.09	1518	66	4.28	10.4	DTW = 76.30 - Weston Sampling
1032	136	22.7	6.94	1524	49	4.50	4.8	

Chemets DO 4.0 mg/L

SAMPLE COLLECTION METHOD:

Pump: [ ] Flow rate: _____
Bailer: [X] Type: disposable
Other: [ ] Desc.: _____

Sample ID: OC-GW-OW3-022003
Dup. ID (if appl.): _____
Sample Time: ~~1345~~ 1045

EB: 1105 OW3(N)

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
8260B	3 VOA	HCl
1,4-dioxane	1 Amber	—
perchlorate, NH_3/NO_3	500 mL poly	—
CH_4, C_2H_6, C_2H_4	2 VOA	—
DOC	2 VOA	—
~~MVA (Alkalinity, H_2S, SO_4^{2-}, Cl^-, CO_2)~~	~~500 mL poly~~	—
Fe^{+2}	Cup - field filtered	—
Cr^{+6}	500 mL poly	NaOH

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MONITORING WELL PURGE AND SAMPLING FORM

Well No.: OW-4A	Site: Omega Chemical	Date: 2/20/03
Client: OPOG	Project No.:	
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC SS Other: MS	
Well Headspace:	PID (ppm):	FID (ppm):
Sampler: RP + MH w/CDM	TC w/BTS	

Total Depth of Well (feet): 74.60 Reference Point: _____ Datum: _____

Depth to Water (feet): 58.58

Water Column Height (feet): 16.02 (X) 2" - 0.16 / (4") - 0.65 / 6" - 1.47 Gal/feet = 10.41 (X) 3 = 117.6 Minimum Purge Volume (Gallons)

288 gal

39.2

PURGE METHOD:

Submersible Pump ☑ Bladder Pump ☐ Hand Pump ☐ Peristaltic Pump ☐ Bailer: PVC ☐ Teflon ☐ SS ☐ Disposable ☐

Pump Make/Model: 2" Grundfos Purge Equipment Decon'd? Y ☐ N ☐

Depth of Pump Intake (feet): 60' Purge/Decon Water Containerized? Y ☒ N ☐ Container Type/Volume? 55-gal drum

START @ 1504 @ 5.0 GPM

Time	Gallons	Temp. (C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	DO (ppm)	Eh (mV)	Observations/Comments
1508	20	22.8	7.12	1619	63	2.34	86.2	CLEAR
1510	36	22.8	7.04	1558	19	2.73	86.8	DTW=59.55
1512	40	22.8	7.05	1534	13	2.92	86.9	DTW=59.58
1514	50	22.8	7.06	1510	4	3.03	87.0	DTW=59.58
1516	60	22.8	7.06	1502	4	3.09	86.4	DTW=59.58
1518	70	22.8	6.99	1488	3	3.17	86.6	DTW=59.58
1520	80	22.8	7.03	1483	2	3.27	87.0	DTW=59.58
1522	90	22.8	7.03	1474	2	3.30	86.8	DTW=59.57
1524	100	22.8	7.03	1458	2	3.33	86.5	DTW=59.57
1528	120	22.7	7.04	1448	1	3.29	84.6	DTW=59.58 / Weston Sample

Chemets 3 mg/L

SAMPLE COLLECTION METHOD:

Pump: ☐ Flow rate: _____

Bailer: ☑ Type: disposable

Other: ☐ Desc.: _____

Sample ID: OC-GW-OW4A-022003

Dup. ID (if appl.): _____

Sample Time: 1545

SAMPLE ANALYSES:

MS/MSD

Method:	Container Type/Vol.	Preservative
8260B	5 VOA	HCl
1,4-dioxane	3 1 L Amber	—
perchlorate, NO_3/NO_2	500 mL poly	—
C_2H_6 CH_4 C_2H_4	2 VOA	—
DOC	4 VOA	—
MNA - Alkalinity, H_2S, CO_2, SO_4, Cl^-		—
Fe^{+2}	Cup - field filtered	—
Cr^{+6}	500 mL poly	NaOH

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MONITORING WELL PURGE AND SAMPLING FORM

Well No.: OW-4B	Site: Omega Chemical	Date: 2/20/03
Client: OPOG	Project No.:	
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC SS Other: MS	
Well Headspace:	PID (ppm): 0.0/0.0	FID (ppm):
Sampler: RosP, Mike Huffman/CDM	Trei Chatman/BTS	

Total Depth of Well (feet): 126.80 Reference Point: _____ Datum: _____

Depth to Water (feet): 62.46

Water Column Height (feet): 64.34 (X) 2" - 0.16 / (4") - 0.65 / 6" - 1.47 / ___" - ___ Gal/feet = 41.8 (X) 3 = 195 Minimum Purge Volume (Gallons)

23.1 gal

64.9

PURGE METHOD:

Submersible Pump [X] Bladder Pump [ ] Hand Pump [ ] Peristaltic Pump [ ] Bailer: PVC [ ] Teflon [ ] SS [ ] Disposable [ ]

Pump Make/Model: 2" Grundfos Purge Equipment Decon'd? Y [X] N [ ]

Depth of Pump Intake (feet): 77' (?) Purge/Decon Water Containerized? Y [X] N [ ] Container Type/Volume? SS-gal drum

tagged w/ WL meter - may be just the tubing

START 1330 5.0 GPM

Time	Gallons	Temp. (C/F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	DO (ppm)	Eh (mV)	Observations/Comments
1334	20	22.6	7.47	1358	21	2.90	17.5	DTW = 66.55 / CLEAR
1338	40	22.6	7.39	1421	7	2.94	-4.1	DTW = 66.63 / CLEAR
1342	60	22.6	7.40	1426	8	3.06	1.6	DTW = 66.65 / CLEAR
1346	80	22.6	7.37	1438	4	3.09	6.9	DTW = 66.74 / CLEAR
1350	100	22.6	7.36	1431	2	3.10	4.9	DTW = 66.75 / CLEAR
1354	120	22.6	7.35	1437	1	3.13	-1.0	DTW = 66.76 / CLEAR
1358	140	22.6	7.38	1442	1	3.12	-3.0	DTW = 66.80
1402	160	22.6	7.41	1441	1	3.05	-3.7	DTW = 66.83
1406	180	22.6	7.36	1438	2	3.03	-0.4	DTW = 66.84
1409	195	22.6	7.40	1424	2	3.00	-2.1	DTW = 66.85 / WESTON Sampli
1417	235	23.2	7.30	1441	1	3.08	-2.8	

CHEMETS 2 mg/L

SAMPLE COLLECTION METHOD:

Pump: [ ] Flow rate: _____

Bailer: [X] Type: DISP

Other: [ ] Desc.: _____

Sample ID: OCGW-OW4B-022003

Dup. ID (if appl.): _____

Sample Time: 14:30

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
8260	3 VOAs / 40 ml	HCl
Cr^{+6}	1 500 ml poly	NaOH
1,4 Dioxane	1 1L amber	—
NO_3 / ClO_4	1 500 ml poly	—
DOC	2 VOAs	—

MNA - D.O, Sulfate, Sulfide, alkalinity, Fe^{2+}, CO_2, Cl^-

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MONITORING WELL PURGE AND SAMPLING FORM

Well No.: OW – 5	Site: Omega Chemical	Date: 2/21/03
Client: OPOG	Project No.:	
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC SS Other:	
Well Headspace:	PID (ppm): 46	FID (ppm):
Sampler:		

Total Depth of Well (feet): 49.72 Reference Point: _____ Datum: _____

Depth to Water (feet): (30.85)

Water Column Height (feet): 18.87 (X) 2" - 0.16 / 4" - (0.65) / 6" - 1.47 Gal/feet = 12.26 (X) 3 = 117 Minimum Purge Volume (Gallons)

+26.7 gal (gravel pack)

38.96

PURGE METHOD:

Submersible Pump [✓] Bladder Pump [ ] Hand Pump [ ] Peristaltic Pump [ ] Bailer: PVC [ ] Teflon [ ] SS [ ] Disposable [ ]

Pump Make/Model: 2" Grundfos Purge Equipment Decon'd? Y [✓] N [ ]

Depth of Pump Intake (feet): 39' Purge/Decon Water Containerized? Y [✓] N [ ] Container Type/Volume? _____

START @ 726 5.0 GPM

Time	Gallons	Temp. (C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	DO (ppm)	Eh (mV)	Observations/Comments
730	20	22.5	6.86	1383	86	4.48	59.8	DTW = 31.28
734	40	22.5	6.95	1352	61	4.47	60.3	DTW = 31.29
736	50	22.5	6.97	1345	74	4.52	54.6	DTW = 31.29
738	60	22.5	6.99	1343	55	4.54	51.2	DTW = 31.29
740	70	22.5	7.04	1343	43	4.56	50.9	DTW = 31.29
742	80	22.5	7.04	1344	32	4.56	48.9	DTW = 31.29
744	100	22.5	7.03	1344	19	4.61	48.3	DTW = 31.29
746	110	22.5	7.04	1345	18	4.61	46.1	DTW = 31.29
747	115	22.5	7.05	1342	12	4.61	45.9	DTW = 31.29
748	120	22.5	7.09	1344	14	4.61	49.4	DTW = 31.29 / WESTON SAMPLE
758	130	23.0	7.00	1351	11	4.33	51.6	SLOWED PUMP TO 1.0 GPM

Chemets 3.0 mg/L

SAMPLE COLLECTION METHOD:

Pump: [ ] Flow rate: _____
Bailer: [X] Type: DISP
Other: [ ] Desc.: _____

Sample ID: OC-GW-OWS-022103
Dup. ID (if appl.): _____
Sample Time: 8:00

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
8260	3 VOAs / 40ml	HCl

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MONITORING WELL PURGE AND SAMPLING FORM

Well No.: OW-6	Site: Omega Chemical	Date: 2/21/03
Client: OPOG	Project No.:	
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC SS Other:	
Well Headspace:	PID (ppm): 1.0	FID (ppm):
Sampler: MH + TC		

Total Depth of Well (feet): 58.50 Reference Point: _____ Datum: _____

Depth to Water (feet): 47.49

Water Column Height (feet): 11.0 (X) 2" - 0.16 / 4" (0.65) / 6" - 1.47 Gal/feet = 7.15 (X) 3 = 92 Minimum Purge Volume (Gallons)

23.6 gal (gravel pack)

30.75

PURGE METHOD:

Submersible Pump [x] Bladder Pump [ ] Hand Pump [ ] Peristaltic Pump [ ] Bailer: PVC [ ] Teflon [ ] SS [ ] Disposable [ ]

Pump Make/Model: 2" Grundfos Purge Equipment Decon'd? Y [x] N [ ]

Depth of Pump Intake (feet): 49' Purge/Decon Water Containerized? Y [x] N [ ] Container Type/Volume? _____

START @ 852 5.0 GPM

Time	Gallons	Temp. (C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	DO (ppm)	Eh (mV)	Observations/Comments
854	10	22.3	7.18	1812	6	0.27	91.8	DTW= 47.64
856	20	22.3	6.90	1814	2	0.29	92.1	DTW=47.65
858	30	22.3	6.88	1810	1	0.29	91.7	DTW= 47.66
900	40	22.3	6.89	1811	1	0.31	91.8	DTW= 47.66
902	50	22.3	6.88	1808	1	0.33	91.3	DTW= 47.65
904	60	22.3	7.00	1809	1	0.33	89.3	DTW= 47.66
906	70	22.3	6.88	1812	1	0.32	88.7	DTW= 47.67
908	80	22.3	6.87	1814	1	0.32	88.4	DTW= 47.67
910	90	22.3	6.92	1813	1	0.38	87.2	DTW= 47.67
911	95	22.3	6.96	1815	1	0.32	86.5	DTW= 47.67 / WESTON SAMPLE
914	98	22.5	6.80	1828	1	0.30	80.0	SLOWED PUMP TO 1.0 gpm

SAMPLE COLLECTION METHOD:

Pump: [ ] Flow rate: _____
Bailer: [x] Type: DISP
Other: [ ] Desc.: _____

Sample ID: OC-GW-OW6-022103

Dup. ID (if appl.): _____

Sample Time: 930

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
8260	3 VOAs / 40 ml	HCl

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MONITORING WELL PURGE AND SAMPLING FORM

Well No.: OW - 7	Site: Omega Chemical	Date: 2/21/03
Client: OPOG	Project No.:	
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC SS Other:	
Well Headspace:	PID (ppm): 8	FID (ppm):
Sampler: MH + TC		

Total Depth of Well (feet): 89.55 Reference Point: _____ Datum: _____

Depth to Water (feet): 76.89

Water Column Height (feet): 12.66 (X) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / ___" - ___ Gal/feet = 8.22 (X) 3 = 82 Minimum Purge Volume (Gallons)

19.02 gal (gravel pack)

27.24

PURGE METHOD:

Submersible Pump [✓] Bladder Pump [ ] Hand Pump [ ] Peristaltic Pump [ ] Bailer: PVC [ ] Teflon [ ] SS [ ] Disposable [ ]

Pump Make/Model: 2" Groundfos Purge Equipment Decon'd? Y [✓] N [ ]

Depth of Pump Intake (feet): 83' Purge/Decon Water Containerized? Y [✓] N [ ] Container Type/Volume? Steel Drum 55 gal

START @ 1036 2.0 GPM

Time	Gallons	Temp. (C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	DO (ppm)	Eh (mV)	Observations/Comments
1041	10	22.1	7.31	1472	28	1.44	77.9	DTW = 79.75
1046	20	22.0	7.11	1492	27	3.69	77.3	DTW = 81.00
1051	30	21.9	7.19	1497	21	3.51	80.4	DTW = 82.60 / STOP PUMP
1051								LOWER PUMP 3' SLOW PUMP to 1.0 GPM
1104	40	22.4	7.04	1505	12	3.96	72.5	DTW = 80.40
1114	50	22.4	6.97	1511	5	4.23	74.2	DTW = 80.40
1124	60	22.4	6.93	1513	3	4.13	76.5	DTW = 80.55
1149	76	22.3	6.94	1499	6	4.34	74.5	DTW = 81.69
1150	86	22.3	6.89	1506	3	4.35	73.2	DTW = 81.90
1154	90	22.3	6.90	1504	2	4.47	75.5	DTW = 82.00
1156	92	22.3	6.92	1511	2	4.35	75.3	DTW = 82.03 / WESTON SAMPLING
1202	98	22.3	6.99	1495	3	4.46	72.0	

SAMPLE COLLECTION METHOD:

Pump: [ ] Flow rate: _____
Bailer: [X] Type: DISP
Other: [ ] Desc.: _____

Sample ID: OC-GW-OW7-022103

Dup. ID (if appl.): _____

Sample Time: 12:15

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
8260	3 VOAs / 40ml	HCl

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MONITORING WELL PURGE AND SAMPLING FORM

Well No.: OW-8	Site: Omega Chemical	Date: 2/20/03
Client: OPOG	Project No.:	
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC (SS) Other: MS	
Well Headspace:	PID (ppm): 324	FID (ppm):
Sampler: R. Prabharasuth Trei Chatman		

Total Depth of Well (feet): ~~67.55~~ 67.46 79.60 Reference Point: TOC Datum:

Depth to Water (feet): 67.37 ~~67.46~~

Water Column Height (feet): 12.23 (X) 2" - 0.16 / (4") - 0.65 / 6" - 1.47 / __" - __ Gal/feet = 7.9 + 15.8 gravel pack = 23.7 (X) 3 = 71.2 Minimum Purge Volume (Gallons)

PURGE METHOD:

Submersible Pump [✓] Bladder Pump [ ] Hand Pump [ ] Peristaltic Pump [ ] Bailer: PVC [ ] Teflon [ ] SS [ ] Disposable [✓]

Pump Make/Model: 2" Grundfos Purge Equipment Decon'd? Y [X] N [ ]

Depth of Pump Intake (feet): 69' Purge/Decon Water Containerized? Y [X] N [ ] Container Type/Volume? holding tank 55-gal drum

Start 738 Flow Rate 3.0

Time	Gallons	Temp. (C / (F))	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	DO (ppm)	Eh (mV)	Observations/Comments
740	6	66.0	6.77	1665	22	0.85	-141.2	DTW= 67.82 / ODOR
742	12	68.9	6.83	1626	20	1.21	-142.6	DTW= 67.83
744	18	69.9	6.84	1627	15	1.34	-142.7	DTW= 67.83
746	24	70.3	6.88	1625	10	1.47	-142.7	DTW= 67.83
748	30	70.5	6.86	1624	8	1.54	-144.3	DTW= 67.83
750	36	69.9	6.95	1629	6	1.60	-147.3	DTW= 67.83
753	45	69.2	6.90	1649	4	1.56	-152.6	DTW= 67.83
756	54	69.7	6.87	1640	3	1.58	-153.8	DTW= 67.84
759	63	69.9	6.88	1647	2	1.60	-153.0	DTW= 67.85
802	72	69.6	6.89	1662	3	1.57	-154.5	DTW= 67.84 / D.O 1.0 mg/L
817	117	68.3	6.89	1676	3	1.57	-155.1	
818	END	DUMP						

SAMPLE COLLECTION METHOD:

Pump: [ ] Flow rate:
Bailer: [✓] Type: disposable
Other: [ ] Desc.:

Sample ID: OC-GW-OW8-022003
Dup. ID (if appl.): OC-GW-OW8K-02203
Sample Time: 820

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
8260B	3 VOA	HCl
1,4-dioxane	1 L Amber	—
perchlorate/NO_3/NO_2	500mL poly	—
CH_4, C_2H_6, C_2H_4	2 VOA	—
DOC	2 VOA	—
MNA (Alkalinity, SO_4^{-2}, Cl, CO_2, H_2S)	500mL poly	—
Fe+2	field filtered	—
Cr+6	500mL poly	NaOH

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MONITORING WELL PURGE AND SAMPLING FORM

Well No.:	OW1	Site:	Omega Chemical
Client:	Omega	Project No.:	10500-30697
Well Casing Diameter:	2" (4") 6" Other:	Well Casing Material:	PVC (SS) Screen Other: mild Blank
Well Headspace:	PID (ppm):	FID (ppm):	
Sampler:	Will Grove	Date	20 Aug 2002

Total Depth of Well (feet): 82.80 Reference Point: TOC Datum:

Depth to Water (feet): (75.97)

Water Column Height (feet): 6.81 (X) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / __" - __ Gal/feet = 4.4 + 18.5 g gravel pack = 22.9 (X) 3 = 68.8 Minimum Purge Volume (Gallons)

PURGE METHOD:

Submersible Pump ☐ Bladder Pump ☐ Hand Pump ☐ Peristaltic Pump ☐ Bailer: PVC ☐ Teflon ☐ SS ☐ Disposable ☐

Pump Make/Model: Grundfos Rediflo 2 Purge Equipment Decon'd? Y ☑ N ☐

Depth of Pump Intake (feet): 81 Purge/Decon Water Containerized? Y ☑ N ☐ Container Type/Volume?

12:24 Start pump Rate 2.5 down to ~0.5 gpm.

Time	Gallons	Temp. (C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	ORP Other	Depth to water ft Observations/Comments
1226	5	22.2	6.75	1621	114	-48	80' odor - stopped pump
	7.5 Dewatered well			wait for		recharge - 0.75 gpm	
1253	10	22.9	6.74	1631	146	-38	
1258	15	23.1	6.63	1631	173	-14	
1307	22	23.8	6.77	1630	22	-0	80.55
1316	29	24.0	6.63	1635	159	-0	80.25 Dropped Rate
1333	36	24.2	6.63	1632	16	-40	80.65 to 0.5 gpm or less
1344	43	24.1	6.67	1632	14	523	81.15 - DRY
							will allow 80% Recovery
1430	76.45'	@ 80% recovery					and Sample

SAMPLE COLLECTION METHOD:

Pump: ☐ Flow rate:
Bailer: ☑ Type: for 40mL VOA.
Other: ☐ Desc.:

Sample ID: OC-GW-OW1-082002

Dup. ID (if appl.):

Sample Time: 1400 - actually ~1440

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
8260B	3 x 40mL VOA	HCl
1,4-Dioxane	1 x 1L Amber	—
	EPA Split	

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MONITORING WELL PURGE AND SAMPLING FORM

Well No.: OW1b	Site: Terra Pave
Client: Omega	Project No.:
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC (SS) Screen Other: mild Steel Blank
Well Headspace: PID (ppm):	FID (ppm):
Sampler: Will Grove	Date 20 Aug 2002

Total Depth of Well (feet): 118.20 Reference Point: Top of Casing Datum: _____

Depth to Water (feet): 77.04

Water Column Height (feet): 41.16 (X) (2" - 0.16 / (4" - 0.65) / 6" - 1.47 / __" - __) Gal/feet = 26.8 (X) 3 = 80.4 Minimum Purge Volume (Gallons)

PURGE METHOD:

Submersible Pump [✓] Bladder Pump [ ] Hand Pump [ ] Peristaltic Pump [ ] Bailer: PVC [ ] Teflon [ ] SS [ ] Disposable [✓]

Pump Make/Model: 2" Grundfos Purge Equipment Decon'd? Y [✓] N [ ]

Depth of Pump Intake (feet): 115' Purge/Decon Water Containerized? Y [✓] N [ ] Container Type/Volume? Truck Tank

Start = 1019 gpm = 1.5

Time	Gallons	Temp. (C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	ORP ~~Other~~	DTW	Observations/Comments
1021	3	21.8	7.08	1016	407	-0	83.40	Odor (sulfur)
1026	9	22.0	7.46	987	203	-143	88.49	"
1030	15	22.4	7.45	972	168	-163	93.62	"
1034	21	22.5	7.49	970	107	-175	97.35	"
1038	27	22.6	7.56	973	76	-182	102.62	"
1042	33	22.8	7.56	973	99	-183	107.45	"
1046	39	22.9	7.61	975	120	-176	112.40	"
1050	45	22.9	7.60	992	152	-175	115.52	"
—	Well Dewatered @ 46 gals.							Need 85.2' for 80% recovery

SAMPLE COLLECTION METHOD:

Pump: [✓] Flow rate: _____
Bailer: [✓] Type: Wt. Disp.
Other: [ ] Desc.: _____

Sample ID: OC-GW-OW1b-082002
Dup. ID (if appl.): _____
Sample Time: 1500

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
8260B	3 x 40ml VOA	HCl
1,4-Dioxane	1 x 1L Amber	—
	EPA Split	

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MONITORING WELL PURGE AND SAMPLING FORM

I:\PROJECTS\ AD\ MWPURGE 08/19/94 2:27:13 John Dresser & McKee

Well No.: OW2	Site: ~800' N of Washington Blvd W. side of Putnam Dr
Client: Omega	Project No.: 10500-30697-
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC SS Other:
Well Headspace: PID (ppm):	FID (ppm):
Sampler: Will Grove	Date 21 Aug 2002

Total Depth of Well (feet): 80.23 Reference Point: TOC Datum:

Depth to Water (feet): 68.30

Water Column Height (feet): 11.93 (X) 2" - 0.16 / (4" - 0.65) / 6" - 1.47 / __" - __ Gal/feet = 7.75 (X) 3 = 116 Minimum Purge Volume (Gallons)

+ 30.8 gal (gravel Pack)

38.55

PURGE METHOD:

Submersible Pump [X] Bladder Pump [ ] Hand Pump [ ] Peristaltic Pump [ ] Bailer: PVC [ ] Teflon [ ] SS [ ] Disposable [ ]

Pump Make/Model: Grundfos Rediflo 2 Purge Equipment Decon'd? Y [X] N [ ]

Depth of Pump Intake (feet): ~76 Purge/Decon Water Containerized? Y [X] N [ ] Container Type/Volume? 55 gal Drum

0734 = Start Pump gpm = 4.0

Time	Gallons	Temp. (C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	ORP ~~Other~~	DTW Observations/Comments
736	8	21.9	6.83	1317	9	52	71.29
739	20	22.1	6.93	1305	10	45	71.45
744	40	22.1	6.92	1305	9	30	71.83
749	60	22.0	6.89	1307	9	44	72.12
754	80	22.1	6.83	1306	9	61	72.29
759	100	22.0	6.87	1307	12	64	72.61
801	108	22.1	6.93	1307	10	45	72.74
803	116	22.1	6.90	1308	9	53	72.81

SAMPLE COLLECTION METHOD:

Pump: [✓] Flow rate:

Bailer: [✓] Type: VOA

Other: [ ] Desc.:

1,4 Dioxane

Sample ID: OC-GW-OW2-082102

Dup. ID (if appl.):

Sample Time: 08:10

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
8260B	3x 40 ml VOA	HCl
1,4-Dioxane	1x1L Amber	–
	EPA Split	

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MONITORING WELL PURGE AND SAMPLING FORM

Comp Dresser & McKee 08/19/94 2:27:13 MWPURGE 1D \\PROJECTS\F...

Well No.: OW 3	Site: ~250' N. of Washington Blvd W. side of Putnam Dr
Client: Omega	Project No.:
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC SS Other:
Well Headspace: PID (ppm):	FID (ppm):
Sampler: Will Grove	Date: 20 Aug 2002

Total Depth of Well (feet): 82.77 Reference Point: TOC Datum: _____

Depth to Water (feet): 64.47

Water Column Height (feet): 18.30 (X) 2" - 0.16 / (4" - 0.65) / 6" - 1.47 / __" - __ Gal/feet = 11.9 (X) 3 = 119 Minimum Purge Volume (Gallons)

+ 27.8 gal (gravel pack)

39.7

PURGE METHOD:

Submersible Pump [X] Bladder Pump [ ] Hand Pump [ ] Peristaltic Pump [ ] Bailer: PVC [ ] Teflon [ ] SS [ ] Disposable [ ]

Pump Make/Model: Grundfos Rediflo 2 Purge Equipment Decon'd? Y [X] N [ ]

Depth of Pump Intake (feet): ~79' Purge/Decon Water Containerized? Y [X] N [ ] Container Type/Volume? Truck Tank

1604 = start Pump gpm = 2.5

Time	Gallons	Temp. (C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	ORP ~~Other~~	DTW Observations/Comments
1606	5	22.9	7.41	1440	24	11	Odor
1612	20	22.5	7.20	1474	13	36	71.83 "
1620	40	22.6	6.95	1501	53	24	74.85 "
1628	60	22.9	7.12	1508	40	190	78.25 "
1629	~~80~~	Dry /	Stop for	recharge to 67.30' (80%)			— "
1650	~~100~~ 80	23.0	7.17	1496	98	31	74.36 " 2.5 gpm
1658	~~110~~ 100	22.9	7.07	1501	251	44	78.11 Start 16:42
1658	~~120~~	Dry /	Stop for	recharge to 80%			— restart @ 17:12
1716	110	22.8	7.00	1507	27	30	72.23
1720	120	22.6	6.93	1499	86	28	

SAMPLE COLLECTION METHOD:

Pump: [✓] Flow rate: 0.5 gpm

Bailer: [✓] Type: Wt. Disp. ~~Bar~~

Other: [ ] Desc.:

Sample ID: OC-GW-OW3-082002

Dup. ID (if appl.):

Sample Time: 1720

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
8260 B	3 x 40 ml VOA	HCl
1,4-Dioxane	1 x 1L Amber	—
	EPA Split	

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MONITORING WELL PURGE AND SAMPLING FORM

I:\PROJECTS\F... MWPURGE 08/19/94 2:27:13 Camp Dresser & McKee

Well No.: OW4A	Site: @ 12455 Washington Inturn Lane N. side of Street
Client: Omega	Project No.: 10500-30697
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC (SS) Screen Other: Blank Steel
Well Headspace: PID (ppm):	FID (ppm):
Sampler: Will Grove	Date 21 Aug 2002

Total Depth of Well (feet): 74.88 Reference Point: TOC Datum:

Depth to Water (feet): 56.80

Water Column Height (feet): 18.08 (X) 2" - 0.16 / (4" - 0.65) / 6" - 1.47 / __" - __ Gal/feet = 11.75 (X) 3 = 122 Minimum Purge Volume (Gallons)

+ 28.8 gal (gravel pack)

40.55

PURGE METHOD:

Submersible Pump [X] Bladder Pump [ ] Hand Pump [ ] Peristaltic Pump [ ] Bailer: PVC [ ] Teflon [ ] SS [ ] Disposable [ ]

Pump Make/Model: Grundfos Rediflo 2 Purge Equipment Decon'd? Y [X] N [ ]

Depth of Pump Intake (feet): ~72 Purge/Decon Water Containerized? Y [X] N [ ] Container Type/Volume? 55 gal. drum

1316 = Start Pump gpm = 5.0

Time	Gallons	Temp. (C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	ORP (Other)	DTW Observations/Comments
1318	10	23.4	7.09	1824	15	39	
1320	20	23.1	7.02	1776	33	30	57.48
1324	40	23.0	6.96	1675	23	41	57.47
1328	60	22.9	6.91	1664	28	46	57.55
1332	80	22.9	6.90	1663	15	45	57.54
1336	100	22.9	6.91	1659	9	48	57.54
1338	110	22.9	6.88	1642	11	37	57.59
1340	120	22.8	6.94	1646	10	45	57.60
1341	125	22.8	6.92	1648	9	55	57.60

SAMPLE COLLECTION METHOD:

Pump: [✓] Flow rate: for Dioxane
Bailer: [✓] Type: VOA - disposable
Other: [ ] Desc.:

Sample ID: OC-GW-OW4A-082102

Dup. ID (if appl.):

Sample Time: 1350

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
8260B	3x 40ml VOA	HCl
1,4-Dioxane	1x 1L Amber	-
	EPA Split	

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MONITORING WELL PURGE AND SAMPLING FORM

west most well

Well No.: OW 4B	Site: @ 12455 Washington Blvd in Turn Lane N. side of street
Client: omega	Project No.: 10500-30697
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC (SS) Screen Other: Blank Steel
Well Headspace: PID (ppm):	FID (ppm):
Sampler: will Grove	Date: Aug 2002

* Not measured exactly.

Total Depth of Well (feet): 127.00 Reference Point: TOC Datum: _____

Depth to Water (feet): 63.64

Water Column Height (feet): 63.36 (X) 2" - 0.16 / (4" - 0.65) / 6" - 1.47 / ___" - ___ Gal/feet = 41.18 (X) 3 = 193 Minimum Purge Volume (Gallons)

+ 23.1 gal (filter pack)

64.28

PURGE METHOD:

Submersible Pump [X] Bladder Pump [ ] Hand Pump [ ] Peristaltic Pump [ ] Bailer: PVC [ ] Teflon [ ] SS [ ] Disposable [ ]

Pump Make/Model: Grundfos Rediflo 2 Purge Equipment Decon'd? Y [X] N [ ]

Depth of Pump Intake (feet): 124 Purge/Decon Water Containerized? Y [X] N [ ] Container Type/Volume? 55 gal. drums

Start = 1424 gpm = 5

Time	Gallons	Temp. (C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	ORP ~~Other~~	DTW Observations/Comments
1428	10	23.3	~~9.7~~ 7.41	1007	17	-509	Stop Added 36' tubing
1446	30	22.9	7.38	1294	14	529	restart 1442 DTW = 67.5
1450	50	22.9	6.81	1374	11	41	67.68
1454	70	22.7	7.33	1408	12	0	67.94
1458	90	22.6	7.26	1413	11	3	67.96
1502	110	22.6	7.28	1415	10	532	68.25
1506	130	22.6	7.26	1418	11	15	68.39
1510	150	22.5	7.26	1415	9	2	68.47
1514	170	22.5	7.23	1417	9	5	68.54
1517	185	22.6	7.27	1412	11	529	68.82
1519	195	22.5	7.21	1419	10	11	68.91

SAMPLE COLLECTION METHOD:

Pump: [X] Flow rate: 1 L min

VOCs Bailer: [X] Type: Disp. Bailer for VOCs

Other: [ ] Desc.:

Sample ID: OC-GW-OW 4b-082102

Dup. ID (if appl.): _____

Sample Time: 1525

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
~~802~~ 8260B	3 x 40ml VOA	HCl
1,4-Dioxane	1 x 1L Amber	
	EPA Split	

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MONITORING WELL PURGE AND SAMPLING FORM

I:\PROJECTS\F... MWPURGE 08/19/94 2:27:13 Camp Dresser & McKee

Well No.: OW5	Site: S. side of Rivera off ~100' W of Byron
Client: Omega	Project No.: 10500-30697
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC SS Other:
Well Headspace: PID (ppm):	FID (ppm):
Sampler: Will Grove	Date: 22 Aug 2002

Total Depth of Well (feet): 49.85 Reference Point: _____ Datum: _____

Depth to Water (feet): 30.03

Water Column Height (feet): 19.82 (X) 2" - 0.16 / (4" - 0.65) / 6" - 1.47 Gal/feet = 12.88 (X) 3 = 119 Minimum Purge Volume (Gallons)

+ 26.7 gal (gravel pack)

39.58

PURGE METHOD:

Submersible Pump [X] Bladder Pump [ ] Hand Pump [ ] Peristaltic Pump [ ] Bailer: PVC [ ] Teflon [ ] SS [ ] Disposable [ ]

Pump Make/Model: Grundfos Rediflo 2 Purge Equipment Decon'd? Y [X] N [ ]

Depth of Pump Intake (feet): ~42 Purge/Decon Water Containerized? Y [X] N [ ] Container Type/Volume? 55 gal. drum

Start = 809 gpm = 5.0

Time	Gallons	Temp. (C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	~~Other~~ ORP	Observations/Comments
811	10	21.4	7.18	1308	56	33	DTW
813	20	22.0	7.09	1290	46	15	30.36
817	40	21.9	6.97	1287	33	20	30.36
821	60	22.1	6.99	1283	22	16	30.38
823	70	22.1	7.01	1282	21	16	30.38
825	80	22.1	7.03	1283	20	9	30.38
827	90	22.2	7.01	1283	17	10	30.38
829	100	22.1	7.06	1285	21	14	30.38
831	110	22.0	7.03	1285	16	19	30.38
833	120	22.2	7.04	1286	16	17	30.38

SAMPLE COLLECTION METHOD:

Pump: [ ] Flow rate: _____
Bailer: [✓] Type: Wt. Disp.
Other: [ ] Desc.: _____

Sample ID: OC-GW-OW5-082202

Dup. ID (if appl.): _____

Sample Time: 0845

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
8260 B	3 x 40ml VOA	HCl
	EPA Split	

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MONITORING WELL PURGE AND SAMPLING FORM

Camp Dresser & McKee 08/19/94 2:27:13 MWPURGE I:\PROJECTS\F

Well No.: OW6	Site: ~200' S. of Washington Blvd. W. side of Lambert
Client: omega	Project No.:
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC SS Other:
Well Headspace: PID (ppm):	FID (ppm):
Sampler: Will Grove	Date: 21 Aug. 2002

Total Depth of Well (feet): 58.56 Reference Point: TOC Datum: _____

Depth to Water (feet): (45.70)

Water Column Height (feet): 12.86 (X) 2" - 0.16 / (4" - 0.65) / 6" - 1.47 Gal/feet = 8.36 (X) 3 = 96 Minimum Purge Volume (Gallons)

23.6 gal (gravel pack)

31.96

PURGE METHOD:

Submersible Pump [X] Bladder Pump [ ] Hand Pump [ ] Peristaltic Pump [ ] Bailer: PVC [ ] Teflon [ ] SS [ ] Disposable [ ]

Pump Make/Model: Grundfos Rediflo 2 Purge Equipment Decon'd? Y [X] N [ ]

Depth of Pump Intake (feet): 52 Purge/Decon Water Containerized? Y [X] N [ ] Container Type/Volume? _____

1025 start time

Time	Gallons	Temp. (C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	ORP Other	Observations/Comments
1026	5	22.0	6.98	1663	14	63	DTW
1028	15	22.2	6.89	1736	11	13	
1030	25	22.2	6.95	1769	8	29	45.92
1032	35	22.2	6.80	1772	6	24	45.91
1034	45	22.2	6.84	1775	6	23	45.81
1036	55	22.1	6.79	1775	7	24	45.81
1038	65	22.2	6.84	1778	6	32	45.81
1040	75	22.1	6.80	1776	6	37	45.83
1042	85	22.1	6.80	1776	6	43	45.93
1044	95	22.2	6.80	1777	6	29	45.92
1045	100	222	6.86	1777	7	44	45.93

SAMPLE COLLECTION METHOD:

Pump: [X] Flow rate: _____
Bailer: [X] Type: VOA Wt. Disp.
Other: [ ] Desc.: _____

Sample ID: OC-GW-OW6-082102

Dup. ID (if appl.): _____

Sample Time: 1100

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
8260B	3x 40ml VOA	HCl
	EPA split	

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MONITORING WELL PURGE AND SAMPLING FORM

Camp Dresser & McKee 08/19/94 2:27:13 MWPURGE

Well No.: OW7	Site: E side of Road in front of 12504 Whittier
Client: omega	Project No.:
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC (SS) screen Other: Blank steel.
Well Headspace: PID (ppm):	FID (ppm):
Sampler: Will Grove	Date: 21 Aug 2002

Total Depth of Well (feet): 92.30? Reference Point: TOC Datum:

Depth to Water (feet): 75.86

Water Column Height (feet): 16.44 (X) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / __" - __ Gal/feet = 10.69 (X) 3 = 89.1 Minimum Purge Volume (Gallons)

+ 19.02 gal gravel pack

29.71

PURGE METHOD:

Submersible Pump [✓] Bladder Pump [ ] Hand Pump [ ] Peristaltic Pump [ ] Bailer: PVC [ ] Teflon [ ] SS [ ] Disposable [✓]

Pump Make/Model: 2" Grundfos Purge Equipment Decon'd? Y [✓] N [ ]

Depth of Pump Intake (feet): 85' Purge/Decon Water Containerized? Y [✓] N [ ] Container Type/Volume? 55 gal. Drum

08:37 = start gpm = 3.0 → 2.0 Two(2) gpm max!

	Time	Gallons	Temp. (C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	ORP Other	DTW	Observations/Comments
	839	6	21.6	7.30	1337	27	56		3.5 gpm too high 8:42 stop
	848	17.5	21.7	7.03	1450	146	51		restart 8:46 2 gpm 2.5
	851	24	21.8	6.92	1485	132	36	80.64	
	855	32	21.3	7.07	1485	108	77	81.10	857 Dry 3 gal
910	~~859~~	40	21.2	6.98	1509	15	34	78.64	wait 80% 908 2 gpm
914	~~903~~	48	21.8	6.89	1507	77	39	79.80	
918	~~907~~	56	21.9	6.87	1503	81	52	79.88	
922	~~911~~	64	21.9	6.82	1505	98	59	80.22	
926	~~915~~	72	21.9	6.86	1509	45	64	80.45	
930	~~919~~	80	21.9	6.81	1510	25	60	80.54	
934	~~922~~	86	21.9	6.86	1510	15	59	80.65	
938	~~924~~	90	21.9	6.83	1512	11	60		

Doing MS/MSD – Lower hose so only 5-6' are out of well.

SAMPLE COLLECTION METHOD:

Pump: [✓] Flow rate: 0.5 gpm
Bailer: [✓] Type: Wh. Disp.
Other: [ ] Desc.:

Sample ID: OC-GW-OW7-082102
Dup. ID (if appl.):
Sample Time: 0945

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
8260	6 x 40 ml VOA	HCl
	EPA Split	

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MONITORING WELL PURGE AND SAMPLING FORM

Camp Dresser & McKee 08/19/94 2:27:13 MWPURGE D:\ I:\PROJECTS\F...

Well No.: OW 8	Site: ~400 N of Washington Blvd. W. side of Putnam Dr
Client: Omega	Project No.: 10500-30697-
Well Casing Diameter: 2" (4") 6" Other:	Well Casing Material: PVC (SS) Screen Other: Blank steel
Well Headspace: PID (ppm): ~~324~~	FID (ppm):
Sampler: Will Grove	Date 22 Aug 2002

Total Depth of Well (feet): 79.93 Reference Point: TOC Datum:

Depth to Water (feet): 66.46

Water Column Height (feet): 13.47 (X) (2" - 0.16 / 4" - 0.65 / 6" - 1.47) Gal/feet = 8.8 (X) 3 = 74 Minimum Purge Volume (Gallons)

+ 15.8 gal gravel pack

24.6

PURGE METHOD:

Submersible Pump [✓] Bladder Pump [ ] Hand Pump [ ] Peristaltic Pump [ ] Bailer: PVC [ ] Teflon [ ] SS [ ] Disposable [ ]

Pump Make/Model: 2" Grundfos Purge Equipment Decon'd? Y [✓] N [ ]

Depth of Pump Intake (feet): 75' Purge/Decon Water Containerized? Y [✓] N [ ] Container Type/Volume? 55 gal. drum

Start = 717 gpm = 5.0

Time	Gallons	Temp. (C / F)	pH	Conductivity (µmhos/cm)	Turbidity (NTUs)	ORP ~~Other~~	DTW Observations/Comments
719	10	21.6	7.11	1495	13	528	
721	20	21.8	7.01	1505	17	-0	67.06
723	30	21.8	6.99	1517	12	-0	67.11
725	40	21.8	6.95	1520	9	-0	67.13
727	50	21.8	6.97	1524	9	-35	67.15
729	60	21.9	6.95	1530	8	-34	67.08
731	70	21.8	6.95	1531	8	-12	67.08
732	75	21.9	6.96	1537	8	-33	67.05

Duplicate & Level IV deliverable

SAMPLE COLLECTION METHOD:

Pump: [ ] Flow rate:
Bailer: [✓] Type: for VOAs w/ Disp.
Other: [ ] Desc.:

Sample ID: OC-GW-OW8-082202
Dup. ID (if appl.): OC-GW-OW8K-082202
Sample Time: 0740, 0650 (dup)

SAMPLE ANALYSES:

Method:	Container Type/Vol.	Preservative
8260B	6 x 40 ml VOA	HCl
1,4-Dioxane	2 x 1L Amber	-
	EPA Split.	

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MONITORING WELL PURGE AND SAMPLING FORM

TOTALIZER: 4128[0] @ 2.1
1':43" | 5 gal @ 1|48

AQUIFER PUMP TEST DATA

March 10 2003

SITE NUMBER _____ CLIENT OMEGA CHEMICAL LOCATION PUTTNAM AVE PERSONNEL Will Grove Rob Lopez
JOB NUMBER 10500-37240 ELEVATIONS: MEASURING POINT _____ FT GROUND SURFACE _____ FT
PUMPED WELL NUMBER OW2 STATIC WATER LEVEL ~~69.39~~ FT 69.30
OBSERVATION WELL NUMBER — THICKNESS OF SCREENED INTERVAL _____ RADIUS OF PUMPED WELL _____ FT
DISTANCE BETWEEN PUMPED & OBSERVATION WELLS _____ FT

TOT= 4128[0] w/ dial @ 2:1

DATE	HOUR	TIME MINUTES PUMPING t	TIME MINUTES RECOVERY t'	t/t'	DEPTH TO WATER BMP (FEET)	WATER LEVEL ELEVATION (FEET)	DRAWDOWN s (FEET)	Δs	RESIDUAL DRAWDOWN s' (FEET)	DISCHARGE (GPM)	REMARKS
1140	0	69.30	(STATIC)				PI	PH	con Temp	Turb	TD 81.7' hard to tell
11:40:20		70.28									
11:40:40		70.60									
11:41:30		72.50									
11:42:00		72.52									~23 gpm increased
11:43:00		72.52									
11:44		72.62									23 sec gal
11:45		72.90									~3.0 21.5s/gal
11:46		73.16									
11:47		73.35									
11:48		73.64									
11:49		73.92									~2.0 1:43"
11:50		74.20									
11:52		74.68									4131 5.0 Totalizer
11:54		75.28									10 gal in 3:35 sec
1156		75.50						7.34	59 x10 24	27	Adj down 58.5 to 57.7 Hz
1158		75.61									4132 9.6
12:00		75.76									10 gal / 4.0 min @12:03
12:06		76.01									

CAMP DRESSER & McKEE INC.

AQUIFER PUMP TEST DATA

March 10 2003 OW2

WELL NO. OW-2

PROJECT OMEGA CHEMICAL

SWL = 69.30

PAGE 2 OF 4

Start 12 11:40 DATE	End 12 15:40 HOUR	TIME MINUTES PUMPING	TIME MINUTES RECOVERY	t/t'	DEPTH TO WATER BMP (FEET)	WATER LEVEL ELEVATION (FEET)	DRAWDOWN S (FEET)	ΔS	RESIDUAL DRAWDOWN S' (FEET)	DISCHARGE (GPM)	REMARKS
12:11					76.21			EC = 60×10			57.7 → 57.2
12:18					76.23	Temp	23.0 pH = 7.13		Turb = 7.12	1219	@ 41381.0 gal
12:23					76.10						
12:30					76.02						
12:37					76.09		Temp = 23.4 pH = 7.14	EC = 60 x 10	Turb = 3.8		12:43:00 — 41436.7
1247					76.41						why the jump? Box kicked?
1257					76.58					@1306	lowered! 57.2 → 57.1 Hz
1307					76.52					@1306 @1317	41490.0 gal. @change 41514.5 Δ24.5÷11
1317					76.48		T 23.5	EC 60×10	Turb 2.5		
1327					76.56						
1342					76.76						
1354					76.76						
14:14					76.96						@ 14:28
14:23					76.98						- tighten discharge hose
14:36					77.25						
14:46					77.26			Temp = 23.0 pH = 7.05			
15:00					77.32			EC = 60 X 10		Turb 32	41755.2 @ 15:06:00
15:12					77.69						
15:23					77.72						
1532					78.12						
15:44					78.53						

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Swl = 69.40

March 10 2003

AQUIFER PUMP TEST DATA

WELL NO. OW-2

PROJECT OMEGA CHEMICALS

PAGE 3 OF 4

DATE	HOUR	TIME MINUTES PUMPING	TIME MINUTES RECOVERY	t/t'	DEPTH TO WATER BMP (FEET)	WATER LEVEL ELEVATION (FEET)	DRAWDOWN S (FEET)	ΔS	RESIDUAL DRAWDOWN S' (FEET)	DISCHARGE (GPM)	REMARKS
3-10-03	15:45	- pump off									
	15:45:15	78.00									
	30	77.43									
	45	76.92									
	46:00	76.44									
	15	75.95									
	30	75.47									
	45	75.03									
	15:47:00	74.55									
	15:47:30	73.61									
	15:48:00	72.98									
	15:48:30	—									
	15:49:00	71.59									
	15:49:30 ~~50:00~~	71.02									
	15:50:00	70.55									
	15:51:20 ~~00~~	70.05									
	15:52	69.81									
	15:53	69.70									
	15:54	69.64									
	15:55	69.60									
	15:57	69.53									

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1110 New static 69.30 Setup in Troll.

79.50
6458
1500

77
69
8

7.7 available

totalizer

4128 $\boxed{0}$ w/ gal @ 2.1

OW2T1 file Name

1/48 1'43" /5gal

Omega Chemicals

OW-2

20-30: 5min

MINITROLL : 11·80
SUBMERGENCE

AQUIFER PUMP TEST DATA

SITE NUMBER _____ CLIENT OMEGA CHEMICALS LOCATION Puttnam Ave, Whittier PERSONNEL ROB LOPEZ, PEARL PEREIRA

JOB NUMBER 10500-37240 ELEVATIONS: MEASURING POINT TOC FT GROUND SURFACE _____ FT

PUMPED WELL NUMBER OW-3 STATIC WATER LEVEL 65·61 FT @ 8:57am.

OBSERVATION WELL NUMBER – THICKNESS OF SCREENED INTERVAL _____ RADIUS OF PUMPED WELL _____ FT

DISTANCE BETWEEN PUMPED & OBSERVATION WELLS _____ FT

DATE	HOUR	TIME MINUTES PUMPING t	TIME MINUTES RECOVERY t'	t/t'	DEPTH TO WATER BMP (FEET)	WATER LEVEL ELEVATION (FEET)	DRAWDOWN S (FEET)	ΔS	RESIDUAL DRAWDOWN S' (FEET)	DISCHARGE (GPM)	REMARKS
3-13-3				PUMPING	TEST @	9:00 am					Totalizer : 4455·0 START
	9:00	0			65·61						
					67·15						changed pumping rate ↓ a little
					67·99						
					–						Q = 1·33 gpm flow meter.
					–						
	9:05				68·84						Q = 1·42 gpm flow meter.
					69·04						Q = 5 gallons 3·27sec
					69·34						⇒ 1·45 gpm
					69·73						
					69·86						
	9:10	10 min			70·31						
	9:12				70·43						
	9:14				70·75						
	9:16				70·98						
	9:18				71·15						
	9:20	20 min			71·31						
	9:25				71·69						Q = 5g / 4min = 1·25 gpm
	9:30	30 min			71·95						Q = 1·3 gpm

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AQUIFER PUMP TEST DATA

WELL NO. OW-3
PROJECT OMEGA CHEMICALS
PAGE 2 OF 3

DATE	HOUR	TIME MINUTES PUMPING	TIME MINUTES RECOVERY	t/t'	DEPTH TO WATER BMP (FEET)	WATER LEVEL ELEVATION (FEET)	DRAWDOWN S (FEET)	ΔS	RESIDUAL DRAWDOWN S' (FEET)	DISCHARGE (GPM)	REMARKS
3-13-3	9:40				72.08						pH: 7.09
	9:50				72.26					W.Q	Temp: 22°C [228.1 Hz
	10:00	60mins			72.94					9:36	E.C: 60 x 10 μΩ
	10:15				74.09					3/13	TURB: 8.65 NTU
	10:30				74.86				9:30 am: Observed slight kink in		
	10:45				75.45					tubing → ↓ in flow	
	11:00				75.86				9:31 am: Put lock below to prevent kinking		
	11:05				75.97						Q = 1.2 gpm @ 9:57
	11:10				76.10						Q = 1.33 gpm @ 10:00
	11:15				76.19						Q = 1.33 gpm @ 10:23
	11:25				76.26						
	11:30				76.32						pH : 7.20
	11:45				76.40					W.Q	Temp . 23°C
	12:00				76.31					11:05	E.C : 68 x 10 μΩ
	12:15				76.42					3/13	TURB . 8.81 NTU
	12:30				76.51						
	12:45				76.77						Q = 1.2 gpm @ 11:57
	13:00				76.86						Q = 5gal/4.4 = 1.14 gpm
								Q = 1.25 gpm @ 12:35			
								= 26gal/21.5 = 1.21 @ 12:35			pH : 7.16
										W.Q	Temp 24°C
						GW samples taken out of the port				12:28	EC . 70 x 10 μΩ
						@ 12:55 pm				3/13	TURB : 4.73 NTU

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3/13/3 [redacted] 10-20 . 2min [redacted] + [redacted] 5min [redacted]

20-30 . 5min

AQUIFER PUMP TEST DATA

958 SWL
66.17

WELL NO. OW-3
PAGE 3 OF 3

PROJECT OMEGA CHEMICALS

SWL = 65.61 RECOVERY DATA

DATE	HOUR	TIME MINUTES PUMPING	TIME MINUTES RECOVERY 12:59:45	t/t' = 76.90	DEPTH TO WATER BMP (FEET)	WATER LEVEL ELEVATION (FEET)	DRAWDOWN S (FEET)	ΔS	RESIDUAL DRAWDOWN S' (FEET)	DISCHARGE (GPM)	REMARKS
3-13-03		PUMP WAS SHUT OFF AT					Max =				
	13:00		Elapsed 0								
			∅:15	75.92							
			∅ 45	75.10			Final Totalizer				
			1:00	74.75				44856.4			
			1:30	74.25							44856.4
			2:00	73.74							44550
			2:30	73.25							306.4 ÷ 240 =
			3:00	72.75							1.276 gpm
			3:30	72.32							
			4	71.81							
			5	71.11							
			6	70.42							
			7	69.61							
			8	69.30							
			9	68.90							
	13:10		10	68.40							
			12	67.66							
			14	67.12							
			16	66.71							
			19	66.29							
			20	66.20							
			22	66.04							

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[redacted] - 20 [redacted] min [redacted] 60 [redacted] 1[redacted] mins [redacted]

20-30 5min

3/14/03
FRIDAY

MINITROLL
EMERGENCE : 10.839 ft.

AQUIFER PUMP TEST DATA

PAGE 1 OF ____

SITE NUMBER ____ CLIENT OMEGA CHEMICALS LOCATION WASHINGTON BLVD PERSONNEL ROB LOPEZ, PEARL PEREIRA

JOB NUMBER 10500 - 37240 ELEVATIONS: MEASURING POINT TOC FT GROUND SURFACE ____ FT

PUMPED WELL NUMBER OW 4A STATIC WATER LEVEL 58.40 FT 8.42 am

OBSERVATION WELL NUMBER — THICKNESS OF SCREENED INTERVAL ____ RADIUS OF PUMPED WELL ____ FT

DISTANCE BETWEEN PUMPED & OBSERVATION WELLS ____ FT

TOTALISER: 448559 RD (INITIAL)

DATE	HOUR	TIME MINUTES PUMPING t	TIME MINUTES RECOVERY t'	t/t'	DEPTH TO WATER BMP (FEET)	WATER LEVEL ELEVATION (FEET)	DRAWDOWN s (FEET)	Δs	RESIDUAL DRAWDOWN s' (FEET)	DISCHARGE (GPM)	REMARKS
3/14/03		PUMPING STARTED @			8:51						
	8:51	0			58.40						changed pumping rate ↓ @ 8.5130
					59.96						↑ @ 8.5236
					59.46						Q = 10 gpm
					59.82						
	8:55				60.53						
					60.55						
					60.58						
					60.59						
					—						
					—						
	9:01	10 mins			60.60						Q = 50 gpm/4.53 mins = 10.24
	9:03				60.61						
	9:05				60.61						
	9:07				60.62						
	9:09				60.625						
	9:11	20 mins			60.63		pH=6.94				
	9:16				60.62		EC = 59 X 10 Temp = 21				
	9.21	30 mins			60.63		Turb = 3.3				

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60.69
58.40
2.29

OW
3.14.03
Friday

AQUIFER PUMP TEST DATA

WELL NO. OW 4A

PROJECT Omegee Chemical

SWL = 58.40

PAGE 2 OF

DATE	HOUR	TIME MINUTES PUMPING	TIME MINUTES RECOVERY	t/t'	DEPTH TO WATER BMP (FEET)	WATER LEVEL ELEVATION (FEET)	DRAWDOWN S (FEET)	ΔS	RESIDUAL DRAWDOWN S' (FEET)	DISCHARGE (GPM)	REMARKS
3-14-03	9:26				60.63					9.50 gpm 3/14/03	pH : 6.95
	9:31				60.63						Temp : 17.5°C
	9:41				60.65	NB:	minitroll	0.50' less	∴ ref changed		EC : 60 x 10 μΩ
	9:51	60 mins			60.65		from 58.40 to		58.38		TURBIDITY : 2.13 NTU.
	10:06				60.66						
	10:21				60.66			pH = 6.97 Temp = 22.0			45470.0 - 9:50 41
	10:36				60.68		11:35	EC = 68 x 10 Turb = 1.15			HERTZ: 79.4
	10:51				60.68						Q = 10.3 gpm 10:08
	11:10				60.68						(45650.0 - 10:08 55)
	11:21				60.69			(46130.0 10:54 44)			Q = 10.3 gpm 10:54
	11:36				60.68						46635.0 @ 11:43:38
	11:51				60.68		Q: 20 gal / 1 min 56 sec				pH = 7.11 Temp = 23.0
	12:06				60.67					12:19	EC = 70 x 10 Turb = 2.76
	12:21				60.67						
	12:36				60.69			(47160.0 12:34 48)			Q = 10.3 gpm @ 12:34
	12:51										
			SHUT PUMP OFF @ 12:51 pm.								

CAMP DRESSER & McKEE INC.

20-30 5min

3-14-03
FRIDAY

AQUIFER PUMP TEST DATA

RECOVERY DATA

PROJECT OMEGA CHEMICALS SWL: 58.40 pump off @ 12:52:00 even

WELL NO. OW4A
PAGE 3 OF

DATE	HOUR	TIME MINUTES PUMPING	TIME MINUTES RECOVERY	t/t' 60.67	DEPTH TO WATER BMP (FEET)	WATER LEVEL ELEVATION (FEET)	DRAWDOWN s (FEET)	Δs	RESIDUAL DRAWDOWN s' (FEET)	DISCHARGE (GPM)	REMARKS
3-14-03	12:52		0								
	12:52:21		sec 21		59.21						
	12:53		1 min		58.67						47341.2 ← Final
	12:54		2 min		58.54						
	12:55		3 min		58.51						
	12:56		4 min		58.49						
	12:57		5 min		58.48						
	12:58		6 min		58.47						
	12:59		7 min		58.46						
	13:00		8		58.45						
	13:01		9		58.445						
	13:02		10		58.44						
	13:04		12		58.44						
	13:06		14		58.44						
	13:08		16		58.44						
	1310		18		58.44	@	95% recovery		will terminate		test
	13:12		20								
											47341.2
											44855.9
											2485.30 ÷ 241 =
											10.31 gpm

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3/11/03

OW8
AVERAGE Q gpm = 10-4 gpm.

MINITROLL: NEW TEST
OW8_ PUMP_ 16 gpm

AQUIFER PUMP TEST DATA

SITE NUMBER _____ CLIENT OMEGA CHEMICALS LOCATION PUTTNAM AVE PERSONNEL ROB LOPEZ, PEARL PEREIRA.
JOB NUMBER 10500-37240 ELEVATIONS: MEASURING POINT _____ FT GROUND SURFACE _____ FT
PUMPED WELL NUMBER OW-8 STATIC WATER LEVEL 67.44 FT @ 10:30 am
OBSERVATION WELL NUMBER — THICKNESS OF SCREENED INTERVAL _____ RADIUS OF PUMPED WELL _____ FT
DISTANCE BETWEEN PUMPED & OBSERVATION WELLS _____ FT

DATE	HOUR	TIME MINUTES PUMPING t	TIME MINUTES RECOVERY t'	t/t'	DEPTH TO WATER BMP (FEET)	WATER LEVEL ELEVATION (FEET)	DRAWDOWN s (FEET)	Δs	RESIDUAL DRAWDOWN s' (FEET)	DISCHARGE (GPM)	REMARKS
03/11/03		PUMPING	TEST START	@	10:35 am						41983.2 TOTALISER
	10:35	0			67.44					10.66 =	16 gallons 1:30 min
		1mins			68.60						
					69.51						pH: 6.81
					69.54					W.Q	EC: 71 x10 μΩ
					69.55					10:38	TEMP: 22°C.
	10:40	5mins			69.55		W.L.I got stuck.				TURB: 7.12 NTU
					69.55						
											FLOW TEST: 42080
					69.56						
					69.56						30 gallons in 2.50 min
	10:45	10mins			69.57						≅ 10.59 gpm
	47				69.60						
	49				69.62						pH: 6.73
	51				69.64						EC: 75 x10 μΩ
	53				69.64					W.Q	TEMP: 22°C
	10:55	20mins			69.64					10:53	TURB: 1.65 NTU
	11:00				69.67						
	11:05	30mins			69.69					10.78 gpm =	TOTAL: 10.5630 42283.3

CAMP DRESSER & McKEE INC.

(cont.)

OW-8 (pumping well)

AQUIFER PUMP TEST DATA

PROJECT Omega Pump Test

WELL NO. OW 8
PAGE 2 OF 3

DATE	HOUR	TIME MINUTES PUMPING	TIME MINUTES RECOVERY	t/t'	DEPTH TO WATER BMP (FEET)	WATER LEVEL ELEVATION (FEET)	DRAWDOWN S (FEET)	ΔS	RESIDUAL DRAWDOWN S' (FEET)	DISCHARGE (GPM)	REMARKS
3/11/03	11:15				69.74						
	11:25				69.78					=	11:21:30 → Total 42468.6
	11:35				69.83						
	11:45				69.86						pH : 6.76
	12:00				69.94					W.Q	EC : 82 x 10 μΩ
	12:15				69.99					12:31	TEMP : 22°C
	12:30				70.08						TURB : 0.60 NTU
	13:00				70.13						
	13:30				70.20						pH : 6.76
	13:45				70.27					W.Q	EC : 81 x 10 μΩ
	14:00				70.29					13:27	TEMP : 22.5°C
	14:15				70.29	pH = 6.77 Temp = 22.2 turb = 0.70			EC = 80 x 10		TURB : 1.53 NTU
	14:30				70.33						
									GPM =	2826 gal / 27 min	(1:28) min 43788.8
		TURNED OFF MINITROLL @ 14:30 & RE-STARTED @ 14:35									2:55:00 44071.3
		SHUT PUMP OFF @ 14:35 10 sec.							=	10.46 gpm	
									G.W SAMPLE 14:25		
											pH = 6.79
										W.Q	EC: 80 x 10 μΩ
										14:26	TEMP : 22.5°C
											TURB: 0.90 NTU

43788.8
282-5

CAMP DRESSER & McKEE INC.

[redacted] 10[redacted]: 2[redacted] [redacted] + [redacted] 5 min [redacted]
20 - 30 : 5 mins

AQUIFER PUMP TEST DATA

STATIC: 67.44
95% RECOVERY =
70.33 - [(70.33 - 67.44) x 0.95]
= 67.58'

RECOVERY DATA.

PROJECT OMEGA CHEMICALS

WELL NO. OW 8
PAGE 3 OF 3

DATE	HOUR	TIME MINUTES PUMPING t	TIME MINUTES RECOVERY t	t/t'	DEPTH TO WATER BMP (FEET)	WATER LEVEL ELEVATION (FEET)	DRAWDOWN S (FEET)	ΔS	RESIDUAL DRAWDOWN S' (FEET)	DISCHARGE (GPM)	REMARKS
03-11-03	14:35		0		70.33						
			1 min		68.60						
					68.03						
					67.99						
					67.96						
					67.93						
					67.88						
					67.85						
					67.84						
					67.82						
	14:45		10 min		67.81						
	14:47				67.79						
	14:49				67.77						
	14:51				67.76						
	14 53				67.75						
	14:55		20 mins		67.73			TOTALISER :		44490.5	
	15:00				67.72						
	15:05				67.70						
	15:15										
	15:25							TOTALISER:	00	4451.0	3/12/03
	15:35										9:18 am

CAMP DRESSER & McKEE INC.

Appendix C
Well Survey Data

Bush & Associates Inc.

Land Surveyors

Whittier Monitoring Wells

Survey Measurements
September 17, 1999

Well No.	Calif. Coordinates Zone 7 NAD27 (Feet) Well C/L		UTM Coordinates Zone 11 NAD83 (Meters) Well C/L	
	N	E	N	E
OW-1	4101351.3	4274702.0	3759242.1 m	403554.4 m
OW-1B	4101331.7	4274666.4	3759236.3	403543.4
OW-2	4101362.0	4274396.2	3759246.6	403461.2
OW-3	4101113.0	4274538.0	3759170.1	403503.4

Elevation (Feet)

	Ground Surface	Lid	Top Pipe
OW-1	207.79		210.30 4" PVC
OW-1B	205.18	205.18	204.98 4" PVC
OW-2	201.04	201.04	200.10 4" PVC
OW-3	196.88	196.88	196.33 Steel

18019 Sky Park Circle • Suite H • Irvine, California 92614-6520 • (949) 752-1888

Bush & Associates Inc.

Land Surveyors

Whittier Monitoring Wells

Survey Measurements
November 16, 2001

Well No.	Calif. Coordinates Zone 7 NAD27 (Feet) Well C/L		UTM Coordinates Zone 11 NAD83 (Meters) Well C/L	
	N	E	N	E
OW-4A	4100784.2	4273942.3	3759072.3 m	403320.6 m
OW-4B	4100782.7	4273932.3	3759071.9	403317.6
OW-5	4100291.9	4272058.3	3758929.8	402744.6
OW-6	4100352.7	4273577.3	3758942.3	403207.7

Elevation (Feet)

	Ground Surface	Lid	Top Pipe
OW-4A	182.73	182.73	182.47 4" Steel
OW-4B	182.63	182.63	182.22 4" Steel
OW-5	152.68	152.68	151.96 4" PVC
OW-6	170.94	170.94	170.54 4" Steel

LICENSED LAND SURVEYOR
DAVID A. BUSH
Exp. 12-31-02
No. 7052
STATE OF CALIFORNIA

David A. Bush

18019 Sky Park Circle • Suite H • Irvine, California 92614-6520 • (949) 752-1888

Bush & Associates Inc.

Land Surveyors

Whittier Monitoring Wells

Survey Measurements

May 15, 2002

Well No.	Calif. Coordinates Zone 7 NAD 27 (Feet) Well C/L		UTM Coordinates Zone 11 NAD83 (Meters) Well C/L	
	N	E	N	E
OW-8	4101239.5	4274466.7	3759209.0 m	403482.2 m
OW-7	4101548.4	4274850.7	3759301.6 m	403600.4 m

Elevation (Feet)

	Ground Surface	Lid	Top Pipe	
OW-8	199.03	199.03	198.42	4.5" Steel
OW-7	213.34	213.34	212.01	4.5" Steel

LICENSED LAND SURVEYOR
DAVID A. BUSH
Exp. 12-31-02
No. 7052
STATE OF CALIFORNIA

David A. Bush

18010 Sky Park Circle

Appendix D
Analytical Reports and COCs

Del Mar Analytical

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

LABORATORY REPORT

Prepared For: Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project: Omega Chemical
10500-37240-GW.Aquifer Test

Sampled: 03/14/03
Received: 03/14/03
Issued: 03/25/03

NELAP #01108CA CA ELAP#1197 AZ DHS #AZ0428 NV #CA-72

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IMC0806-01	OC-GW-OW4A-031403	Water

Del Mar Analytical, Irvine
Patty Mata
Project Manager

Del Mar Analytical

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-37240-GW.Aquifer Test
Report Number: IMC0806

Sampled: 03/14/03
Received: 03/14/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0806-01 (OC-GW-OW4A-031403 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	3C20028	10	ND	1	3/20/2003	3/20/2003	
Benzene	EPA 8260B	3C20028	0.50	ND	1	3/20/2003	3/20/2003	
Bromobenzene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
Bromochloromethane	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
Bromodichloromethane	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
Bromoform	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
Bromomethane	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
n-Butylbenzene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
sec-Butylbenzene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
tert-Butylbenzene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
Carbon tetrachloride	EPA 8260B	3C20028	0.50	ND	1	3/20/2003	3/20/2003	
Chlorobenzene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
Chloroethane	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
Chloroform	EPA 8260B	3C20028	1.0	**13**	1	3/20/2003	3/20/2003	
Chloromethane	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
2-Chlorotoluene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
4-Chlorotoluene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
Dibromochloromethane	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3C20028	5.0	ND	1	3/20/2003	3/20/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
Dibromomethane	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
1,2-Dichlorobenzene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
1,3-Dichlorobenzene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
1,4-Dichlorobenzene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
Dichlorodifluoromethane	EPA 8260B	3C20028	5.0	ND	1	3/20/2003	3/20/2003	
1,1-Dichloroethane	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
1,2-Dichloroethane	EPA 8260B	3C20028	0.50	**0.77**	1	3/20/2003	3/20/2003	
cis-1,2-Dichloroethene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
trans-1,2-Dichloroethene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
1,2-Dichloropropane	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
1,3-Dichloropropane	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
2,2-Dichloropropane	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
1,1-Dichloropropene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
cis-1,3-Dichloropropene	EPA 8260B	3C20028	0.50	ND	1	3/20/2003	3/20/2003	
trans-1,3-Dichloropropene	EPA 8260B	3C20028	0.50	ND	1	3/20/2003	3/20/2003	
Ethylbenzene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
Hexachlorobutadiene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
Isopropylbenzene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
p-Isopropyltoluene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
Methylene chloride	EPA 8260B	3C20028	5.0	ND	1	3/20/2003	3/20/2003	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-37240-GW.Aquifer Test
Report Number: IMC0806

Sampled: 03/14/03
Received: 03/14/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0806-01 (OC-GW-OW4A-031403 - Water)								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
n-Propylbenzene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
Styrene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
Toluene	EPA 8260B	3C20028	1.0	**1.4**	1	3/20/2003	3/20/2003	
1,1,1-Trichloroethane	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
1,1,2-Trichloroethane	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
Trichloroethene	EPA 8260B	3C20028	1.0	**25**	1	3/20/2003	3/20/2003	
Trichlorofluoromethane	EPA 8260B	3C20028	1.0	**69**	1	3/20/2003	3/20/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3C20028	5.0	**150**	1	3/20/2003	3/20/2003	
1,2,3-Trichloropropane	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
Vinyl chloride	EPA 8260B	3C20028	0.50	ND	1	3/20/2003	3/20/2003	
o-Xylene	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
m,p-Xylenes	EPA 8260B	3C20028	1.0	ND	1	3/20/2003	3/20/2003	
Surrogate: Dibromofluoromethane (80-120%)				*115 %*				
Surrogate: Toluene-d8 (80-120%)				*108 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500-37240-GW.Aquifer Test
Report Number: IMC0806

Sampled: 03/14/03
Received: 03/14/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0806-01RE1 (OC-GW-OW4A-031403 - Water)								
Reporting Units: ug/l								
1,2,3-Trichlorobenzene	EPA 8260B	3C20013	1.0	ND	1	3/20/2003	3/20/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3C20013	1.0	ND	1	3/20/2003	3/20/2003	
Surrogate: Dibromofluoromethane (80-120%)				*107 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				

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18581 Teller Avenue, #200
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Attention: Sharon Wallin

Project ID: Omega Chemical
10500-37240-GW.Aquifer Test
Report Number: IMC0806

Sampled: 03/14/03
Received: 03/14/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0806-01RE2 (OC-GW-OW4A-031403 - Water)								
Reporting Units: ug/l								
1,1-Dichloroethene	EPA 8260B	3C20013	4.0	**210**	4	3/20/2003	3/21/2003	
Tetrachloroethene	EPA 8260B	3C20013	4.0	**250**	4	3/20/2003	3/21/2003	
Surrogate: Dibromofluoromethane (80-120%)				*114 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*102 %*				

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-37240-GW.Aquifer Test
Report Number: IMC0806

Sampled: 03/14/03
Received: 03/14/03

PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0806-01 (OC-GW-OW4A-031403 - Water)								
Reporting Units: ug/l								
Tentatively Identified Compounds	EPA 8260B	3C20028	50	ND	1	3/20/2003	3/20/2003	

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-37240-GW.Aquifer Test
Report Number: IMC0806

Sampled: 03/14/03
Received: 03/14/03

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0806-01 (OC-GW-OW4A-031403 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	3C19084	0.50	**1.8**	0.962	3/19/2003	3/21/2003	
Surrogate: 1,4-Dioxane-d8 (40-120%)				*59 %*				

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10500-37240-GW.Aquifer Test
Report Number: IMC0806

Sampled: 03/14/03
Received: 03/14/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C20013 Extracted: 03/20/03										
Blank Analyzed: 03/20/03 (3C20013-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							

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10500-37240-GW.Aquifer Test
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Sampled: 03/14/03
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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C20013 Extracted: 03/20/03										
Blank Analyzed: 03/20/03 (3C20013-BLK1)										
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*28.3*		*ug/l*	*25.0*		*113*	*80-120*			
Surrogate: Toluene-d8	*28.3*		*ug/l*	*25.0*		*113*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.6*		*ug/l*	*25.0*		*106*	*80-120*			

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Report Number: IMC0806

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C20013 Extracted: 03/20/03										
LCS Analyzed: 03/20/03 (3C20013-BS1)										
Acetone	17.0	10	ug/l	25.0		68	30-145			
Benzene	26.0	0.50	ug/l	25.0		104	70-120			
Bromobenzene	26.7	1.0	ug/l	25.0		107	80-120			
Bromochloromethane	27.2	1.0	ug/l	25.0		109	65-135			
Bromodichloromethane	26.9	1.0	ug/l	25.0		108	70-140			
Bromoform	22.1	1.0	ug/l	25.0		88	55-135			
Bromomethane	27.1	1.0	ug/l	25.0		108	65-140			
n-Butylbenzene	27.3	1.0	ug/l	25.0		109	75-130			
sec-Butylbenzene	27.6	1.0	ug/l	25.0		110	75-125			
tert-Butylbenzene	28.2	1.0	ug/l	25.0		113	75-125			
Carbon tetrachloride	28.1	0.50	ug/l	25.0		112	65-155			
Chlorobenzene	26.5	1.0	ug/l	25.0		106	80-125			
Chloroethane	29.3	1.0	ug/l	25.0		117	60-145			
Chloroform	26.3	1.0	ug/l	25.0		105	70-130			
Chloromethane	23.6	1.0	ug/l	25.0		94	40-145			
2-Chlorotoluene	27.7	1.0	ug/l	25.0		111	75-125			
4-Chlorotoluene	28.4	1.0	ug/l	25.0		114	75-125			
Dibromochloromethane	26.8	1.0	ug/l	25.0		107	65-145			
1,2-Dibromo-3-chloropropane	20.6	5.0	ug/l	25.0		82	50-130			
1,2-Dibromoethane (EDB)	25.8	1.0	ug/l	25.0		103	75-125			
Dibromomethane	26.1	1.0	ug/l	25.0		104	70-130			
1,2-Dichlorobenzene	27.7	1.0	ug/l	25.0		111	80-120			
1,3-Dichlorobenzene	26.8	1.0	ug/l	25.0		107	75-120			
1,4-Dichlorobenzene	26.8	1.0	ug/l	25.0		107	75-120			
Dichlorodifluoromethane	21.3	5.0	ug/l	25.0		85	10-160			
1,1-Dichloroethane	26.8	1.0	ug/l	25.0		107	70-135			
1,2-Dichloroethane	25.8	0.50	ug/l	25.0		103	60-150			
1,1-Dichloroethene	26.0	1.0	ug/l	25.0		104	70-130			
cis-1,2-Dichloroethene	26.4	1.0	ug/l	25.0		106	70-125			
trans-1,2-Dichloroethene	28.0	1.0	ug/l	25.0		112	70-130			
1,2-Dichloropropane	25.4	1.0	ug/l	25.0		102	65-120			
1,3-Dichloropropane	25.6	1.0	ug/l	25.0		102	70-130			
2,2-Dichloropropane	27.4	1.0	ug/l	25.0		110	70-150			
1,1-Dichloropropene	26.9	1.0	ug/l	25.0		108	75-130			
cis-1,3-Dichloropropene	26.3	0.50	ug/l	25.0		105	75-130			

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Project ID: Omega Chemical
10500-37240-GW.Aquifer Test
Report Number: IMC0806

Sampled: 03/14/03
Received: 03/14/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C20013 Extracted: 03/20/03										
LCS Analyzed: 03/20/03 (3C20013-BS1)										
trans-1,3-Dichloropropene	26.7	0.50	ug/l	25.0		107	70-135			
Ethylbenzene	27.7	1.0	ug/l	25.0		111	70-125			
Hexachlorobutadiene	25.2	1.0	ug/l	25.0		101	70-140			
Isopropylbenzene	28.8	1.0	ug/l	25.0		115	70-125			
p-Isopropyltoluene	26.4	1.0	ug/l	25.0		106	75-125			
Methylene chloride	25.1	5.0	ug/l	25.0		100	60-135			
Methyl-tert-butyl Ether (MTBE)	28.1	1.0	ug/l	25.0		112	55-145			
Naphthalene	26.4	1.0	ug/l	25.0		106	50-145			
n-Propylbenzene	28.4	1.0	ug/l	25.0		114	75-130			
Styrene	28.3	1.0	ug/l	25.0		113	80-135			
1,1,1,2-Tetrachloroethane	26.2	1.0	ug/l	25.0		105	70-145			
1,1,2,2-Tetrachloroethane	26.4	1.0	ug/l	25.0		106	60-135			
Tetrachloroethene	26.5	1.0	ug/l	25.0		106	80-125			
Toluene	27.3	1.0	ug/l	25.0		109	70-120			
1,2,3-Trichlorobenzene	25.9	1.0	ug/l	25.0		104	65-135			
1,2,4-Trichlorobenzene	26.5	1.0	ug/l	25.0		106	70-140			
1,1,1-Trichloroethane	27.6	1.0	ug/l	25.0		110	70-140			
1,1,2-Trichloroethane	25.0	1.0	ug/l	25.0		100	70-125			
Trichloroethene	26.7	1.0	ug/l	25.0		107	75-120			
Trichlorofluoromethane	24.2	1.0	ug/l	25.0		97	65-145			
1,2,3-Trichloropropane	25.7	1.0	ug/l	25.0		103	60-130			
1,2,4-Trimethylbenzene	27.9	1.0	ug/l	25.0		112	80-125			
1,3,5-Trimethylbenzene	28.5	1.0	ug/l	25.0		114	80-125			
Vinyl chloride	26.5	0.50	ug/l	25.0		106	50-130			
o-Xylene	27.2	1.0	ug/l	25.0		109	70-125			
m,p-Xylenes	53.5	1.0	ug/l	50.0		107	70-120			
Surrogate: Dibromofluoromethane	*27.6*		*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*27.9*		*ug/l*	*25.0*		*112*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			

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Report Number: IMC0806

Sampled: 03/14/03
Received: 03/14/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C20013 Extracted: 03/20/03										
Matrix Spike Analyzed: 03/20/03 (3C20013-MS1)					**Source: IMC0435-01**					
Benzene	24.5	0.50	ug/l	25.0	ND	98	60-125			
Bromodichloromethane	27.0	1.0	ug/l	25.0	ND	108	70-140			
Bromoform	24.9	1.0	ug/l	25.0	ND	100	50-140			
Chlorobenzene	25.6	1.0	ug/l	25.0	ND	102	75-125			
Chloroform	25.2	1.0	ug/l	25.0	ND	101	70-130			
Dibromochloromethane	28.4	1.0	ug/l	25.0	ND	114	65-145			
1,4-Dichlorobenzene	24.8	1.0	ug/l	25.0	ND	99	70-120			
1,1-Dichloroethane	25.9	1.0	ug/l	25.0	0.68	101	65-135			
1,2-Dichloroethane	26.8	0.50	ug/l	25.0	ND	107	60-150			
1,1-Dichloroethene	24.3	1.0	ug/l	25.0	0.62	95	60-135			
Ethylbenzene	26.1	1.0	ug/l	25.0	ND	104	65-125			
Methyl-tert-butyl Ether (MTBE)	32.2	1.0	ug/l	25.0	ND	129	55-155			
Naphthalene	29.1	1.0	ug/l	25.0	ND	116	50-145			
Tetrachloroethene	32.5	1.0	ug/l	25.0	9.0	94	70-130			
Toluene	25.5	1.0	ug/l	25.0	ND	102	65-125			
Trichloroethene	26.6	1.0	ug/l	25.0	2.3	97	70-125			
Vinyl chloride	23.2	0.50	ug/l	25.0	ND	93	40-135			
o-Xylene	25.0	1.0	ug/l	25.0	ND	100	65-125			
m,p-Xylenes	50.3	1.0	ug/l	50.0	ND	101	65-120			
Surrogate: Dibromofluoromethane	*28.1*		*ug/l*	*25.0*		*112*	*80-120*			
Surrogate: Toluene-d8	*26.6*		*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.6*		*ug/l*	*25.0*		*106*	*80-120*			
Matrix Spike Dup Analyzed: 03/20/03 (3C20013-MSD1)					**Source: IMC0435-01**					
Benzene	24.3	0.50	ug/l	25.0	ND	97	60-125	1	20	
Bromodichloromethane	26.0	1.0	ug/l	25.0	ND	104	70-140	4	20	
Bromoform	21.7	1.0	ug/l	25.0	ND	87	50-140	14	30	
Chlorobenzene	26.0	1.0	ug/l	25.0	ND	104	75-125	2	20	
Chloroform	24.6	1.0	ug/l	25.0	ND	98	70-130	2	20	
Dibromochloromethane	26.8	1.0	ug/l	25.0	ND	107	65-145	6	25	
1,4-Dichlorobenzene	24.8	1.0	ug/l	25.0	ND	99	70-120	0	20	
1,1-Dichloroethane	25.3	1.0	ug/l	25.0	0.68	98	65-135	2	20	
1,2-Dichloroethane	24.6	0.50	ug/l	25.0	ND	98	60-150	9	25	
1,1-Dichloroethene	23.0	1.0	ug/l	25.0	0.62	90	60-135	5	20	
Ethylbenzene	26.4	1.0	ug/l	25.0	ND	106	65-125	1	20	
Methyl-tert-butyl Ether (MTBE)	27.6	1.0	ug/l	25.0	ND	110	55-155	15	30	

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C20013 Extracted: 03/20/03										
Matrix Spike Dup Analyzed: 03/20/03 (3C20013-MSD1)					**Source: IMC0435-01**					
Naphthalene	24.4	1.0	ug/l	25.0	ND	98	50-145	18	30	
Tetrachloroethene	33.4	1.0	ug/l	25.0	9.0	98	70-130	3	20	
Toluene	25.2	1.0	ug/l	25.0	ND	101	65-125	1	20	
Trichloroethene	26.8	1.0	ug/l	25.0	2.3	98	70-125	1	20	
Vinyl chloride	23.3	0.50	ug/l	25.0	ND	93	40-135	0	20	
o-Xylene	25.6	1.0	ug/l	25.0	ND	102	65-125	2	20	
m,p-Xylenes	51.5	1.0	ug/l	50.0	ND	103	65-120	2	20	
Surrogate: Dibromofluoromethane	*27.1*		*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: Toluene-d8	*26.8*		*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			
Batch: 3C20028 Extracted: 03/20/03										
Blank Analyzed: 03/20/03 (3C20028-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-37240-GW.Aquifer Test
Report Number: IMC0806

Sampled: 03/14/03
Received: 03/14/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C20028 Extracted: 03/20/03										
Blank Analyzed: 03/20/03 (3C20028-BLK1)										
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							

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Report Number: IMC0806

Sampled: 03/14/03
Received: 03/14/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C20028 Extracted: 03/20/03										
Blank Analyzed: 03/20/03 (3C20028-BLK1)										
Vinyl chloride	ND	0.50	ug/l							
-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
LCS Analyzed: 03/20/03 (3C20028-BS1)										
Acetone	25.0	10	ug/l	25.0		100	30-145			
Benzene	27.0	0.50	ug/l	25.0		108	70-120			
Bromobenzene	25.7	1.0	ug/l	25.0		103	80-120			
Bromochloromethane	27.8	1.0	ug/l	25.0		111	65-135			
Bromodichloromethane	28.1	1.0	ug/l	25.0		112	70-140			
Bromoform	27.2	1.0	ug/l	25.0		109	55-135			
Bromomethane	26.1	1.0	ug/l	25.0		104	65-140			
n-Butylbenzene	29.0	1.0	ug/l	25.0		116	75-130			
sec-Butylbenzene	27.0	1.0	ug/l	25.0		108	75-125			
tert-Butylbenzene	26.4	1.0	ug/l	25.0		106	75-125			
Carbon tetrachloride	27.4	0.50	ug/l	25.0		110	65-155			
Chlorobenzene	27.4	1.0	ug/l	25.0		110	80-125			
Chloroethane	25.7	1.0	ug/l	25.0		103	60-145			
Chloroform	27.5	1.0	ug/l	25.0		110	70-130			
Chloromethane	22.7	1.0	ug/l	25.0		91	40-145			
2-Chlorotoluene	26.3	1.0	ug/l	25.0		105	75-125			
4-Chlorotoluene	27.4	1.0	ug/l	25.0		110	75-125			
Dibromochloromethane	27.6	1.0	ug/l	25.0		110	65-145			
1,2-Dibromo-3-chloropropane	26.3	5.0	ug/l	25.0		105	50-130			
1,2-Dibromoethane (EDB)	26.7	1.0	ug/l	25.0		107	75-125			
Dibromomethane	27.3	1.0	ug/l	25.0		109	70-130			
1,2-Dichlorobenzene	27.6	1.0	ug/l	25.0		110	80-120			
1,3-Dichlorobenzene	26.6	1.0	ug/l	25.0		106	75-120			
1,4-Dichlorobenzene	27.0	1.0	ug/l	25.0		108	75-120			
Dichlorodifluoromethane	20.8	5.0	ug/l	25.0		83	10-160			
1,1-Dichloroethane	27.1	1.0	ug/l	25.0		108	70-135			
1,2-Dichloroethane	26.0	0.50	ug/l	25.0		104	60-150			
1,1-Dichloroethene	30.1	1.0	ug/l	25.0		120	70-130			

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-37240-GW.Aquifer Test
Report Number: IMC0806

Sampled: 03/14/03
Received: 03/14/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C20028 Extracted: 03/20/03										
LCS Analyzed: 03/20/03 (3C20028-BS1)										
cis-1,2-Dichloroethene	28.3	1.0	ug/l	25.0		113	70-125			
trans-1,2-Dichloroethene	28.5	1.0	ug/l	25.0		114	70-130			
1,2-Dichloropropane	26.2	1.0	ug/l	25.0		105	65-120			
1,3-Dichloropropane	26.4	1.0	ug/l	25.0		106	70-130			
2,2-Dichloropropane	26.7	1.0	ug/l	25.0		107	70-150			
1,1-Dichloropropene	26.2	1.0	ug/l	25.0		105	75-130			
cis-1,3-Dichloropropene	26.6	0.50	ug/l	25.0		106	75-130			
trans-1,3-Dichloropropene	27.0	0.50	ug/l	25.0		108	70-135			
Ethylbenzene	27.1	1.0	ug/l	25.0		108	70-125			
Hexachlorobutadiene	25.3	1.0	ug/l	25.0		101	70-140			
Isopropylbenzene	26.5	1.0	ug/l	25.0		106	70-125			
p-Isopropyltoluene	26.5	1.0	ug/l	25.0		106	75-125			
Methylene chloride	29.7	5.0	ug/l	25.0		119	60-135			
Methyl-tert-butyl Ether (MTBE)	25.5	1.0	ug/l	25.0		102	55-145			
Naphthalene	26.8	1.0	ug/l	25.0		107	50-145			
n-Propylbenzene	27.8	1.0	ug/l	25.0		111	75-130			
Styrene	28.9	1.0	ug/l	25.0		116	80-135			
1,1,1,2-Tetrachloroethane	26.6	1.0	ug/l	25.0		106	70-145			
1,1,2,2-Tetrachloroethane	25.5	1.0	ug/l	25.0		102	60-135			
Tetrachloroethene	25.6	1.0	ug/l	25.0		102	80-125			
Toluene	27.1	1.0	ug/l	25.0		108	70-120			
1,1,1-Trichloroethane	27.6	1.0	ug/l	25.0		110	70-140			
1,1,2-Trichloroethane	26.2	1.0	ug/l	25.0		105	70-125			
Trichloroethene	26.6	1.0	ug/l	25.0		106	75-120			
Trichlorofluoromethane	27.0	1.0	ug/l	25.0		108	65-145			
1,2,3-Trichloropropane	24.8	1.0	ug/l	25.0		99	60-130			
1,2,4-Trimethylbenzene	26.4	1.0	ug/l	25.0		106	80-125			
1,3,5-Trimethylbenzene	26.4	1.0	ug/l	25.0		106	80-125			
Vinyl chloride	23.1	0.50	ug/l	25.0		92	50-130			
o-Xylene	27.4	1.0	ug/l	25.0		110	70-125			
m,p-Xylenes	55.0	1.0	ug/l	50.0		110	70-120			
Surrogate: Dibromofluoromethane	*26.9*		*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-37240-GW.Aquifer Test
Report Number: IMC0806

Sampled: 03/14/03
Received: 03/14/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C20028 Extracted: 03/20/03										
Matrix Spike Analyzed: 03/20/03 (3C20028-MS1)					**Source: IMC0854-01**					
Benzene	26.3	0.50	ug/l	25.0	ND	105	60-125			
Bromodichloromethane	27.2	1.0	ug/l	25.0	ND	109	70-140			
Bromoform	25.8	1.0	ug/l	25.0	ND	103	50-140			
Chlorobenzene	26.7	1.0	ug/l	25.0	ND	107	75-125			
Chloroform	26.7	1.0	ug/l	25.0	ND	107	70-130			
Dibromochloromethane	26.3	1.0	ug/l	25.0	ND	105	65-145			
1,4-Dichlorobenzene	26.5	1.0	ug/l	25.0	ND	106	70-120			
1,1-Dichloroethane	26.6	1.0	ug/l	25.0	ND	106	65-135			
1,2-Dichloroethane	25.4	0.50	ug/l	25.0	ND	102	60-150			
1,1-Dichloroethene	29.6	1.0	ug/l	25.0	ND	118	60-135			
Ethylbenzene	26.5	1.0	ug/l	25.0	ND	106	65-125			
Methyl-tert-butyl Ether (MTBE)	24.4	1.0	ug/l	25.0	ND	98	55-155			
Naphthalene	26.6	1.0	ug/l	25.0	ND	106	50-145			
Tetrachloroethene	24.8	1.0	ug/l	25.0	ND	99	70-130			
Toluene	26.6	1.0	ug/l	25.0	ND	106	65-125			
Trichloroethene	25.9	1.0	ug/l	25.0	ND	104	70-125			
Vinyl chloride	23.4	0.50	ug/l	25.0	ND	94	40-135			
o-Xylene	26.9	1.0	ug/l	25.0	ND	108	65-125			
m,p-Xylenes	53.7	1.0	ug/l	50.0	ND	107	65-120			
Surrogate: Dibromofluoromethane	*27.7*		*ug/l*	*25.0*		*111*	*80-120*			
Surrogate: Toluene-d8	*27.0*		*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.6*		*ug/l*	*25.0*		*106*	*80-120*			
Matrix Spike Dup Analyzed: 03/20/03 (3C20028-MSD1)					**Source: IMC0854-01**					
Benzene	26.8	0.50	ug/l	25.0	ND	107	60-125	2	20	
Bromodichloromethane	27.7	1.0	ug/l	25.0	ND	111	70-140	2	20	
Bromoform	27.4	1.0	ug/l	25.0	ND	110	50-140	6	30	
Chlorobenzene	27.0	1.0	ug/l	25.0	ND	108	75-125	1	20	
Chloroform	26.7	1.0	ug/l	25.0	ND	107	70-130	0	20	
Dibromochloromethane	27.4	1.0	ug/l	25.0	ND	110	65-145	4	25	
1,4-Dichlorobenzene	26.7	1.0	ug/l	25.0	ND	107	70-120	1	20	
1,1-Dichloroethane	26.9	1.0	ug/l	25.0	ND	108	65-135	1	20	
1,2-Dichloroethane	26.0	0.50	ug/l	25.0	ND	104	60-150	2	25	
1,1-Dichloroethene	29.8	1.0	ug/l	25.0	ND	119	60-135	1	20	
Ethylbenzene	26.5	1.0	ug/l	25.0	ND	106	65-125	0	20	
Methyl-tert-butyl Ether (MTBE)	26.2	1.0	ug/l	25.0	ND	105	55-155	7	30	

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10500-37240-GW.Aquifer Test
Report Number: IMC0806

Sampled: 03/14/03
Received: 03/14/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C20028 Extracted: 03/20/03										
Matrix Spike Dup Analyzed: 03/20/03 (3C20028-MSD1)					**Source: IMC0854-01**					
Naphthalene	28.4	1.0	ug/l	25.0	ND	114	50-145	7	30	
Tetrachloroethene	25.2	1.0	ug/l	25.0	ND	101	70-130	2	20	
Toluene	26.9	1.0	ug/l	25.0	ND	108	65-125	1	20	
Trichloroethene	26.0	1.0	ug/l	25.0	ND	104	70-125	0	20	
Vinyl chloride	23.5	0.50	ug/l	25.0	ND	94	40-135	0	20	
o-Xylene	26.9	1.0	ug/l	25.0	ND	108	65-125	0	20	
m,p-Xylenes	53.2	1.0	ug/l	50.0	ND	106	65-120	1	20	
Surrogate: Dibromofluoromethane	*27.6*		*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*27.2*		*ug/l*	*25.0*		*109*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.7*		*ug/l*	*25.0*		*107*	*80-120*			

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C20028 Extracted: 03/20/03										
Blank Analyzed: 03/20/03 (3C20028-BLK1)										
Tentatively Identified Compounds	ND	50	ug/l							

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Report Number: IMC0806

Sampled: 03/14/03
Received: 03/14/03

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C19084 Extracted: 03/19/03										
Blank Analyzed: 03/21/03 (3C19084-BLK1)										
1,4-Dioxane	ND	0.50	ug/l							
Surrogate: 1,4-Dioxane-d8	*1.12*		*ug/l*	*2.00*		*56*	*40-120*			
LCS Analyzed: 03/21/03 (3C19084-BS1)										
1,4-Dioxane	1.23	0.50	ug/l	2.00		62	40-140			
Surrogate: 1,4-Dioxane-d8	*1.09*		*ug/l*	*2.00*		*54*	*40-120*			
LCS Dup Analyzed: 03/21/03 (3C19084-BSD1)										
1,4-Dioxane	1.15	0.50	ug/l	2.00		58	40-140	7	30	
Surrogate: 1,4-Dioxane-d8	*1.16*		*ug/l*	*2.00*		*58*	*40-120*			

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Patty Mata
Project Manager

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Camp, Dresser & McKee	Project ID: Omega Chemical	
18581 Teller Avenue, #200	10500-37240-GW.Aquifer Test	Sampled: 03/14/03
Irvine, CA 92612	Report Number: IMC0806	Received: 03/14/03
Attention: Sharon Wallin		

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For TICs:

All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library.

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-37240-GW.Aquifer Test
Report Number: IMC0806

Sampled: 03/14/03
Received: 03/14/03

Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	NELAP	CA	AZ	NV
EPA 8260B	Water	X	X	X	
EPA 8270C	Water	X	X	X	

NV and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.dmalabs.com.

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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CHAIN OF CUSTODY FORM

Client Name/Address: CDM 18581 Teller Ave Suite 200

P.O. #: IMC0806

Project: ~~9497~~ 6500-37240-GW.

Project Manager/Phone Number: Sharon Wallin

Phone Number: Aquifer test 949-752-5452

Sampler: Robert

Fax Number: 949-752-1307

ANALYSIS REQUIRED

Sample Description	Sample Matrix	Container Type	# of Containers	Sampling Date/Time	Preservation	VOC EPA 8260	14 Dioxane 8270 mod EPA								Special Instructions
OC-GW-004A-031403	water	VOA	3	3-14-03 12:45	HCl	X									
↓	↓	glass amber	1	↓	None		X								

Relinquished By	Date/Time:	Received By	Date/Time:
[signature]	3-14-03 15:10		
Relinquished By	Date/Time:	Received By	Date/Time:
Relinquished By	Date/Time:	Received By [signature]	Date/Time: 3-14-03 15:10

Turnaround Time: (check)
Same Day _____ 72 Hours _____
24 Hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
Intact ✓ On Ice: ✓ 6°C

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LABORATORY REPORT

Prepared For: Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project: Omega Chemical
10500-Omega

Sampled: 03/11/03-03/13/03
Received: 03/13/03
Issued: 03/24/03

NELAP #01108CA CA ELAP#1197 AZ DHS #AZ0428 NV #CA-72

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
IMC0731-01	OC-GW-OW8-031103	Water
IMC0731-02	OC-GW-OW8(K)-031103	Water
IMC0731-03	OC-GW-OW3-031303	Water

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-Omega
Report Number: IMC0731

Sampled: 03/11/03-03/13/03
Received: 03/13/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0731-01 (OC-GW-OW8-031103 - Water)				**Sampled: 03/11/03**				
Reporting Units: ug/l								
Acetone	EPA 8260B	3C19021	1000	**6300**	100	3/19/2003	3/19/2003	
Benzene	EPA 8260B	3C19021	50	ND	100	3/19/2003	3/19/2003	
Bromobenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Bromochloromethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Bromodichloromethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Bromoform	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Bromomethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
n-Butylbenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
sec-Butylbenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
tert-Butylbenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Carbon tetrachloride	EPA 8260B	3C19021	50	ND	100	3/19/2003	3/19/2003	
Chlorobenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Chloroethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Chloroform	EPA 8260B	3C19021	100	**2000**	100	3/19/2003	3/19/2003	
Chloromethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
2-Chlorotoluene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
4-Chlorotoluene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Dibromochloromethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3C19021	500	ND	100	3/19/2003	3/19/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Dibromomethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,2-Dichlorobenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,3-Dichlorobenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,4-Dichlorobenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Dichlorodifluoromethane	EPA 8260B	3C19021	500	ND	100	3/19/2003	3/19/2003	
1,1-Dichloroethane	EPA 8260B	3C19021	100	**100**	100	3/19/2003	3/19/2003	
1,2-Dichloroethane	EPA 8260B	3C19021	50	**820**	100	3/19/2003	3/19/2003	
1,1-Dichloroethene	EPA 8260B	3C19021	100	**2600**	100	3/19/2003	3/19/2003	
cis-1,2-Dichloroethene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
trans-1,2-Dichloroethene	EPA 8260B	3C19021	100	**110**	100	3/19/2003	3/19/2003	
1,2-Dichloropropane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,3-Dichloropropane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
2,2-Dichloropropane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,1-Dichloropropene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
cis-1,3-Dichloropropene	EPA 8260B	3C19021	50	ND	100	3/19/2003	3/19/2003	
trans-1,3-Dichloropropene	EPA 8260B	3C19021	50	ND	100	3/19/2003	3/19/2003	
Ethylbenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Hexachlorobutadiene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Isopropylbenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
p-Isopropyltoluene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Methylene chloride	EPA 8260B	3C19021	500	**6500**	100	3/19/2003	3/19/2003	

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Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-Omega
Report Number: IMC0731

Sampled: 03/11/03-03/13/03
Received: 03/13/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0731-01 (OC-GW-OW8-031103 - Water)				**Sampled: 03/11/03**				
Reporting Units: ug/l								
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Naphthalene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
n-Propylbenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Styrene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Toluene	EPA 8260B	3C19021	100	**900**	100	3/19/2003	3/19/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,1,1-Trichloroethane	EPA 8260B	3C19021	100	**390**	100	3/19/2003	3/19/2003	
1,1,2-Trichloroethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Trichloroethene	EPA 8260B	3C19021	100	**2200**	100	3/19/2003	3/19/2003	
Trichlorofluoromethane	EPA 8260B	3C19021	100	**810**	100	3/19/2003	3/19/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3C19021	500	**2800**	100	3/19/2003	3/19/2003	
1,2,3-Trichloropropane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Vinyl chloride	EPA 8260B	3C19021	50	ND	100	3/19/2003	3/19/2003	
o-Xylene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
m,p-Xylenes	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Surrogate: Dibromofluoromethane (80-120%)				*105 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-Omega
Report Number: IMC0731

Sampled: 03/11/03-03/13/03
Received: 03/13/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0731-01RE1 (OC-GW-OW8-031103 - Water)				**Sampled: 03/11/03**				
Reporting Units: ug/l								
Tetrachloroethene	EPA 8260B	3C19012	400	**34000**	400	3/19/2003	3/20/2003	
Surrogate: Dibromofluoromethane (80-120%)				*107 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*98 %*				

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-Omega
Report Number: IMC0731

Sampled: 03/11/03-03/13/03
Received: 03/13/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0731-02 (OC-GW-OW8(K)-031103 - Water)				**Sampled: 03/11/03**				
Reporting Units: ug/l								
Acetone	EPA 8260B	3C19021	1000	**5800**	100	3/19/2003	3/19/2003	
Benzene	EPA 8260B	3C19021	50	ND	100	3/19/2003	3/19/2003	
Bromobenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Bromochloromethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Bromodichloromethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Bromoform	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Bromomethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
n-Butylbenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
sec-Butylbenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
tert-Butylbenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Carbon tetrachloride	EPA 8260B	3C19021	50	ND	100	3/19/2003	3/19/2003	
Chlorobenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Chloroethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Chloroform	EPA 8260B	3C19021	100	**2000**	100	3/19/2003	3/19/2003	
Chloromethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
2-Chlorotoluene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
4-Chlorotoluene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Dibromochloromethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3C19021	500	ND	100	3/19/2003	3/19/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Dibromomethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,2-Dichlorobenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,3-Dichlorobenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,4-Dichlorobenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Dichlorodifluoromethane	EPA 8260B	3C19021	500	ND	100	3/19/2003	3/19/2003	
1,1-Dichloroethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,2-Dichloroethane	EPA 8260B	3C19021	50	**790**	100	3/19/2003	3/19/2003	
1,1-Dichloroethene	EPA 8260B	3C19021	100	**2500**	100	3/19/2003	3/19/2003	
cis-1,2-Dichloroethene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
trans-1,2-Dichloroethene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,2-Dichloropropane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,3-Dichloropropane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
2,2-Dichloropropane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,1-Dichloropropene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
cis-1,3-Dichloropropene	EPA 8260B	3C19021	50	ND	100	3/19/2003	3/19/2003	
trans-1,3-Dichloropropene	EPA 8260B	3C19021	50	ND	100	3/19/2003	3/19/2003	
Ethylbenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Hexachlorobutadiene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Isopropylbenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
p-Isopropyltoluene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Methylene chloride	EPA 8260B	3C19021	500	**6300**	100	3/19/2003	3/19/2003	

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Project ID: Omega Chemical
10500-Omega
Report Number: IMC0731

Sampled: 03/11/03-03/13/03
Received: 03/13/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0731-02 (OC-GW-OW8(K)-031103 - Water)				**Sampled: 03/11/03**				
Reporting Units: ug/l								
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Naphthalene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
n-Propylbenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Styrene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Toluene	EPA 8260B	3C19021	100	**860**	100	3/19/2003	3/19/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,1,1-Trichloroethane	EPA 8260B	3C19021	100	**380**	100	3/19/2003	3/19/2003	
1,1,2-Trichloroethane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Trichloroethene	EPA 8260B	3C19021	100	**2100**	100	3/19/2003	3/19/2003	
Trichlorofluoromethane	EPA 8260B	3C19021	100	**820**	100	3/19/2003	3/19/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3C19021	500	**2600**	100	3/19/2003	3/19/2003	
1,2,3-Trichloropropane	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Vinyl chloride	EPA 8260B	3C19021	50	ND	100	3/19/2003	3/19/2003	
o-Xylene	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
m,p-Xylenes	EPA 8260B	3C19021	100	ND	100	3/19/2003	3/19/2003	
Surrogate: Dibromofluoromethane (80-120%)				*104 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				

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10500-Omega
Report Number: IMC0731

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Received: 03/13/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0731-02RE1 (OC-GW-OW8(K)-031103 - Water)				**Sampled: 03/11/03**				
Reporting Units: ug/l								
Tetrachloroethene	EPA 8260B	3C19012	400	**36000**	400	3/19/2003	3/20/2003	
Surrogate: Dibromofluoromethane (80-120%)				*106 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*98 %*				

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Received: 03/13/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0731-03 (OC-GW-OW3-031303 - Water)				**Sampled: 03/13/03**				
Reporting Units: ug/l								
1,1-Dichloroethene	EPA 8260B	3C19021	20	**1400**	20	3/19/2003	3/19/2003	
Tetrachloroethene	EPA 8260B	3C19021	20	**1800**	20	3/19/2003	3/19/2003	
Surrogate: Dibromofluoromethane (80-120%)				*106 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0731-03RE1 (OC-GW-OW3-031303 - Water)				**Sampled: 03/13/03**				
Reporting Units: ug/l								
Acetone	EPA 8260B	3C20016	40	ND	4	3/20/2003	3/21/2003	
Benzene	EPA 8260B	3C20016	2.0	ND	4	3/20/2003	3/21/2003	
Bromobenzene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
Bromochloromethane	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
Bromodichloromethane	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
Bromoform	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
Bromomethane	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
n-Butylbenzene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
sec-Butylbenzene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
tert-Butylbenzene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
Carbon tetrachloride	EPA 8260B	3C20016	2.0	ND	4	3/20/2003	3/21/2003	
Chlorobenzene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
Chloroethane	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
Chloroform	EPA 8260B	3C20016	4.0	**6.8**	4	3/20/2003	3/21/2003	
Chloromethane	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
2-Chlorotoluene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
4-Chlorotoluene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
Dibromochloromethane	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3C20016	20	ND	4	3/20/2003	3/21/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
Dibromomethane	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
1,2-Dichlorobenzene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
1,3-Dichlorobenzene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
1,4-Dichlorobenzene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
Dichlorodifluoromethane	EPA 8260B	3C20016	20	ND	4	3/20/2003	3/21/2003	
1,1-Dichloroethane	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
1,2-Dichloroethane	EPA 8260B	3C20016	2.0	ND	4	3/20/2003	3/21/2003	
cis-1,2-Dichloroethene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
trans-1,2-Dichloroethene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
1,2-Dichloropropane	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
1,3-Dichloropropane	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
2,2-Dichloropropane	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
1,1-Dichloropropene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
cis-1,3-Dichloropropene	EPA 8260B	3C20016	2.0	ND	4	3/20/2003	3/21/2003	
trans-1,3-Dichloropropene	EPA 8260B	3C20016	2.0	ND	4	3/20/2003	3/21/2003	
Ethylbenzene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
Hexachlorobutadiene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
Isopropylbenzene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
p-Isopropyltoluene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
Methylene chloride	EPA 8260B	3C20016	20	ND	4	3/20/2003	3/21/2003	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	

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Project ID: Omega Chemical
10500-Omega
Report Number: IMC0731

Sampled: 03/11/03-03/13/03
Received: 03/13/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0731-03RE1 (OC-GW-OW3-031303 - Water)				**Sampled: 03/13/03**				
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
n-Propylbenzene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
Styrene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
Toluene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
1,1,1-Trichloroethane	EPA 8260B	3C20016	4.0	**8.9**	4	3/20/2003	3/21/2003	
1,1,2-Trichloroethane	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
Trichloroethene	EPA 8260B	3C20016	4.0	**170**	4	3/20/2003	3/21/2003	
Trichlorofluoromethane	EPA 8260B	3C20016	4.0	**250**	4	3/20/2003	3/21/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3C20016	20	**430**	4	3/20/2003	3/21/2003	
1,2,3-Trichloropropane	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
Vinyl chloride	EPA 8260B	3C20016	2.0	ND	4	3/20/2003	3/21/2003	
o-Xylene	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
m,p-Xylenes	EPA 8260B	3C20016	4.0	ND	4	3/20/2003	3/21/2003	
Surrogate: Dibromofluoromethane (80-120%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*93 %*				

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PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0731-01 (OC-GW-OW8-031103 - Water)				**Sampled: 03/11/03**				
Reporting Units: ug/l								
Tentatively Identified Compounds	EPA 8260B	3C19021	5000	ND	100	3/19/2003	3/19/2003	
Sample ID: IMC0731-02 (OC-GW-OW8(K)-031103 - Water)				**Sampled: 03/11/03**				
Reporting Units: ug/l								
Tentatively Identified Compounds	EPA 8260B	3C19021	5000	ND	100	3/19/2003	3/19/2003	
Sample ID: IMC0731-03 (OC-GW-OW3-031303 - Water)				**Sampled: 03/13/03**				
Reporting Units: ug/l								
Tentatively Identified Compounds	EPA 8260B	3C20016	200	ND	4	3/20/2003	3/21/2003	

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Received: 03/13/03

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0731-01 (OC-GW-OW8-031103 - Water)				**Sampled: 03/11/03**				
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	3C13080	500	**2600** *	952	3/13/2003	3/18/2003	*Z3*
Surrogate: 1,4-Dioxane-d8 (40-120%)								
Sample ID: IMC0731-02 (OC-GW-OW8(K)-031103 - Water)				**Sampled: 03/11/03**				
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	3C13080	500	**2600** *	952	3/13/2003	3/18/2003	*Z3*
Surrogate: 1,4-Dioxane-d8 (40-120%)								
Sample ID: IMC0731-03 (OC-GW-OW3-031303 - Water)				**Sampled: 03/13/03**				
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	3C13080	0.50	**1.2**	0.952	3/13/2003	3/18/2003	
Surrogate: 1,4-Dioxane-d8 (40-120%)				*55 %*				

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C19012 Extracted: 03/19/03										
Blank Analyzed: 03/19/03 (3C19012-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-Omega
Report Number: IMC0731

Sampled: 03/11/03-03/13/03
Received: 03/13/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C19012 Extracted: 03/19/03										
Blank Analyzed: 03/19/03 (3C19012-BLK1)										
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*25.4*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C19012 Extracted: 03/19/03										
LCS Analyzed: 03/19/03 (3C19012-BS1)										
Acetone	23.7	10	ug/l	25.0		95	30-145			
Benzene	26.2	0.50	ug/l	25.0		105	70-120			
Bromobenzene	25.3	1.0	ug/l	25.0		101	80-120			
Bromochloromethane	27.1	1.0	ug/l	25.0		108	65-135			
Bromodichloromethane	27.0	1.0	ug/l	25.0		108	70-140			
Bromoform	27.4	1.0	ug/l	25.0		110	55-135			
Bromomethane	25.2	1.0	ug/l	25.0		101	65-140			
n-Butylbenzene	28.2	1.0	ug/l	25.0		113	75-130			
sec-Butylbenzene	26.6	1.0	ug/l	25.0		106	75-125			
tert-Butylbenzene	26.1	1.0	ug/l	25.0		104	75-125			
Carbon tetrachloride	26.4	0.50	ug/l	25.0		106	65-155			
Chlorobenzene	26.9	1.0	ug/l	25.0		108	80-125			
Chloroethane	25.0	1.0	ug/l	25.0		100	60-145			
Chloroform	26.0	1.0	ug/l	25.0		104	70-130			
Chloromethane	22.1	1.0	ug/l	25.0		88	40-145			
2-Chlorotoluene	25.7	1.0	ug/l	25.0		103	75-125			
4-Chlorotoluene	26.8	1.0	ug/l	25.0		107	75-125			
Dibromochloromethane	27.5	1.0	ug/l	25.0		110	65-145			
1,2-Dibromo-3-chloropropane	25.8	5.0	ug/l	25.0		103	50-130			
1,2-Dibromoethane (EDB)	26.7	1.0	ug/l	25.0		107	75-125			
Dibromomethane	26.7	1.0	ug/l	25.0		107	70-130			
1,2-Dichlorobenzene	27.0	1.0	ug/l	25.0		108	80-120			
1,3-Dichlorobenzene	26.2	1.0	ug/l	25.0		105	75-120			
1,4-Dichlorobenzene	26.5	1.0	ug/l	25.0		106	75-120			
Dichlorodifluoromethane	20.5	5.0	ug/l	25.0		82	10-160			
1,1-Dichloroethane	26.3	1.0	ug/l	25.0		105	70-135			
1,2-Dichloroethane	25.1	0.50	ug/l	25.0		100	60-150			
1,1-Dichloroethene	29.4	1.0	ug/l	25.0		118	70-130			
cis-1,2-Dichloroethene	27.2	1.0	ug/l	25.0		109	70-125			
trans-1,2-Dichloroethene	28.1	1.0	ug/l	25.0		112	70-130			
1,2-Dichloropropane	25.7	1.0	ug/l	25.0		103	65-120			
1,3-Dichloropropane	26.0	1.0	ug/l	25.0		104	70-130			
2,2-Dichloropropane	24.8	1.0	ug/l	25.0		99	70-150			
1,1-Dichloropropene	25.7	1.0	ug/l	25.0		103	75-130			
cis-1,3-Dichloropropene	26.0	0.50	ug/l	25.0		104	75-130			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C19012 Extracted: 03/19/03										
LCS Analyzed: 03/19/03 (3C19012-BS1)										
trans-1,3-Dichloropropene	26.5	0.50	ug/l	25.0		106	70-135			
Ethylbenzene	26.8	1.0	ug/l	25.0		107	70-125			
Hexachlorobutadiene	24.1	1.0	ug/l	25.0		96	70-140			
Isopropylbenzene	26.1	1.0	ug/l	25.0		104	70-125			
p-Isopropyltoluene	25.9	1.0	ug/l	25.0		104	75-125			
Methylene chloride	28.6	5.0	ug/l	25.0		114	60-135			
Methyl-tert-butyl Ether (MTBE)	25.9	1.0	ug/l	25.0		104	55-145			
Naphthalene	27.6	1.0	ug/l	25.0		110	50-145			
n-Propylbenzene	27.2	1.0	ug/l	25.0		109	75-130			
Styrene	28.4	1.0	ug/l	25.0		114	80-135			
1,1,1,2-Tetrachloroethane	25.9	1.0	ug/l	25.0		104	70-145			
1,1,2,2-Tetrachloroethane	25.5	1.0	ug/l	25.0		102	60-135			
Tetrachloroethene	25.7	1.0	ug/l	25.0		103	80-125			
Toluene	26.3	1.0	ug/l	25.0		105	70-120			
1,2,3-Trichlorobenzene	27.5	1.0	ug/l	25.0		110	65-135			
1,2,4-Trichlorobenzene	27.8	1.0	ug/l	25.0		111	70-140			
1,1,1-Trichloroethane	26.4	1.0	ug/l	25.0		106	70-140			
1,1,2-Trichloroethane	26.0	1.0	ug/l	25.0		104	70-125			
Trichloroethene	25.9	1.0	ug/l	25.0		104	75-120			
Trichlorofluoromethane	25.2	1.0	ug/l	25.0		101	65-145			
1,2,3-Trichloropropane	25.0	1.0	ug/l	25.0		100	60-130			
1,2,4-Trimethylbenzene	25.9	1.0	ug/l	25.0		104	80-125			
1,3,5-Trimethylbenzene	26.1	1.0	ug/l	25.0		104	80-125			
Vinyl chloride	22.5	0.50	ug/l	25.0		90	50-130			
o-Xylene	27.1	1.0	ug/l	25.0		108	70-125			
m,p-Xylenes	53.9	1.0	ug/l	50.0		108	70-120			
Surrogate: Dibromofluoromethane	*26.1*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500-Omega
Report Number: IMC0731

Sampled: 03/11/03-03/13/03
Received: 03/13/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C19012 Extracted: 03/19/03										
Matrix Spike Analyzed: 03/19/03 (3C19012-MS1)					**Source: IMC0786-01**					
Benzene	26.6	0.50	ug/l	25.0	ND	106	60-125			
Bromodichloromethane	27.2	1.0	ug/l	25.0	ND	109	70-140			
Bromoform	26.8	1.0	ug/l	25.0	ND	107	50-140			
Chlorobenzene	27.1	1.0	ug/l	25.0	ND	108	75-125			
Chloroform	26.4	1.0	ug/l	25.0	ND	106	70-130			
Dibromochloromethane	27.2	1.0	ug/l	25.0	ND	109	65-145			
1,4-Dichlorobenzene	27.0	1.0	ug/l	25.0	ND	108	70-120			
1,1-Dichloroethane	26.5	1.0	ug/l	25.0	ND	106	65-135			
1,2-Dichloroethane	25.4	0.50	ug/l	25.0	ND	102	60-150			
1,1-Dichloroethene	29.7	1.0	ug/l	25.0	ND	119	60-135			
Ethylbenzene	27.0	1.0	ug/l	25.0	ND	108	65-125			
Methyl-tert-butyl Ether (MTBE)	25.5	1.0	ug/l	25.0	0.88	98	55-155			
Naphthalene	27.2	1.0	ug/l	25.0	ND	109	50-145			
Tetrachloroethene	25.3	1.0	ug/l	25.0	ND	101	70-130			
Toluene	26.8	1.0	ug/l	25.0	ND	107	65-125			
Trichloroethene	26.1	1.0	ug/l	25.0	ND	104	70-125			
Vinyl chloride	23.4	0.50	ug/l	25.0	ND	94	40-135			
o-Xylene	27.1	1.0	ug/l	25.0	ND	108	65-125			
m,p-Xylenes	54.2	1.0	ug/l	50.0	ND	108	65-120			
Surrogate: Dibromofluoromethane	*26.3*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Matrix Spike Dup Analyzed: 03/19/03 (3C19012-MSD1)					**Source: IMC0786-01**					
Benzene	26.1	0.50	ug/l	25.0	ND	104	60-125	2	20	
Bromodichloromethane	26.2	1.0	ug/l	25.0	ND	105	70-140	4	20	
Bromoform	25.1	1.0	ug/l	25.0	ND	100	50-140	7	30	
Chlorobenzene	26.7	1.0	ug/l	25.0	ND	107	75-125	1	20	
Chloroform	25.4	1.0	ug/l	25.0	ND	102	70-130	4	20	
Dibromochloromethane	26.2	1.0	ug/l	25.0	ND	105	65-145	4	25	
1,4-Dichlorobenzene	26.3	1.0	ug/l	25.0	ND	105	70-120	3	20	
1,1-Dichloroethane	25.7	1.0	ug/l	25.0	ND	103	65-135	3	20	
1,2-Dichloroethane	24.0	0.50	ug/l	25.0	ND	96	60-150	6	25	
1,1-Dichloroethene	28.2	1.0	ug/l	25.0	ND	113	60-135	5	20	
Ethylbenzene	26.2	1.0	ug/l	25.0	ND	105	65-125	3	20	
Methyl-tert-butyl Ether (MTBE)	24.0	1.0	ug/l	25.0	0.88	92	55-155	6	30	

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C19012 Extracted: 03/19/03										
Matrix Spike Dup Analyzed: 03/19/03 (3C19012-MSD1)					**Source: IMC0786-01**					
Naphthalene	25.4	1.0	ug/l	25.0	ND	102	50-145	7	30	
Tetrachloroethene	24.9	1.0	ug/l	25.0	ND	100	70-130	2	20	
Toluene	26.0	1.0	ug/l	25.0	ND	104	65-125	3	20	
Trichloroethene	25.5	1.0	ug/l	25.0	ND	102	70-125	2	20	
Vinyl chloride	22.9	0.50	ug/l	25.0	ND	92	40-135	2	20	
o-Xylene	26.4	1.0	ug/l	25.0	ND	106	65-125	3	20	
m,p-Xylenes	52.1	1.0	ug/l	50.0	ND	104	65-120	4	20	
Surrogate: Dibromofluoromethane	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Batch: 3C19021 Extracted: 03/19/03										
Blank Analyzed: 03/19/03 (3C19021-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C19021 Extracted: 03/19/03										
Blank Analyzed: 03/19/03 (3C19021-BLK1)										
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							

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Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-Omega
Report Number: IMC0731

Sampled: 03/11/03-03/13/03
Received: 03/13/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C19021 Extracted: 03/19/03										
Blank Analyzed: 03/19/03 (3C19021-BLK1)										
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*25.4*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-120*			
LCS Analyzed: 03/19/03 (3C19021-BS1)										
Acetone	18.4	10	ug/l	25.0		74	30-145			
Benzene	21.2	0.50	ug/l	25.0		85	70-120			
Bromobenzene	26.5	1.0	ug/l	25.0		106	80-120			
Bromochloromethane	21.8	1.0	ug/l	25.0		87	65-135			
Bromodichloromethane	26.2	1.0	ug/l	25.0		105	70-140			
Bromoform	28.1	1.0	ug/l	25.0		112	55-135			
Bromomethane	16.6	1.0	ug/l	25.0		66	65-140			
n-Butylbenzene	31.4	1.0	ug/l	25.0		126	75-130			
sec-Butylbenzene	28.8	1.0	ug/l	25.0		115	75-125			
tert-Butylbenzene	28.5	1.0	ug/l	25.0		114	75-125			
Carbon tetrachloride	21.2	0.50	ug/l	25.0		85	65-155			
Chlorobenzene	27.4	1.0	ug/l	25.0		110	80-125			
Chloroethane	16.9	1.0	ug/l	25.0		68	60-145			
Chloroform	22.8	1.0	ug/l	25.0		91	70-130			
Chloromethane	13.5	1.0	ug/l	25.0		54	40-145			
2-Chlorotoluene	27.4	1.0	ug/l	25.0		110	75-125			
4-Chlorotoluene	28.6	1.0	ug/l	25.0		114	75-125			
Dibromochloromethane	27.9	1.0	ug/l	25.0		112	65-145			
1,2-Dibromo-3-chloropropane	26.4	5.0	ug/l	25.0		106	50-130			
1,2-Dibromoethane (EDB)	25.2	1.0	ug/l	25.0		101	75-125			
Dibromomethane	23.8	1.0	ug/l	25.0		95	70-130			
1,2-Dichlorobenzene	29.4	1.0	ug/l	25.0		118	80-120			
1,3-Dichlorobenzene	28.6	1.0	ug/l	25.0		114	75-120			
1,4-Dichlorobenzene	28.8	1.0	ug/l	25.0		115	75-120			
Dichlorodifluoromethane	11.0	5.0	ug/l	25.0		44	10-160			
1,1-Dichloroethane	20.4	1.0	ug/l	25.0		82	70-135			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C19021 Extracted: 03/19/03										
LCS Analyzed: 03/19/03 (3C19021-BS1)										
1,2-Dichloroethane	21.4	0.50	ug/l	25.0		86	60-150			
1,1-Dichloroethene	20.4	1.0	ug/l	25.0		82	70-130			
cis-1,2-Dichloroethene	22.1	1.0	ug/l	25.0		88	70-125			
trans-1,2-Dichloroethene	20.7	1.0	ug/l	25.0		83	70-130			
1,2-Dichloropropane	23.1	1.0	ug/l	25.0		92	65-120			
1,3-Dichloropropane	25.2	1.0	ug/l	25.0		101	70-130			
2,2-Dichloropropane	19.6	1.0	ug/l	25.0		78	70-150			
1,1-Dichloropropene	20.1	1.0	ug/l	25.0		80	75-130			
cis-1,3-Dichloropropene	25.0	0.50	ug/l	25.0		100	75-130			
trans-1,3-Dichloropropene	26.0	0.50	ug/l	25.0		104	70-135			
Ethylbenzene	27.1	1.0	ug/l	25.0		108	70-125			
Hexachlorobutadiene	28.6	1.0	ug/l	25.0		114	70-140			
Isopropylbenzene	27.1	1.0	ug/l	25.0		108	70-125			
p-Isopropyltoluene	28.2	1.0	ug/l	25.0		113	75-125			
Methylene chloride	22.2	5.0	ug/l	25.0		89	60-135			
Methyl-tert-butyl Ether (MTBE)	18.6	1.0	ug/l	25.0		74	55-145			
Naphthalene	28.5	1.0	ug/l	25.0		114	50-145			
n-Propylbenzene	28.9	1.0	ug/l	25.0		116	75-130			
Styrene	29.7	1.0	ug/l	25.0		119	80-135			
1,1,2,2-Tetrachloroethane	27.7	1.0	ug/l	25.0		111	70-145			
1,1,2,2-Tetrachloroethane	25.8	1.0	ug/l	25.0		103	60-135			
Tetrachloroethene	23.4	1.0	ug/l	25.0		94	80-125			
Toluene	24.4	1.0	ug/l	25.0		98	70-120			
1,2,3-Trichlorobenzene	30.4	1.0	ug/l	25.0		122	65-135			
1,2,4-Trichlorobenzene	31.2	1.0	ug/l	25.0		125	70-140			
1,1,1-Trichloroethane	21.3	1.0	ug/l	25.0		85	70-140			
1,1,2-Trichloroethane	25.8	1.0	ug/l	25.0		103	70-125			
Trichloroethene	22.0	1.0	ug/l	25.0		88	75-120			
Trichlorofluoromethane	16.8	1.0	ug/l	25.0		67	65-145			
1,2,3-Trichloropropane	25.1	1.0	ug/l	25.0		100	60-130			
1,2,4-Trimethylbenzene	28.1	1.0	ug/l	25.0		112	80-125			
1,3,5-Trimethylbenzene	27.6	1.0	ug/l	25.0		110	80-125			
Vinyl chloride	14.7	0.50	ug/l	25.0		59	50-130			
o-Xylene	27.8	1.0	ug/l	25.0		111	70-125			
m,p-Xylenes	54.9	1.0	ug/l	50.0		110	70-120			

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500-Omega
Report Number: IMC0731

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Received: 03/13/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C19021 Extracted: 03/19/03										
LCS Analyzed: 03/19/03 (3C19021-BS1)										
Surrogate: Dibromofluoromethane	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Matrix Spike Analyzed: 03/19/03 (3C19021-MS1)					**Source: IMC0839-01**					
Benzene	24.3	0.50	ug/l	25.0	ND	97	60-125			
Bromodichloromethane	30.9	1.0	ug/l	25.0	ND	124	70-140			
Bromoform	33.2	1.0	ug/l	25.0	ND	133	50-140			
Chlorobenzene	30.8	1.0	ug/l	25.0	ND	123	75-125			
Chloroform	26.6	1.0	ug/l	25.0	ND	106	70-130			
Dibromochloromethane	32.4	1.0	ug/l	25.0	ND	130	65-145			
1,4-Dichlorobenzene	32.4	1.0	ug/l	25.0	ND	130	70-120			*M1*
1,1-Dichloroethane	23.6	1.0	ug/l	25.0	ND	94	65-135			
1,2-Dichloroethane	25.5	0.50	ug/l	25.0	ND	102	60-150			
1,1-Dichloroethene	23.8	1.0	ug/l	25.0	ND	95	60-135			
Ethylbenzene	30.1	1.0	ug/l	25.0	ND	120	65-125			
Methyl-tert-butyl Ether (MTBE)	23.5	1.0	ug/l	25.0	ND	94	55-155			
Naphthalene	35.1	1.0	ug/l	25.0	ND	140	50-145			
Tetrachloroethene	25.8	1.0	ug/l	25.0	ND	103	70-130			
Toluene	27.8	1.0	ug/l	25.0	ND	111	65-125			
Trichloroethene	25.5	1.0	ug/l	25.0	ND	102	70-125			
Vinyl chloride	17.2	0.50	ug/l	25.0	ND	69	40-135			
o-Xylene	31.0	1.0	ug/l	25.0	ND	124	65-125			
m,p-Xylenes	60.7	1.0	ug/l	50.0	ND	121	65-120			*M1*
Surrogate: Dibromofluoromethane	*26.5*		*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C19021 Extracted: 03/19/03										
Matrix Spike Dup Analyzed: 03/19/03 (3C19021-MSD1)					**Source: IMC0839-01**					
Benzene	24.4	0.50	ug/l	25.0	ND	98	60-125	0	20	
Bromodichloromethane	30.8	1.0	ug/l	25.0	ND	123	70-140	0	20	
Bromoform	34.6	1.0	ug/l	25.0	ND	138	50-140	4	30	
Chlorobenzene	30.8	1.0	ug/l	25.0	ND	123	75-125	0	20	
Chloroform	26.7	1.0	ug/l	25.0	ND	107	70-130	0	20	
Dibromochloromethane	33.3	1.0	ug/l	25.0	ND	133	65-145	3	25	
1,4-Dichlorobenzene	32.6	1.0	ug/l	25.0	ND	130	70-120	1	20	*M1*
1,1-Dichloroethane	23.7	1.0	ug/l	25.0	ND	95	65-135	0	20	
1,2-Dichloroethane	25.9	0.50	ug/l	25.0	ND	104	60-150	2	25	
1,1-Dichloroethene	24.0	1.0	ug/l	25.0	ND	96	60-135	1	20	
Ethylbenzene	29.9	1.0	ug/l	25.0	ND	120	65-125	1	20	
Methyl-tert-butyl Ether (MTBE)	24.6	1.0	ug/l	25.0	ND	98	55-155	5	30	
Naphthalene	36.8	1.0	ug/l	25.0	ND	147	50-145	5	30	*M1*
Tetrachloroethene	25.9	1.0	ug/l	25.0	ND	104	70-130	0	20	
Toluene	27.8	1.0	ug/l	25.0	ND	111	65-125	0	20	
Trichloroethene	25.6	1.0	ug/l	25.0	ND	102	70-125	0	20	
Vinyl chloride	16.9	0.50	ug/l	25.0	ND	68	40-135	2	20	
o-Xylene	30.7	1.0	ug/l	25.0	ND	123	65-125	1	20	
m,p-Xylenes	60.1	1.0	ug/l	50.0	ND	120	65-120	1	20	
Surrogate: Dibromofluoromethane	*26.6*		*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.4*		*ug/l*	*25.0*		*102*	*80-120*			
Batch: 3C20016 Extracted: 03/20/03										
Blank Analyzed: 03/20/03 (3C20016-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C20016 Extracted: 03/20/03										
Blank Analyzed: 03/20/03 (3C20016-BLK1)										
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C20016 Extracted: 03/20/03										
Blank Analyzed: 03/20/03 (3C20016-BLK1)										
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*24.7*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.5*		*ug/l*	*25.0*		*94*	*80-120*			
LCS Analyzed: 03/20/03 (3C20016-BS1)										
Acetone	17.1	10	ug/l	25.0		68	30-145			
Benzene	24.6	0.50	ug/l	25.0		98	70-120			
Bromobenzene	23.9	1.0	ug/l	25.0		96	80-120			
Bromochloromethane	24.4	1.0	ug/l	25.0		98	65-135			
Bromodichloromethane	24.0	1.0	ug/l	25.0		96	70-140			
Bromoform	19.5	1.0	ug/l	25.0		78	55-135			
Bromomethane	23.9	1.0	ug/l	25.0		96	65-140			
n-Butylbenzene	24.6	1.0	ug/l	25.0		98	75-130			
sec-Butylbenzene	24.6	1.0	ug/l	25.0		98	75-125			
tert-Butylbenzene	24.9	1.0	ug/l	25.0		100	75-125			
Carbon tetrachloride	23.9	0.50	ug/l	25.0		96	65-155			
Chlorobenzene	24.9	1.0	ug/l	25.0		100	80-125			
Chloroethane	23.2	1.0	ug/l	25.0		93	60-145			
Chloroform	24.3	1.0	ug/l	25.0		97	70-130			

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Patty Mata
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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-Omega
Report Number: IMC0731

Sampled: 03/11/03-03/13/03
Received: 03/13/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C20016 Extracted: 03/20/03										
LCS Analyzed: 03/20/03 (3C20016-BS1)										
Chloromethane	22.7	1.0	ug/l	25.0		91	40-145			
2-Chlorotoluene	24.5	1.0	ug/l	25.0		98	75-125			
4-Chlorotoluene	24.9	1.0	ug/l	25.0		100	75-125			
Dibromochloromethane	21.3	1.0	ug/l	25.0		85	65-145			
1,2-Dibromo-3-chloropropane	21.1	5.0	ug/l	25.0		84	50-130			
1,2-Dibromoethane (EDB)	23.0	1.0	ug/l	25.0		92	75-125			
Dibromomethane	23.7	1.0	ug/l	25.0		95	70-130			
1,2-Dichlorobenzene	25.2	1.0	ug/l	25.0		101	80-120			
1,3-Dichlorobenzene	24.8	1.0	ug/l	25.0		99	75-120			
1,4-Dichlorobenzene	25.3	1.0	ug/l	25.0		101	75-120			
Dichlorodifluoromethane	18.5	5.0	ug/l	25.0		74	10-160			
1,1-Dichloroethane	24.4	1.0	ug/l	25.0		98	70-135			
1,2-Dichloroethane	23.0	0.50	ug/l	25.0		92	60-150			
1,1-Dichloroethene	27.6	1.0	ug/l	25.0		110	70-130			
cis-1,2-Dichloroethene	24.4	1.0	ug/l	25.0		98	70-125			
trans-1,2-Dichloroethene	25.7	1.0	ug/l	25.0		103	70-130			
1,2-Dichloropropane	23.3	1.0	ug/l	25.0		93	65-120			
1,3-Dichloropropane	23.8	1.0	ug/l	25.0		95	70-130			
2,2-Dichloropropane	24.3	1.0	ug/l	25.0		97	70-150			
1,1-Dichloropropene	24.1	1.0	ug/l	25.0		96	75-130			
cis-1,3-Dichloropropene	23.3	0.50	ug/l	25.0		93	75-130			
trans-1,3-Dichloropropene	23.0	0.50	ug/l	25.0		92	70-135			
Ethylbenzene	24.3	1.0	ug/l	25.0		97	70-125			
Hexachlorobutadiene	22.6	1.0	ug/l	25.0		90	70-140			
Isopropylbenzene	24.9	1.0	ug/l	25.0		100	70-125			
p-Isopropyltoluene	23.7	1.0	ug/l	25.0		95	75-125			
Methylene chloride	23.3	5.0	ug/l	25.0		93	60-135			
Methyl-tert-butyl Ether (MTBE)	24.1	1.0	ug/l	25.0		96	55-145			
Naphthalene	24.0	1.0	ug/l	25.0		96	50-145			
n-Propylbenzene	25.1	1.0	ug/l	25.0		100	75-130			
Styrene	25.6	1.0	ug/l	25.0		102	80-135			
1,1,1,2-Tetrachloroethane	23.3	1.0	ug/l	25.0		93	70-145			
1,1,2,2-Tetrachloroethane	22.8	1.0	ug/l	25.0		91	60-135			
Tetrachloroethene	23.8	1.0	ug/l	25.0		95	80-125			
Toluene	24.4	1.0	ug/l	25.0		98	70-120			

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Attention: Sharon Wallin

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10500-Omega
Report Number: IMC0731

Sampled: 03/11/03-03/13/03
Received: 03/13/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C20016 Extracted: 03/20/03										
LCS Analyzed: 03/20/03 (3C20016-BS1)										
1,2,3-Trichlorobenzene	24.2	1.0	ug/l	25.0		97	65-135			
1,2,4-Trichlorobenzene	25.4	1.0	ug/l	25.0		102	70-140			
1,1,1-Trichloroethane	24.1	1.0	ug/l	25.0		96	70-140			
1,1,2-Trichloroethane	22.7	1.0	ug/l	25.0		91	70-125			
Trichloroethene	24.3	1.0	ug/l	25.0		97	75-120			
Trichlorofluoromethane	22.4	1.0	ug/l	25.0		90	65-145			
1,2,3-Trichloropropane	22.4	1.0	ug/l	25.0		90	60-130			
1,2,4-Trimethylbenzene	24.5	1.0	ug/l	25.0		98	80-125			
1,3,5-Trimethylbenzene	25.0	1.0	ug/l	25.0		100	80-125			
Vinyl chloride	27.1	0.50	ug/l	25.0		108	50-130			
o-Xylene	24.8	1.0	ug/l	25.0		99	70-125			
m,p-Xylenes	49.8	1.0	ug/l	50.0		100	70-120			
Surrogate: Dibromofluoromethane	*24.5*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.5*		*ug/l*	*25.0*		*98*	*80-120*			
Matrix Spike Analyzed: 03/20/03 (3C20016-MS1)					**Source: IMC0797-01**					
Benzene	24.9	0.50	ug/l	25.0	ND	100	60-125			
Bromodichloromethane	24.2	1.0	ug/l	25.0	ND	97	70-140			
Bromoform	18.2	1.0	ug/l	25.0	ND	73	50-140			
Chlorobenzene	25.3	1.0	ug/l	25.0	ND	101	75-125			
Chloroform	24.7	1.0	ug/l	25.0	ND	99	70-130			
Dibromochloromethane	20.4	1.0	ug/l	25.0	ND	82	65-145			
1,4-Dichlorobenzene	25.3	1.0	ug/l	25.0	ND	101	70-120			
1,1-Dichloroethane	24.8	1.0	ug/l	25.0	ND	99	65-135			
1,2-Dichloroethane	22.6	0.50	ug/l	25.0	ND	90	60-150			
1,1-Dichloroethene	21.3	1.0	ug/l	25.0	ND	85	60-135			
Ethylbenzene	23.1	1.0	ug/l	25.0	ND	92	65-125			
Methyl-tert-butyl Ether (MTBE)	23.5	1.0	ug/l	25.0	ND	94	55-155			
Naphthalene	16.2	1.0	ug/l	25.0	ND	65	50-145			
Tetrachloroethene	24.0	1.0	ug/l	25.0	ND	96	70-130			
Toluene	23.9	1.0	ug/l	25.0	ND	96	65-125			
Trichloroethene	24.4	1.0	ug/l	25.0	ND	98	70-125			
Vinyl chloride	26.4	0.50	ug/l	25.0	ND	106	40-135			
o-Xylene	22.2	1.0	ug/l	25.0	ND	89	65-125			
m,p-Xylenes	40.1	1.0	ug/l	50.0	ND	80	65-120			

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10500-Omega
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Received: 03/13/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C20016 Extracted: 03/20/03										
Matrix Spike Analyzed: 03/20/03 (3C20016-MS1)					**Source: IMC0797-01**					
Surrogate: Dibromofluoromethane	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*24.8*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
Matrix Spike Dup Analyzed: 03/20/03 (3C20016-MSD1)					**Source: IMC0797-01**					
Benzene	24.6	0.50	ug/l	25.0	ND	98	60-125	1	20	
Bromodichloromethane	23.6	1.0	ug/l	25.0	ND	94	70-140	3	20	
Bromoform	18.1	1.0	ug/l	25.0	ND	72	50-140	1	30	
Chlorobenzene	24.9	1.0	ug/l	25.0	ND	100	75-125	2	20	
Chloroform	23.8	1.0	ug/l	25.0	ND	95	70-130	4	20	
Dibromochloromethane	20.6	1.0	ug/l	25.0	ND	82	65-145	1	25	
1,4-Dichlorobenzene	25.3	1.0	ug/l	25.0	ND	101	70-120	0	20	
1,1-Dichloroethane	24.4	1.0	ug/l	25.0	ND	98	65-135	2	20	
1,2-Dichloroethane	22.3	0.50	ug/l	25.0	ND	89	60-150	1	25	
1,1-Dichloroethene	24.9	1.0	ug/l	25.0	ND	100	60-135	16	20	
Ethylbenzene	24.2	1.0	ug/l	25.0	ND	97	65-125	5	20	
Methyl-tert-butyl Ether (MTBE)	23.0	1.0	ug/l	25.0	ND	92	55-155	2	30	
Naphthalene	20.0	1.0	ug/l	25.0	ND	80	50-145	21	30	
Tetrachloroethene	24.0	1.0	ug/l	25.0	ND	96	70-130	0	20	
Toluene	24.2	1.0	ug/l	25.0	ND	97	65-125	1	20	
Trichloroethene	24.2	1.0	ug/l	25.0	ND	97	70-125	1	20	
Vinyl chloride	23.8	0.50	ug/l	25.0	ND	95	40-135	10	20	
o-Xylene	24.1	1.0	ug/l	25.0	ND	96	65-125	8	20	
m,p-Xylenes	47.6	1.0	ug/l	50.0	ND	95	65-120	17	20	
Surrogate: Dibromofluoromethane	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*24.8*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500-Omega
Report Number: IMC0731

Sampled: 03/11/03-03/13/03
Received: 03/13/03

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C19021 Extracted: 03/19/03										
Blank Analyzed: 03/19/03 (3C19021-BLK1)										
Tentatively Identified Compounds	ND	50	ug/l							
Batch: 3C20016 Extracted: 03/20/03										
Blank Analyzed: 03/20/03 (3C20016-BLK1)										
Tentatively Identified Compounds	ND	50	ug/l							
2-Chloro-1,1,1-trifluoroethane	ND	25	ug/l							
Chlorotrifluoroethene	ND	25	ug/l							

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Received: 03/13/03

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C13080 Extracted: 03/13/03										
Blank Analyzed: 03/18/03 (3C13080-BLK1)										
1,4-Dioxane	ND	0.50	ug/l							
Surrogate: 1,4-Dioxane-d8	*1.21*		*ug/l*	*2.00*		*60*	*40-120*			
LCS Analyzed: 03/18/03 (3C13080-BS1)										
1,4-Dioxane	1.26	0.50	ug/l	2.00		63	40-140			
Surrogate: 1,4-Dioxane-d8	*1.15*		*ug/l*	*2.00*		*58*	*40-120*			
LCS Dup Analyzed: 03/18/03 (3C13080-BSD1)										
1,4-Dioxane	1.27	0.50	ug/l	2.00		64	40-140	1	30	
Surrogate: 1,4-Dioxane-d8	*1.12*		*ug/l*	*2.00*		*56*	*40-120*			

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Camp, Dresser & McKee	Project ID: Omega Chemical	
18581 Teller Avenue, #200	10500-Omega	Sampled: 03/11/03-03/13/03
Irvine, CA 92612	Report Number: IMC0731	Received: 03/13/03
Attention: Sharon Wallin		

DATA QUALIFIERS AND DEFINITIONS

M1 The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

Z3 The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For TICs:

All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library.

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Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	NELAP	CA	AZ	NV
EPA 8260B	Water	X	X	X	
EPA 8270C	Water	X	X	X	

NV and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.dmalabs.com.

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CHAIN OF CUSTODY FORM

IMC0731

Client Name/Address: CDM 18581 Teller Ave Suite 200 Irvine Ca

Project/PO Number: Omega Chemical

Project Manager: Sharon Wallin

Phone Number: 949-752-5452

Sampler: Rob Lopez

Fax Number:

Analysis Required: VOC * EPA 8260; 1,4 Dioxane; * Acetone plus Freon 12, Freon 11, Freon 113, MTBE & TIC

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOC * EPA 8260	1,4 Dioxane								Special Instructions
OC-GW-OW8-031103	water	VOA	3	3.11.03	14:25	HCl	X									
↓		glass amber	1		↓	None		X								
OC-GW-OW8(K)-031103		VOA	3		14:28	HCl	X									
↓		glass amber	1		↓	None		X								
OC-GW-OW3-031303		VOA	3	3.13.03	12:55	HCl	X									
↓	↓	glass amber	1	↓	↓	None		X								

Relinquished By:	Date/Time:	Received by:	Date/Time:	Turnaround Time: (Check)
[signature]	3/13/03 14:10	Rick Sheridan	3-13-03 1410	same day ____ 72 hours ____
Rick Sheridan	3-13-03 1700	Received by:	Date/Time:	24 hours ____ 5 days ____
				48 hours ____ normal X
Relinquished By:	Date/Time:	Received in Lab by:	Date/Time:	Sample Integrity: (Check)
		Mike Corley	3/13/03 1700	intact X on ice 2°C

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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LABORATORY REPORT

Prepared For: Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project: Omega Chemical
10500-Omega

Sampled: 03/10/03
Received: 03/11/03
Issued: 03/20/03

NELAP #01108CA CA ELAP#1197 AZ DHS #AZ0428 NV #CA-72

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IMC0522-01	OC-GW-OW2-031003	Water

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-Omega
Report Number: IMC0522

Sampled: 03/10/03
Received: 03/11/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0522-01 (OC-GW-OW2-031003 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	3C17023	20	ND	2	3/17/2003	3/17/2003	
Benzene	EPA 8260B	3C17023	1.0	ND	2	3/17/2003	3/17/2003	
Bromobenzene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
Bromochloromethane	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
Bromodichloromethane	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
Bromoform	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
Bromomethane	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
n-Butylbenzene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
sec-Butylbenzene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
tert-Butylbenzene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
Carbon tetrachloride	EPA 8260B	3C17023	1.0	ND	2	3/17/2003	3/17/2003	
Chlorobenzene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
Chloroethane	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
Chloroform	EPA 8260B	3C17023	2.0	**2.5**	2	3/17/2003	3/17/2003	
Chloromethane	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
2-Chlorotoluene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
4-Chlorotoluene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
Dibromochloromethane	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3C17023	10	ND	2	3/17/2003	3/17/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
Dibromomethane	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
1,2-Dichlorobenzene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
1,3-Dichlorobenzene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
1,4-Dichlorobenzene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
Dichlorodifluoromethane	EPA 8260B	3C17023	10	ND	2	3/17/2003	3/17/2003	
1,1-Dichloroethane	EPA 8260B	3C17023	2.0	**2.1**	2	3/17/2003	3/17/2003	
1,2-Dichloroethane	EPA 8260B	3C17023	1.0	ND	2	3/17/2003	3/17/2003	
cis-1,2-Dichloroethene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
trans-1,2-Dichloroethene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
1,2-Dichloropropane	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
1,3-Dichloropropane	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
2,2-Dichloropropane	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
1,1-Dichloropropene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
cis-1,3-Dichloropropene	EPA 8260B	3C17023	1.0	ND	2	3/17/2003	3/17/2003	
trans-1,3-Dichloropropene	EPA 8260B	3C17023	1.0	ND	2	3/17/2003	3/17/2003	
Ethylbenzene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
Hexachlorobutadiene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
Isopropylbenzene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
p-Isopropyltoluene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
Methylene chloride	EPA 8260B	3C17023	10	ND	2	3/17/2003	3/17/2003	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	

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Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-Omega
Report Number: IMC0522

Sampled: 03/10/03
Received: 03/11/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0522-01 (OC-GW-OW2-031003 - Water)								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
n-Propylbenzene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
Styrene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
Toluene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
1,1,1-Trichloroethane	EPA 8260B	3C17023	2.0	**3.7**	2	3/17/2003	3/17/2003	
1,1,2-Trichloroethane	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
Trichloroethene	EPA 8260B	3C17023	2.0	**160**	2	3/17/2003	3/17/2003	
Trichlorofluoromethane	EPA 8260B	3C17023	2.0	**240**	2	3/17/2003	3/17/2003	
1,2,3-Trichloropropane	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
Vinyl chloride	EPA 8260B	3C17023	1.0	ND	2	3/17/2003	3/17/2003	
o-Xylene	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
m,p-Xylenes	EPA 8260B	3C17023	2.0	ND	2	3/17/2003	3/17/2003	
Surrogate: Dibromofluoromethane (80-120%)				*97 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				

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Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-Omega
Report Number: IMC0522

Sampled: 03/10/03
Received: 03/11/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0522-01RE1 (OC-GW-OW2-031003 - Water)								
Reporting Units: ug/l								
1,1-Dichloroethene	EPA 8260B	3C17023	10	**680**	10	3/17/2003	3/17/2003	
Tetrachloroethene	EPA 8260B	3C17023	10	**1400**	10	3/17/2003	3/17/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3C17023	50	**660**	10	3/17/2003	3/17/2003	
Surrogate: Dibromofluoromethane (80-120%)				*98 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				

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Project ID: Omega Chemical
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Report Number: IMC0522

Sampled: 03/10/03
Received: 03/11/03

PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0522-01 (OC-GW-OW2-031003 - Water)								
Reporting Units: ug/l								
Tentatively Identified Compounds	EPA 8260B	3C17023	100	ND	2	3/17/2003	3/17/2003	

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Project ID: Omega Chemical
10500-Omega
Report Number: IMC0522

Sampled: 03/10/03
Received: 03/11/03

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMC0522-01 (OC-GW-OW2-031003 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	3C12066	0.50	ND	0.948	3/12/2003	3/14/2003	
Surrogate: 1,4-Dioxane-d8 (40-120%)				*60 %*				

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500-Omega
Report Number: IMC0522

Sampled: 03/10/03
Received: 03/11/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C17023 Extracted: 03/17/03										
Blank Analyzed: 03/17/03 (3C17023-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500-Omega
Report Number: IMC0522

Sampled: 03/10/03
Received: 03/11/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C17023 Extracted: 03/17/03										
Blank Analyzed: 03/17/03 (3C17023-BLK1)										
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*23.0*		*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Toluene-d8	*24.8*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.8*		*ug/l*	*25.0*		*95*	*80-120*			

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-Omega
Report Number: IMC0522

Sampled: 03/10/03
Received: 03/11/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C17023 Extracted: 03/17/03										
LCS Analyzed: 03/17/03 (3C17023-BS1)										
Acetone	26.0	10	ug/l	25.0		104	30-145			
Benzene	25.1	0.50	ug/l	25.0		100	70-120			
Bromobenzene	27.8	1.0	ug/l	25.0		111	80-120			
Bromochloromethane	28.5	1.0	ug/l	25.0		114	65-135			
Bromodichloromethane	27.6	1.0	ug/l	25.0		110	70-140			
Bromoform	28.8	1.0	ug/l	25.0		115	55-135			
Bromomethane	24.3	1.0	ug/l	25.0		97	65-140			
n-Butylbenzene	25.0	1.0	ug/l	25.0		100	75-130			
sec-Butylbenzene	26.0	1.0	ug/l	25.0		104	75-125			
tert-Butylbenzene	27.0	1.0	ug/l	25.0		108	75-125			
Carbon tetrachloride	27.3	0.50	ug/l	25.0		109	65-155			
Chlorobenzene	27.8	1.0	ug/l	25.0		111	80-125			
Chloroethane	21.8	1.0	ug/l	25.0		87	60-145			
Chloroform	25.2	1.0	ug/l	25.0		101	70-130			
Chloromethane	18.8	1.0	ug/l	25.0		75	40-145			
2-Chlorotoluene	25.6	1.0	ug/l	25.0		102	75-125			
4-Chlorotoluene	26.2	1.0	ug/l	25.0		105	75-125			
Dibromochloromethane	30.2	1.0	ug/l	25.0		121	65-145			
1,2-Dibromo-3-chloropropane	30.2	5.0	ug/l	25.0		121	50-130			
1,2-Dibromoethane (EDB)	30.3	1.0	ug/l	25.0		121	75-125			
Dibromomethane	29.7	1.0	ug/l	25.0		119	70-130			
1,2-Dichlorobenzene	28.5	1.0	ug/l	25.0		114	80-120			
1,3-Dichlorobenzene	27.8	1.0	ug/l	25.0		111	75-120			
1,4-Dichlorobenzene	28.3	1.0	ug/l	25.0		113	75-120			
Dichlorodifluoromethane	14.6	5.0	ug/l	25.0		58	10-160			
1,1-Dichloroethane	24.4	1.0	ug/l	25.0		98	70-135			
1,2-Dichloroethane	27.4	0.50	ug/l	25.0		110	60-150			
1,1-Dichloroethene	26.8	1.0	ug/l	25.0		107	70-130			
cis-1,2-Dichloroethene	25.5	1.0	ug/l	25.0		102	70-125			
trans-1,2-Dichloroethene	26.2	1.0	ug/l	25.0		105	70-130			
1,2-Dichloropropane	25.3	1.0	ug/l	25.0		101	65-120			
1,3-Dichloropropane	27.4	1.0	ug/l	25.0		110	70-130			
2,2-Dichloropropane	24.1	1.0	ug/l	25.0		96	70-150			
1,1-Dichloropropene	25.7	1.0	ug/l	25.0		103	75-130			
cis-1,3-Dichloropropene	25.7	0.50	ug/l	25.0		103	75-130			

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500-Omega
Report Number: IMC0522

Sampled: 03/10/03
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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C17023 Extracted: 03/17/03										
LCS Analyzed: 03/17/03 (3C17023-BS1)										
trans-1,3-Dichloropropene	27.2	0.50	ug/l	25.0		109	70-135			
Ethylbenzene	26.8	1.0	ug/l	25.0		107	70-125			
Hexachlorobutadiene	26.2	1.0	ug/l	25.0		105	70-140			
Isopropylbenzene	26.0	1.0	ug/l	25.0		104	70-125			
p-Isopropyltoluene	25.4	1.0	ug/l	25.0		102	75-125			
Methylene chloride	26.5	5.0	ug/l	25.0		106	60-135			
Methyl-tert-butyl Ether (MTBE)	31.0	1.0	ug/l	25.0		124	55-145			
Naphthalene	32.6	1.0	ug/l	25.0		130	50-145			
n-Propylbenzene	25.9	1.0	ug/l	25.0		104	75-130			
Styrene	27.8	1.0	ug/l	25.0		111	80-135			
1,1,1,2-Tetrachloroethane	27.4	1.0	ug/l	25.0		110	70-145			
1,1,2,2-Tetrachloroethane	29.9	1.0	ug/l	25.0		120	60-135			
Tetrachloroethene	27.8	1.0	ug/l	25.0		111	80-125			
Toluene	26.5	1.0	ug/l	25.0		106	70-120			
1,2,3-Trichlorobenzene	29.8	1.0	ug/l	25.0		119	65-135			
1,2,4-Trichlorobenzene	29.3	1.0	ug/l	25.0		117	70-140			
1,1,1-Trichloroethane	25.7	1.0	ug/l	25.0		103	70-140			
1,1,2-Trichloroethane	28.8	1.0	ug/l	25.0		115	70-125			
Trichloroethene	27.7	1.0	ug/l	25.0		111	75-120			
Trichlorofluoromethane	26.8	1.0	ug/l	25.0		107	65-145			
1,2,3-Trichloropropane	29.7	1.0	ug/l	25.0		119	60-130			
1,2,4-Trimethylbenzene	25.3	1.0	ug/l	25.0		101	80-125			
1,3,5-Trimethylbenzene	25.5	1.0	ug/l	25.0		102	80-125			
Vinyl chloride	20.4	0.50	ug/l	25.0		82	50-130			
o-Xylene	27.4	1.0	ug/l	25.0		110	70-125			
m,p-Xylenes	53.8	1.0	ug/l	50.0		108	70-120			
Surrogate: Dibromofluoromethane	*23.9*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500-Omega
Report Number: IMC0522

Sampled: 03/10/03
Received: 03/11/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C17023 Extracted: 03/17/03										
Matrix Spike Analyzed: 03/17/03 (3C17023-MS1)					**Source: IMC0470-04**					
Benzene	22.0	0.50	ug/l	25.0	0.44	86	60-125			
Bromodichloromethane	23.7	1.0	ug/l	25.0	ND	95	70-140			
Bromoform	23.2	1.0	ug/l	25.0	ND	93	50-140			
Chlorobenzene	23.9	1.0	ug/l	25.0	ND	96	75-125			
Chloroform	21.4	1.0	ug/l	25.0	ND	86	70-130			
Dibromochloromethane	25.1	1.0	ug/l	25.0	ND	100	65-145			
1,4-Dichlorobenzene	24.8	1.0	ug/l	25.0	ND	99	70-120			
1,1-Dichloroethane	20.6	1.0	ug/l	25.0	ND	82	65-135			
1,2-Dichloroethane	23.0	0.50	ug/l	25.0	ND	92	60-150			
1,1-Dichloroethene	22.4	1.0	ug/l	25.0	ND	90	60-135			
Ethylbenzene	23.6	1.0	ug/l	25.0	ND	94	65-125			
Methyl-tert-butyl Ether (MTBE)	25.0	1.0	ug/l	25.0	ND	100	55-155			
Naphthalene	25.9	1.0	ug/l	25.0	ND	104	50-145			
Tetrachloroethene	24.5	1.0	ug/l	25.0	ND	98	70-130			
Toluene	23.0	1.0	ug/l	25.0	ND	92	65-125			
Trichloroethene	23.9	1.0	ug/l	25.0	ND	96	70-125			
Vinyl chloride	18.6	0.50	ug/l	25.0	ND	74	40-135			
o-Xylene	24.1	1.0	ug/l	25.0	ND	96	65-125			
m,p-Xylenes	47.0	1.0	ug/l	50.0	ND	94	65-120			
Surrogate: Dibromofluoromethane	*23.8*		*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Toluene-d8	*25.1*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Matrix Spike Dup Analyzed: 03/17/03 (3C17023-MSD1)					**Source: IMC0470-04**					
Benzene	22.4	0.50	ug/l	25.0	0.44	88	60-125	2	20	
Bromodichloromethane	24.3	1.0	ug/l	25.0	ND	97	70-140	2	20	
Bromoform	25.9	1.0	ug/l	25.0	ND	104	50-140	11	30	
Chlorobenzene	24.7	1.0	ug/l	25.0	ND	99	75-125	3	20	
Chloroform	22.2	1.0	ug/l	25.0	ND	89	70-130	4	20	
Dibromochloromethane	26.6	1.0	ug/l	25.0	ND	106	65-145	6	25	
1,4-Dichlorobenzene	25.5	1.0	ug/l	25.0	ND	102	70-120	3	20	
1,1-Dichloroethane	21.3	1.0	ug/l	25.0	ND	85	65-135	3	20	
1,2-Dichloroethane	24.0	0.50	ug/l	25.0	ND	96	60-150	4	25	
1,1-Dichloroethene	23.4	1.0	ug/l	25.0	ND	94	60-135	4	20	
Ethylbenzene	24.1	1.0	ug/l	25.0	ND	96	65-125	2	20	
Methyl-tert-butyl Ether (MTBE)	27.7	1.0	ug/l	25.0	ND	111	55-155	10	30	

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Report Number: IMC0522

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C17023 Extracted: 03/17/03										
Matrix Spike Dup Analyzed: 03/17/03 (3C17023-MSD1)					**Source: IMC0470-04**					
Naphthalene	29.3	1.0	ug/l	25.0	ND	117	50-145	12	30	
Tetrachloroethene	25.1	1.0	ug/l	25.0	ND	100	70-130	2	20	
Toluene	23.6	1.0	ug/l	25.0	ND	94	65-125	3	20	
Trichloroethene	24.4	1.0	ug/l	25.0	ND	98	70-125	2	20	
Vinyl chloride	18.0	0.50	ug/l	25.0	ND	72	40-135	3	20	
o-Xylene	24.6	1.0	ug/l	25.0	ND	98	65-125	2	20	
m,p-Xylenes	48.2	1.0	ug/l	50.0	ND	96	65-120	3	20	
Surrogate: Dibromofluoromethane	*24.2*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.1*		*ug/l*	*25.0*		*100*	*80-120*			

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C17023 Extracted: 03/17/03										
Blank Analyzed: 03/17/03 (3C17023-BLK1)										
Tentatively Identified Compounds	ND	50	ug/l							

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Received: 03/11/03

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C12066 Extracted: 03/12/03										
Blank Analyzed: 03/14/03 (3C12066-BLK1)										
1,4-Dioxane	ND	0.50	ug/l							
Surrogate: 1,4-Dioxane-d8	*1.16*		*ug/l*	*2.00*		*58*	*40-120*			
LCS Analyzed: 03/14/03 (3C12066-BS1)										
1,4-Dioxane	1.20	0.50	ug/l	2.00		60	40-140			
Surrogate: 1,4-Dioxane-d8	*1.07*		*ug/l*	*2.00*		*54*	*40-120*			
LCS Dup Analyzed: 03/14/03 (3C12066-BSD1)										
1,4-Dioxane	1.12	0.50	ug/l	2.00		56	40-140	7	30	
Surrogate: 1,4-Dioxane-d8	*1.05*		*ug/l*	*2.00*		*52*	*40-120*			

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Camp, Dresser & McKee	Project ID: Omega Chemical	
18581 Teller Avenue, #200	10500-Omega	Sampled: 03/10/03
Irvine, CA 92612	Report Number: IMC0522	Received: 03/11/03
Attention: Sharon Wallin		

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For TICs:

All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library.

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Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	NELAP	CA	AZ	NV
EPA 8260B	Water	X	X	X	
EPA 8270C	Water	X	X	X	

NV and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.dmalabs.com.

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IMC0522

CHAIN OF CUSTODY FORM

Client Name/Address: CDM 18881 Teller Ave Suite 200 Irvine Ca 92612

Project/PO Number: Omega Chemical

Project Manager: Sharon Wallin

Phone Number: 949-752-5452

Sampler: Rob Lopez

Fax Number: 949-752-1307

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	EPA 8260 VOC	1,4 Dioxane Mod EPA 8270								Special Instructions
																Note 8260 includes acetone Freon 11 Freon 12 MTBE & "TIC"
OC-GW-OW2-031003	GW	VOA	3	3-10-03	15:30	HCl	X									IMC0522
↓		amber glass	1	↓	↓	None		X								
TB		VOA	2			HCL										HOLD

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)
[signature]	3-10-03 8:45	[signature]	3-11-03 8:45	same day ____ 72 hours ____
Relinquished By: [signature]	Date/Time: 3-11-03 855	Received by:	Date/Time:	24 hours ____ 5 days ____ 48 hours ____ normal X
Relinquished By:	Date/Time:	Received in Lab by: [signature]	Date/Time: 3-11-03 8:55	Sample Integrity: (Check) intact ✓ on ice ✓ 5°C

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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QA/QC PACKAGE: LEVEL IV
PREPARED FOR CAMP DRESSER & MCKEE
LABORATORY NUMBER: ILH1043
PROJECT: OMEGA CHEMICAL / 10500-30697

SAMPLED: 08/21/02 – 08/22/02

Del Mar Analytical

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LABORATORY REPORT

Prepared For: Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project: Omega Chemical
10500-30697

Sampled: 08/21/02-08/22/02
Received: 08/22/02
Issued: 09/19/02

CA ELAP Certificate #1197

AZ DHS License #AZ0428

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CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 4°C, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Weck Laboratories performed the EPA 8270M 1,4-Dioxane analysis. ELAP # 1132.

LABORATORY ID	CLIENT ID	MATRIX
ILH1043-01	OC-GW-OW8-082202	Water
ILH1043-02	OC-GW-OW8K-082202	Water
ILH1043-03	OC-GW-OW5-082202	Water
ILH1043-04	OC-GW-OW4b-082102	Water
ILH1043-05	TB2	Water

Del Mar Analytical, Irvine
Patty Mata
Project Manager

Del Mar Analytical

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September 19, 2002

Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612

Attention: Sharon Wallin

Project: Omega Chemical, 10500-30697, Sampled 08/21-08/22/02
Del Mar Analytical project ILH1043

Dear Ms. Wallin:

Weck Laboratories performed the 1,4 Dioxane analysis by EPA Method 8270C for the project. Please use the following table when reviewing the enclosed subcontract lab reports.

Client ID	Del Mar – Irvine ID	Weck ID
OC-GW-OW8-082202	ILH1043-01	2090615-01
OC-GW-OW8K-082202	ILH1043-02	2090615-02
OC-GW-OW4b-082102	ILH1043-04	2090615-03

If you have any questions or require further assistance, please contact me at (949) 261-1022, extension 213.

Sincerely yours,

DEL MAR ANALYTICAL

Patty Mata
Project Manager

Enclosure

QA/QC Data Package

EPA Method 8270M – 1,4-Dioxane

Lab ID numbers: 2090615-01

1. Case Narrative

The sample was received in good condition and the analyses were completed within holding time. All QA/QC determinations were within acceptance ranges. The following acronyms are used in this data package:

PSM: Poor spectral match
BRL: Below Reporting Limit
OCR: Over Calibration Range
(-): Background subtracted mass spectrum (for Quantitation Reports generated by the Chemstation software)

2. QC Summaries

2.1 Matrix Spike, Matrix Spike Duplicate, LCS and Method Blank Summaries: See Quality Control Report page 2.
2.2 GC/MS Tune summaries: See Appendix 1, daily QC Check List for the batch.
2.3 Summary of retention times and areas: See Appendix 2
2.4 Comparison of CCV with ICAL: see "Evaluate Continuing Calibration Report" in Appendix 1.
2.5 Injection log with dates and times to evaluate tune and CCV every 12 hours: See Injection Log in Appendix 1

3. Sample Data

3.1 Analytical results summary: see Certificate of Analysis.
3.2 Chromatograms and quantitation reports for samples: See Appendix 3.
3.3 Chain of custody record: A copy is included with the Certificate of Analysis.
3.4 Copies of bench sheets for extraction, analysis and secondary review checklist: Appendix 3.
3.5 Mass spectra for detection (raw spectra and background subtracted): See Appendix 3.
3.6 Analytical injection log: See Appendix 1.

4. Standards Data

4.1 Initial Calibration summary and chromatograms, including RSDs, quant reports and chromatograms for initial calibration standards and ICAL verification (second source): See Appendix 4 for Initial Calibration package.

4.2 Continuing calibration summary and chromatograms: See Appendix 1, Daily QA/QC batch for quant reports, chromatograms and summary showing percent differences from ICAL.

5. Raw Data

5.1 Chromatograms and quantitation for samples: See Appendix 3.

5.2 Bench sheets for extraction and analysis: See Appendix 3.

5.3 Tune reports for batch: See Appendix 1.

5.4 Quant reports and chromatograms for blanks, MS, MSD and LCS: See Appendix 1, Daily QA/QC data package

5.5 Secondary data review: See Appendix 1.

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QA/QC PACKAGE: LEVEL IV
PREPARED FOR CAMP DRESSER & MCKEE
LABORATORY NUMBER: ILH1043
PROJECT: OMEGA CHEMICAL / 10500-30697

CHAIN OF CUSTODY FORM

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CHAIN OF CUSTODY FORM

Page 1 of 1

Client Name/Address: CDM

Project/PO Number: Omega

Project Manager: Sharon Wallin

Sampler: Will Grove

Phone Number:

Fax Number:

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	8260B *	1,4-Dioxane	Level III data							Special Instructions
OC-GW-OW8-022202	W	VOA 1LAmber	4	22 Aug 2002	0740	HCL/None	3	1	X							* multiple dilutions. Lowest possible Detection Limits Acetone; From 112 & 113
OC-GW-OW8K-022202	↓	"	4	↓	0650	"	3	1								
OC-GW-OW5-022202		VOA	3	↓	0845	HCL	3									
OC-GW-OW4b-022102		VOA 1LA	4	21 Aug 2002	1525	HCl/None	3	1								
TB2	↓	VOA	2	21 Aug	—		2									

Relinquished By:	Date /Time:	Received by:	Date /Time:
Relinquished By:	Date /Time:	Received by:	Date /Time:
Relinquished By: Will Grove	Date /Time: 22 Aug 2002 1405	Received in Lab by:	Date /Time: 8-22-02 1405

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
intact X on ice 4°C

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

SUBCONTRACT ORDER

Del Mar Analytical, Irvine

Project ID # ILH1043

A205255 (001-003)
20906151(01-03)

SENDING LABORATORY:

Del Mar Analytical, Irvine
2852 Alton Parkway
Irvine, CA 92606
Phone: (949) 261-1022
Fax: (949) 261-1228
Project Manager: Patty Mata

RECEIVING LABORATORY:

Weck Laboratories-SUB
14859 E. Clark Avenue
City of Industry, CA 91745
Phone :(626) 336-2139
Fax: (626) 336-2634

Standard TAT is requested unless specific due date is requested => Due Date:_____ Initials:_____

Analysis	Expiration	Comments
Sample ID: ILH1043-01 Water Sampled: 08/22/02 07:40		
Dioxane, 8270 - out	08/29/02 07:40	Sub 1,4-Dioxane: Weck labs, std TAT,
Containers Supplied:		
1 L Amber (ILH1043-01D)		
Sample ID: ILH1043-02 Water Sampled: 08/22/02 06:50		
Dioxane, 8270 - out	08/29/02 06:50	Sub 1,4-Dioxane: Weck labs, std TAT,
Containers Supplied:		
1 L Amber (ILH1043-02D)		
Sample ID: ILH1043-04 Water Sampled: 08/22/02 15:25		
Dioxane, 8270 - out	08/29/02 15:25	Sub 1,4-Dioxane: Weck labs, std TAT,
Containers Supplied:		
1 L Amber (ILH1043-04D)		

Release Notes:

Samples Received at (temp):	2°C	
All containers intact:	☑ Yes	☐ No
Sample labels/COC agree:	☑ Yes	☐ No
Samples Preserved Properly:	☐ Yes N/A	☑ No
Custody Seals Present:	☐ Yes	☑ No

Released By	Date	Time	Received By	Date	Time
[signature]	8/23/02	8:30	Mike Corley	8/23/02	8:30
Mike Corley	8/23/02	9:45	[signature]	8/23/02	9:45

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QA/QC PACKAGE: LEVEL IV
PREPARED FOR CAMP DRESSER & MCKEE
LABORATORY NUMBER: ILH1043
PROJECT: OMEGA CHEMICAL / 10500-30697

ANALYTICAL REPORT

Del Mar Analytical

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Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH1043-01RE1 (OC-GW-OW8-082202 - Water)				**Sampled: 08/22/02**				
Acetone	EPA 8260B	I2H2801	200	ND	20	8/28/2002	8/28/2002	
Benzene	EPA 8260B	I2H2801	10	ND	20	8/28/2002	8/28/2002	
Bromobenzene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Bromochloromethane	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Bromodichloromethane	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Bromoform	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Bromomethane	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
n-Butylbenzene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
sec-Butylbenzene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
tert-Butylbenzene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Carbon tetrachloride	EPA 8260B	I2H2801	10	ND	20	8/28/2002	8/28/2002	
Chlorobenzene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Chloroethane	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Chloroform	EPA 8260B	I2H2801	20	**350**	20	8/28/2002	8/28/2002	
Chloromethane	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
2-Chlorotoluene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
4-Chlorotoluene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Dibromochloromethane	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
1,2-Dibromo-3-chloropropane	EPA 8260B	I2H2801	100	ND	20	8/28/2002	8/28/2002	
1,2-Dibromoethane (EDB)	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Dibromomethane	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
1,2-Dichlorobenzene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
1,3-Dichlorobenzene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
1,4-Dichlorobenzene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Dichlorodifluoromethane	EPA 8260B	I2H2801	100	ND	20	8/28/2002	8/28/2002	
1,1-Dichloroethane	EPA 8260B	I2H2801	20	**46**	20	8/28/2002	8/28/2002	
1,2-Dichloroethane	EPA 8260B	I2H2801	10	**49**	20	8/28/2002	8/28/2002	
1,1-Dichloroethene	EPA 8260B	I2H2801	20	**1700**	20	8/28/2002	8/28/2002	
cis-1,2-Dichloroethene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
trans-1,2-Dichloroethene	EPA 8260B	I2H2801	20	**81**	20	8/28/2002	8/28/2002	
1,2-Dichloropropane	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
1,3-Dichloropropane	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
2,2-Dichloropropane	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
1,1-Dichloropropene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
cis-1,3-Dichloropropene	EPA 8260B	I2H2801	10	ND	20	8/28/2002	8/28/2002	
trans-1,3-Dichloropropene	EPA 8260B	I2H2801	10	ND	20	8/28/2002	8/28/2002	
Ethylbenzene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Hexachlorobutadiene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Isopropylbenzene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
p-Isopropyltoluene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Methylene chloride	EPA 8260B	I2H2801	100	ND	20	8/28/2002	8/28/2002	

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH1043-01RE1 (OC-GW-OW8-082202 - Water)				**Sampled: 08/22/02**				
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Naphthalene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
n-Propylbenzene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Styrene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
1,1,1,2-Tetrachloroethane	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
1,1,2,2-Tetrachloroethane	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Toluene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
1,2,3-Trichlorobenzene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
1,2,4-Trichlorobenzene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
1,1,1-Trichloroethane	EPA 8260B	I2H2801	20	**49**	20	8/28/2002	8/28/2002	
1,1,2-Trichloroethane	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Trichloroethene	EPA 8260B	I2H2801	20	**910**	20	8/28/2002	8/28/2002	
Trichlorofluoromethane	EPA 8260B	I2H2801	20	**1000**	20	8/28/2002	8/28/2002	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	I2H2801	100	**2100**	20	8/28/2002	8/28/2002	
1,2,3-Trichloropropane	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
1,2,4-Trimethylbenzene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
1,3,5-Trimethylbenzene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Vinyl chloride	EPA 8260B	I2H2801	10	ND	20	8/28/2002	8/28/2002	
o-Xylene	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
m,p-Xylenes	EPA 8260B	I2H2801	20	ND	20	8/28/2002	8/28/2002	
Surrogate: Dibromofluoromethane (80-120%)				*86 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*102 %*				

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH1043-01 (OC-GW-OW8-082202 - Water)				**Sampled: 08/22/02**				
Tetrachloroethene	EPA 8260B	I2H2707	100	**9400**	100	8/27/2002	8/28/2002	
Surrogate: Dibromofluoromethane (80-120%)				*119 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*102 %*				

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH1043-02 (OC-GW-OW8K-082202 - Water)				**Sampled: 08/22/02**				
Acetone	EPA 8260B	I2H2707	10	**89**	1	8/27/2002	8/28/2002	
Benzene	EPA 8260B	I2H2707	0.50	**5.3**	1	8/27/2002	8/28/2002	
Bromobenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
Bromochloromethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
Bromodichloromethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
Bromoform	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
Bromomethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
n-Butylbenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
sec-Butylbenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
tert-Butylbenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
Carbon tetrachloride	EPA 8260B	I2H2707	0.50	ND	1	8/27/2002	8/28/2002	
Chlorobenzene	EPA 8260B	I2H2707	1.0	**1.1**	1	8/27/2002	8/28/2002	
Chloroethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
Chloromethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
2-Chlorotoluene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
4-Chlorotoluene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
Dibromochloromethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
1,2-Dibromo-3-chloropropane	EPA 8260B	I2H2707	5.0	ND	1	8/27/2002	8/28/2002	
1,2-Dibromoethane (EDB)	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
Dibromomethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
1,2-Dichlorobenzene	EPA 8260B	I2H2707	1.0	**1.2**	1	8/27/2002	8/28/2002	
1,3-Dichlorobenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
1,4-Dichlorobenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
Dichlorodifluoromethane	EPA 8260B	I2H2707	5.0	ND	1	8/27/2002	8/28/2002	
1,1-Dichloroethane	EPA 8260B	I2H2707	1.0	**45**	1	8/27/2002	8/28/2002	
1,2-Dichloroethane	EPA 8260B	I2H2707	0.50	**86**	1	8/27/2002	8/28/2002	
cis-1,2-Dichloroethene	EPA 8260B	I2H2707	1.0	**9.7**	1	8/27/2002	8/28/2002	
trans-1,2-Dichloroethene	EPA 8260B	I2H2707	1.0	**66**	1	8/27/2002	8/28/2002	
1,2-Dichloropropane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
1,3-Dichloropropane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
2,2-Dichloropropane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
1,1-Dichloropropene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
cis-1,3-Dichloropropene	EPA 8260B	I2H2707	0.50	ND	1	8/27/2002	8/28/2002	
trans-1,3-Dichloropropene	EPA 8260B	I2H2707	0.50	ND	1	8/27/2002	8/28/2002	
Ethylbenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
Hexachlorobutadiene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
Isopropylbenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
p-Isopropyltoluene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
Methylene chloride	EPA 8260B	I2H2707	5.0	**140**	1	8/27/2002	8/28/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
Naphthalene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	

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Camp, Dresser & McKee
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Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH1043-02 (OC-GW-OW8K-082202 - Water)				**Sampled: 08/22/02**				
n-Propylbenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
Styrene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
1,1,1,2-Tetrachloroethane	EPA 8260B	I2H2707	1.0	**1.9**	1	8/27/2002	8/28/2002	
1,1,2,2-Tetrachloroethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
Toluene	EPA 8260B	I2H2707	1.0	**4.7**	1	8/27/2002	8/28/2002	
1,2,3-Trichlorobenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
1,2,4-Trichlorobenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
1,1,1-Trichloroethane	EPA 8260B	I2H2707	1.0	**47**	1	8/27/2002	8/28/2002	
1,1,2-Trichloroethane	EPA 8260B	I2H2707	1.0	**25**	1	8/27/2002	8/28/2002	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	I2H2707	5.0	ND	1	8/27/2002	8/28/2002	
1,2,3-Trichloropropane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
1,2,4-Trimethylbenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
1,3,5-Trimethylbenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
Vinyl chloride	EPA 8260B	I2H2707	0.50	ND	1	8/27/2002	8/28/2002	
o-Xylene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
m,p-Xylenes	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/28/2002	
Surrogate: Dibromofluoromethane (80-120%)				*116 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*107 %*				

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10500-30697
Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH1043-02RE1 (OC-GW-OW8K-082202 - Water)				**Sampled: 08/22/02**				
Chloroform	EPA 8260B	I2H2801	100	**340**	100	8/28/2002	8/28/2002	
1,1-Dichloroethene	EPA 8260B	I2H2801	100	**1500**	100	8/28/2002	8/28/2002	
Tetrachloroethene	EPA 8260B	I2H2801	100	**10000**	100	8/28/2002	8/28/2002	
Trichloroethene	EPA 8260B	I2H2801	100	**840**	100	8/28/2002	8/28/2002	
Trichlorofluoromethane	EPA 8260B	I2H2801	100	**910**	100	8/28/2002	8/28/2002	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	I2H2801	500	**2300**	100	8/28/2002	8/28/2002	
Surrogate: Dibromofluoromethane (80-120%)				*98 %*				
Surrogate: Toluene-d8 (80-120%)				*107 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*106 %*				

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10500-30697
Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH1043-03 (OC-GW-OW5-082202 - Water)				**Sampled: 08/22/02**				
Acetone	EPA 8260B	I2H2801	10	ND	1	8/28/2002	8/28/2002	
Benzene	EPA 8260B	I2H2801	0.50	ND	1	8/28/2002	8/28/2002	
Bromobenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Bromochloromethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Bromodichloromethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Bromoform	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Bromomethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
n-Butylbenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
sec-Butylbenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
tert-Butylbenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Carbon tetrachloride	EPA 8260B	I2H2801	0.50	ND	1	8/28/2002	8/28/2002	
Chlorobenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Chloroethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Chloroform	EPA 8260B	I2H2801	1.0	**2.1**	1	8/28/2002	8/28/2002	
Chloromethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
2-Chlorotoluene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
4-Chlorotoluene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Dibromochloromethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,2-Dibromo-3-chloropropane	EPA 8260B	I2H2801	5.0	ND	1	8/28/2002	8/28/2002	
1,2-Dibromoethane (EDB)	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Dibromomethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,2-Dichlorobenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,3-Dichlorobenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,4-Dichlorobenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Dichlorodifluoromethane	EPA 8260B	I2H2801	5.0	ND	1	8/28/2002	8/28/2002	
1,1-Dichloroethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,2-Dichloroethane	EPA 8260B	I2H2801	0.50	ND	1	8/28/2002	8/28/2002	
1,1-Dichloroethene	EPA 8260B	I2H2801	1.0	**37**	1	8/28/2002	8/28/2002	
cis-1,2-Dichloroethene	EPA 8260B	I2H2801	1.0	**34**	1	8/28/2002	8/28/2002	
trans-1,2-Dichloroethene	EPA 8260B	I2H2801	1.0	**1.2**	1	8/28/2002	8/28/2002	
1,2-Dichloropropane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,3-Dichloropropane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
2,2-Dichloropropane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,1-Dichloropropene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
cis-1,3-Dichloropropene	EPA 8260B	I2H2801	0.50	ND	1	8/28/2002	8/28/2002	
trans-1,3-Dichloropropene	EPA 8260B	I2H2801	0.50	ND	1	8/28/2002	8/28/2002	
Ethylbenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Hexachlorobutadiene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Isopropylbenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
p-Isopropyltoluene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Methylene chloride	EPA 8260B	I2H2801	5.0	ND	1	8/28/2002	8/28/2002	

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Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH1043-03 (OC-GW-OW5-082202 - Water)				**Sampled: 08/22/02**				
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Naphthalene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
n-Propylbenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Styrene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,1,1,2-Tetrachloroethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,1,2,2-Tetrachloroethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Tetrachloroethene	EPA 8260B	I2H2801	1.0	**150**	1	8/28/2002	8/28/2002	
Toluene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,2,3-Trichlorobenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,2,4-Trichlorobenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,1,1-Trichloroethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,1,2-Trichloroethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Trichlorofluoromethane	EPA 8260B	I2H2801	1.0	**61**	1	8/28/2002	8/28/2002	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	I2H2801	5.0	**200**	1	8/28/2002	8/28/2002	
1,2,3-Trichloropropane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,2,4-Trimethylbenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,3,5-Trimethylbenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Vinyl chloride	EPA 8260B	I2H2801	0.50	ND	1	8/28/2002	8/28/2002	
o-Xylene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
m,p-Xylenes	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Surrogate: Dibromofluoromethane (80-120%)				*110 %*				
Surrogate: Toluene-d8 (80-120%)				*107 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*112 %*				

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Sampled: 08/21/02-08/22/02
Received: 08/22/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH1043-03RE1 (OC-GW-OW5-082202 - Water)				**Sampled: 08/22/02**				
Trichloroethene	EPA 8260B	I2H2801	2.0	**300**	2	8/28/2002	8/28/2002	
Surrogate: Dibromofluoromethane (80-120%)				*115 %*				
Surrogate: Toluene-d8 (80-120%)				*107 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*114 %*				

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Received: 08/22/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH1043-04 (OC-GW-OW4b-082102 - Water)				**Sampled: 08/21/02**				
Benzene	EPA 8260B	I2H2801	0.50	**1.8**	1	8/28/2002	8/28/2002	
Bromobenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Bromochloromethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Bromodichloromethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Bromoform	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Bromomethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
n-Butylbenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
sec-Butylbenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
tert-Butylbenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Carbon tetrachloride	EPA 8260B	I2H2801	0.50	ND	1	8/28/2002	8/28/2002	
Chlorobenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Chloroethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Chloroform	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Chloromethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
2-Chlorotoluene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
4-Chlorotoluene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Dibromochloromethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,2-Dibromo-3-chloropropane	EPA 8260B	I2H2801	5.0	ND	1	8/28/2002	8/28/2002	
1,2-Dibromoethane (EDB)	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Dibromomethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,2-Dichlorobenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,3-Dichlorobenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,4-Dichlorobenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Dichlorodifluoromethane	EPA 8260B	I2H2801	5.0	ND	1	8/28/2002	8/28/2002	
1,1-Dichloroethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,2-Dichloroethane	EPA 8260B	I2H2801	0.50	ND	1	8/28/2002	8/28/2002	
1,1-Dichloroethene	EPA 8260B	I2H2801	1.0	**22**	1	8/28/2002	8/28/2002	
cis-1,2-Dichloroethene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
trans-1,2-Dichloroethene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,2-Dichloropropane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,3-Dichloropropane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
2,2-Dichloropropane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,1-Dichloropropene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
cis-1,3-Dichloropropene	EPA 8260B	I2H2801	0.50	ND	1	8/28/2002	8/28/2002	
trans-1,3-Dichloropropene	EPA 8260B	I2H2801	0.50	ND	1	8/28/2002	8/28/2002	
Ethylbenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Hexachlorobutadiene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Isopropylbenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
p-Isopropyltoluene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Methylene chloride	EPA 8260B	I2H2801	5.0	ND	1	8/28/2002	8/28/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	

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Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH1043-04 (OC-GW-OW4b-082102 - Water)				**Sampled: 08/21/02**				
Naphthalene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
n-Propylbenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Styrene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,1,1,2-Tetrachloroethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,1,2,2-Tetrachloroethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Tetrachloroethene	EPA 8260B	I2H2801	1.0	**12**	1	8/28/2002	8/28/2002	
Toluene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,2,3-Trichlorobenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,2,4-Trichlorobenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,1,1-Trichloroethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,1,2-Trichloroethane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Trichloroethene	EPA 8260B	I2H2801	1.0	**7.9**	1	8/28/2002	8/28/2002	
Trichlorofluoromethane	EPA 8260B	I2H2801	1.0	**14**	1	8/28/2002	8/28/2002	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	I2H2801	5.0	**86**	1	8/28/2002	8/28/2002	
1,2,3-Trichloropropane	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,2,4-Trimethylbenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
1,3,5-Trimethylbenzene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Vinyl chloride	EPA 8260B	I2H2801	0.50	ND	1	8/28/2002	8/28/2002	
o-Xylene	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
m,p-Xylenes	EPA 8260B	I2H2801	1.0	ND	1	8/28/2002	8/28/2002	
Surrogate: Dibromofluoromethane (80-120%)				*115 %*				
Surrogate: Toluene-d8 (80-120%)				*108 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*114 %*				

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Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH1043-04RE1 (OC-GW-OW4b-082102 - Water)				**Sampled: 08/21/02**				
Acetone	EPA 8260B	I2H2836	20	**240**	2	8/28/2002	8/29/2002	
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*96 %*				

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Sampled: 08/21/02-08/22/02
Received: 08/22/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH1043-05 (TB2 - Water)				**Sampled: 08/21/02**				
Acetone	EPA 8260B	I2H2707	10	ND	1	8/27/2002	8/27/2002	
Benzene	EPA 8260B	I2H2707	0.50	ND	1	8/27/2002	8/27/2002	
Bromobenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Bromochloromethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Bromodichloromethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Bromoform	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Bromomethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
n-Butylbenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
sec-Butylbenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
tert-Butylbenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Carbon tetrachloride	EPA 8260B	I2H2707	0.50	ND	1	8/27/2002	8/27/2002	
Chlorobenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Chloroethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Chloroform	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Chloromethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
2-Chlorotoluene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
4-Chlorotoluene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Dibromochloromethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
1,2-Dibromo-3-chloropropane	EPA 8260B	I2H2707	5.0	ND	1	8/27/2002	8/27/2002	
1,2-Dibromoethane (EDB)	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Dibromomethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
1,2-Dichlorobenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
1,3-Dichlorobenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
1,4-Dichlorobenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Dichlorodifluoromethane	EPA 8260B	I2H2707	5.0	ND	1	8/27/2002	8/27/2002	
1,1-Dichloroethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
1,2-Dichloroethane	EPA 8260B	I2H2707	0.50	ND	1	8/27/2002	8/27/2002	
1,1-Dichloroethene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
cis-1,2-Dichloroethene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
trans-1,2-Dichloroethene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
1,2-Dichloropropane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
1,3-Dichloropropane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
2,2-Dichloropropane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
1,1-Dichloropropene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
cis-1,3-Dichloropropene	EPA 8260B	I2H2707	0.50	ND	1	8/27/2002	8/27/2002	
trans-1,3-Dichloropropene	EPA 8260B	I2H2707	0.50	ND	1	8/27/2002	8/27/2002	
Ethylbenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Hexachlorobutadiene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Isopropylbenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
p-Isopropyltoluene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Methylene chloride	EPA 8260B	I2H2707	5.0	ND	1	8/27/2002	8/27/2002	

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Sampled: 08/21/02-08/22/02
Received: 08/22/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH1043-05 (TB2 - Water)				**Sampled: 08/21/02**				
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Naphthalene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
n-Propylbenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Styrene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
1,1,1,2-Tetrachloroethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
1,1,2,2-Tetrachloroethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Tetrachloroethene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Toluene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
1,2,3-Trichlorobenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
1,2,4-Trichlorobenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
1,1,1-Trichloroethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
1,1,2-Trichloroethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Trichloroethene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Trichlorofluoromethane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	I2H2707	5.0	ND	1	8/27/2002	8/27/2002	
1,2,3-Trichloropropane	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
1,2,4-Trimethylbenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
1,3,5-Trimethylbenzene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Vinyl chloride	EPA 8260B	I2H2707	0.50	ND	1	8/27/2002	8/27/2002	
o-Xylene	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
m,p-Xylenes	EPA 8260B	I2H2707	1.0	ND	1	8/27/2002	8/27/2002	
Surrogate: Dibromofluoromethane (80-120%)				*103 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*103 %*				

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Patty Mata
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Received: 08/22/02

PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH1043-01 (OC-GW-OW8-082202 - Water)				**Sampled: 08/22/02**				
Tentatively Identified Compounds	EPA 8260B	I2H2801	4000	ND	20	8/28/2002	8/28/2002	
Sample ID: ILH1043-02 (OC-GW-OW8K-082202 - Water)				**Sampled: 08/22/02**				
1,2-Dichloro-1,1,2-trifluoroethane	EPA 8260B	I2H2707	25	**88**	1	8/27/2002	8/28/2002	
Sample ID: ILH1043-03 (OC-GW-OW5-082202 - Water)				**Sampled: 08/22/02**				
Tentatively Identified Compounds	EPA 8260B	I2H2801	200	ND	1	8/28/2002	8/28/2002	
Sample ID: ILH1043-04 (OC-GW-OW4b-082102 - Water)				**Sampled: 08/21/02**				
IPA	EPA 8260B	I2H2801	200	**570**	1	8/28/2002	8/28/2002	
Sample ID: ILH1043-05 (TB2 - Water)				**Sampled: 08/21/02**				
Tentatively Identified Compounds	EPA 8260B	I2H2707	25	ND	1	8/27/2002	8/27/2002	

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Client: Del Mar Analytical
2852 Alton Parkway
Irvine, CA 92606

Phone: (949) 261-1022
FAX: (949) 261-1228

Attn: Patty Mata

Project: 1,4-Dioxane Analysis

P.O.#:

Certificate of Analysis

Work Order No: 2090615-01 **Sample ID: ILH1043-01** **Matrix: Water**
Sampled by: Client **Sampled: 22-Aug-02 07:40** **Sample Note:**

Analyte	Result	Qualifier	Units	Reporting Limit	Dilution	Method	Prepared	Analyzed		Batch
1,4-Dioxane	830		ug/l	0.50	1	EPA 8270M	03-Sep-02	13-Sep-02	BN	W209126

Work Order No: 2090615-02 **Sample ID: ILH1043-02** **Matrix: Water**
Sampled by: Client **Sampled: 22-Aug-02 06:50** **Sample Note:**

Analyte	Result	Qualifier	Units	Reporting Limit	Dilution	Method	Prepared	Analyzed		Batch
1,4-Dioxane	840		ug/l	0.50	1	EPA 8270M	03-Sep-02	13-Sep-02	BN	W209126

Work Order No: 2090615-03 **Sample ID: ILH1043-04** **Matrix: Water**
Sampled by: Client **Sampled: 21-Aug-02 15:25** **Sample Note:**

Analyte	Result	Qualifier	Units	Reporting Limit	Dilution	Method	Prepared	Analyzed		Batch
1,4-Dioxane	ND		ug/l	0.50	1	EPA 8270M	03-Sep-02	13-Sep-02	BN	W209126

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

Certificate of Analysis

Weck Laboratories, Inc

Semivolatile Organic Compounds (Special Analytes) by EPA Method 8270C - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W209126 - 3510C									
Blank (W209126-BLK1)					Prepared: 03-Sep-02 Analyzed: 12-Sep-02				
1,4-Dioxane		ND		ug/l					
LCS (W209126-BS1)					Prepared: 03-Sep-02 Analyzed: 12-Sep-02				
1,4-Dioxane		10.9		ug/l	10.0	109	77-133		
Matrix Spike (W209126-MS1)			Source: 2090611-01		Prepared: 03-Sep-02 Analyzed: 12-Sep-02				
1,4-Dioxane	ND	23.9		ug/l	20.0	117	53-136		
Matrix Spike Dup (W209126-MSD1)			Source: 2090611-01		Prepared: 03-Sep-02 Analyzed: 13-Sep-02				
1,4-Dioxane	ND	23.5		ug/l	20.0	115	53-136	1.69	30

Authorized Signature

ELAP # 1132
LACSD # 10143

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.
RL=Reporting Limit.
ND=Not detected, below the reporting limit.
Sub=Subcontracted analysis, original report enclosed.
An absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.

Flags for Data Qualifiers:

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

QA/QC PACKAGE: LEVEL IV
PREPARED FOR CAMP DRESSER & MCKEE
LABORATORY NUMBER: ILH1043
PROJECT: OMEGA CHEMICAL / 10500-30697

QUALITY CONTROL SUMMARY

- METHOD BLANKS
- MS/MSD DATA REPORTS
- LCS DATA REPORTS

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Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2707 Extracted: 08/27/02										
Blank Analyzed: 08/27/02 (I2H2707-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Camp, Dresser & McKee
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Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2707 Extracted: 08/27/02										
Blank Analyzed: 08/27/02 (I2H2707-BLK1)										
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			

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Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2707 Extracted: 08/27/02										
LCS Analyzed: 08/27/02 (I2H2707-BS1)										
Acetone	20.2	10	ug/l	25.0		81	35-165			
Benzene	25.2	0.50	ug/l	25.0		101	75-130			
Bromobenzene	24.9	1.0	ug/l	25.0		100	75-130			
Bromochloromethane	27.4	1.0	ug/l	25.0		110	70-140			
Bromodichloromethane	26.6	1.0	ug/l	25.0		106	75-135			
Bromoform	23.1	1.0	ug/l	25.0		92	55-150			
Bromomethane	26.8	1.0	ug/l	25.0		107	65-140			
n-Butylbenzene	24.6	1.0	ug/l	25.0		98	75-130			
sec-Butylbenzene	24.4	1.0	ug/l	25.0		98	70-130			
tert-Butylbenzene	24.5	1.0	ug/l	25.0		98	75-130			
Carbon tetrachloride	25.5	0.50	ug/l	25.0		102	70-160			
Chlorobenzene	24.7	1.0	ug/l	25.0		99	75-130			
Chloroethane	26.7	1.0	ug/l	25.0		107	65-135			
Chloroform	27.0	1.0	ug/l	25.0		108	75-130			
Chloromethane	23.6	1.0	ug/l	25.0		94	40-130			
2-Chlorotoluene	24.4	1.0	ug/l	25.0		98	75-130			
4-Chlorotoluene	24.6	1.0	ug/l	25.0		98	70-130			
Dibromochloromethane	24.3	1.0	ug/l	25.0		97	70-130			
1,2-Dibromo-3-chloropropane	24.8	5.0	ug/l	25.0		99	70-130			
1,2-Dibromoethane (EDB)	26.0	1.0	ug/l	25.0		104	70-130			
Dibromomethane	25.8	1.0	ug/l	25.0		103	65-135			
1,2-Dichlorobenzene	25.2	1.0	ug/l	25.0		101	75-130			
1,3-Dichlorobenzene	23.5	1.0	ug/l	25.0		94	75-130			
1,4-Dichlorobenzene	23.5	1.0	ug/l	25.0		94	75-125			
Dichlorodifluoromethane	18.8	5.0	ug/l	25.0		75	10-140			
1,1-Dichloroethane	26.9	1.0	ug/l	25.0		108	60-130			
1,2-Dichloroethane	25.3	0.50	ug/l	25.0		101	65-140			
1,1-Dichloroethene	26.9	1.0	ug/l	25.0		108	70-145			
cis-1,2-Dichloroethene	26.2	1.0	ug/l	25.0		105	65-120			
trans-1,2-Dichloroethene	26.7	1.0	ug/l	25.0		107	75-140			
1,2-Dichloropropane	24.9	1.0	ug/l	25.0		100	75-130			
1,3-Dichloropropane	25.3	1.0	ug/l	25.0		101	65-140			
2,2-Dichloropropane	26.6	1.0	ug/l	25.0		106	75-150			
1,1-Dichloropropene	25.6	1.0	ug/l	25.0		102	75-140			
cis-1,3-Dichloropropene	26.2	0.50	ug/l	25.0		105	65-135			
trans-1,3-Dichloropropene	26.4	0.50	ug/l	25.0		106	65-140			

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10500-30697
Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2707 Extracted: 08/27/02										
LCS Analyzed: 08/27/02 (I2H2707-BS1)										
Ethylbenzene	24.5	1.0	ug/l	25.0		98	75-135			
Hexachlorobutadiene	23.6	1.0	ug/l	25.0		94	75-150			
Isopropylbenzene	24.8	1.0	ug/l	25.0		99	70-130			
p-Isopropyltoluene	23.9	1.0	ug/l	25.0		96	75-130			
Methylene chloride	25.8	5.0	ug/l	25.0		103	70-125			
Methyl-tert-butyl Ether (MTBE)	28.4	1.0	ug/l	25.0		114	65-135			
Naphthalene	23.8	1.0	ug/l	25.0		95	50-145			
n-Propylbenzene	25.8	1.0	ug/l	25.0		103	70-130			
Styrene	25.7	1.0	ug/l	25.0		103	75-140			
1,1,1,2-Tetrachloroethane	25.5	1.0	ug/l	25.0		102	75-135			
1,1,2,2-Tetrachloroethane	27.1	1.0	ug/l	25.0		108	60-130			
Tetrachloroethene	24.0	1.0	ug/l	25.0		96	75-130			
Toluene	24.4	1.0	ug/l	25.0		98	75-130			
1,2,3-Trichlorobenzene	24.7	1.0	ug/l	25.0		99	50-140			
1,2,4-Trichlorobenzene	25.5	1.0	ug/l	25.0		102	80-140			
1,1,1-Trichloroethane	26.6	1.0	ug/l	25.0		106	75-140			
1,1,2-Trichloroethane	25.2	1.0	ug/l	25.0		101	65-130			
Trichloroethene	24.0	1.0	ug/l	25.0		96	75-130			
Trichlorofluoromethane	27.0	1.0	ug/l	25.0		108	55-145			
1,2,3-Trichloropropane	25.1	1.0	ug/l	25.0		100	60-140			
1,2,4-Trimethylbenzene	24.4	1.0	ug/l	25.0		98	80-130			
1,3,5-Trimethylbenzene	25.9	1.0	ug/l	25.0		104	80-135			
Vinyl chloride	22.9	0.50	ug/l	25.0		92	45-140			
o-Xylene	24.7	1.0	ug/l	25.0		99	75-130			
m,p-Xylenes	48.3	1.0	ug/l	50.0		97	75-135			
Surrogate: Dibromofluoromethane	*26.4*		*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Toluene-d8	*25.4*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			

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Sampled: 08/21/02-08/22/02
Received: 08/22/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2707 Extracted: 08/27/02										
Matrix Spike Analyzed: 08/27/02 (I2H2707-MS1)					**Source: ILH1130-09**					
Benzene	24.4	0.50	ug/l	25.0	ND	98	70-140			
Bromodichloromethane	26.6	1.0	ug/l	25.0	ND	106	75-145			
Bromoform	21.4	1.0	ug/l	25.0	ND	86	55-150			
Chlorobenzene	23.4	1.0	ug/l	25.0	ND	94	75-130			
Chloroform	26.8	1.0	ug/l	25.0	ND	107	75-150			
Dibromochloromethane	23.3	1.0	ug/l	25.0	ND	93	70-145			
1,4-Dichlorobenzene	22.1	1.0	ug/l	25.0	ND	88	75-125			
1,1-Dichloroethane	26.3	1.0	ug/l	25.0	ND	105	60-130			
1,2-Dichloroethane	25.7	0.50	ug/l	25.0	ND	103	65-140			
1,1-Dichloroethene	24.5	1.0	ug/l	25.0	ND	98	65-165			
Ethylbenzene	22.7	1.0	ug/l	25.0	ND	91	75-135			
Methyl-tert-butyl Ether (MTBE)	28.3	1.0	ug/l	25.0	ND	113	65-150			
Naphthalene	20.6	1.0	ug/l	25.0	ND	82	50-155			
Tetrachloroethene	21.5	1.0	ug/l	25.0	ND	86	75-155			
Toluene	23.6	1.0	ug/l	25.0	ND	94	75-135			
Trichloroethene	24.6	1.0	ug/l	25.0	2.0	90	75-130			
Vinyl chloride	22.8	0.50	ug/l	25.0	ND	91	40-190			
o-Xylene	23.1	1.0	ug/l	25.0	ND	92	75-150			
m,p-Xylenes	44.4	1.0	ug/l	50.0	ND	89	70-140			
Surrogate: Dibromofluoromethane	*27.1*		*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: Toluene-d8	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Matrix Spike Dup Analyzed: 08/27/02 (I2H2707-MSD1)					**Source: ILH1130-09**					
Benzene	25.8	0.50	ug/l	25.0	ND	103	70-140	6	20	
Bromodichloromethane	28.1	1.0	ug/l	25.0	ND	112	75-145	5	20	
Bromoform	22.8	1.0	ug/l	25.0	ND	91	55-150	6	40	
Chlorobenzene	25.0	1.0	ug/l	25.0	ND	100	75-130	7	20	
Chloroform	28.7	1.0	ug/l	25.0	ND	115	75-150	7	20	
Dibromochloromethane	24.7	1.0	ug/l	25.0	ND	99	70-145	6	20	
1,4-Dichlorobenzene	23.4	1.0	ug/l	25.0	ND	94	75-125	6	20	
1,1-Dichloroethane	28.2	1.0	ug/l	25.0	ND	113	60-130	7	20	
1,2-Dichloroethane	26.5	0.50	ug/l	25.0	ND	106	65-140	3	20	
1,1-Dichloroethene	26.2	1.0	ug/l	25.0	ND	105	65-165	7	20	
Ethylbenzene	23.7	1.0	ug/l	25.0	ND	95	75-135	4	20	
Methyl-tert-butyl Ether (MTBE)	30.5	1.0	ug/l	25.0	ND	122	65-150	7	20	

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Camp, Dresser & McKee
8581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2707 Extracted: 08/27/02										
Matrix Spike Dup Analyzed: 08/27/02 (I2H2707-MSD1)					**Source: ILH1130-09**					
Naphthalene	21.1	1.0	ug/l	25.0	ND	84	50-155	2	30	
Tetrachloroethene	23.1	1.0	ug/l	25.0	ND	92	75-155	7	20	
Toluene	24.6	1.0	ug/l	25.0	ND	98	75-135	4	20	
Trichloroethene	25.9	1.0	ug/l	25.0	2.0	96	75-130	5	20	
Vinyl chloride	24.6	0.50	ug/l	25.0	ND	98	40-190	8	25	
Xylene	24.1	1.0	ug/l	25.0	ND	96	75-150	4	20	
m,p-Xylenes	45.4	1.0	ug/l	50.0	ND	91	70-140	2	20	
Surrogate: Dibromofluoromethane	*27.6*		*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Batch: I2H2801 Extracted: 08/28/02										
Blank Analyzed: 08/28/02 (I2H2801-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							

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18581 Teller, #200
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Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2801 Extracted: 08/28/02										
Blank Analyzed: 08/28/02 (I2H2801-BLK1)										
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2801 Extracted: 08/28/02										
Blank Analyzed: 08/28/02 (I2H2801-BLK1)										
Vinyl chloride	ND	0.50	ug/l							
Xylene	ND	1.0	ug/l							
p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*28.5*		*ug/l*	*25.0*		*114*	*80-120*			
Surrogate: Toluene-d8	*27.0*		*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*28.1*		*ug/l*	*25.0*		*112*	*80-120*			
LCS Analyzed: 08/28/02 (I2H2801-BS1)										
Acetone	17.9	10	ug/l	25.0		72	35-165			
Benzene	25.9	0.50	ug/l	25.0		104	75-130			
Bromobenzene	25.7	1.0	ug/l	25.0		103	75-130			
Bromochloromethane	25.9	1.0	ug/l	25.0		104	70-140			
Bromodichloromethane	24.8	1.0	ug/l	25.0		99	75-135			
Bromoform	19.8	1.0	ug/l	25.0		79	55-150			
Bromomethane	26.5	1.0	ug/l	25.0		106	65-140			
Butylbenzene	25.8	1.0	ug/l	25.0		103	75-130			
sec-Butylbenzene	24.4	1.0	ug/l	25.0		98	70-130			
tert-Butylbenzene	25.6	1.0	ug/l	25.0		102	75-130			
Carbon tetrachloride	25.3	0.50	ug/l	25.0		101	70-160			
Chlorobenzene	26.5	1.0	ug/l	25.0		106	75-130			
Chloroethane	26.5	1.0	ug/l	25.0		106	65-135			
Chloroform	27.0	1.0	ug/l	25.0		108	75-130			
Chloromethane	22.4	1.0	ug/l	25.0		90	40-130			
2-Chlorotoluene	25.7	1.0	ug/l	25.0		103	75-130			
4-Chlorotoluene	26.2	1.0	ug/l	25.0		105	70-130			
Dibromochloromethane	22.1	1.0	ug/l	25.0		88	70-130			
1,2-Dibromo-3-chloropropane	17.2	5.0	ug/l	25.0		69	55-135			
1,2-Dibromoethane (EDB)	23.4	1.0	ug/l	25.0		94	70-130			
Dibromomethane	24.2	1.0	ug/l	25.0		97	65-135			
1,2-Dichlorobenzene	24.7	1.0	ug/l	25.0		99	75-130			
1,3-Dichlorobenzene	25.7	1.0	ug/l	25.0		103	75-130			
1,4-Dichlorobenzene	25.4	1.0	ug/l	25.0		102	75-125			
Dichlorodifluoromethane	17.7	5.0	ug/l	25.0		71	10-140			
1,1-Dichloroethane	27.2	1.0	ug/l	25.0		109	60-130			
1,2-Dichloroethane	24.2	0.50	ug/l	25.0		97	65-140			
1,1-Dichloroethene	27.8	1.0	ug/l	25.0		111	70-145			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2801 Extracted: 08/28/02										
LCS Analyzed: 08/28/02 (I2H2801-BS1)										
cis-1,2-Dichloroethene	25.6	1.0	ug/l	25.0		102	65-120			
trans-1,2-Dichloroethene	27.3	1.0	ug/l	25.0		109	75-140			
1,2-Dichloropropane	25.8	1.0	ug/l	25.0		103	75-130			
1,3-Dichloropropane	24.1	1.0	ug/l	25.0		96	65-140			
2,2-Dichloropropane	27.1	1.0	ug/l	25.0		108	75-150			
1,1-Dichloropropene	26.7	1.0	ug/l	25.0		107	75-140			
cis-1,3-Dichloropropene	25.6	0.50	ug/l	25.0		102	65-135			
trans-1,3-Dichloropropene	23.9	0.50	ug/l	25.0		96	65-140			
Ethylbenzene	25.6	1.0	ug/l	25.0		102	75-135			
Hexachlorobutadiene	24.0	1.0	ug/l	25.0		96	75-150			
Isopropylbenzene	26.1	1.0	ug/l	25.0		104	70-130			
p-Isopropyltoluene	24.8	1.0	ug/l	25.0		99	75-130			
Methylene chloride	27.0	5.0	ug/l	25.0		108	70-125			
Methyl-tert-butyl Ether (MTBE)	24.3	1.0	ug/l	25.0		97	65-135			
Naphthalene	20.8	1.0	ug/l	25.0		83	50-145			
n-Propylbenzene	26.9	1.0	ug/l	25.0		108	70-130			
Styrene	25.5	1.0	ug/l	25.0		102	75-140			
1,1,1,2-Tetrachloroethane	25.4	1.0	ug/l	25.0		102	75-135			
1,1,2,2-Tetrachloroethane	21.2	1.0	ug/l	25.0		85	60-130			
Tetrachloroethene	26.2	1.0	ug/l	25.0		105	75-130			
Toluene	25.6	1.0	ug/l	25.0		102	75-130			
1,2,3-Trichlorobenzene	23.5	1.0	ug/l	25.0		94	50-140			
1,2,4-Trichlorobenzene	24.5	1.0	ug/l	25.0		98	80-140			
1,1,1-Trichloroethane	26.4	1.0	ug/l	25.0		106	75-140			
1,1,2-Trichloroethane	23.5	1.0	ug/l	25.0		94	65-130			
Trichloroethene	25.6	1.0	ug/l	25.0		102	75-130			
Trichlorofluoromethane	27.8	1.0	ug/l	25.0		111	55-145			
1,2,3-Trichloropropane	21.8	1.0	ug/l	25.0		87	60-140			
1,2,4-Trimethylbenzene	24.8	1.0	ug/l	25.0		99	80-130			
1,3,5-Trimethylbenzene	25.9	1.0	ug/l	25.0		104	80-135			
Vinyl chloride	23.3	0.50	ug/l	25.0		93	45-140			
o-Xylene	24.9	1.0	ug/l	25.0		100	75-130			
m,p-Xylenes	50.0	1.0	ug/l	50.0		100	75-135			
Surrogate: Dibromofluoromethane	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: Toluene-d8	*27.3*		*ug/l*	*25.0*		*109*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*27.2*		*ug/l*	*25.0*		*109*	*80-120*			

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Received: 08/22/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2801 Extracted: 08/28/02										
Matrix Spike Analyzed: 08/28/02 (I2H2801-MS1)					**Source: ILH1053-01**					
Benzene	26.7	0.50	ug/l	25.0	ND	107	70-140			
Bromodichloromethane	26.4	1.0	ug/l	25.0	ND	106	75-145			
Bromoform	25.4	1.0	ug/l	25.0	ND	102	55-150			
Chlorobenzene	27.4	1.0	ug/l	25.0	ND	110	75-130			
Chloroform	28.1	1.0	ug/l	25.0	ND	112	75-150			
Dibromochloromethane	25.3	1.0	ug/l	25.0	ND	101	70-145			
1,4-Dichlorobenzene	26.1	1.0	ug/l	25.0	ND	104	75-125			
1,1-Dichloroethane	28.2	1.0	ug/l	25.0	ND	113	60-130			
1,2-Dichloroethane	27.0	0.50	ug/l	25.0	ND	108	65-140			
1,1-Dichloroethene	26.7	1.0	ug/l	25.0	ND	107	65-165			
Ethylbenzene	25.7	1.0	ug/l	25.0	ND	103	75-135			
Methyl-tert-butyl Ether (MTBE)	29.6	1.0	ug/l	25.0	ND	118	65-150			
Naphthalene	23.1	1.0	ug/l	25.0	ND	92	50-155			
Tetrachloroethene	26.7	1.0	ug/l	25.0	ND	107	75-155			
Toluene	26.2	1.0	ug/l	25.0	ND	105	75-135			
Trichloroethene	29.1	1.0	ug/l	25.0	3.0	104	75-130			
Vinyl chloride	20.5	0.50	ug/l	25.0	ND	82	40-190			
o-Xylene	24.7	1.0	ug/l	25.0	ND	99	75-150			
m,p-Xylenes	48.0	1.0	ug/l	50.0	ND	96	70-140			
Surrogate: Dibromofluoromethane	*27.2*		*ug/l*	*25.0*		*109*	*80-120*			
Surrogate: Toluene-d8	*27.1*		*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*27.6*		*ug/l*	*25.0*		*110*	*80-120*			
Matrix Spike Dup Analyzed: 08/28/02 (I2H2801-MSD1)					**Source: ILH1053-01**					
Benzene	26.5	0.50	ug/l	25.0	ND	106	70-140	1	20	
Bromodichloromethane	25.9	1.0	ug/l	25.0	ND	104	75-145	2	20	
Bromoform	23.1	1.0	ug/l	25.0	ND	92	55-150	9	40	
Chlorobenzene	27.4	1.0	ug/l	25.0	ND	110	75-130	0	20	
Chloroform	28.0	1.0	ug/l	25.0	ND	111	75-150	0	20	
Dibromochloromethane	24.1	1.0	ug/l	25.0	ND	96	70-145	5	20	
1,4-Dichlorobenzene	26.4	1.0	ug/l	25.0	ND	106	75-125	1	20	
1,1-Dichloroethane	27.8	1.0	ug/l	25.0	ND	111	60-130	1	20	
1,2-Dichloroethane	25.6	0.50	ug/l	25.0	ND	102	65-140	5	20	
1,1-Dichloroethene	26.8	1.0	ug/l	25.0	ND	107	65-165	0	20	
Ethylbenzene	26.0	1.0	ug/l	25.0	ND	104	75-135	1	20	
Methyl-tert-butyl Ether (MTBE)	26.7	1.0	ug/l	25.0	ND	107	65-150	10	20	

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Sampled: 08/21/02-08/22/02
Received: 08/22/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2801 Extracted: 08/28/02										
Matrix Spike Dup Analyzed: 08/28/02 (I2H2801-MSD1)					**Source: ILH1053-01**					
Naphthalene	21.2	1.0	ug/l	25.0	ND	85	50-155	9	30	
Tetrachloroethene	26.9	1.0	ug/l	25.0	ND	108	75-155	1	20	
Toluene	25.7	1.0	ug/l	25.0	ND	103	75-135	2	20	
Trichloroethene	28.6	1.0	ug/l	25.0	3.0	102	75-130	2	20	
Vinyl chloride	21.8	0.50	ug/l	25.0	ND	87	40-190	6	25	
o-Xylene	25.1	1.0	ug/l	25.0	ND	100	75-150	2	20	
m,p-Xylenes	48.2	1.0	ug/l	50.0	ND	96	70-140	0	20	
Surrogate: Dibromofluoromethane	*26.8*		*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Toluene-d8	*26.9*		*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*27.3*		*ug/l*	*25.0*		*109*	*80-120*			
Batch: I2H2836 Extracted: 08/28/02										
Blank Analyzed: 08/28/02 (I2H2836-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							

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Camp, Dresser & McKee
8581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2836 Extracted: 08/28/02										
Blank Analyzed: 08/28/02 (I2H2836-BLK1)										
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							

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Report Number: ILH1043

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2836 Extracted: 08/28/02										
Blank Analyzed: 08/28/02 (I2H2836-BLK1)										
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*24.7*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.2*		*ug/l*	*25.0*		*93*	*80-120*			
LCS Analyzed: 08/28/02 (I2H2836-BS1)										
Acetone	18.8	10	ug/l	25.0		75	35-165			
Benzene	24.0	0.50	ug/l	25.0		96	75-130			
Bromobenzene	24.0	1.0	ug/l	25.0		96	75-130			
Bromochloromethane	26.3	1.0	ug/l	25.0		105	70-140			
Bromodichloromethane	22.0	1.0	ug/l	25.0		88	75-135			
Bromoform	19.6	1.0	ug/l	25.0		78	55-150			
Bromomethane	22.6	1.0	ug/l	25.0		90	65-140			
n-Butylbenzene	24.0	1.0	ug/l	25.0		96	75-130			
sec-Butylbenzene	24.3	1.0	ug/l	25.0		97	70-130			
tert-Butylbenzene	24.0	1.0	ug/l	25.0		96	75-130			
Carbon tetrachloride	21.9	0.50	ug/l	25.0		88	70-160			
Chlorobenzene	24.1	1.0	ug/l	25.0		96	75-130			
Chloroethane	24.1	1.0	ug/l	25.0		96	65-135			
Chloroform	23.3	1.0	ug/l	25.0		93	75-130			
Chloromethane	19.3	1.0	ug/l	25.0		77	40-130			
2-Chlorotoluene	23.5	1.0	ug/l	25.0		94	75-130			
4-Chlorotoluene	23.9	1.0	ug/l	25.0		96	70-130			
Dibromochloromethane	22.6	1.0	ug/l	25.0		90	70-130			
1,2-Dibromo-3-chloropropane	21.4	5.0	ug/l	25.0		86	70-130			
1,2-Dibromoethane (EDB)	23.2	1.0	ug/l	25.0		93	70-130			
Dibromomethane	22.5	1.0	ug/l	25.0		90	65-135			
1,2-Dichlorobenzene	24.0	1.0	ug/l	25.0		96	75-130			
1,3-Dichlorobenzene	23.5	1.0	ug/l	25.0		94	75-130			
1,4-Dichlorobenzene	23.7	1.0	ug/l	25.0		95	75-125			
Dichlorodifluoromethane	10.5	5.0	ug/l	25.0		42	10-140			
1,1-Dichloroethane	24.4	1.0	ug/l	25.0		98	60-130			
1,2-Dichloroethane	20.4	0.50	ug/l	25.0		82	65-140			
1,1-Dichloroethene	25.5	1.0	ug/l	25.0		102	70-145			

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Camp, Dresser & McKee
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Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2836 Extracted: 08/28/02										
LCS Analyzed: 08/28/02 (I2H2836-BS1)										
cis-1,2-Dichloroethene	24.9	1.0	ug/l	25.0		100	65-120			
trans-1,2-Dichloroethene	25.8	1.0	ug/l	25.0		103	75-140			
1,2-Dichloropropane	23.4	1.0	ug/l	25.0		94	75-130			
1,3-Dichloropropane	23.6	1.0	ug/l	25.0		94	65-140			
2,2-Dichloropropane	22.8	1.0	ug/l	25.0		91	75-150			
1,1-Dichloropropene	23.3	1.0	ug/l	25.0		93	75-140			
cis-1,3-Dichloropropene	23.4	0.50	ug/l	25.0		94	65-135			
trans-1,3-Dichloropropene	21.9	0.50	ug/l	25.0		88	65-140			
Ethylbenzene	23.3	1.0	ug/l	25.0		93	75-135			
Hexachlorobutadiene	23.2	1.0	ug/l	25.0		93	75-150			
Isopropylbenzene	24.2	1.0	ug/l	25.0		97	70-130			
p-Isopropyltoluene	23.1	1.0	ug/l	25.0		92	75-130			
Methylene chloride	25.2	5.0	ug/l	25.0		101	70-125			
Methyl-tert-butyl Ether (MTBE)	24.4	1.0	ug/l	25.0		98	65-135			
Naphthalene	23.1	1.0	ug/l	25.0		92	50-145			
n-Propylbenzene	25.0	1.0	ug/l	25.0		100	70-130			
Styrene	23.8	1.0	ug/l	25.0		95	75-140			
1,1,1,2-Tetrachloroethane	23.7	1.0	ug/l	25.0		95	75-135			
1,1,2,2-Tetrachloroethane	25.6	1.0	ug/l	25.0		102	60-130			
Tetrachloroethene	23.6	1.0	ug/l	25.0		94	75-130			
Toluene	23.4	1.0	ug/l	25.0		94	75-130			
1,2,3-Trichlorobenzene	23.7	1.0	ug/l	25.0		95	50-140			
1,2,4-Trichlorobenzene	24.0	1.0	ug/l	25.0		96	80-140			
1,1,1-Trichloroethane	22.9	1.0	ug/l	25.0		92	75-140			
1,1,2-Trichloroethane	23.4	1.0	ug/l	25.0		94	65-130			
Trichloroethene	23.2	1.0	ug/l	25.0		93	75-130			
Trichlorofluoromethane	21.5	1.0	ug/l	25.0		86	55-145			
1,2,3-Trichloropropane	22.6	1.0	ug/l	25.0		90	60-140			
1,2,4-Trimethylbenzene	23.6	1.0	ug/l	25.0		94	80-130			
1,3,5-Trimethylbenzene	24.2	1.0	ug/l	25.0		97	80-135			
Vinyl chloride	19.9	0.50	ug/l	25.0		80	45-140			
o-Xylene	23.3	1.0	ug/l	25.0		93	75-130			
m,p-Xylenes	46.9	1.0	ug/l	50.0		94	75-135			
Surrogate: Dibromofluoromethane	*24.5*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*24.7*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.5*		*ug/l*	*25.0*		*94*	*80-120*			

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Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2836 Extracted: 08/28/02										
Matrix Spike Analyzed: 08/28/02 (I2H2836-MS1)					**Source: ILH1307-02**					
Benzene	24.5	0.50	ug/l	25.0	ND	98	70-140			
Bromodichloromethane	23.4	1.0	ug/l	25.0	ND	94	75-145			
Bromoform	20.8	1.0	ug/l	25.0	ND	83	55-150			
Chlorobenzene	24.0	1.0	ug/l	25.0	ND	96	75-130			
Chloroform	24.1	1.0	ug/l	25.0	ND	96	75-150			
Dibromochloromethane	23.6	1.0	ug/l	25.0	ND	94	70-145			
1,4-Dichlorobenzene	24.6	1.0	ug/l	25.0	ND	98	75-125			
1,1-Dichloroethane	24.7	1.0	ug/l	25.0	ND	99	60-130			
1,2-Dichloroethane	23.0	0.50	ug/l	25.0	0.51	90	65-140			
1,1-Dichloroethene	25.7	1.0	ug/l	25.0	ND	103	65-165			
Ethylbenzene	23.8	1.0	ug/l	25.0	ND	95	75-135			
Methyl-tert-butyl Ether (MTBE)	26.1	1.0	ug/l	25.0	ND	104	65-150			
Naphthalene	24.8	1.0	ug/l	25.0	ND	99	50-155			
Tetrachloroethene	26.0	1.0	ug/l	25.0	2.0	96	75-155			
Toluene	24.2	1.0	ug/l	25.0	ND	97	75-135			
Trichloroethene	26.8	1.0	ug/l	25.0	3.3	94	75-130			
Vinyl chloride	19.9	0.50	ug/l	25.0	ND	80	40-190			
o-Xylene	26.1	1.0	ug/l	25.0	2.7	94	75-150			
m,p-Xylenes	50.2	1.0	ug/l	50.0	3.4	94	70-140			
Surrogate: Dibromofluoromethane	*24.5*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*24.8*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*		*ug/l*	*25.0*		*94*	*80-120*			
Matrix Spike Dup Analyzed: 08/28/02 (I2H2836-MSD1)					**Source: ILH1307-02**					
Benzene	24.7	0.50	ug/l	25.0	ND	99	70-140	1	20	
Bromodichloromethane	23.8	1.0	ug/l	25.0	ND	95	75-145	2	20	
Bromoform	22.4	1.0	ug/l	25.0	ND	90	55-150	7	40	
Chlorobenzene	25.2	1.0	ug/l	25.0	ND	101	75-130	5	20	
Chloroform	24.2	1.0	ug/l	25.0	ND	97	75-150	0	20	
Dibromochloromethane	25.1	1.0	ug/l	25.0	ND	100	70-145	6	20	
1,4-Dichlorobenzene	24.6	1.0	ug/l	25.0	ND	98	75-125	0	20	
1,1-Dichloroethane	24.8	1.0	ug/l	25.0	ND	99	60-130	0	20	
1,2-Dichloroethane	23.4	0.50	ug/l	25.0	0.51	92	65-140	2	20	
1,1-Dichloroethene	25.1	1.0	ug/l	25.0	ND	100	65-165	2	20	
Ethylbenzene	24.4	1.0	ug/l	25.0	ND	98	75-135	2	20	
Methyl-tert-butyl Ether (MTBE)	27.2	1.0	ug/l	25.0	ND	109	65-150	4	20	

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2836 Extracted: 08/28/02										
Matrix Spike Dup Analyzed: 08/28/02 (I2H2836-MSD1)					**Source: ILH1307-02**					
Naphthalene	22.9	1.0	ug/l	25.0	ND	92	50-155	8	30	
Tetrachloroethene	27.0	1.0	ug/l	25.0	2.0	100	75-155	4	20	
Toluene	24.2	1.0	ug/l	25.0	ND	97	75-135	0	20	
Trichloroethene	27.1	1.0	ug/l	25.0	3.3	95	75-130	1	20	
Vinyl chloride	19.4	0.50	ug/l	25.0	ND	78	40-190	3	25	
Xylene	27.2	1.0	ug/l	25.0	2.7	98	75-150	4	20	
m,p-Xylenes	51.1	1.0	ug/l	50.0	3.4	95	70-140	2	20	
Surrogate: Dibromofluoromethane	*24.2*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			

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Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH1043

Sampled: 08/21/02-08/22/02
Received: 08/22/02

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2707 Extracted: 08/27/02										
Blank Analyzed: 08/27/02 (I2H2707-BLK1)										
Tentatively Identified Compounds	ND	25	ug/l							
1,2-Dichloro-1,1,2-trifluoroethane	ND	25	ug/l							
Batch: I2H2801 Extracted: 08/28/02										
Blank Analyzed: 08/28/02 (I2H2801-BLK1)										
Tentatively Identified Compounds	ND	200	ug/l							
IPA	ND	200	ug/l							

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Patty Mata
Project Manager

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Camp, Dresser & McKee
8581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

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DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For TICs:

All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library.

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LABORATORY REPORT

Prepared For: Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project: Omega Chemical
10500-30697

Sampled: 08/20/02-08/21/02
Received: 08/21/02
Issued: 09/19/02

CA ELAP Certificate #1197

AZ DHS License #AZ0428

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CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 7°C, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
EPA 8260B Calibration Verification recovery of 1,2,3-Trichloropropane was above the method control limit. Analyte was not detected in the associated samples (ILH0947-01, -02, -06 and -08), data was not impacted.
EPA 8260B MS/MSD recoveries of Ethylbenzene, m,p-Xylenes and o-Xylene could not be reported for QC batch I2H2704. The sample used for the MS/MSD had relatively high concentrations of these compounds which exceeded the instrument linear range. Benzene MS/MSD recoveries in this same batch did not provide useful information due to the relatively high sample concentration as compared to the spike value. The batch was controlled by the LCS recoveries of the affected compounds.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Weck Laboratories performed the EPA 8270Mod. 1,4-Dioxane analysis.

LABORATORY ID	CLIENT ID	MATRIX
ILH0947-01	OC-GW-OW1N-082002	Water
ILH0947-02	OC-GW-OW1-082002	Water
ILH0947-03	OC-GW-OW1B-082002	Water
ILH0947-04	OC-GW-OW3-082002	Water
ILH0947-05	OC-GW-OW2-082102	Water
ILH0947-06	OC-GW-OW7-082102	Water
ILH0947-07	OC-GW-OW6-082102	Water
ILH0947-08	OC-GW-OW4a-082102	Water

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Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-01 (OC-GW-OW1N-082002 - Water)				**Sampled: 08/20/02**				
Acetone	EPA 8260B	I2H2609	10	ND	1	8/26/2002	8/26/2002	
Benzene	EPA 8260B	I2H2609	0.50	ND	1	8/26/2002	8/26/2002	
Bromobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Bromochloromethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Bromodichloromethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Bromoform	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Bromomethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
n-Butylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
sec-Butylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
tert-Butylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Carbon tetrachloride	EPA 8260B	I2H2609	0.50	ND	1	8/26/2002	8/26/2002	
Chlorobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Chloroethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Chloroform	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Chloromethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
2-Chlorotoluene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
4-Chlorotoluene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Dibromochloromethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,2-Dibromo-3-chloropropane	EPA 8260B	I2H2609	5.0	ND	1	8/26/2002	8/26/2002	
1,2-Dibromoethane (EDB)	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Dibromomethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,2-Dichlorobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,3-Dichlorobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,4-Dichlorobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Dichlorodifluoromethane	EPA 8260B	I2H2609	5.0	ND	1	8/26/2002	8/26/2002	
1,1-Dichloroethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,2-Dichloroethane	EPA 8260B	I2H2609	0.50	ND	1	8/26/2002	8/26/2002	
1,1-Dichloroethene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
cis-1,2-Dichloroethene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
trans-1,2-Dichloroethene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,2-Dichloropropane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,3-Dichloropropane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
2,2-Dichloropropane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,1-Dichloropropene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
cis-1,3-Dichloropropene	EPA 8260B	I2H2609	0.50	ND	1	8/26/2002	8/26/2002	
trans-1,3-Dichloropropene	EPA 8260B	I2H2609	0.50	ND	1	8/26/2002	8/26/2002	
Ethylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Hexachlorobutadiene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Isopropylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
p-Isopropyltoluene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Methylene chloride	EPA 8260B	I2H2609	5.0	ND	1	8/26/2002	8/26/2002	

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Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-01 (OC-GW-OW1N-082002 - Water)				**Sampled: 08/20/02**				
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Naphthalene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
n-Propylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Styrene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,1,1,2-Tetrachloroethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,1,2,2-Tetrachloroethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Tetrachloroethene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Toluene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,2,3-Trichlorobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,2,4-Trichlorobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,1,1-Trichloroethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,1,2-Trichloroethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Trichloroethene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Trichlorofluoromethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	I2H2609	5.0	ND	1	8/26/2002	8/26/2002	
1,2,3-Trichloropropane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	C
1,2,4-Trimethylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,3,5-Trimethylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Vinyl chloride	EPA 8260B	I2H2609	0.50	ND	1	8/26/2002	8/26/2002	
o-Xylene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
m,p-Xylenes	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Surrogate: Dibromofluoromethane (80-120%)				*109 %*				
Surrogate: Toluene-d8 (80-120%)				*90 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*92 %*				

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Received: 08/21/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-02 (OC-GW-OW1-082002 - Water)				**Sampled: 08/20/02**				
Acetone	EPA 8260B	I2H2609	2000	ND	200	8/26/2002	8/26/2002	
Benzene	EPA 8260B	I2H2609	100	ND	200	8/26/2002	8/26/2002	
Bromobenzene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Bromochloromethane	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Bromodichloromethane	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Bromoform	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Bromomethane	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
n-Butylbenzene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
sec-Butylbenzene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
tert-Butylbenzene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Carbon tetrachloride	EPA 8260B	I2H2609	100	ND	200	8/26/2002	8/26/2002	
Chlorobenzene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Chloroethane	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Chloroform	EPA 8260B	I2H2609	200	**320**	200	8/26/2002	8/26/2002	
Chloromethane	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
2-Chlorotoluene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
4-Chlorotoluene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Dibromochloromethane	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
1,2-Dibromo-3-chloropropane	EPA 8260B	I2H2609	1000	ND	200	8/26/2002	8/26/2002	
1,2-Dibromoethane (EDB)	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Dibromomethane	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
1,2-Dichlorobenzene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
1,3-Dichlorobenzene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
1,4-Dichlorobenzene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Dichlorodifluoromethane	EPA 8260B	I2H2609	1000	ND	200	8/26/2002	8/26/2002	
1,1-Dichloroethane	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
1,2-Dichloroethane	EPA 8260B	I2H2609	100	ND	200	8/26/2002	8/26/2002	
1,1-Dichloroethene	EPA 8260B	I2H2609	200	**1300**	200	8/26/2002	8/26/2002	
cis-1,2-Dichloroethene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
trans-1,2-Dichloroethene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
1,2-Dichloropropane	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
1,3-Dichloropropane	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
2,2-Dichloropropane	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
1,1-Dichloropropene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
cis-1,3-Dichloropropene	EPA 8260B	I2H2609	100	ND	200	8/26/2002	8/26/2002	
trans-1,3-Dichloropropene	EPA 8260B	I2H2609	100	ND	200	8/26/2002	8/26/2002	
Ethylbenzene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Hexachlorobutadiene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Isopropylbenzene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
p-Isopropyltoluene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Methylene chloride	EPA 8260B	I2H2609	1000	ND	200	8/26/2002	8/26/2002	

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Project ID: Omega Chemical
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Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-02 (OC-GW-OW1-082002 - Water)				**Sampled: 08/20/02**				
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Naphthalene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
n-Propylbenzene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Styrene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
1,1,1,2-Tetrachloroethane	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
1,1,2,2-Tetrachloroethane	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Toluene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
1,2,3-Trichlorobenzene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
1,2,4-Trichlorobenzene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
1,1,1-Trichloroethane	EPA 8260B	I2H2609	200	**3100**	200	8/26/2002	8/26/2002	
1,1,2-Trichloroethane	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Trichloroethene	EPA 8260B	I2H2609	200	**1900**	200	8/26/2002	8/26/2002	
Trichlorofluoromethane	EPA 8260B	I2H2609	200	**600**	200	8/26/2002	8/26/2002	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	I2H2609	1000	**1100**	200	8/26/2002	8/26/2002	
1,2,3-Trichloropropane	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	C
1,2,4-Trimethylbenzene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
1,3,5-Trimethylbenzene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Vinyl chloride	EPA 8260B	I2H2609	100	ND	200	8/26/2002	8/26/2002	
o-Xylene	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
m,p-Xylenes	EPA 8260B	I2H2609	200	ND	200	8/26/2002	8/26/2002	
Surrogate: Dibromofluoromethane (80-120%)				*110 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*92 %*				

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Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-02RE1 (OC-GW-OW1-082002 - Water)				**Sampled: 08/20/02**				
Tetrachloroethene	EPA 8260B	I2H2704	400	**42000**	400	8/27/2002	8/27/2002	
Surrogate: Dibromofluoromethane (80-120%)				*99 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*92 %*				

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Received: 08/21/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-03 (OC-GW-OW1B-082002 - Water)				**Sampled: 08/20/02**				
Acetone	EPA 8260B	I2H2701	10	ND	1	8/27/2002	8/27/2002	
Benzene	EPA 8260B	I2H2701	0.50	**0.55**	1	8/27/2002	8/27/2002	
Bromobenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Bromochloromethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Bromodichloromethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Bromoform	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Bromomethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
n-Butylbenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
sec-Butylbenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
tert-Butylbenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Carbon tetrachloride	EPA 8260B	I2H2701	0.50	ND	1	8/27/2002	8/27/2002	
Chlorobenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Chloroethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Chloroform	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Chloromethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
2-Chlorotoluene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
4-Chlorotoluene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Dibromochloromethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,2-Dibromo-3-chloropropane	EPA 8260B	I2H2701	5.0	ND	1	8/27/2002	8/27/2002	
1,2-Dibromoethane (EDB)	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Dibromomethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,2-Dichlorobenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,3-Dichlorobenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,4-Dichlorobenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Dichlorodifluoromethane	EPA 8260B	I2H2701	5.0	ND	1	8/27/2002	8/27/2002	
1,1-Dichloroethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,2-Dichloroethane	EPA 8260B	I2H2701	0.50	**0.76**	1	8/27/2002	8/27/2002	
1,1-Dichloroethene	EPA 8260B	I2H2701	1.0	**1.1**	1	8/27/2002	8/27/2002	
cis-1,2-Dichloroethene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
trans-1,2-Dichloroethene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,2-Dichloropropane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,3-Dichloropropane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
2,2-Dichloropropane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,1-Dichloropropene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
cis-1,3-Dichloropropene	EPA 8260B	I2H2701	0.50	ND	1	8/27/2002	8/27/2002	
trans-1,3-Dichloropropene	EPA 8260B	I2H2701	0.50	ND	1	8/27/2002	8/27/2002	
Ethylbenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Hexachlorobutadiene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Isopropylbenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
p-Isopropyltoluene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Methylene chloride	EPA 8260B	I2H2701	5.0	ND	1	8/27/2002	8/27/2002	

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Project ID: Omega Chemical
10500-30697
Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-03 (OC-GW-OW1B-082002 - Water)				**Sampled: 08/20/02**				
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Naphthalene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
n-Propylbenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Styrene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,1,1,2-Tetrachloroethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,1,2,2-Tetrachloroethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Tetrachloroethene	EPA 8260B	I2H2701	1.0	**41**	1	8/27/2002	8/27/2002	
Toluene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,2,3-Trichlorobenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,2,4-Trichlorobenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,1,1-Trichloroethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,1,2-Trichloroethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Trichloroethene	EPA 8260B	I2H2701	1.0	**1.4**	1	8/27/2002	8/27/2002	
Trichlorofluoromethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	I2H2701	5.0	ND	1	8/27/2002	8/27/2002	
1,2,3-Trichloropropane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,2,4-Trimethylbenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,3,5-Trimethylbenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Vinyl chloride	EPA 8260B	I2H2701	0.50	ND	1	8/27/2002	8/27/2002	
o-Xylene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
m,p-Xylenes	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Surrogate: Dibromofluoromethane (80-120%)				*114 %*				
Surrogate: Toluene-d8 (80-120%)				*109 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*112 %*				

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-04 (OC-GW-OW3-082002 - Water)				**Sampled: 08/20/02**				
1,1-Dichloroethene	EPA 8260B	I2H2609	2.0	**130**	2	8/26/2002	8/27/2002	
Tetrachloroethene	EPA 8260B	I2H2609	2.0	**200**	2	8/26/2002	8/27/2002	
Surrogate: Dibromofluoromethane (80-120%)				*113 %*				
Surrogate: Toluene-d8 (80-120%)				*96 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*92 %*				

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Received: 08/21/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-04RE1 (OC-GW-OW3-082002 - Water)				**Sampled: 08/20/02**				
Acetone	EPA 8260B	I2H2701	40	ND	4	8/27/2002	8/27/2002	
Benzene	EPA 8260B	I2H2701	2.0	ND	4	8/27/2002	8/27/2002	
Bromobenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Bromochloromethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Bromodichloromethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Bromoform	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Bromomethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
n-Butylbenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
sec-Butylbenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
tert-Butylbenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Carbon tetrachloride	EPA 8260B	I2H2701	2.0	ND	4	8/27/2002	8/27/2002	
Chlorobenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Chloroethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Chloroform	EPA 8260B	I2H2701	4.0	**7.4**	4	8/27/2002	8/27/2002	
Chloromethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
2-Chlorotoluene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
4-Chlorotoluene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Dibromochloromethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,2-Dibromo-3-chloropropane	EPA 8260B	I2H2701	20	ND	4	8/27/2002	8/27/2002	
1,2-Dibromoethane (EDB)	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Dibromomethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,2-Dichlorobenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,3-Dichlorobenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,4-Dichlorobenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Dichlorodifluoromethane	EPA 8260B	I2H2701	20	ND	4	8/27/2002	8/27/2002	
1,1-Dichloroethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,2-Dichloroethane	EPA 8260B	I2H2701	2.0	ND	4	8/27/2002	8/27/2002	
cis-1,2-Dichloroethene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
trans-1,2-Dichloroethene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,2-Dichloropropane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,3-Dichloropropane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
2,2-Dichloropropane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,1-Dichloropropene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
cis-1,3-Dichloropropene	EPA 8260B	I2H2701	2.0	ND	4	8/27/2002	8/27/2002	
trans-1,3-Dichloropropene	EPA 8260B	I2H2701	2.0	ND	4	8/27/2002	8/27/2002	
Ethylbenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Hexachlorobutadiene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Isopropylbenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
p-Isopropyltoluene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Methylene chloride	EPA 8260B	I2H2701	20	ND	4	8/27/2002	8/27/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	

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Sampled: 08/20/02-08/21/02
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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-04RE1 (OC-GW-OW3-082002 - Water)				**Sampled: 08/20/02**				
Naphthalene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
n-Propylbenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Styrene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,1,1,2-Tetrachloroethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,1,2,2-Tetrachloroethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Toluene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,2,3-Trichlorobenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,2,4-Trichlorobenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,1,1-Trichloroethane	EPA 8260B	I2H2701	4.0	**12**	4	8/27/2002	8/27/2002	
1,1,2-Trichloroethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Trichloroethene	EPA 8260B	I2H2701	4.0	**160**	4	8/27/2002	8/27/2002	
Trichlorofluoromethane	EPA 8260B	I2H2701	4.0	**230**	4	8/27/2002	8/27/2002	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	I2H2701	20	**360**	4	8/27/2002	8/27/2002	
1,2,3-Trichloropropane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,2,4-Trimethylbenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,3,5-Trimethylbenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Vinyl chloride	EPA 8260B	I2H2701	2.0	ND	4	8/27/2002	8/27/2002	
o-Xylene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
m,p-Xylenes	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Surrogate: Dibromofluoromethane (80-120%)				*111 %*				
Surrogate: Toluene-d8 (80-120%)				*108 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*112 %*				

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Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-05 (OC-GW-OW2-082102 - Water)				**Sampled: 08/21/02**				
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	I2H2609	50	**1400**	10	8/26/2002	8/27/2002	
Surrogate: Dibromofluoromethane (80-120%)				*115 %*				
Surrogate: Toluene-d8 (80-120%)				*96 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*91 %*				

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Sampled: 08/20/02-08/21/02
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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-05RE1 (OC-GW-OW2-082102 - Water)				**Sampled: 08/21/02**				
Acetone	EPA 8260B	I2H2701	40	ND	4	8/27/2002	8/27/2002	
Benzene	EPA 8260B	I2H2701	2.0	ND	4	8/27/2002	8/27/2002	
Bromobenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Bromochloromethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Bromodichloromethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Bromoform	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Bromomethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
n-Butylbenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
sec-Butylbenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
tert-Butylbenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Carbon tetrachloride	EPA 8260B	I2H2701	2.0	ND	4	8/27/2002	8/27/2002	
Chlorobenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Chloroethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Chloroform	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Chloromethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
2-Chlorotoluene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
4-Chlorotoluene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Dibromochloromethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,2-Dibromo-3-chloropropane	EPA 8260B	I2H2701	20	ND	4	8/27/2002	8/27/2002	
1,2-Dibromoethane (EDB)	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Dibromomethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,2-Dichlorobenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,3-Dichlorobenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,4-Dichlorobenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Dichlorodifluoromethane	EPA 8260B	I2H2701	20	ND	4	8/27/2002	8/27/2002	
1,1-Dichloroethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,2-Dichloroethane	EPA 8260B	I2H2701	2.0	ND	4	8/27/2002	8/27/2002	
1,1-Dichloroethene	EPA 8260B	I2H2701	4.0	**350**	4	8/27/2002	8/27/2002	
cis-1,2-Dichloroethene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
trans-1,2-Dichloroethene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,2-Dichloropropane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,3-Dichloropropane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
2,2-Dichloropropane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,1-Dichloropropene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
cis-1,3-Dichloropropene	EPA 8260B	I2H2701	2.0	ND	4	8/27/2002	8/27/2002	
trans-1,3-Dichloropropene	EPA 8260B	I2H2701	2.0	ND	4	8/27/2002	8/27/2002	
Ethylbenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Hexachlorobutadiene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Isopropylbenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
p-Isopropyltoluene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Methylene chloride	EPA 8260B	I2H2701	20	ND	4	8/27/2002	8/27/2002	

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Project ID: Omega Chemical
10500-30697
Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-05RE1 (OC-GW-OW2-082102 - Water)				**Sampled: 08/21/02**				
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Naphthalene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
n-Propylbenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Styrene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,1,1,2-Tetrachloroethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,1,2,2-Tetrachloroethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Tetrachloroethene	EPA 8260B	I2H2701	4.0	**610**	4	8/27/2002	8/27/2002	
Toluene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,2,3-Trichlorobenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,2,4-Trichlorobenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,1,1-Trichloroethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,1,2-Trichloroethane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Trichloroethene	EPA 8260B	I2H2701	4.0	**120**	4	8/27/2002	8/27/2002	
Trichlorofluoromethane	EPA 8260B	I2H2701	4.0	**310**	4	8/27/2002	8/27/2002	
1,2,3-Trichloropropane	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,2,4-Trimethylbenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
1,3,5-Trimethylbenzene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Vinyl chloride	EPA 8260B	I2H2701	2.0	ND	4	8/27/2002	8/27/2002	
o-Xylene	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
m,p-Xylenes	EPA 8260B	I2H2701	4.0	ND	4	8/27/2002	8/27/2002	
Surrogate: Dibromofluoromethane (80-120%)				*105 %*				
Surrogate: Toluene-d8 (80-120%)				*107 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*110 %*				

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Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-06 (OC-GW-OW7-082102 - Water)				**Sampled: 08/21/02**				
Acetone	EPA 8260B	I2H2609	10	ND	1	8/26/2002	8/26/2002	
Benzene	EPA 8260B	I2H2609	0.50	ND	1	8/26/2002	8/26/2002	
Bromobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Bromochloromethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Bromodichloromethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Bromoform	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Bromomethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
n-Butylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
sec-Butylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
tert-Butylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Carbon tetrachloride	EPA 8260B	I2H2609	0.50	ND	1	8/26/2002	8/26/2002	
Chlorobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Chloroethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Chloroform	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Chloromethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
2-Chlorotoluene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
4-Chlorotoluene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Dibromochloromethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,2-Dibromo-3-chloropropane	EPA 8260B	I2H2609	5.0	ND	1	8/26/2002	8/26/2002	
1,2-Dibromoethane (EDB)	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Dibromomethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,2-Dichlorobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,3-Dichlorobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,4-Dichlorobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Dichlorodifluoromethane	EPA 8260B	I2H2609	5.0	ND	1	8/26/2002	8/26/2002	
1,1-Dichloroethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,2-Dichloroethane	EPA 8260B	I2H2609	0.50	ND	1	8/26/2002	8/26/2002	
1,1-Dichloroethene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
cis-1,2-Dichloroethene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
trans-1,2-Dichloroethene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,2-Dichloropropane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,3-Dichloropropane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
2,2-Dichloropropane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,1-Dichloropropene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
cis-1,3-Dichloropropene	EPA 8260B	I2H2609	0.50	ND	1	8/26/2002	8/26/2002	
trans-1,3-Dichloropropene	EPA 8260B	I2H2609	0.50	ND	1	8/26/2002	8/26/2002	
Ethylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Hexachlorobutadiene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Isopropylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
p-Isopropyltoluene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Methylene chloride	EPA 8260B	I2H2609	5.0	ND	1	8/26/2002	8/26/2002	

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Sampled: 08/20/02-08/21/02
Received: 08/21/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-06 (OC-GW-OW7-082102 - Water)				**Sampled: 08/21/02**				
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Naphthalene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
n-Propylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Styrene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,1,1,2-Tetrachloroethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,1,2,2-Tetrachloroethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Tetrachloroethene	EPA 8260B	I2H2609	1.0	**8.2**	1	8/26/2002	8/26/2002	
Toluene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,2,3-Trichlorobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,2,4-Trichlorobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,1,1-Trichloroethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,1,2-Trichloroethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Trichloroethene	EPA 8260B	I2H2609	1.0	**2.0**	1	8/26/2002	8/26/2002	
Trichlorofluoromethane	EPA 8260B	I2H2609	1.0	**44**	1	8/26/2002	8/26/2002	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	I2H2609	5.0	**51**	1	8/26/2002	8/26/2002	
1,2,3-Trichloropropane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	C
1,2,4-Trimethylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
1,3,5-Trimethylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Vinyl chloride	EPA 8260B	I2H2609	0.50	ND	1	8/26/2002	8/26/2002	
o-Xylene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
m,p-Xylenes	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/26/2002	
Surrogate: Dibromofluoromethane (80-120%)				*109 %*				
Surrogate: Toluene-d8 (80-120%)				*94 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*90 %*				

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Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-07 (OC-GW-OW6-082102 - Water)				**Sampled: 08/21/02**				
Acetone	EPA 8260B	I2H2701	10	ND	1	8/27/2002	8/27/2002	
Benzene	EPA 8260B	I2H2701	0.50	**0.86**	1	8/27/2002	8/27/2002	
Bromobenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Bromochloromethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Bromodichloromethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Bromoform	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Bromomethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
n-Butylbenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
sec-Butylbenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
tert-Butylbenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Carbon tetrachloride	EPA 8260B	I2H2701	0.50	ND	1	8/27/2002	8/27/2002	
Chlorobenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Chloroethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Chloroform	EPA 8260B	I2H2701	1.0	**1.1**	1	8/27/2002	8/27/2002	
Chloromethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
2-Chlorotoluene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
4-Chlorotoluene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Dibromochloromethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,2-Dibromo-3-chloropropane	EPA 8260B	I2H2701	5.0	ND	1	8/27/2002	8/27/2002	
1,2-Dibromoethane (EDB)	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Dibromomethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,2-Dichlorobenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,3-Dichlorobenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,4-Dichlorobenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Dichlorodifluoromethane	EPA 8260B	I2H2701	5.0	ND	1	8/27/2002	8/27/2002	
1,1-Dichloroethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,2-Dichloroethane	EPA 8260B	I2H2701	0.50	ND	1	8/27/2002	8/27/2002	
1,1-Dichloroethene	EPA 8260B	I2H2701	1.0	**35**	1	8/27/2002	8/27/2002	
cis-1,2-Dichloroethene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
trans-1,2-Dichloroethene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,2-Dichloropropane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,3-Dichloropropane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
2,2-Dichloropropane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,1-Dichloropropene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
cis-1,3-Dichloropropene	EPA 8260B	I2H2701	0.50	ND	1	8/27/2002	8/27/2002	
trans-1,3-Dichloropropene	EPA 8260B	I2H2701	0.50	ND	1	8/27/2002	8/27/2002	
Ethylbenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Hexachlorobutadiene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Isopropylbenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
p-Isopropyltoluene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Methylene chloride	EPA 8260B	I2H2701	5.0	ND	1	8/27/2002	8/27/2002	

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Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-07 (OC-GW-OW6-082102 - Water)				**Sampled: 08/21/02**				
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	I2H2701	1.0	**150**	1	8/27/2002	8/27/2002	
Naphthalene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
n-Propylbenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Styrene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,1,1,2-Tetrachloroethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,1,2,2-Tetrachloroethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Tetrachloroethene	EPA 8260B	I2H2701	1.0	**21**	1	8/27/2002	8/27/2002	
Toluene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,2,3-Trichlorobenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,2,4-Trichlorobenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,1,1-Trichloroethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,1,2-Trichloroethane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Trichloroethene	EPA 8260B	I2H2701	1.0	**3.9**	1	8/27/2002	8/27/2002	
Trichlorofluoromethane	EPA 8260B	I2H2701	1.0	**95**	1	8/27/2002	8/27/2002	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	I2H2701	5.0	**140**	1	8/27/2002	8/27/2002	
1,2,3-Trichloropropane	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,2,4-Trimethylbenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
1,3,5-Trimethylbenzene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Vinyl chloride	EPA 8260B	I2H2701	0.50	ND	1	8/27/2002	8/27/2002	
o-Xylene	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
m,p-Xylenes	EPA 8260B	I2H2701	1.0	ND	1	8/27/2002	8/27/2002	
Surrogate: Dibromofluoromethane (80-120%)				*113 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*112 %*				

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Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH0947

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Received: 08/21/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-08 (OC-GW-OW4a-082102 - Water)				**Sampled: 08/21/02**				
Acetone	EPA 8260B	I2H2609	10	ND	1	8/26/2002	8/27/2002	
Benzene	EPA 8260B	I2H2609	0.50	ND	1	8/26/2002	8/27/2002	
Bromobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Bromochloromethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Bromodichloromethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Bromoform	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Bromomethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
n-Butylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
sec-Butylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
tert-Butylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Carbon tetrachloride	EPA 8260B	I2H2609	0.50	ND	1	8/26/2002	8/27/2002	
Chlorobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Chloroethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Chloroform	EPA 8260B	I2H2609	1.0	**37**	1	8/26/2002	8/27/2002	
Chloromethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
2-Chlorotoluene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
4-Chlorotoluene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Dibromochloromethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
1,2-Dibromo-3-chloropropane	EPA 8260B	I2H2609	5.0	ND	1	8/26/2002	8/27/2002	
1,2-Dibromoethane (EDB)	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Dibromomethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
1,2-Dichlorobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
1,3-Dichlorobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
1,4-Dichlorobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Dichlorodifluoromethane	EPA 8260B	I2H2609	5.0	ND	1	8/26/2002	8/27/2002	
1,1-Dichloroethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
1,2-Dichloroethane	EPA 8260B	I2H2609	0.50	ND	1	8/26/2002	8/27/2002	
1,1-Dichloroethene	EPA 8260B	I2H2609	1.0	**120**	1	8/26/2002	8/27/2002	
cis-1,2-Dichloroethene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
trans-1,2-Dichloroethene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
1,2-Dichloropropane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
1,3-Dichloropropane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
2,2-Dichloropropane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
1,1-Dichloropropene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
cis-1,3-Dichloropropene	EPA 8260B	I2H2609	0.50	ND	1	8/26/2002	8/27/2002	
trans-1,3-Dichloropropene	EPA 8260B	I2H2609	0.50	ND	1	8/26/2002	8/27/2002	
Ethylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Hexachlorobutadiene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Isopropylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
p-Isopropyltoluene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Methylene chloride	EPA 8260B	I2H2609	5.0	ND	1	8/26/2002	8/27/2002	

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Project ID: Omega Chemical
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Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-08 (OC-GW-OW4a-082102 - Water)				**Sampled: 08/21/02**				
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Naphthalene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
n-Propylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Styrene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
1,1,1,2-Tetrachloroethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
1,1,2,2-Tetrachloroethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Tetrachloroethene	EPA 8260B	I2H2609	1.0	**87**	1	8/26/2002	8/27/2002	
Toluene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
1,2,3-Trichlorobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
1,2,4-Trichlorobenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
1,1,1-Trichloroethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
1,1,2-Trichloroethane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Trichloroethene	EPA 8260B	I2H2609	1.0	**50**	1	8/26/2002	8/27/2002	
Trichlorofluoromethane	EPA 8260B	I2H2609	1.0	**44**	1	8/26/2002	8/27/2002	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	I2H2609	5.0	**88**	1	8/26/2002	8/27/2002	
1,2,3-Trichloropropane	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	C
1,2,4-Trimethylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
1,3,5-Trimethylbenzene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Vinyl chloride	EPA 8260B	I2H2609	0.50	ND	1	8/26/2002	8/27/2002	
o-Xylene	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
m,p-Xylenes	EPA 8260B	I2H2609	1.0	ND	1	8/26/2002	8/27/2002	
Surrogate: Dibromofluoromethane (80-120%)				*114 %*				
Surrogate: Toluene-d8 (80-120%)				*94 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*92 %*				

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Received: 08/21/02

PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: ILH0947-01 (OC-GW-OW1N-082002 - Water)				**Sampled: 08/20/02**				
Tentatively Identified Compounds	EPA 8260B	I2H2609	25	ND	1	8/26/2002	8/26/2002	
Sample ID: ILH0947-02 (OC-GW-OW1-082002 - Water)				**Sampled: 08/20/02**				
Tentatively Identified Compounds	EPA 8260B	I2H2609	5000	ND	200	8/26/2002	8/26/2002	
Sample ID: ILH0947-03 (OC-GW-OW1B-082002 - Water)				**Sampled: 08/20/02**				
Tentatively Identified Compounds	EPA 8260B	I2H2701	25	ND	1	8/27/2002	8/27/2002	
Sample ID: ILH0947-04 (OC-GW-OW3-082002 - Water)				**Sampled: 08/20/02**				
Tentatively Identified Compounds	EPA 8260B	I2H2701	100	ND	4	8/27/2002	8/27/2002	
Sample ID: ILH0947-05 (OC-GW-OW2-082102 - Water)				**Sampled: 08/21/02**				
Tentatively Identified Compounds	EPA 8260B	I2H2701	100	ND	4	8/27/2002	8/27/2002	
Sample ID: ILH0947-06 (OC-GW-OW7-082102 - Water)				**Sampled: 08/21/02**				
Tentatively Identified Compounds	EPA 8260B	I2H2609	25	ND	1	8/26/2002	8/26/2002	
Sample ID: ILH0947-07 (OC-GW-OW6-082102 - Water)				**Sampled: 08/21/02**				
Tentatively Identified Compounds	EPA 8260B	I2H2701	25	ND	1	8/27/2002	8/27/2002	
Sample ID: ILH0947-08 (OC-GW-OW4a-082102 - Water)				**Sampled: 08/21/02**				
Tentatively Identified Compounds	EPA 8260B	I2H2609	25	ND	1	8/26/2002	8/27/2002	

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Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2609 Extracted: 08/26/02										
Blank Analyzed: 08/26/02 (I2H2609-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2609 Extracted: 08/26/02										
Blank Analyzed: 08/26/02 (I2H2609-BLK1)										
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*27.5*		*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*23.6*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.0*		*ug/l*	*25.0*		*92*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2609 Extracted: 08/26/02										
LCS Analyzed: 08/26/02 (I2H2609-BS1)										
Acetone	26.3	10	ug/l	25.0		105	35-165			
Benzene	25.6	0.50	ug/l	25.0		102	75-130			
Bromobenzene	26.9	1.0	ug/l	25.0		108	75-130			
Bromochloromethane	31.2	1.0	ug/l	25.0		125	70-140			
Bromodichloromethane	27.3	1.0	ug/l	25.0		109	75-135			
Bromoform	26.0	1.0	ug/l	25.0		104	55-150			
Bromomethane	28.1	1.0	ug/l	25.0		112	65-140			
n-Butylbenzene	25.4	1.0	ug/l	25.0		102	75-130			
sec-Butylbenzene	25.9	1.0	ug/l	25.0		104	70-130			
tert-Butylbenzene	26.3	1.0	ug/l	25.0		105	75-130			
Carbon tetrachloride	30.3	0.50	ug/l	25.0		121	70-160			
Chlorobenzene	27.8	1.0	ug/l	25.0		111	75-130			
Chloroethane	27.9	1.0	ug/l	25.0		112	65-135			
Chloroform	28.8	1.0	ug/l	25.0		115	75-130			
Chloromethane	22.7	1.0	ug/l	25.0		91	40-130			
2-Chlorotoluene	24.7	1.0	ug/l	25.0		99	75-130			
4-Chlorotoluene	25.1	1.0	ug/l	25.0		100	70-130			
Dibromochloromethane	29.3	1.0	ug/l	25.0		117	70-130			
1,2-Dibromo-3-chloropropane	26.7	5.0	ug/l	25.0		107	70-130			
1,2-Dibromoethane (EDB)	29.8	1.0	ug/l	25.0		119	70-130			
Dibromomethane	28.7	1.0	ug/l	25.0		115	65-135			
1,2-Dichlorobenzene	27.2	1.0	ug/l	25.0		109	75-130			
1,3-Dichlorobenzene	26.1	1.0	ug/l	25.0		104	75-130			
1,4-Dichlorobenzene	26.4	1.0	ug/l	25.0		106	75-125			
Dichlorodifluoromethane	24.9	5.0	ug/l	25.0		100	10-140			
1,1-Dichloroethane	26.2	1.0	ug/l	25.0		105	60-130			
1,2-Dichloroethane	28.0	0.50	ug/l	25.0		112	65-140			
1,1-Dichloroethene	26.0	1.0	ug/l	25.0		104	70-145			
cis-1,2-Dichloroethene	25.5	1.0	ug/l	25.0		102	65-120			
trans-1,2-Dichloroethene	25.7	1.0	ug/l	25.0		103	75-140			
1,2-Dichloropropane	24.5	1.0	ug/l	25.0		98	75-130			
1,3-Dichloropropane	27.5	1.0	ug/l	25.0		110	65-140			
2,2-Dichloropropane	26.5	1.0	ug/l	25.0		106	75-150			
1,1-Dichloropropene	27.0	1.0	ug/l	25.0		108	75-140			
cis-1,3-Dichloropropene	26.5	0.50	ug/l	25.0		106	65-135			
trans-1,3-Dichloropropene	26.6	0.50	ug/l	25.0		106	65-140			

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10500-30697
Report Number: ILH0947

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Received: 08/21/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2609 Extracted: 08/26/02										
LCS Analyzed: 08/26/02 (I2H2609-BS1)										
Ethylbenzene	25.3	1.0	ug/l	25.0		101	75-135			
Hexachlorobutadiene	25.9	1.0	ug/l	25.0		104	75-150			
Isopropylbenzene	26.7	1.0	ug/l	25.0		107	70-130			
p-Isopropyltoluene	25.8	1.0	ug/l	25.0		103	75-130			
Methylene chloride	26.1	5.0	ug/l	25.0		104	70-125			
Methyl-tert-butyl Ether (MTBE)	29.6	1.0	ug/l	25.0		118	65-135			
Naphthalene	29.1	1.0	ug/l	25.0		116	50-145			
n-Propylbenzene	25.6	1.0	ug/l	25.0		102	70-130			
Styrene	27.6	1.0	ug/l	25.0		110	75-140			
1,1,1,2-Tetrachloroethane	28.2	1.0	ug/l	25.0		113	75-135			
1,1,2,2-Tetrachloroethane	27.8	1.0	ug/l	25.0		111	60-130			
Tetrachloroethene	27.9	1.0	ug/l	25.0		112	75-130			
Toluene	25.1	1.0	ug/l	25.0		100	75-130			
1,2,3-Trichlorobenzene	27.7	1.0	ug/l	25.0		111	50-140			
1,2,4-Trichlorobenzene	27.6	1.0	ug/l	25.0		110	80-140			
1,1,1-Trichloroethane	28.0	1.0	ug/l	25.0		112	75-140			
1,1,2-Trichloroethane	27.4	1.0	ug/l	25.0		110	65-130			
Trichloroethene	29.1	1.0	ug/l	25.0		116	75-130			
Trichlorofluoromethane	32.6	1.0	ug/l	25.0		130	55-145			
1,2,3-Trichloropropane	28.0	1.0	ug/l	25.0		112	60-140			
1,2,4-Trimethylbenzene	25.2	1.0	ug/l	25.0		101	80-130			
1,3,5-Trimethylbenzene	26.7	1.0	ug/l	25.0		107	80-135			
Vinyl chloride	27.1	0.50	ug/l	25.0		108	45-140			
o-Xylene	26.3	1.0	ug/l	25.0		105	75-130			
m,p-Xylenes	53.2	1.0	ug/l	50.0		106	75-135			
Surrogate: Dibromofluoromethane	*28.0*		*ug/l*	*25.0*		*112*	*80-120*			
Surrogate: Toluene-d8	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.7*		*ug/l*	*25.0*		*95*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2609 Extracted: 08/26/02										
Matrix Spike Analyzed: 08/26/02 (I2H2609-MS1)					**Source: ILH0947-06**					
Benzene	26.7	0.50	ug/l	25.0	ND	107	70-140			
Bromodichloromethane	28.0	1.0	ug/l	25.0	ND	112	75-145			
Bromoform	25.0	1.0	ug/l	25.0	ND	100	55-150			
Chlorobenzene	29.6	1.0	ug/l	25.0	ND	118	75-130			
Chloroform	30.1	1.0	ug/l	25.0	ND	120	75-150			
Dibromochloromethane	28.9	1.0	ug/l	25.0	ND	116	70-145			
1,4-Dichlorobenzene	27.8	1.0	ug/l	25.0	ND	111	75-125			
1,1-Dichloroethane	27.6	1.0	ug/l	25.0	ND	110	60-130			
1,2-Dichloroethane	27.5	0.50	ug/l	25.0	ND	110	65-140			
1,1-Dichloroethene	27.2	1.0	ug/l	25.0	ND	106	65-165			
Ethylbenzene	26.3	1.0	ug/l	25.0	ND	105	75-135			
Methyl-tert-butyl Ether (MTBE)	28.2	1.0	ug/l	25.0	ND	113	65-150			
Naphthalene	23.0	1.0	ug/l	25.0	ND	92	50-155			
Tetrachloroethene	37.4	1.0	ug/l	25.0	8.2	117	75-155			
Toluene	25.9	1.0	ug/l	25.0	ND	104	75-135			
Trichloroethene	31.0	1.0	ug/l	25.0	2.0	116	75-130			
Vinyl chloride	27.3	0.50	ug/l	25.0	ND	109	40-190			
o-Xylene	27.1	1.0	ug/l	25.0	ND	108	75-150			
m,p-Xylenes	52.5	1.0	ug/l	50.0	ND	105	70-140			
Surrogate: Dibromofluoromethane	*27.7*		*ug/l*	*25.0*		*111*	*80-120*			
Surrogate: Toluene-d8	*23.4*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.8*		*ug/l*	*25.0*		*95*	*80-120*			
Matrix Spike Dup Analyzed: 08/26/02 (I2H2609-MSD1)					**Source: ILH0947-06**					
Benzene	26.0	0.50	ug/l	25.0	ND	104	70-140	3	20	
Bromodichloromethane	27.9	1.0	ug/l	25.0	ND	112	75-145	0	20	
Bromoform	25.0	1.0	ug/l	25.0	ND	100	55-150	0	40	
Chlorobenzene	28.1	1.0	ug/l	25.0	ND	112	75-130	5	20	
Chloroform	28.8	1.0	ug/l	25.0	ND	115	75-150	4	20	
Dibromochloromethane	28.6	1.0	ug/l	25.0	ND	114	70-145	1	20	
1,4-Dichlorobenzene	26.4	1.0	ug/l	25.0	ND	106	75-125	5	20	
1,1-Dichloroethane	26.4	1.0	ug/l	25.0	ND	106	60-130	4	20	
1,2-Dichloroethane	27.2	0.50	ug/l	25.0	ND	109	65-140	1	20	
1,1-Dichloroethene	25.2	1.0	ug/l	25.0	ND	98	65-165	8	20	
Ethylbenzene	25.1	1.0	ug/l	25.0	ND	100	75-135	5	20	
Methyl-tert-butyl Ether (MTBE)	28.3	1.0	ug/l	25.0	ND	113	65-150	0	20	

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2609 Extracted: 08/26/02										
Matrix Spike Dup Analyzed: 08/26/02 (I2H2609-MSD1)					**Source: ILH0947-06**					
Naphthalene	22.9	1.0	ug/l	25.0	ND	92	50-155	0	30	
Tetrachloroethene	35.9	1.0	ug/l	25.0	8.2	111	75-155	4	20	
Toluene	25.3	1.0	ug/l	25.0	ND	101	75-135	2	20	
Trichloroethene	30.4	1.0	ug/l	25.0	2.0	114	75-130	2	20	
Vinyl chloride	23.8	0.50	ug/l	25.0	ND	95	40-190	14	25	
o-Xylene	25.5	1.0	ug/l	25.0	ND	102	75-150	6	20	
m,p-Xylenes	49.6	1.0	ug/l	50.0	ND	99	70-140	6	20	
Surrogate: Dibromofluoromethane	*27.5*		*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*23.8*		*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.7*		*ug/l*	*25.0*		*95*	*80-120*			
Batch: I2H2701 Extracted: 08/27/02										
Blank Analyzed: 08/27/02 (I2H2701-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							

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Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2701 Extracted: 08/27/02										
Blank Analyzed: 08/27/02 (I2H2701-BLK1)										
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2701 Extracted: 08/27/02										
Blank Analyzed: 08/27/02 (I2H2701-BLK1)										
Vinyl chloride	ND	0.50	ug/l							
Xylene	ND	1.0	ug/l							
p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*28.3*		*ug/l*	*25.0*		*113*	*80-120*			
Surrogate: Toluene-d8	*27.2*		*ug/l*	*25.0*		*109*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*27.9*		*ug/l*	*25.0*		*112*	*80-120*			
LCS Analyzed: 08/27/02 (I2H2701-BS1)										
Acetone	20.8	10	ug/l	25.0		83	35-165			
Benzene	26.2	0.50	ug/l	25.0		105	75-130			
Bromobenzene	25.8	1.0	ug/l	25.0		103	75-130			
Bromochloromethane	27.5	1.0	ug/l	25.0		110	70-140			
Bromodichloromethane	25.7	1.0	ug/l	25.0		103	75-135			
Bromoform	24.4	1.0	ug/l	25.0		98	55-150			
Bromomethane	25.6	1.0	ug/l	25.0		102	65-140			
n-Butylbenzene	25.1	1.0	ug/l	25.0		100	75-130			
sec-Butylbenzene	23.8	1.0	ug/l	25.0		95	70-130			
tert-Butylbenzene	24.7	1.0	ug/l	25.0		99	75-130			
Carbon tetrachloride	25.0	0.50	ug/l	25.0		100	70-160			
Chlorobenzene	26.4	1.0	ug/l	25.0		106	75-130			
Chloroethane	26.3	1.0	ug/l	25.0		105	65-135			
Chloroform	26.9	1.0	ug/l	25.0		108	75-130			
Chloromethane	23.5	1.0	ug/l	25.0		94	40-130			
2-Chlorotoluene	25.0	1.0	ug/l	25.0		100	75-130			
4-Chlorotoluene	25.6	1.0	ug/l	25.0		102	70-130			
Dibromochloromethane	24.4	1.0	ug/l	25.0		98	70-130			
1,2-Dibromo-3-chloropropane	25.2	5.0	ug/l	25.0		101	70-130			
1,2-Dibromoethane (EDB)	27.1	1.0	ug/l	25.0		108	70-130			
Dibromomethane	27.5	1.0	ug/l	25.0		110	65-135			
1,2-Dichlorobenzene	25.1	1.0	ug/l	25.0		100	75-130			
1,3-Dichlorobenzene	25.7	1.0	ug/l	25.0		103	75-130			
1,4-Dichlorobenzene	25.5	1.0	ug/l	25.0		102	75-125			
Dichlorodifluoromethane	21.1	5.0	ug/l	25.0		84	10-140			
1,1-Dichloroethane	27.4	1.0	ug/l	25.0		110	60-130			
1,2-Dichloroethane	26.3	0.50	ug/l	25.0		105	65-140			
1,1-Dichloroethene	28.0	1.0	ug/l	25.0		112	70-145			

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Camp, Dresser & McKee
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Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2701 Extracted: 08/27/02										
LCS Analyzed: 08/27/02 (I2H2701-BS1)										
cis-1,2-Dichloroethene	26.1	1.0	ug/l	25.0		104	65-120			
trans-1,2-Dichloroethene	27.4	1.0	ug/l	25.0		110	75-140			
1,2-Dichloropropane	26.4	1.0	ug/l	25.0		106	75-130			
1,3-Dichloropropane	27.4	1.0	ug/l	25.0		110	65-140			
2,2-Dichloropropane	26.4	1.0	ug/l	25.0		106	75-150			
1,1-Dichloropropene	26.8	1.0	ug/l	25.0		107	75-140			
cis-1,3-Dichloropropene	27.0	0.50	ug/l	25.0		108	65-135			
trans-1,3-Dichloropropene	26.7	0.50	ug/l	25.0		107	65-140			
Ethylbenzene	25.1	1.0	ug/l	25.0		100	75-135			
Hexachlorobutadiene	23.9	1.0	ug/l	25.0		96	75-150			
Isopropylbenzene	25.4	1.0	ug/l	25.0		102	70-130			
p-Isopropyltoluene	24.1	1.0	ug/l	25.0		96	75-130			
Methylene chloride	28.0	5.0	ug/l	25.0		112	70-125			
Methyl-tert-butyl Ether (MTBE)	28.1	1.0	ug/l	25.0		112	65-135			
Naphthalene	26.2	1.0	ug/l	25.0		105	50-145			
n-Propylbenzene	26.2	1.0	ug/l	25.0		105	70-130			
Styrene	25.5	1.0	ug/l	25.0		102	75-140			
1,1,1,2-Tetrachloroethane	25.3	1.0	ug/l	25.0		101	75-135			
1,1,2,2-Tetrachloroethane	27.0	1.0	ug/l	25.0		108	60-130			
Tetrachloroethene	26.0	1.0	ug/l	25.0		104	75-130			
Toluene	25.7	1.0	ug/l	25.0		103	75-130			
1,2,3-Trichlorobenzene	25.7	1.0	ug/l	25.0		103	50-140			
1,2,4-Trichlorobenzene	26.0	1.0	ug/l	25.0		104	80-140			
1,1,1-Trichloroethane	26.3	1.0	ug/l	25.0		105	75-140			
1,1,2-Trichloroethane	27.1	1.0	ug/l	25.0		108	65-130			
Trichloroethene	25.8	1.0	ug/l	25.0		103	75-130			
Trichlorofluoromethane	28.4	1.0	ug/l	25.0		114	55-145			
1,2,3-Trichloropropane	27.8	1.0	ug/l	25.0		111	60-140			
1,2,4-Trimethylbenzene	24.5	1.0	ug/l	25.0		98	80-130			
1,3,5-Trimethylbenzene	24.8	1.0	ug/l	25.0		99	80-135			
Vinyl chloride	20.9	0.50	ug/l	25.0		84	45-140			
o-Xylene	24.7	1.0	ug/l	25.0		99	75-130			
m,p-Xylenes	49.3	1.0	ug/l	50.0		99	75-135			
Surrogate: Dibromofluoromethane	*27.3*		*ug/l*	*25.0*		*109*	*80-120*			
Surrogate: Toluene-d8	*27.2*		*ug/l*	*25.0*		*109*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*27.2*		*ug/l*	*25.0*		*109*	*80-120*			

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18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2701 Extracted: 08/27/02										
Matrix Spike Analyzed: 08/27/02 (I2H2701-MS1)					**Source: ILH0947-03**					
Benzene	25.3	0.50	ug/l	25.0	0.55	99	70-140			
Bromodichloromethane	24.3	1.0	ug/l	25.0	ND	97	75-145			
Bromoform	22.1	1.0	ug/l	25.0	ND	88	55-150			
Chlorobenzene	25.6	1.0	ug/l	25.0	ND	102	75-130			
Chloroform	26.0	1.0	ug/l	25.0	ND	103	75-150			
Dibromochloromethane	22.9	1.0	ug/l	25.0	ND	92	70-145			
1,4-Dichlorobenzene	24.5	1.0	ug/l	25.0	ND	98	75-125			
1,1-Dichloroethane	26.4	1.0	ug/l	25.0	ND	104	60-130			
1,2-Dichloroethane	25.2	0.50	ug/l	25.0	0.76	98	65-140			
1,1-Dichloroethene	28.1	1.0	ug/l	25.0	1.1	108	65-165			
Ethylbenzene	24.5	1.0	ug/l	25.0	ND	98	75-135			
Methyl-tert-butyl Ether (MTBE)	26.2	1.0	ug/l	25.0	ND	105	65-150			
Naphthalene	23.0	1.0	ug/l	25.0	ND	92	50-155			
Tetrachloroethene	61.4	1.0	ug/l	25.0	41	82	75-155			
Toluene	24.6	1.0	ug/l	25.0	ND	98	75-135			
Trichloroethene	25.9	1.0	ug/l	25.0	1.4	98	75-130			
Vinyl chloride	21.3	0.50	ug/l	25.0	ND	84	40-190			
o-Xylene	23.6	1.0	ug/l	25.0	ND	94	75-150			
m,p-Xylenes	47.5	1.0	ug/l	50.0	ND	95	70-140			
Surrogate: Dibromofluoromethane	*27.4*		*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*27.2*		*ug/l*	*25.0*		*109*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*27.5*		*ug/l*	*25.0*		*110*	*80-120*			
Matrix Spike Dup Analyzed: 08/27/02 (I2H2701-MSD1)					**Source: ILH0947-03**					
Benzene	25.9	0.50	ug/l	25.0	0.55	101	70-140	2	20	
Bromodichloromethane	25.8	1.0	ug/l	25.0	ND	103	75-145	6	20	
Bromoform	25.5	1.0	ug/l	25.0	ND	102	55-150	14	40	
Chlorobenzene	26.2	1.0	ug/l	25.0	ND	105	75-130	2	20	
Chloroform	26.4	1.0	ug/l	25.0	ND	105	75-150	2	20	
Dibromochloromethane	24.8	1.0	ug/l	25.0	ND	99	70-145	8	20	
1,4-Dichlorobenzene	24.9	1.0	ug/l	25.0	ND	100	75-125	2	20	
1,1-Dichloroethane	26.8	1.0	ug/l	25.0	ND	106	60-130	2	20	
1,2-Dichloroethane	26.9	0.50	ug/l	25.0	0.76	105	65-140	7	20	
1,1-Dichloroethene	28.6	1.0	ug/l	25.0	1.1	110	65-165	2	20	
Ethylbenzene	24.9	1.0	ug/l	25.0	ND	100	75-135	2	20	
Methyl-tert-butyl Ether (MTBE)	27.9	1.0	ug/l	25.0	ND	112	65-150	6	20	

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2701 Extracted: 08/27/02										
Matrix Spike Dup Analyzed: 08/27/02 (I2H2701-MSD1)					**Source: ILH0947-03**					
Naphthalene	26.1	1.0	ug/l	25.0	ND	104	50-155	13	30	
Tetrachloroethene	62.0	1.0	ug/l	25.0	41	84	75-155	1	20	
Toluene	25.5	1.0	ug/l	25.0	ND	102	75-135	4	20	
Trichloroethene	26.3	1.0	ug/l	25.0	1.4	100	75-130	2	20	
Vinyl chloride	21.2	0.50	ug/l	25.0	ND	84	40-190	1	25	
o-Xylene	24.5	1.0	ug/l	25.0	ND	98	75-150	4	20	
m,p-Xylenes	49.2	1.0	ug/l	50.0	ND	98	70-140	4	20	
Surrogate: Dibromofluoromethane	*27.3*		*ug/l*	*25.0*		*109*	*80-120*			
Surrogate: Toluene-d8	*27.6*		*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*28.0*		*ug/l*	*25.0*		*112*	*80-120*			
Batch: I2H2704 Extracted: 08/27/02										
Blank Analyzed: 08/27/02 (I2H2704-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2704 Extracted: 08/27/02										
Blank Analyzed: 08/27/02 (I2H2704-BLK1)										
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2704 Extracted: 08/27/02										
Blank Analyzed: 08/27/02 (I2H2704-BLK1)										
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*23.5*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.8*		*ug/l*	*25.0*		*91*	*80-120*			
LCS Analyzed: 08/27/02 (I2H2704-BS1)										
Acetone	23.3	10	ug/l	25.0		93	35-165			
Benzene	24.1	0.50	ug/l	25.0		96	75-130			
Bromobenzene	23.9	1.0	ug/l	25.0		96	75-130			
Bromochloromethane	25.6	1.0	ug/l	25.0		102	70-140			
Bromodichloromethane	21.7	1.0	ug/l	25.0		87	75-135			
Bromoform	20.2	1.0	ug/l	25.0		81	55-150			
Bromomethane	23.8	1.0	ug/l	25.0		95	65-140			
n-Butylbenzene	24.1	1.0	ug/l	25.0		96	75-130			
sec-Butylbenzene	24.4	1.0	ug/l	25.0		98	70-130			
tert-Butylbenzene	24.2	1.0	ug/l	25.0		97	75-130			
Carbon tetrachloride	22.0	0.50	ug/l	25.0		88	70-160			
Chlorobenzene	24.0	1.0	ug/l	25.0		96	75-130			
Chloroethane	24.3	1.0	ug/l	25.0		97	65-135			
Chloroform	22.4	1.0	ug/l	25.0		90	75-130			
Chloromethane	20.8	1.0	ug/l	25.0		83	40-130			
2-Chlorotoluene	23.6	1.0	ug/l	25.0		94	75-130			
4-Chlorotoluene	23.9	1.0	ug/l	25.0		96	70-130			
Dibromochloromethane	22.8	1.0	ug/l	25.0		91	70-130			
1,2-Dibromo-3-chloropropane	21.5	5.0	ug/l	25.0		86	70-130			
1,2-Dibromoethane (EDB)	23.5	1.0	ug/l	25.0		94	70-130			
Dibromomethane	22.7	1.0	ug/l	25.0		91	65-135			
1,2-Dichlorobenzene	23.8	1.0	ug/l	25.0		95	75-130			
1,3-Dichlorobenzene	23.4	1.0	ug/l	25.0		94	75-130			
1,4-Dichlorobenzene	23.6	1.0	ug/l	25.0		94	75-125			
Dichlorodifluoromethane	14.9	5.0	ug/l	25.0		60	10-140			
1,1-Dichloroethane	23.7	1.0	ug/l	25.0		95	60-130			
1,2-Dichloroethane	20.2	0.50	ug/l	25.0		81	65-140			
1,1-Dichloroethene	25.0	1.0	ug/l	25.0		100	70-145			

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2704 Extracted: 08/27/02										
LCS Analyzed: 08/27/02 (I2H2704-BS1)										
cis-1,2-Dichloroethene	24.2	1.0	ug/l	25.0		97	65-120			
trans-1,2-Dichloroethene	25.4	1.0	ug/l	25.0		102	75-140			
1,2-Dichloropropane	23.2	1.0	ug/l	25.0		93	75-130			
1,3-Dichloropropane	23.8	1.0	ug/l	25.0		95	65-140			
2,2-Dichloropropane	22.8	1.0	ug/l	25.0		91	75-150			
1,1-Dichloropropene	23.5	1.0	ug/l	25.0		94	75-140			
cis-1,3-Dichloropropene	23.8	0.50	ug/l	25.0		95	65-135			
trans-1,3-Dichloropropene	22.4	0.50	ug/l	25.0		90	65-140			
Ethylbenzene	23.4	1.0	ug/l	25.0		94	75-135			*M3*
Hexachlorobutadiene	22.7	1.0	ug/l	25.0		91	75-150			
Isopropylbenzene	24.4	1.0	ug/l	25.0		98	70-130			
p-Isopropyltoluene	23.4	1.0	ug/l	25.0		94	75-130			
Methylene chloride	24.6	5.0	ug/l	25.0		98	70-125			
Methyl-tert-butyl Ether (MTBE)	24.5	1.0	ug/l	25.0		98	65-135			
Naphthalene	23.1	1.0	ug/l	25.0		92	50-145			
n-Propylbenzene	25.0	1.0	ug/l	25.0		100	70-130			
Styrene	24.1	1.0	ug/l	25.0		96	75-140			
1,1,1,2-Tetrachloroethane	23.5	1.0	ug/l	25.0		94	75-135			
1,1,2,2-Tetrachloroethane	25.4	1.0	ug/l	25.0		102	60-130			
Tetrachloroethene	24.0	1.0	ug/l	25.0		96	75-130			
Toluene	23.4	1.0	ug/l	25.0		94	75-130			
1,2,3-Trichlorobenzene	22.7	1.0	ug/l	25.0		91	50-140			
1,2,4-Trichlorobenzene	23.2	1.0	ug/l	25.0		93	80-140			
1,1,1-Trichloroethane	21.9	1.0	ug/l	25.0		88	75-140			
1,1,2-Trichloroethane	23.4	1.0	ug/l	25.0		94	65-130			
Trichloroethene	23.6	1.0	ug/l	25.0		94	75-130			
Trichlorofluoromethane	21.9	1.0	ug/l	25.0		88	55-145			
1,2,3-Trichloropropane	23.4	1.0	ug/l	25.0		94	60-140			
1,2,4-Trimethylbenzene	23.7	1.0	ug/l	25.0		95	80-130			
1,3,5-Trimethylbenzene	24.3	1.0	ug/l	25.0		97	80-135			
Vinyl chloride	20.9	0.50	ug/l	25.0		84	45-140			
o-Xylene	23.5	1.0	ug/l	25.0		94	75-130			*M3*
m,p-Xylenes	47.1	1.0	ug/l	50.0		94	75-135			*M3*
Surrogate: Dibromofluoromethane	*23.5*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.3*		*ug/l*	*25.0*		*93*	*80-120*			

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2704 Extracted: 08/27/02										
Matrix Spike Analyzed: 08/27/02 (I2H2704-MS1)					**Source: ILH1154-03**					
Benzene	190	0.50	ug/l	25.0	160	120	70-140			*M-HA*
Bromodichloromethane	22.0	1.0	ug/l	25.0	ND	88	75-145			
Bromoform	20.5	1.0	ug/l	25.0	ND	82	55-150			
Chlorobenzene	25.1	1.0	ug/l	25.0	ND	100	75-130			
Chloroform	23.2	1.0	ug/l	25.0	ND	93	75-150			
Dibromochloromethane	22.6	1.0	ug/l	25.0	ND	90	70-145			
1,4-Dichlorobenzene	24.4	1.0	ug/l	25.0	ND	98	75-125			
1,1-Dichloroethane	24.5	1.0	ug/l	25.0	ND	98	60-130			
1,2-Dichloroethane	23.8	0.50	ug/l	25.0	3.7	80	65-140			
1,1-Dichloroethene	26.0	1.0	ug/l	25.0	ND	104	65-165			
Methyl-tert-butyl Ether (MTBE)	24.7	1.0	ug/l	25.0	ND	95	65-150			
Naphthalene	52.7	1.0	ug/l	25.0	32	83	50-155			
Tetrachloroethene	24.6	1.0	ug/l	25.0	ND	98	75-155			
Toluene	98.2	1.0	ug/l	25.0	71	109	75-135			
Trichloroethene	24.2	1.0	ug/l	25.0	ND	97	75-130			
Vinyl chloride	20.8	0.50	ug/l	25.0	ND	83	40-190			
Surrogate: Dibromofluoromethane	*23.7*		*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Toluene-d8	*25.1*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
Matrix Spike Dup Analyzed: 08/27/02 (I2H2704-MSD1)					**Source: ILH1154-03**					
Benzene	183	0.50	ug/l	25.0	160	92	70-140	4	20	*M-HA*
Bromodichloromethane	22.2	1.0	ug/l	25.0	ND	89	75-145	1	20	
Bromoform	21.8	1.0	ug/l	25.0	ND	87	55-150	6	40	
Chlorobenzene	24.8	1.0	ug/l	25.0	ND	99	75-130	1	20	
Chloroform	23.2	1.0	ug/l	25.0	ND	93	75-150	0	20	
Dibromochloromethane	23.6	1.0	ug/l	25.0	ND	94	70-145	4	20	
1,4-Dichlorobenzene	24.3	1.0	ug/l	25.0	ND	97	75-125	0	20	
1,1-Dichloroethane	24.6	1.0	ug/l	25.0	ND	98	60-130	0	20	
1,2-Dichloroethane	24.2	0.50	ug/l	25.0	3.7	82	65-140	2	20	
1,1-Dichloroethene	26.1	1.0	ug/l	25.0	ND	104	65-165	0	20	
Methyl-tert-butyl Ether (MTBE)	26.5	1.0	ug/l	25.0	ND	102	65-150	7	20	
Naphthalene	55.5	1.0	ug/l	25.0	32	94	50-155	5	30	
Tetrachloroethene	24.4	1.0	ug/l	25.0	ND	98	75-155	1	20	
Toluene	95.4	1.0	ug/l	25.0	71	98	75-135	3	20	
Trichloroethene	24.3	1.0	ug/l	25.0	ND	97	75-130	0	20	

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500-30697
Report Number: ILH0947

Sampled: 08/20/02-08/21/02
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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2704 Extracted: 08/27/02										
Matrix Spike Dup Analyzed: 08/27/02 (I2H2704-MSD1)					**Source: ILH1154-03**					
Vinyl chloride	20.7	0.50	ug/l	25.0	ND	83	40-190	1	25	
Surrogate: Dibromofluoromethane	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*25.1*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			

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10500-30697
Report Number: ILH0947

Sampled: 08/20/02-08/21/02
Received: 08/21/02

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2H2609 Extracted: 08/26/02										
Blank Analyzed: 08/26/02 (I2H2609-BLK1)										
Tentatively Identified Compounds	ND	25	ug/l							
Batch: I2H2701 Extracted: 08/27/02										
Blank Analyzed: 08/27/02 (I2H2701-BLK1)										
Tentatively Identified Compounds	ND	25	ug/l							

Del Mar Analytical, Irvine
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Attention: Sharon Wallin

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Sampled: 08/20/02-08/21/02
Received: 08/21/02

DATA QUALIFIERS AND DEFINITIONS

C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
M-HA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
M3	Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For TICs:

All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library.

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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September 19, 2002

Camp, Dresser & McKee
18581 Teller, #200
Irvine, CA 92612

Attention: Sharon Wallin

Project: Omega Chemical, 10500-30697, Sampled 08/20/02
Del Mar Analytical project ILH0947

Dear Ms. Wallin:

Weck Laboratories performed the 1,4 Dioxane analysis by EPA Method 8270C for the project. Please use the following table when reviewing the enclosed subcontract lab reports.

Client ID	Del Mar – Irvine ID	Weck ID
OC-GW-OW1N-082002	ILH0947-01	2090613-01
OC-GW-OW1-082002	ILH0947-02	2090613-02
OC-GW-OW1B-082002	ILH0947-03	2090613-03
OC-GW-OW3-082002	ILH0947-04	2090613-04
OC-GW-OW2-082102	ILH0947-05	2090613-05
OC-GW-OW4a-082102	ILH0947-08	2090613-06

If you have any questions or require further assistance, please contact me at (949) 261-1022, extension 213.

Sincerely yours,

DEL MAR ANALYTICAL

Patty Mata
Project Manager

Enclosure

Weck Laboratories, Inc.

Environmental and Analytical Services - Since 1964

Report Date: Monday, September 16, 2002
Received Date: Thursday, August 22, 2002
Received Time: 1:15 pm

Turnaround Time: Normal

Client: Del Mar Analytical
2852 Alton Parkway
Irvine, CA 92606

Phone: (949) 261-1022
FAX: (949) 261-1228

Attn: Patty Mata

Project: Project ID #ILH0947

P.O.#:

Certificate of Analysis

Work Order No: 2090613-01 **Sample ID: ILH0947-01** **Matrix: Water**
Sampled by: Client **Sampled: 20-Aug-02 14:15** **Sample Note:**

Analyte	Result	Qualifier	Units	Reporting Limit	Dilution	Method	Prepared	Analyzed	Batch
1,4-Dioxane	0.63		ug/l	0.50	1	EPA 8270M	03-Sep-02	13-Sep-02	BN W209126

Work Order No: 2090613-02 **Sample ID: ILH0947-02** **Matrix: Water**
Sampled by: Client **Sampled: 20-Aug-02 14:00** **Sample Note:**

Analyte	Result	Qualifier	Units	Reporting Limit	Dilution	Method	Prepared	Analyzed	Batch
1,4-Dioxane	4100	E	ug/l	0.50	1	EPA 8270M	03-Sep-02	13-Sep-02	BN W209126

Work Order No: 2090613-03 **Sample ID: ILH0947-03** **Matrix: Water**
Sampled by: Client **Sampled: 20-Aug-02 15:00** **Sample Note:**

Analyte	Result	Qualifier	Units	Reporting Limit	Dilution	Method	Prepared	Analyzed	Batch
1,4-Dioxane	60		ug/l	0.50	1	EPA 8270M	03-Sep-02	13-Sep-02	BN W209126

Work Order No: 2090613-04 **Sample ID: ILH0947-04** **Matrix: Water**
Sampled by: Client **Sampled: 20-Aug-02 17:20** **Sample Note:**

Analyte	Result	Qualifier	Units	Reporting Limit	Dilution	Method	Prepared	Analyzed	Batch
1,4-Dioxane	1.2		ug/l	0.50	1	EPA 8270M	03-Sep-02	13-Sep-02	BN W209126

Work Order No: 2090613-05 **Sample ID: ILH0947-05** **Matrix: Water**
Sampled by: Client **Sampled: 21-Aug-02 08:10** **Sample Note:**

Analyte	Result	Qualifier	Units	Reporting Limit	Dilution	Method	Prepared	Analyzed	Batch
1,4-Dioxane	1.0		ug/l	0.50	1	EPA 8270M	03-Sep-02	13-Sep-02	BN W209126

Work Order No: 2090613-06 **Sample ID: ILH0947-08** **Matrix: Water**
Sampled by: Client **Sampled: 21-Aug-02 13:50** **Sample Note:**

Analyte	Result	Qualifier	Units	Reporting Limit	Dilution	Method	Prepared	Analyzed	Batch

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Certificate of Analysis

Work Order No: 2090613-06 **Sample ID: ILH0947-08** **Matrix: Water**
Sampled by: Client **Sampled: 21-Aug-02 13:50** **Sample Note:**

Analyte	Result	Qualifier	Units	Reporting Limit	Dilution	Method	Prepared	Analyzed		Batch
1,4-Dioxane	14		ug/l	0.50	1	EPA 8270M	03-Sep-02	13-Sep-02	BN	W209126

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www.wecklabs.com

Certificate of Analysis

Weck Laboratories, Inc

Semivolatile Organic Compounds (Special Analytes) by EPA Method 8270C - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W209126 - 3510C									
Blank (W209126-BLK1)					Prepared: 03-Sep-02 Analyzed: 12-Sep-02				
1,4-Dioxane		ND		ug/l					
LCS (W209126-BS1)					Prepared: 03-Sep-02 Analyzed: 12-Sep-02				
1,4-Dioxane		10.9		ug/l	10.0	109	77-133		
Matrix Spike (W209126-MS1)			**Source: 2090611-01**		Prepared: 03-Sep-02 Analyzed: 12-Sep-02				
1,4-Dioxane	ND	23.9		ug/l	20.0	117	53-136		
Matrix Spike Dup (W209126-MSD1)			**Source: 2090611-01**		Prepared: 03-Sep-02 Analyzed: 13-Sep-02				
1,4-Dioxane	ND	23.5		ug/l	20.0	115	53-136	1.69	30

Authorized Signature

ELAP # 1132
LACSD # 10143

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

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.
RL=Reporting Limit.
ND=Not detected, below the reporting limit.
Sub=Subcontracted analysis, original report enclosed.
An absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.

Flags for Data Qualifiers:

E = The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).

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www.wecklabs.com

2090613(01-06)

A205249(1-6)

SUBCONTRACT ORDER

Del Mar Analytical, Irvine

Project ID # ILH0947

SENDING LABORATORY:

Del Mar Analytical, Irvine
2852 Alton Parkway
Irvine, CA 92606
Phone: (949) 261-1022
Fax: (949) 261-1228
Project Manager: Patty Mata

RECEIVING LABORATORY:

Weck Laboratories-SUB
14859 E. Clark Avenue
City of Industry, CA 91745
Phone :(626) 336-2139
Fax: (626) 336-2634

Standard TAT is requested unless specific due date is requested => Due Date:_____ Initials:_____

Analysis	Expiration	Comments
Sample ID: ILH0947-01 Water Sampled: 08/20/02 14:15		**Lowest RL possible**
Dioxane, 8270 - out	08/27/02 14:15	Sub 1,4-Dioxane: Weck labs, std TAT, ~~Level 4 data~~
Containers Supplied: 1 L Amber (ILH0947-01D)		
Sample ID: ILH0947-02 Water Sampled: 08/20/02 14:00		
Dioxane, 8270 - out	08/27/02 14:00	Sub 1,4-Dioxane: Weck labs, std TAT, ~~Level 4 data~~
Containers Supplied: 1 L Amber (ILH0947-02D)		
Sample ID: ILH0947-03 Water Sampled: 08/20/02 15:00		
Dioxane, 8270 - out	08/27/02 15:00	Sub 1,4-Dioxane: Weck labs, std TAT, ~~Level 4 data~~
Containers Supplied: 1 L Amber (ILH0947-03D)		
Sample ID: ILH0947-04 Water Sampled: 08/20/02 17:20		
Dioxane, 8270 - out	08/27/02 17:20	Sub 1,4-Dioxane: Weck labs, std TAT, ~~Level 4 data~~
Containers Supplied: 1 L Amber (ILH0947-04D)		
Sample ID: ILH0947-05 Water Sampled: 08/21/02 08:10		
Dioxane, 8270 - out	08/28/02 08:10	Sub 1,4-Dioxane: Weck labs, std TAT, ~~Level 4 data~~
Containers Supplied: 1 L Amber (ILH0947-05D)		
Sample ID: ILH0947-08 Water Sampled: 08/21/02 13:50		
Dioxane, 8270 - out	08/28/02 13:50	Sub 1,4-Dioxane: Weck labs, std TAT, ~~Level 4 data~~
Containers Supplied: 1 L Amber (ILH0947-08D)		

Release Notes:

Samples Received at (temp): 4°C
All containers intact: ☐ Yes ☐ No
Sample labels/COC agree: ☐ Yes ☐ No
Samples Preserved Properly: ☐ Yes ☐ No
Custody Seals Present: ☐ Yes ☐ No

Released By	Date	Time	Received By	Date	Time
	8-22-02			8/22/02	0950
	8/22/02	1315		8/22	13:10p

sco default rnt

Weck Laboratories, Inc.

Sample Receiving Check List

Date received: 8/22/02 Time: 13:15p

Lab Batch ID # : A205247 / 5248 / 5249 Client: Del Mar Analytical

	Answer	Status: Yes	Status: No	Status: N/A	Comments
chain of Custody Present		✓			
Number of Ice chests/packages	3				
Samples received on Ice		✓			
Type of Ice (Blue/Wet)					
Temperature (4 +/- 2 Deg. C)	4°C				
Mode of measurement (IR, Temp. blank, Other)					
Samples intact?		✓			
Leaking bottles?			✓		
Custody seals intact?		✓			
COC properly completed?		✓			
Verification of bottle labels to match COC		✓			
Preservation verification (pH paper, etc.)				✓	
Preserved at the lab?			✓		
Sample Volume sufficient?		✓			
Enough holding time for all tests?		✓			
Notify analysts of short holding time/rush		✓			8315
Subontract analysis?			✓		

Discrepancies and Notifications

Description of problem:

Person Notified: Phone #: Date/time:

Instructions from client/resolution:

Description of problem:

Person Notified: Phone #: Date/time:

Instructions from client/resolution:

Sample receipt verification completed by (initials): TN

f:\labstuff\QC\validation tables\sample_ receiving_check_list.xls

Del Mar Analytical

1614 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
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9630 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd., Suite 3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

CHAIN OF CUSTODY FORM

Client Name/Address: CDM
18581 Teller suite 200
IRVINE CA 92612

Project/PO Number: 10500-30697

Project Manager: Sharon Wallin

Phone Number: 949-752-5452

Sampler: Will Grove

Fax Number: 949-752-1307

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	8260B *	1,4-Dioxane	MS/MSD	Hold						Special Instructions
OC-GW-OW1N-082002	W	40ml VOA 1L Amber	4	20 Aug 2002	1415		x3	x1								
OC-GW-OW1-082002			4		1400		3	1								
OC-GW-OW1B-082002			4		1500		3	1								
OC-GW OW3-082002			4		1720		3	1								
TB1			2		—					X						
OC-GW-OW2-082102			4	21 Aug	0810		3	1								
OC-GW-OW7-082102		40ml VOA	6		09:45		6		X							
OC-GW-OW6-082102			3		1100		3									
OC-GW-OW4a-082102		40ml VOA 1L Amber	4		1350		3	1								

* Multiple Dilutions - Lowest Possible Reporting Limits — See left

Relinquished By:	Date /Time:	Received by:	Date /Time:	Turnaround Time: (Check)
[signature]	21 Aug 2002 1400	[signature]	8-21-02 1400	same day ___ 72 hours ___
[signature]	8-21-02 1610			24 hours ___ 5 days ___
				48 hours ___ normal ✓
Relinquished By:	Date /Time:	Received in Lab by:	Date /Time:	Sample Integrity: (Check)
		[signature]	8/21/02 1610	intact X on ice 7°C

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Del Mar Analytical

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LABORATORY REPORT

Prepared For: Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project: Omega Chemical
10500-GWSAMP-Feb2003

Sampled: 02/21/03
Received: 02/21/03
Issued: 03/20/03

NELAP #01108CA CA ELAP#1197 AZ DHS #AZ0428 NV #CA-72

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 5°C, on ice and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
IMB1298-01	OC-GW-OW5-022103	Water
IMB1298-02	OC-GW-OW6-022103	Water
IMB1298-03	OC-GW-OW7-022103	Water
IMB1298-04	TB3-022103	Water

Del Mar Analytical, Irvine
Patty Mata
Project Manager

Del Mar Analytical

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-GWSAMP-Feb2003
Report Number: IMB1298

Sampled: 02/21/03
Received: 02/21/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1298-01 (OC-GW-OW5-022103 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	3B27015	10	ND	1	2/27/2003	2/27/2003	
Benzene	EPA 8260B	3B27015	0.50	**0.53**	1	2/27/2003	2/27/2003	
Bromobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Bromochloromethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Bromodichloromethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Bromoform	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Bromomethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
n-Butylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
sec-Butylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
tert-Butylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Carbon tetrachloride	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
Chlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Chloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Chloroform	EPA 8260B	3B27015	1.0	**26**	1	2/27/2003	2/27/2003	
Chloromethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
2-Chlorotoluene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
4-Chlorotoluene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Dibromochloromethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3B27015	5.0	ND	1	2/27/2003	2/27/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Dibromomethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2-Dichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,3-Dichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,4-Dichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Dichlorodifluoromethane	EPA 8260B	3B27015	5.0	ND	1	2/27/2003	2/27/2003	
1,1-Dichloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2-Dichloroethane	EPA 8260B	3B27015	0.50	**2.6**	1	2/27/2003	2/27/2003	
1,1-Dichloroethene	EPA 8260B	3B27015	1.0	**98**	1	2/27/2003	2/27/2003	
cis-1,2-Dichloroethene	EPA 8260B	3B27015	1.0	**97**	1	2/27/2003	2/27/2003	
trans-1,2-Dichloroethene	EPA 8260B	3B27015	1.0	**5.1**	1	2/27/2003	2/27/2003	
1,2-Dichloropropane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,3-Dichloropropane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1-Dichloropropene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
cis-1,3-Dichloropropene	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
trans-1,3-Dichloropropene	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
Ethylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Hexachlorobutadiene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Isopropylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
p-Isopropyltoluene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Methylene chloride	EPA 8260B	3B27015	5.0	ND	1	2/27/2003	2/27/2003	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-GWSAMP-Feb2003
Report Number: IMB1298

Sampled: 02/21/03
Received: 02/21/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1298-01 (OC-GW-OW5-022103 - Water)								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
n-Propylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Styrene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Toluene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1,1-Trichloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1,2-Trichloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Trichlorofluoromethane	EPA 8260B	3B27015	1.0	**120**	1	2/27/2003	2/27/2003	
1,2,3-Trichloropropane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Vinyl chloride	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
o-Xylene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
m,p-Xylenes	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Surrogate: Dibromofluoromethane (80-120%)				*106 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-GWSAMP-Feb2003
Report Number: IMB1298

Sampled: 02/21/03
Received: 02/21/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1298-01RE1 (OC-GW-OW5-022103 - Water)								
Reporting Units: ug/l								
Tetrachloroethene	EPA 8260B	3B28026	10	**440**	10	2/28/2003	2/28/2003	
Trichloroethene	EPA 8260B	3B28026	10	**810**	10	2/28/2003	2/28/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3B28026	50	**470**	10	2/28/2003	2/28/2003	
Surrogate: Dibromofluoromethane (80-120%)				*98 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Camp, Dresser & McKee
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Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-GWSAMP-Feb2003
Report Number: IMB1298

Sampled: 02/21/03
Received: 02/21/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1298-01RE2 (OC-GW-OW5-022103 - Water)								
Reporting Units: ug/l								
2,2-Dichloropropane	EPA 8260B	3B28023	1.0	ND	1	2/28/2003	2/28/2003	
Surrogate: Dibromofluoromethane (80-120%)				*105 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				

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Sampled: 02/21/03
Received: 02/21/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1298-02 (OC-GW-OW6-022103 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	3B27015	10	ND	1	2/27/2003	2/27/2003	
Benzene	EPA 8260B	3B27015	0.50	**1.1**	1	2/27/2003	2/27/2003	
Bromobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Bromochloromethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Bromodichloromethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Bromoform	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Bromomethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
n-Butylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
sec-Butylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
tert-Butylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Carbon tetrachloride	EPA 8260B	3B27015	0.50	**0.71**	1	2/27/2003	2/27/2003	
Chlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Chloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Chloroform	EPA 8260B	3B27015	1.0	**3.3**	1	2/27/2003	2/27/2003	
Chloromethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
2-Chlorotoluene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
4-Chlorotoluene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Dibromochloromethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3B27015	5.0	ND	1	2/27/2003	2/27/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Dibromomethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2-Dichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,3-Dichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,4-Dichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Dichlorodifluoromethane	EPA 8260B	3B27015	5.0	ND	1	2/27/2003	2/27/2003	
1,1-Dichloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2-Dichloroethane	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
1,1-Dichloroethene	EPA 8260B	3B27015	1.0	**91**	1	2/27/2003	2/27/2003	
cis-1,2-Dichloroethene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
trans-1,2-Dichloroethene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2-Dichloropropane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,3-Dichloropropane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1-Dichloropropene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
cis-1,3-Dichloropropene	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
trans-1,3-Dichloropropene	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
Ethylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Hexachlorobutadiene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Isopropylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
p-Isopropyltoluene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Methylene chloride	EPA 8260B	3B27015	5.0	ND	1	2/27/2003	2/27/2003	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3B27015	1.0	**34**	1	2/27/2003	2/27/2003	

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500-GWSAMP-Feb2003
Report Number: IMB1298

Sampled: 02/21/03
Received: 02/21/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
mple ID: IMB1298-02 (OC-GW-OW6-022103 - Water)								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
-Propylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Styrene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
,1,2,2-Tetrachloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Tetrachloroethene	EPA 8260B	3B27015	1.0	**72**	1	2/27/2003	2/27/2003	
Toluene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
,2,3-Trichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
,2,4-Trichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1,1-Trichloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1,2-Trichloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Trichloroethene	EPA 8260B	3B27015	1.0	**15**	1	2/27/2003	2/27/2003	
,2,3-Trichloropropane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
,3,5-Trimethylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Vinyl chloride	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
o-Xylene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
m,p-Xylenes	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
urrogate: Dibromofluoromethane (80-120%)				*106 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*98 %*				

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Project ID: Omega Chemical
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Report Number: IMB1298

Sampled: 02/21/03
Received: 02/21/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1298-02RE1 (OC-GW-OW6-022103 - Water)								
Reporting Units: ug/l								
Trichlorofluoromethane	EPA 8260B	3B28026	10	**350**	10	2/28/2003	2/28/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3B28026	50	**460**	10	2/28/2003	2/28/2003	
Surrogate: Dibromofluoromethane (80-120%)				*99 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				

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Sampled: 02/21/03
Received: 02/21/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
mple ID: IMB1298-02RE2 (OC-GW-OW6-022103 - Water)								
Reporting Units: ug/l								
2,2-Dichloropropane	EPA 8260B	3B28023	1.0	ND	1	2/28/2003	2/28/2003	
urrogate: Dibromofluoromethane (80-120%)				*106 %*				
urrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*103 %*				

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Sampled: 02/21/03
Received: 02/21/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1298-03 (OC-GW-OW7-022103 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	3B27015	10	ND	1	2/27/2003	2/27/2003	
Benzene	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
Bromobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Bromochloromethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Bromodichloromethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Bromoform	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Bromomethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
n-Butylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
sec-Butylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
tert-Butylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Carbon tetrachloride	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
Chlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Chloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Chloroform	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Chloromethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
2-Chlorotoluene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
4-Chlorotoluene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Dibromochloromethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3B27015	5.0	ND	1	2/27/2003	2/27/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Dibromomethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2-Dichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,3-Dichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,4-Dichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Dichlorodifluoromethane	EPA 8260B	3B27015	5.0	ND	1	2/27/2003	2/27/2003	
1,1-Dichloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2-Dichloroethane	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
1,1-Dichloroethene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
cis-1,2-Dichloroethene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
trans-1,2-Dichloroethene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2-Dichloropropane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,3-Dichloropropane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1-Dichloropropene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
cis-1,3-Dichloropropene	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
trans-1,3-Dichloropropene	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
Ethylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Hexachlorobutadiene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Isopropylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
p-Isopropyltoluene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Methylene chloride	EPA 8260B	3B27015	5.0	ND	1	2/27/2003	2/27/2003	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	

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Project ID: Omega Chemical
10500-GWSAMP-Feb2003
Report Number: IMB1298

Sampled: 02/21/03
Received: 02/21/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1298-03 (OC-GW-OW7-022103 - Water)								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
n-Propylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Styrene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Tetrachloroethene	EPA 8260B	3B27015	1.0	**12**	1	2/27/2003	2/27/2003	
Toluene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1,1-Trichloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1,2-Trichloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Trichloroethene	EPA 8260B	3B27015	1.0	**1.8**	1	2/27/2003	2/27/2003	
Trichlorofluoromethane	EPA 8260B	3B27015	1.0	**36**	1	2/27/2003	2/27/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3B27015	5.0	**44**	1	2/27/2003	2/27/2003	
1,2,3-Trichloropropane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Vinyl chloride	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
o-Xylene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
m,p-Xylenes	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Surrogate: Dibromofluoromethane (80-120%)				*104 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*98 %*				

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-GWSAMP-Feb2003
Report Number: IMB1298

Sampled: 02/21/03
Received: 02/21/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1298-03RE1 (OC-GW-OW7-022103 - Water)								
Reporting Units: ug/l								
2,2-Dichloropropane	EPA 8260B	3B28023	1.0	ND	1	2/28/2003	2/28/2003	
Surrogate: Dibromofluoromethane (80-120%)				*108 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*102 %*				

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMB1298-04 (TB3-022103 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	3B27015	10	ND	1	2/27/2003	2/27/2003	
Benzene	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
Bromobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Bromochloromethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Bromodichloromethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Bromoform	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Bromomethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
n-Butylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
sec-Butylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
tert-Butylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Carbon tetrachloride	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
Chlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Chloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Chloroform	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Chloromethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
2-Chlorotoluene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
4-Chlorotoluene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Dibromochloromethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3B27015	5.0	ND	1	2/27/2003	2/27/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Dibromomethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2-Dichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,3-Dichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,4-Dichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Dichlorodifluoromethane	EPA 8260B	3B27015	5.0	ND	1	2/27/2003	2/27/2003	
1,1-Dichloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2-Dichloroethane	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
1,1-Dichloroethene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
cis-1,2-Dichloroethene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
trans-1,2-Dichloroethene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2-Dichloropropane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,3-Dichloropropane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1-Dichloropropene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
cis-1,3-Dichloropropene	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
trans-1,3-Dichloropropene	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
Ethylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Hexachlorobutadiene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Isopropylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
p-Isopropyltoluene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Methylene chloride	EPA 8260B	3B27015	5.0	ND	1	2/27/2003	2/27/2003	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	

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Project ID: Omega Chemical
10500-GWSAMP-Feb2003
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Sampled: 02/21/03
Received: 02/21/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1298-04 (TB3-022103 - Water)								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
n-Propylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Styrene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Tetrachloroethene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Toluene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1,1-Trichloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,1,2-Trichloroethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Trichloroethene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Trichlorofluoromethane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3B27015	5.0	ND	1	2/27/2003	2/27/2003	
1,2,3-Trichloropropane	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Vinyl chloride	EPA 8260B	3B27015	0.50	ND	1	2/27/2003	2/27/2003	
o-Xylene	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
m,p-Xylenes	EPA 8260B	3B27015	1.0	ND	1	2/27/2003	2/27/2003	
Surrogate: Dibromofluoromethane (80-120%)				*106 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*101 %*				

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Attention: Sharon Wallin

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Report Number: IMB1298

Sampled: 02/21/03
Received: 02/21/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1298-04RE1 (TB3-022103 - Water)								
Reporting Units: ug/l								
2,2-Dichloropropane	EPA 8260B	3B28022	1.0	ND	1	2/28/2003	2/28/2003	
Surrogate: Dibromofluoromethane (80-120%)				*88 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*94 %*				

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Sampled: 02/21/03
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PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1298-01 (OC-GW-OW5-022103 - Water)								
Reporting Units: ug/l								
Tentatively Identified Compounds	EPA 8260B	3B27015	50	ND	1	2/27/2003	2/27/2003	
Sample ID: IMB1298-02 (OC-GW-OW6-022103 - Water)								
Reporting Units: ug/l								
Tentatively Identified Compounds	EPA 8260B	3B27015	50	ND	1	2/27/2003	2/27/2003	
Sample ID: IMB1298-03 (OC-GW-OW7-022103 - Water)								
Reporting Units: ug/l								
Tentatively Identified Compounds	EPA 8260B	3B27015	50	ND	1	2/27/2003	2/27/2003	
Sample ID: IMB1298-04 (TB3-022103 - Water)								
Reporting Units: ug/l								
Tentatively Identified Compounds	EPA 8260B	3B27015	50	ND	1	2/27/2003	2/27/2003	

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B27015 Extracted: 02/27/03										
Blank Analyzed: 02/27/03 (3B27015-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B27015 Extracted: 02/27/03										
Blank Analyzed: 02/27/03 (3B27015-BLK1)										
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*26.6*		*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B27015 Extracted: 02/27/03										
LCS Analyzed: 02/27/03 (3B27015-BS1)										
Acetone	24.4	10	ug/l	25.0		98	30-145			
Benzene	22.7	0.50	ug/l	25.0		91	70-120			
Bromobenzene	22.6	1.0	ug/l	25.0		90	80-120			
Bromochloromethane	23.7	1.0	ug/l	25.0		95	65-135			
Bromodichloromethane	22.6	1.0	ug/l	25.0		90	70-140			
Bromoform	20.2	1.0	ug/l	25.0		81	55-135			
Bromomethane	19.4	1.0	ug/l	25.0		78	65-140			
n-Butylbenzene	25.0	1.0	ug/l	25.0		100	75-130			
sec-Butylbenzene	22.4	1.0	ug/l	25.0		90	75-125			
tert-Butylbenzene	22.4	1.0	ug/l	25.0		90	75-125			
Carbon tetrachloride	21.8	0.50	ug/l	25.0		87	65-155			
Chlorobenzene	23.0	1.0	ug/l	25.0		92	80-125			
Chloroethane	19.9	1.0	ug/l	25.0		80	60-145			
Chloroform	22.4	1.0	ug/l	25.0		90	70-130			
Chloromethane	16.5	1.0	ug/l	25.0		66	40-145			
2-Chlorotoluene	22.7	1.0	ug/l	25.0		91	75-125			
4-Chlorotoluene	23.3	1.0	ug/l	25.0		93	75-125			
Dibromochloromethane	22.6	1.0	ug/l	25.0		90	65-145			
1,2-Dibromo-3-chloropropane	22.1	5.0	ug/l	25.0		88	50-130			
1,2-Dibromoethane (EDB)	23.1	1.0	ug/l	25.0		92	75-125			
Dibromomethane	23.6	1.0	ug/l	25.0		94	70-130			
1,2-Dichlorobenzene	23.4	1.0	ug/l	25.0		94	80-120			
1,3-Dichlorobenzene	22.9	1.0	ug/l	25.0		92	75-120			
1,4-Dichlorobenzene	22.6	1.0	ug/l	25.0		90	75-120			
Dichlorodifluoromethane	13.2	5.0	ug/l	25.0		53	10-160			
1,1-Dichloroethane	22.1	1.0	ug/l	25.0		88	70-135			
1,2-Dichloroethane	22.4	0.50	ug/l	25.0		90	60-150			
1,1-Dichloroethene	23.1	1.0	ug/l	25.0		92	70-130			
cis-1,2-Dichloroethene	22.1	1.0	ug/l	25.0		88	70-125			
trans-1,2-Dichloroethene	22.8	1.0	ug/l	25.0		91	70-130			
1,2-Dichloropropane	22.0	1.0	ug/l	25.0		88	65-120			
1,3-Dichloropropane	22.4	1.0	ug/l	25.0		90	70-130			
2,2-Dichloropropane	21.9	1.0	ug/l	25.0		88	75-130			
cis-1,3-Dichloropropene	22.3	0.50	ug/l	25.0		89	75-130			
trans-1,3-Dichloropropene	22.5	0.50	ug/l	25.0		90	70-135			

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Project ID: Omega Chemical
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Sampled: 02/21/03
Received: 02/21/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B27015 Extracted: 02/27/03										
LCS Analyzed: 02/27/03 (3B27015-BS1)										
Ethylbenzene	23.0	1.0	ug/l	25.0		92	70-125			
Hexachlorobutadiene	21.8	1.0	ug/l	25.0		87	70-140			
Isopropylbenzene	22.6	1.0	ug/l	25.0		90	70-125			
p-Isopropyltoluene	21.8	1.0	ug/l	25.0		87	75-125			
Methylene chloride	23.4	5.0	ug/l	25.0		94	60-135			
Methyl-tert-butyl Ether (MTBE)	25.0	1.0	ug/l	25.0		100	55-145			
Naphthalene	23.5	1.0	ug/l	25.0		94	50-145			
n-Propylbenzene	22.9	1.0	ug/l	25.0		92	75-130			
Styrene	23.6	1.0	ug/l	25.0		94	80-135			
1,1,1,2-Tetrachloroethane	21.8	1.0	ug/l	25.0		87	70-145			
1,1,2,2-Tetrachloroethane	22.3	1.0	ug/l	25.0		89	60-135			
Tetrachloroethene	22.1	1.0	ug/l	25.0		88	80-125			*M3*
Toluene	22.4	1.0	ug/l	25.0		90	70-120			
1,2,3-Trichlorobenzene	23.6	1.0	ug/l	25.0		94	65-135			
1,2,4-Trichlorobenzene	24.5	1.0	ug/l	25.0		98	70-140			
1,1,1-Trichloroethane	22.1	1.0	ug/l	25.0		88	70-140			
1,1,2-Trichloroethane	22.6	1.0	ug/l	25.0		90	70-125			
Trichloroethene	22.6	1.0	ug/l	25.0		90	75-120			*M3*
Trichlorofluoromethane	20.5	1.0	ug/l	25.0		82	65-145			
1,2,3-Trichloropropane	23.0	1.0	ug/l	25.0		92	60-130			
1,2,4-Trimethylbenzene	21.9	1.0	ug/l	25.0		88	80-125			
1,3,5-Trimethylbenzene	22.0	1.0	ug/l	25.0		88	80-125			
Vinyl chloride	16.4	0.50	ug/l	25.0		66	50-130			
o-Xylene	22.6	1.0	ug/l	25.0		90	70-125			
m,p-Xylenes	45.7	1.0	ug/l	50.0		91	70-120			
Surrogate: Dibromofluoromethane	*26.7*		*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B27015 Extracted: 02/27/03										
Matrix Spike Analyzed: 02/27/03 (3B27015-MS1)					**Source: IMB1298-01**					
Benzene	22.3	0.50	ug/l	25.0	0.53	87	60-125			
Bromodichloromethane	21.8	1.0	ug/l	25.0	ND	87	70-140			
Bromoform	20.0	1.0	ug/l	25.0	ND	80	50-140			
Chlorobenzene	22.5	1.0	ug/l	25.0	ND	90	75-125			
Chloroform	46.2	1.0	ug/l	25.0	26	81	70-130			
Dibromochloromethane	22.3	1.0	ug/l	25.0	ND	89	65-145			
1,4-Dichlorobenzene	21.4	1.0	ug/l	25.0	ND	86	70-120			
1,1-Dichloroethane	22.3	1.0	ug/l	25.0	0.87	86	65-135			
1,2-Dichloroethane	24.5	0.50	ug/l	25.0	2.6	88	60-150			
1,1-Dichloroethene	116	1.0	ug/l	25.0	98	72	60-135			
Ethylbenzene	21.4	1.0	ug/l	25.0	ND	86	65-125			
Methyl-tert-butyl Ether (MTBE)	24.6	1.0	ug/l	25.0	ND	98	55-155			
Naphthalene	20.4	1.0	ug/l	25.0	ND	82	50-145			
Toluene	21.4	1.0	ug/l	25.0	ND	86	65-125			
Vinyl chloride	16.4	0.50	ug/l	25.0	ND	66	40-135			
o-Xylene	21.6	1.0	ug/l	25.0	ND	86	65-125			
m,p-Xylenes	41.9	1.0	ug/l	50.0	ND	84	65-120			
Surrogate: Dibromofluoromethane	*26.6*		*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Matrix Spike Dup Analyzed: 02/27/03 (3B27015-MSD1)					**Source: IMB1298-01**					
Benzene	21.8	0.50	ug/l	25.0	0.53	85	60-125	2	20	
Bromodichloromethane	22.3	1.0	ug/l	25.0	ND	89	70-140	2	20	
Bromoform	20.8	1.0	ug/l	25.0	ND	83	50-140	4	30	
Chlorobenzene	22.4	1.0	ug/l	25.0	ND	90	75-125	0	20	
Chloroform	44.5	1.0	ug/l	25.0	26	74	70-130	4	20	
Dibromochloromethane	22.6	1.0	ug/l	25.0	ND	90	65-145	1	25	
1,4-Dichlorobenzene	21.6	1.0	ug/l	25.0	ND	86	70-120	1	20	
1,1-Dichloroethane	21.8	1.0	ug/l	25.0	0.87	84	65-135	2	20	
1,2-Dichloroethane	24.4	0.50	ug/l	25.0	2.6	87	60-150	0	25	
1,1-Dichloroethene	121	1.0	ug/l	25.0	98	92	60-135	4	20	
Ethylbenzene	21.2	1.0	ug/l	25.0	ND	85	65-125	1	20	
Methyl-tert-butyl Ether (MTBE)	25.3	1.0	ug/l	25.0	ND	101	55-155	3	30	
Naphthalene	21.8	1.0	ug/l	25.0	ND	87	50-145	7	30	
Toluene	21.2	1.0	ug/l	25.0	ND	85	65-125	1	20	

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B27015 Extracted: 02/27/03										
Matrix Spike Dup Analyzed: 02/27/03 (3B27015-MSD1)					**Source: IMB1298-01**					
Vinyl chloride	16.0	0.50	ug/l	25.0	ND	64	40-135	2	20	
o-Xylene	21.3	1.0	ug/l	25.0	ND	85	65-125	1	20	
m,p-Xylenes	41.9	1.0	ug/l	50.0	ND	84	65-120	0	20	
Surrogate: Dibromofluoromethane	*26.6*		*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Batch: 3B28022 Extracted: 02/28/03										
Blank Analyzed: 02/28/03 (3B28022-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B28022 Extracted: 02/28/03										
ank Analyzed: 02/28/03 (3B28022-BLK1)										
1,2-Dichloroethane	ND	0.50	ug/l							
-Dichloroethene	ND	1.0	ug/l							
-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
-Dichloropropane	ND	1.0	ug/l							
-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
-1,3-Dichloropropene	ND	0.50	ug/l							
ns-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
propylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
ethyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
phthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
rene	ND	1.0	ug/l							
,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
luene	ND	1.0	ug/l							
,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
,1-Trichloroethane	ND	1.0	ug/l							
,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
chlorofluoromethane	ND	1.0	ug/l							
chlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
,5-Trimethylbenzene	ND	1.0	ug/l							
nyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B28022 Extracted: 02/28/03										
Blank Analyzed: 02/28/03 (3B28022-BLK1)										
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*23.0*		*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Toluene-d8	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
LCS Analyzed: 02/28/03 (3B28022-BS1)										
Acetone	20.9	10	ug/l	25.0		84	30-145			
Benzene	25.8	0.50	ug/l	25.0		103	70-120			
Bromobenzene	25.9	1.0	ug/l	25.0		104	80-120			
Bromochloromethane	26.9	1.0	ug/l	25.0		108	65-135			
Bromodichloromethane	27.2	1.0	ug/l	25.0		109	70-140			
Bromoform	27.1	1.0	ug/l	25.0		108	55-135			
Bromomethane	21.7	1.0	ug/l	25.0		87	65-140			
n-Butylbenzene	25.3	1.0	ug/l	25.0		101	75-130			
sec-Butylbenzene	25.0	1.0	ug/l	25.0		100	75-125			
tert-Butylbenzene	25.5	1.0	ug/l	25.0		102	75-125			
Carbon tetrachloride	27.6	0.50	ug/l	25.0		110	65-155			
Chlorobenzene	26.7	1.0	ug/l	25.0		107	80-125			
Chloroethane	22.7	1.0	ug/l	25.0		91	60-145			
Chloroform	26.1	1.0	ug/l	25.0		104	70-130			
Chloromethane	18.7	1.0	ug/l	25.0		75	40-145			
2-Chlorotoluene	24.9	1.0	ug/l	25.0		100	75-125			
4-Chlorotoluene	26.1	1.0	ug/l	25.0		104	75-125			
Dibromochloromethane	28.5	1.0	ug/l	25.0		114	65-145			
1,2-Dibromo-3-chloropropane	28.0	5.0	ug/l	25.0		112	50-130			
1,2-Dibromoethane (EDB)	27.6	1.0	ug/l	25.0		110	75-125			
Dibromomethane	28.4	1.0	ug/l	25.0		114	70-130			
1,2-Dichlorobenzene	26.2	1.0	ug/l	25.0		105	80-120			
1,3-Dichlorobenzene	25.8	1.0	ug/l	25.0		103	75-120			
1,4-Dichlorobenzene	26.1	1.0	ug/l	25.0		104	75-120			
Dichlorodifluoromethane	15.2	5.0	ug/l	25.0		61	10-160			
1,1-Dichloroethane	25.9	1.0	ug/l	25.0		104	70-135			
1,2-Dichloroethane	28.0	0.50	ug/l	25.0		112	60-150			
1,1-Dichloroethene	26.2	1.0	ug/l	25.0		105	70-130			
cis-1,2-Dichloroethene	24.6	1.0	ug/l	25.0		98	70-125			
trans-1,2-Dichloroethene	25.3	1.0	ug/l	25.0		101	70-130			

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-GWSAMP-Feb2003
Report Number: IMB1298

Sampled: 02/21/03
Received: 02/21/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B28022 Extracted: 02/28/03										
LCS Analyzed: 02/28/03 (3B28022-BS1)										
1,2-Dichloropropane	25.8	1.0	ug/l	25.0		103	65-120			
1,3-Dichloropropane	27.1	1.0	ug/l	25.0		108	70-130			
2-Dichloropropane	26.1	1.0	ug/l	25.0		104	70-150			
1,1-Dichloropropene	27.3	1.0	ug/l	25.0		109	75-130			
cis-1,3-Dichloropropene	27.6	0.50	ug/l	25.0		110	75-130			
trans-1,3-Dichloropropene	27.8	0.50	ug/l	25.0		111	70-135			
Ethylbenzene	26.0	1.0	ug/l	25.0		104	70-125			
Hexachlorobutadiene	26.0	1.0	ug/l	25.0		104	70-140			
Isopropylbenzene	25.0	1.0	ug/l	25.0		100	70-125			
p-Isopropyltoluene	24.5	1.0	ug/l	25.0		98	75-125			
Methylene chloride	22.7	5.0	ug/l	25.0		91	60-135			
Methyl-tert-butyl Ether (MTBE)	25.9	1.0	ug/l	25.0		104	55-145			
Naphthalene	29.1	1.0	ug/l	25.0		116	50-145			
n-Propylbenzene	25.9	1.0	ug/l	25.0		104	75-130			
Styrene	28.2	1.0	ug/l	25.0		113	80-135			
1,1,1,2-Tetrachloroethane	27.7	1.0	ug/l	25.0		111	70-145			
1,1,2,2-Tetrachloroethane	27.9	1.0	ug/l	25.0		112	60-135			
Tetrachloroethene	27.4	1.0	ug/l	25.0		110	80-125			
Toluene	25.5	1.0	ug/l	25.0		102	70-120			
1,2,3-Trichlorobenzene	25.5	1.0	ug/l	25.0		102	65-135			
1,2,4-Trichlorobenzene	26.0	1.0	ug/l	25.0		104	70-140			
1,1,1-Trichloroethane	25.9	1.0	ug/l	25.0		104	70-140			
1,1,2-Trichloroethane	26.9	1.0	ug/l	25.0		108	70-125			
Trichloroethene	26.9	1.0	ug/l	25.0		108	75-120			
Trichlorofluoromethane	23.9	1.0	ug/l	25.0		96	65-145			
1,2,3-Trichloropropane	26.7	1.0	ug/l	25.0		107	60-130			
1,2,4-Trimethylbenzene	24.2	1.0	ug/l	25.0		97	80-125			
1,3,5-Trimethylbenzene	25.3	1.0	ug/l	25.0		101	80-125			
Vinyl chloride	20.4	0.50	ug/l	25.0		82	50-130			
o-Xylene	26.3	1.0	ug/l	25.0		105	70-125			
m,p-Xylenes	51.9	1.0	ug/l	50.0		104	70-120			
Surrogate: Dibromofluoromethane	*23.6*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.1*		*ug/l*	*25.0*		*100*	*80-120*			

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-GWSAMP-Feb2003
Report Number: IMB1298

Sampled: 02/21/03
Received: 02/21/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B28022 Extracted: 02/28/03										
Matrix Spike Analyzed: 02/28/03 (3B28022-MS1)					**Source: IMB1507-01**					
Benzene	28.5	0.50	ug/l	25.0	ND	114	60-125			
Bromodichloromethane	31.0	1.0	ug/l	25.0	ND	124	70-140			
Bromoform	31.4	1.0	ug/l	25.0	ND	126	50-140			
Chlorobenzene	29.3	1.0	ug/l	25.0	ND	117	75-125			
Chloroform	30.1	1.0	ug/l	25.0	ND	120	70-130			
Dibromochloromethane	32.4	1.0	ug/l	25.0	ND	130	65-145			
1,4-Dichlorobenzene	28.6	1.0	ug/l	25.0	ND	114	70-120			
1,1-Dichloroethane	29.4	1.0	ug/l	25.0	ND	118	65-135			
1,2-Dichloroethane	32.6	0.50	ug/l	25.0	ND	130	60-150			
1,1-Dichloroethene	29.7	1.0	ug/l	25.0	ND	119	60-135			
Ethylbenzene	28.3	1.0	ug/l	25.0	ND	113	65-125			
Methyl-tert-butyl Ether (MTBE)	30.1	1.0	ug/l	25.0	ND	120	55-155			
Naphthalene	35.2	1.0	ug/l	25.0	ND	141	50-145			
Tetrachloroethene	30.1	1.0	ug/l	25.0	ND	120	70-130			
Toluene	28.2	1.0	ug/l	25.0	ND	113	65-125			
Trichloroethene	29.4	1.0	ug/l	25.0	ND	118	70-125			
Vinyl chloride	22.2	0.50	ug/l	25.0	ND	89	40-135			
o-Xylene	28.8	1.0	ug/l	25.0	ND	115	65-125			
m,p-Xylenes	55.8	1.0	ug/l	50.0	ND	112	65-120			
Surrogate: Dibromofluoromethane	*24.7*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*24.7*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Matrix Spike Dup Analyzed: 02/28/03 (3B28022-MSD1)					**Source: IMB1507-01**					
Benzene	28.4	0.50	ug/l	25.0	ND	114	60-125	0	20	
Bromodichloromethane	31.4	1.0	ug/l	25.0	ND	126	70-140	1	20	
Bromoform	32.2	1.0	ug/l	25.0	ND	129	50-140	3	30	
Chlorobenzene	29.3	1.0	ug/l	25.0	ND	117	75-125	0	20	
Chloroform	30.1	1.0	ug/l	25.0	ND	120	70-130	0	20	
Dibromochloromethane	32.9	1.0	ug/l	25.0	ND	132	65-145	2	25	
1,4-Dichlorobenzene	28.6	1.0	ug/l	25.0	ND	114	70-120	0	20	
1,1-Dichloroethane	29.2	1.0	ug/l	25.0	ND	117	65-135	1	20	
1,2-Dichloroethane	33.3	0.50	ug/l	25.0	ND	133	60-150	2	25	
1,1-Dichloroethene	29.4	1.0	ug/l	25.0	ND	118	60-135	1	20	
Ethylbenzene	28.1	1.0	ug/l	25.0	ND	112	65-125	1	20	
Methyl-tert-butyl Ether (MTBE)	31.6	1.0	ug/l	25.0	ND	126	55-155	5	30	

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Camp, Dresser & McKee
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Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-GWSAMP-Feb2003
Report Number: IMB1298

Sampled: 02/21/03
Received: 02/21/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B28022 Extracted: 02/28/03										
Matrix Spike Dup Analyzed: 02/28/03 (3B28022-MSD1)					**Source: IMB1507-01**					
Naphthalene	34.5	1.0	ug/l	25.0	ND	138	50-145	2	30	
Tetrachloroethene	29.9	1.0	ug/l	25.0	ND	120	70-130	1	20	
Toluene	28.5	1.0	ug/l	25.0	ND	114	65-125	1	20	
Trichloroethene	29.6	1.0	ug/l	25.0	ND	118	70-125	1	20	
Vinyl chloride	22.2	0.50	ug/l	25.0	ND	89	40-135	0	20	
o-Xylene	28.8	1.0	ug/l	25.0	ND	115	65-125	0	20	
m,p-Xylenes	55.4	1.0	ug/l	50.0	ND	111	65-120	1	20	
Surrogate: Dibromofluoromethane	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*24.8*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Batch: 3B28023 Extracted: 02/28/03										
Blank Analyzed: 02/28/03 (3B28023-BLK1)										
2,2-Dichloropropane	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			
LCS Analyzed: 02/28/03 (3B28023-BS1)										
2,2-Dichloropropane	27.4	1.0	ug/l	25.0		110	70-150			
Surrogate: Dibromofluoromethane	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			
Batch: 3B28026 Extracted: 02/28/03										
Blank Analyzed: 02/28/03 (3B28026-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							

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Project ID: Omega Chemical
10500-GWSAMP-Feb2003
Report Number: IMB1298

Sampled: 02/21/03
Received: 02/21/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B28026 Extracted: 02/28/03										
Blank Analyzed: 02/28/03 (3B28026-BLK1)										
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B28026 Extracted: 02/28/03										
Blank Analyzed: 02/28/03 (3B28026-BLK1)										
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*25.1*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
LCS Analyzed: 02/28/03 (3B28026-BS1)										
Acetone	21.8	10	ug/l	25.0		87	30-145			
Benzene	27.3	0.50	ug/l	25.0		109	70-120			
Bromobenzene	26.8	1.0	ug/l	25.0		107	80-120			
Bromochloromethane	28.2	1.0	ug/l	25.0		113	65-135			
Bromodichloromethane	28.3	1.0	ug/l	25.0		113	70-140			
Bromoform	29.6	1.0	ug/l	25.0		118	55-135			
Bromomethane	24.0	1.0	ug/l	25.0		96	65-140			
n-Butylbenzene	28.9	1.0	ug/l	25.0		116	75-130			
sec-Butylbenzene	27.6	1.0	ug/l	25.0		110	75-125			
tert-Butylbenzene	27.6	1.0	ug/l	25.0		110	75-125			
Carbon tetrachloride	27.5	0.50	ug/l	25.0		110	65-155			
Chlorobenzene	28.2	1.0	ug/l	25.0		113	80-125			
Chloroethane	24.7	1.0	ug/l	25.0		99	60-145			

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Report Number: IMB1298

Sampled: 02/21/03
Received: 02/21/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B28026 Extracted: 02/28/03										
LCS Analyzed: 02/28/03 (3B28026-BS1)										
Chloroform	26.7	1.0	ug/l	25.0		107	70-130			
Chloromethane	18.7	1.0	ug/l	25.0		75	40-145			
2-Chlorotoluene	26.9	1.0	ug/l	25.0		108	75-125			
4-Chlorotoluene	27.8	1.0	ug/l	25.0		111	75-125			
Dibromochloromethane	29.4	1.0	ug/l	25.0		118	65-145			
1,2-Dibromo-3-chloropropane	29.7	5.0	ug/l	25.0		119	50-130			
1,2-Dibromoethane (EDB)	28.7	1.0	ug/l	25.0		115	75-125			
Dibromomethane	28.4	1.0	ug/l	25.0		114	70-130			
1,2-Dichlorobenzene	28.7	1.0	ug/l	25.0		115	80-120			
1,3-Dichlorobenzene	27.6	1.0	ug/l	25.0		110	75-120			
1,4-Dichlorobenzene	27.9	1.0	ug/l	25.0		112	75-120			
Dichlorodifluoromethane	14.9	5.0	ug/l	25.0		60	10-160			
1,1-Dichloroethane	26.7	1.0	ug/l	25.0		107	70-135			
1,2-Dichloroethane	27.3	0.50	ug/l	25.0		109	60-150			
1,1-Dichloroethene	28.4	1.0	ug/l	25.0		114	70-130			
cis-1,2-Dichloroethene	27.4	1.0	ug/l	25.0		110	70-125			
trans-1,2-Dichloroethene	27.9	1.0	ug/l	25.0		112	70-130			
1,2-Dichloropropane	26.9	1.0	ug/l	25.0		108	65-120			
1,3-Dichloropropane	27.5	1.0	ug/l	25.0		110	70-130			
2,2-Dichloropropane	28.3	1.0	ug/l	25.0		113	70-150			
1,1-Dichloropropene	26.9	1.0	ug/l	25.0		108	75-130			
cis-1,3-Dichloropropene	28.1	0.50	ug/l	25.0		112	75-130			
trans-1,3-Dichloropropene	29.4	0.50	ug/l	25.0		118	70-135			
Ethylbenzene	27.9	1.0	ug/l	25.0		112	70-125			
Hexachlorobutadiene	27.0	1.0	ug/l	25.0		108	70-140			
Isopropylbenzene	27.5	1.0	ug/l	25.0		110	70-125			
p-Isopropyltoluene	27.0	1.0	ug/l	25.0		108	75-125			
Methylene chloride	28.4	5.0	ug/l	25.0		114	60-135			
Methyl-tert-butyl Ether (MTBE)	28.7	1.0	ug/l	25.0		115	55-145			
Naphthalene	31.9	1.0	ug/l	25.0		128	50-145			
n-Propylbenzene	28.4	1.0	ug/l	25.0		114	75-130			
Styrene	30.0	1.0	ug/l	25.0		120	80-135			
1,1,1,2-Tetrachloroethane	27.8	1.0	ug/l	25.0		111	70-145			
1,1,2,2-Tetrachloroethane	27.9	1.0	ug/l	25.0		112	60-135			
Tetrachloroethene	27.0	1.0	ug/l	25.0		108	80-125			

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-GWSAMP-Feb2003
Report Number: IMB1298

Sampled: 02/21/03
Received: 02/21/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B28026 Extracted: 02/28/03										
LCS Analyzed: 02/28/03 (3B28026-BS1)										
Toluene	27.6	1.0	ug/l	25.0		110	70-120			
1,2,3-Trichlorobenzene	30.7	1.0	ug/l	25.0		123	65-135			
1,2,4-Trichlorobenzene	31.0	1.0	ug/l	25.0		124	70-140			
1,1,1-Trichloroethane	27.0	1.0	ug/l	25.0		108	70-140			
1,1,2-Trichloroethane	27.6	1.0	ug/l	25.0		110	70-125			
Trichloroethene	27.1	1.0	ug/l	25.0		108	75-120			
Trichlorofluoromethane	23.0	1.0	ug/l	25.0		92	65-145			
1,2,3-Trichloropropane	27.5	1.0	ug/l	25.0		110	60-130			
1,2,4-Trimethylbenzene	27.3	1.0	ug/l	25.0		109	80-125			
1,3,5-Trimethylbenzene	27.4	1.0	ug/l	25.0		110	80-125			
Vinyl chloride	20.9	0.50	ug/l	25.0		84	50-130			
o-Xylene	27.7	1.0	ug/l	25.0		111	70-125			
m,p-Xylenes	56.2	1.0	ug/l	50.0		112	70-120			
Surrogate: Dibromofluoromethane	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Matrix Spike Analyzed: 02/28/03 (3B28026-MS1)					**Source: IMB1552-01**					
Benzene	28.0	0.50	ug/l	25.0	0.40	110	60-125			
Bromodichloromethane	26.9	1.0	ug/l	25.0	ND	108	70-140			
Bromoform	23.1	1.0	ug/l	25.0	ND	92	50-140			
Chlorobenzene	28.2	1.0	ug/l	25.0	ND	113	75-125			
Chloroform	26.4	1.0	ug/l	25.0	ND	106	70-130			
Dibromochloromethane	25.4	1.0	ug/l	25.0	ND	102	65-145			
1,4-Dichlorobenzene	28.1	1.0	ug/l	25.0	ND	112	70-120			
1,1-Dichloroethane	27.1	1.0	ug/l	25.0	0.33	107	65-135			
1,2-Dichloroethane	24.7	0.50	ug/l	25.0	0.63	96	60-150			
1,1-Dichloroethene	27.9	1.0	ug/l	25.0	0.66	109	60-135			
Ethylbenzene	28.6	1.0	ug/l	25.0	ND	114	65-125			
Methyl-tert-butyl Ether (MTBE)	22.3	1.0	ug/l	25.0	ND	89	55-155			
Naphthalene	23.2	1.0	ug/l	25.0	ND	93	50-145			
Tetrachloroethene	28.2	1.0	ug/l	25.0	ND	113	70-130			
Toluene	32.3	1.0	ug/l	25.0	4.9	110	65-125			
Trichloroethene	52.0	1.0	ug/l	25.0	26	104	70-125			
Vinyl chloride	22.1	0.50	ug/l	25.0	ND	88	40-135			
o-Xylene	28.1	1.0	ug/l	25.0	ND	112	65-125			

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-GWSAMP-Feb2003
Report Number: IMB1298

Sampled: 02/21/03
Received: 02/21/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B28026 Extracted: 02/28/03										
Matrix Spike Analyzed: 02/28/03 (3B28026-MS1)					**Source: IMB1552-01**					
m,p-Xylenes	56.0	1.0	ug/l	50.0	ND	112	65-120			
Surrogate: Dibromofluoromethane	*23.8*		*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Toluene-d8	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Matrix Spike Dup Analyzed: 02/28/03 (3B28026-MSD1)					**Source: IMB1552-01**					
Benzene	27.9	0.50	ug/l	25.0	0.40	110	60-125	0	20	
Bromodichloromethane	28.6	1.0	ug/l	25.0	ND	114	70-140	6	20	
Bromoform	29.4	1.0	ug/l	25.0	ND	118	50-140	24	30	
Chlorobenzene	28.2	1.0	ug/l	25.0	ND	113	75-125	0	20	
Chloroform	26.7	1.0	ug/l	25.0	ND	107	70-130	1	20	
Dibromochloromethane	29.1	1.0	ug/l	25.0	ND	116	65-145	14	25	
1,4-Dichlorobenzene	27.6	1.0	ug/l	25.0	ND	110	70-120	2	20	
1,1-Dichloroethane	26.9	1.0	ug/l	25.0	0.33	106	65-135	1	20	
1,2-Dichloroethane	27.4	0.50	ug/l	25.0	0.63	107	60-150	10	25	
1,1-Dichloroethene	28.6	1.0	ug/l	25.0	0.66	112	60-135	2	20	
Ethylbenzene	27.8	1.0	ug/l	25.0	ND	111	65-125	3	20	
Methyl-tert-butyl Ether (MTBE)	28.8	1.0	ug/l	25.0	ND	115	55-155	25	30	
Naphthalene	30.3	1.0	ug/l	25.0	ND	121	50-145	27	30	
Tetrachloroethene	26.9	1.0	ug/l	25.0	ND	108	70-130	5	20	
Toluene	32.1	1.0	ug/l	25.0	4.9	109	65-125	1	20	
Trichloroethene	51.1	1.0	ug/l	25.0	26	100	70-125	2	20	
Vinyl chloride	21.2	0.50	ug/l	25.0	ND	85	40-135	4	20	
o-Xylene	27.9	1.0	ug/l	25.0	ND	112	65-125	1	20	
m,p-Xylenes	55.8	1.0	ug/l	50.0	ND	112	65-120	0	20	
Surrogate: Dibromofluoromethane	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*25.4*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			

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Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-GWSAMP-Feb2003
Report Number: IMB1298

Sampled: 02/21/03
Received: 02/21/03

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B27015 Extracted: 02/27/03										
Blank Analyzed: 02/27/03 (3B27015-BLK1)										
Tentatively Identified Compounds	ND	50	ug/l							

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Camp, Dresser & McKee 18581 Teller Avenue, #200 Irvine, CA 92612 Attention: Sharon Wallin	Project ID: Omega Chemical 10500-GWSAMP-Feb2003 Report Number: IMB1298	Sampled: 02/21/03 Received: 02/21/03

DATA QUALIFIERS AND DEFINITIONS

M3 Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For TICs:

All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library.

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500-GWSAMP-Feb2003
Report Number: IMB1298

Sampled: 02/21/03
Received: 02/21/03

Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	NELAP	CA	AZ	NV
EPA 8260B	Water	X	X	X	

NV and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.dmalabs.com.

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Patty Mata
Project Manager

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CHAIN OF CUSTODY FORM

Client Name/Address: CDM, Inc 18581 Teller Ave Irvine, CA 92612

Project/PO Number: 10500 - GWSAMP - Feb 2003

Project Manager: Sharon Wallin

Phone Number: 949 752-5452

Sampler: Mike Hoffman

Fax Number: 949 752 1307

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	8260 + MTBE Freon 11,12,113 & TICS									Special Instructions
OC-GW-OW5-022103	W	VOA	3	2/21/03	8:00	HCl	X									IMB1298
OC-GW-OW6-022103	W	VOA	3	2/21/03	9:30	HCl	X									
OC-GW-OW7-022103	W	VOA	3	2/21/03	12:15	HCl	X									
TB3-022103	W	VOA	2	2/21/03		HCl	X									

Relinquished By:	Date/Time:	Received by:	Date/Time:
[signature]	2/21/03 15:08		
Relinquished By:	Date/Time:	Received by:	Date/Time:
Relinquished By:	Date/Time:	Received in Lab by: [signature]	Date/Time: 2-21-03 1508

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
intact X on ice 5°C

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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LABORATORY REPORT

Prepared For: Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project: Omega Chemical
10500

Sampled: 02/20/03
Received: 02/20/03
Issued: 03/20/03

NELAP #01108CA CA ELAP#1197 AZ DHS #AZ0428 NV #CA-72

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 5°C, on ice and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: DOC samples were filtered and preserved upon receipt at the laboratory.
EPA 300.0 Nitrite results were reported from dilutions for samples IMB1192-01, -02, -03 and -06 due to relatively high levels of non-target compounds that caused interference. The reporting limits were elevated as a a result of the dilution multiplication factor.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
IMB1192-01	OC-GW-OW8-022003	Water
IMB1192-02	OC-GW-OW8K-022003	Water
IMB1192-03	OC-GW-OW3-022003	Water
IMB1192-04	OC-GW-OW3(N)-022003	Water
IMB1192-05	OC-GW-OW4B-022003	Water
IMB1192-06	OC-GW-OW4A-022003	Water
IMB1192-07	Tripblank2-022003	Water

Del Mar Analytical, Irvine
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Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-01 (OC-GW-OW8-022003 - Water)								
Reporting Units: ug/l								
Tetrachloroethene	EPA 8260B	3B23012	100	**11000**	100	2/23/2003	2/23/2003	
Surrogate: Dibromofluoromethane (80-120%)				*113 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*102 %*				

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-01RE1 (OC-GW-OW8-022003 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	3B24016	200	**1600**	20	2/24/2003	2/24/2003	
Benzene	EPA 8260B	3B24016	10	ND	20	2/24/2003	2/24/2003	
Bromobenzene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
Bromochloromethane	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
Bromodichloromethane	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
Bromoform	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
Bromomethane	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
n-Butylbenzene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
sec-Butylbenzene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
tert-Butylbenzene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
Carbon tetrachloride	EPA 8260B	3B24016	10	ND	20	2/24/2003	2/24/2003	
Chlorobenzene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
Chloroethane	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
Chloroform	EPA 8260B	3B24016	20	**550**	20	2/24/2003	2/24/2003	
Chloromethane	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
2-Chlorotoluene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
4-Chlorotoluene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
Dibromochloromethane	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3B24016	100	ND	20	2/24/2003	2/24/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
Dibromomethane	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
1,2-Dichlorobenzene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
1,3-Dichlorobenzene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
1,4-Dichlorobenzene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
Dichlorodifluoromethane	EPA 8260B	3B24016	100	ND	20	2/24/2003	2/24/2003	
1,1-Dichloroethane	EPA 8260B	3B24016	20	**46**	20	2/24/2003	2/24/2003	
1,2-Dichloroethane	EPA 8260B	3B24016	10	**240**	20	2/24/2003	2/24/2003	
1,1-Dichloroethene	EPA 8260B	3B24016	20	**1200**	20	2/24/2003	2/24/2003	
cis-1,2-Dichloroethene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
trans-1,2-Dichloroethene	EPA 8260B	3B24016	20	**58**	20	2/24/2003	2/24/2003	
1,2-Dichloropropane	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
1,3-Dichloropropane	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
2,2-Dichloropropane	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
1,1-Dichloropropene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
cis-1,3-Dichloropropene	EPA 8260B	3B24016	10	ND	20	2/24/2003	2/24/2003	
trans-1,3-Dichloropropene	EPA 8260B	3B24016	10	ND	20	2/24/2003	2/24/2003	
Ethylbenzene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
Hexachlorobutadiene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
Isopropylbenzene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
p-Isopropyltoluene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
Methylene chloride	EPA 8260B	3B24016	100	**930**	20	2/24/2003	2/24/2003	

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-01RE1 (OC-GW-OW8-022003 - Water)								
Reporting Units: ug/l								
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
Naphthalene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
n-Propylbenzene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
Styrene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
Toluene	EPA 8260B	3B24016	20	**44**	20	2/24/2003	2/24/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
1,1,1-Trichloroethane	EPA 8260B	3B24016	20	**50**	20	2/24/2003	2/24/2003	
1,1,2-Trichloroethane	EPA 8260B	3B24016	20	**39**	20	2/24/2003	2/24/2003	
Trichloroethene	EPA 8260B	3B24016	20	**910**	20	2/24/2003	2/24/2003	
Trichlorofluoromethane	EPA 8260B	3B24016	20	**1000**	20	2/24/2003	2/24/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3B24016	100	**2300**	20	2/24/2003	2/24/2003	
1,2,3-Trichloropropane	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
Vinyl chloride	EPA 8260B	3B24016	10	ND	20	2/24/2003	2/24/2003	
o-Xylene	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
m,p-Xylenes	EPA 8260B	3B24016	20	ND	20	2/24/2003	2/24/2003	
Surrogate: Dibromofluoromethane (80-120%)				*116 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*110 %*				

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10500
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Sampled: 02/20/03
Received: 02/20/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-02 (OC-GW-OW8K-022003 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	3B23012	1000	**5800**	100	2/23/2003	2/23/2003	
Tetrachloroethene	EPA 8260B	3B23012	100	**13000**	100	2/23/2003	2/23/2003	
Surrogate: Dibromofluoromethane (80-120%)				*118 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*102 %*				

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-02RE1 (OC-GW-OW8K-022003 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	3B24016	12	ND	25	2/24/2003	2/24/2003	
Bromobenzene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
Bromochloromethane	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
Bromodichloromethane	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
Bromoform	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
Bromomethane	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
n-Butylbenzene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
sec-Butylbenzene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
tert-Butylbenzene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
Carbon tetrachloride	EPA 8260B	3B24016	12	ND	25	2/24/2003	2/24/2003	
Chlorobenzene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
Chloroethane	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
Chloroform	EPA 8260B	3B24016	25	**790**	25	2/24/2003	2/24/2003	
Chloromethane	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
2-Chlorotoluene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
4-Chlorotoluene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
Dibromochloromethane	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3B24016	120	ND	25	2/24/2003	2/24/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
Dibromomethane	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
1,2-Dichlorobenzene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
1,3-Dichlorobenzene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
1,4-Dichlorobenzene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
Dichlorodifluoromethane	EPA 8260B	3B24016	120	ND	25	2/24/2003	2/24/2003	
1,1-Dichloroethane	EPA 8260B	3B24016	25	**60**	25	2/24/2003	2/24/2003	
1,2-Dichloroethane	EPA 8260B	3B24016	12	**310**	25	2/24/2003	2/24/2003	
1,1-Dichloroethene	EPA 8260B	3B24016	25	**1300**	25	2/24/2003	2/24/2003	
cis-1,2-Dichloroethene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
trans-1,2-Dichloroethene	EPA 8260B	3B24016	25	**73**	25	2/24/2003	2/24/2003	
1,2-Dichloropropane	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
1,3-Dichloropropane	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
2,2-Dichloropropane	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
1,1-Dichloropropene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
cis-1,3-Dichloropropene	EPA 8260B	3B24016	12	ND	25	2/24/2003	2/24/2003	
trans-1,3-Dichloropropene	EPA 8260B	3B24016	12	ND	25	2/24/2003	2/24/2003	
Ethylbenzene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
Hexachlorobutadiene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
Isopropylbenzene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
p-Isopropyltoluene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
Methylene chloride	EPA 8260B	3B24016	120	**2400**	25	2/24/2003	2/24/2003	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	

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Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-02RE1 (OC-GW-OW8K-022003 - Water)								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
n-Propylbenzene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
Styrene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
Toluene	EPA 8260B	3B24016	25	**120**	25	2/24/2003	2/24/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
1,1,1-Trichloroethane	EPA 8260B	3B24016	25	**48**	25	2/24/2003	2/24/2003	
1,1,2-Trichloroethane	EPA 8260B	3B24016	25	**58**	25	2/24/2003	2/24/2003	
Trichloroethene	EPA 8260B	3B24016	25	**1000**	25	2/24/2003	2/24/2003	
Trichlorofluoromethane	EPA 8260B	3B24016	25	**990**	25	2/24/2003	2/24/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3B24016	120	**2500**	25	2/24/2003	2/24/2003	
1,2,3-Trichloropropane	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
Vinyl chloride	EPA 8260B	3B24016	12	ND	25	2/24/2003	2/24/2003	
o-Xylene	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
m,p-Xylenes	EPA 8260B	3B24016	25	ND	25	2/24/2003	2/24/2003	
Surrogate: Dibromofluoromethane (80-120%)				*114 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				

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Sampled: 02/20/03
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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-03 (OC-GW-OW3-022003 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	3B23012	40	ND	4	2/23/2003	2/23/2003	
Benzene	EPA 8260B	3B23012	2.0	ND	4	2/23/2003	2/23/2003	
Bromobenzene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
Bromochloromethane	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
Bromodichloromethane	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
Bromoform	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
Bromomethane	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
n-Butylbenzene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
sec-Butylbenzene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
tert-Butylbenzene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
Carbon tetrachloride	EPA 8260B	3B23012	2.0	ND	4	2/23/2003	2/23/2003	
Chlorobenzene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
Chloroethane	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
Chloroform	EPA 8260B	3B23012	4.0	**7.0**	4	2/23/2003	2/23/2003	
Chloromethane	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
2-Chlorotoluene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
4-Chlorotoluene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
Dibromochloromethane	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3B23012	20	ND	4	2/23/2003	2/23/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
Dibromomethane	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
1,2-Dichlorobenzene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
1,3-Dichlorobenzene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
1,4-Dichlorobenzene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
Dichlorodifluoromethane	EPA 8260B	3B23012	20	ND	4	2/23/2003	2/23/2003	
1,1-Dichloroethane	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
1,2-Dichloroethane	EPA 8260B	3B23012	2.0	ND	4	2/23/2003	2/23/2003	
cis-1,2-Dichloroethene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
trans-1,2-Dichloroethene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
1,2-Dichloropropane	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
1,3-Dichloropropane	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
2,2-Dichloropropane	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
1,1-Dichloropropene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
cis-1,3-Dichloropropene	EPA 8260B	3B23012	2.0	ND	4	2/23/2003	2/23/2003	
trans-1,3-Dichloropropene	EPA 8260B	3B23012	2.0	ND	4	2/23/2003	2/23/2003	
Ethylbenzene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
Hexachlorobutadiene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
Isopropylbenzene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
p-Isopropyltoluene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
Methylene chloride	EPA 8260B	3B23012	20	ND	4	2/23/2003	2/23/2003	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-03 (OC-GW-OW3-022003 - Water)								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
n-Propylbenzene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
Styrene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
Toluene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
1,1,1-Trichloroethane	EPA 8260B	3B23012	4.0	**9.5**	4	2/23/2003	2/23/2003	
1,1,2-Trichloroethane	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
Trichloroethene	EPA 8260B	3B23012	4.0	**170**	4	2/23/2003	2/23/2003	
Trichlorofluoromethane	EPA 8260B	3B23012	4.0	**320**	4	2/23/2003	2/23/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3B23012	20	**450**	4	2/23/2003	2/23/2003	
1,2,3-Trichloropropane	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
Vinyl chloride	EPA 8260B	3B23012	2.0	ND	4	2/23/2003	2/23/2003	
o-Xylene	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
m,p-Xylenes	EPA 8260B	3B23012	4.0	ND	4	2/23/2003	2/23/2003	
Surrogate: Dibromofluoromethane (80-120%)				*112 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				

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Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-03RE1 (OC-GW-OW3-022003 - Water)								
Reporting Units: ug/l								
1,1-Dichloroethene	EPA 8260B	3B24016	20	**1100**	20	2/24/2003	2/24/2003	
Tetrachloroethene	EPA 8260B	3B24016	20	**1500**	20	2/24/2003	2/24/2003	
Surrogate: Dibromofluoromethane (80-120%)				*116 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*103 %*				

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10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Sample ID: IMB1192-04 (OC-GW-OW3(N)-022003 - Water)

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	3B23012	10	ND	1	2/23/2003	2/23/2003	
Benzene	EPA 8260B	3B23012	0.50	ND	1	2/23/2003	2/23/2003	
Bromobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Bromochloromethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Bromodichloromethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Bromoform	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Bromomethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
n-Butylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
sec-Butylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
tert-Butylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Carbon tetrachloride	EPA 8260B	3B23012	0.50	ND	1	2/23/2003	2/23/2003	
Chlorobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Chloroethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Chloroform	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Chloromethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
2-Chlorotoluene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
4-Chlorotoluene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Dibromochloromethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3B23012	5.0	ND	1	2/23/2003	2/23/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Dibromomethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2-Dichlorobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,3-Dichlorobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,4-Dichlorobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Dichlorodifluoromethane	EPA 8260B	3B23012	5.0	ND	1	2/23/2003	2/23/2003	
1,1-Dichloroethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2-Dichloroethane	EPA 8260B	3B23012	0.50	ND	1	2/23/2003	2/23/2003	
1,1-Dichloroethene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
cis-1,2-Dichloroethene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
trans-1,2-Dichloroethene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2-Dichloropropane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,3-Dichloropropane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
2,2-Dichloropropane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,1-Dichloropropene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
cis-1,3-Dichloropropene	EPA 8260B	3B23012	0.50	ND	1	2/23/2003	2/23/2003	
trans-1,3-Dichloropropene	EPA 8260B	3B23012	0.50	ND	1	2/23/2003	2/23/2003	
Ethylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Hexachlorobutadiene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Isopropylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
p-Isopropyltoluene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Methylene chloride	EPA 8260B	3B23012	5.0	ND	1	2/23/2003	2/23/2003	

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Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-04 (OC-GW-OW3(N)-022003 - Water)								
Reporting Units: ug/l								
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Naphthalene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
n-Propylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Styrene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Tetrachloroethene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Toluene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,1,1-Trichloroethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,1,2-Trichloroethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Trichloroethene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Trichlorofluoromethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3B23012	5.0	ND	1	2/23/2003	2/23/2003	
1,2,3-Trichloropropane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Vinyl chloride	EPA 8260B	3B23012	0.50	ND	1	2/23/2003	2/23/2003	
o-Xylene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
m,p-Xylenes	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Surrogate: Dibromofluoromethane (80-120%)				*116 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*102 %*				

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Sampled: 02/20/03
Received: 02/20/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-05 (OC-GW-OW4B-022003 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	3B23012	0.50	**0.79**	1	2/23/2003	2/23/2003	
Bromobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Bromochloromethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Bromodichloromethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Bromoform	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Bromomethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
n-Butylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
sec-Butylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
tert-Butylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Carbon tetrachloride	EPA 8260B	3B23012	0.50	ND	1	2/23/2003	2/23/2003	
Chlorobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Chloroethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Chloroform	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Chloromethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
2-Chlorotoluene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
4-Chlorotoluene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Dibromochloromethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3B23012	5.0	ND	1	2/23/2003	2/23/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Dibromomethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2-Dichlorobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,3-Dichlorobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,4-Dichlorobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Dichlorodifluoromethane	EPA 8260B	3B23012	5.0	ND	1	2/23/2003	2/23/2003	
1,1-Dichloroethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2-Dichloroethane	EPA 8260B	3B23012	0.50	ND	1	2/23/2003	2/23/2003	
1,1-Dichloroethene	EPA 8260B	3B23012	1.0	**14**	1	2/23/2003	2/23/2003	
cis-1,2-Dichloroethene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
trans-1,2-Dichloroethene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2-Dichloropropane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,3-Dichloropropane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
2,2-Dichloropropane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,1-Dichloropropene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
cis-1,3-Dichloropropene	EPA 8260B	3B23012	0.50	ND	1	2/23/2003	2/23/2003	
trans-1,3-Dichloropropene	EPA 8260B	3B23012	0.50	ND	1	2/23/2003	2/23/2003	
Ethylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Hexachlorobutadiene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Isopropylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
p-Isopropyltoluene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Methylene chloride	EPA 8260B	3B23012	5.0	ND	1	2/23/2003	2/23/2003	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	

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Sampled: 02/20/03
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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-05 (OC-GW-OW4B-022003 - Water)								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
n-Propylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Styrene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Tetrachloroethene	EPA 8260B	3B23012	1.0	**41**	1	2/23/2003	2/23/2003	
Toluene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,1,1-Trichloroethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,1,2-Trichloroethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Trichloroethene	EPA 8260B	3B23012	1.0	**3.7**	1	2/23/2003	2/23/2003	
Trichlorofluoromethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3B23012	5.0	**30**	1	2/23/2003	2/23/2003	
1,2,3-Trichloropropane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Vinyl chloride	EPA 8260B	3B23012	0.50	ND	1	2/23/2003	2/23/2003	
o-Xylene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
m,p-Xylenes	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Surrogate: Dibromofluoromethane (80-120%)				*118 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-05RE1 (OC-GW-OW4B-022003 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	3B24006	40	**220**	4	2/24/2003	2/24/2003	
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*102 %*				

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Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Sample ID: IMB1192-06 (OC-GW-OW4A-022003 - Water)

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	3B23012	10	ND	1	2/23/2003	2/23/2003	
Benzene	EPA 8260B	3B23012	0.50	ND	1	2/23/2003	2/23/2003	
Bromobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Bromochloromethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Bromodichloromethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Bromoform	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Bromomethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
n-Butylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
sec-Butylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
tert-Butylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Carbon tetrachloride	EPA 8260B	3B23012	0.50	ND	1	2/23/2003	2/23/2003	
Chlorobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Chloroethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Chloroform	EPA 8260B	3B23012	1.0	**21**	1	2/23/2003	2/23/2003	
Chloromethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
2-Chlorotoluene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
4-Chlorotoluene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Dibromochloromethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3B23012	5.0	ND	1	2/23/2003	2/23/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Dibromomethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2-Dichlorobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,3-Dichlorobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,4-Dichlorobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Dichlorodifluoromethane	EPA 8260B	3B23012	5.0	ND	1	2/23/2003	2/23/2003	
1,1-Dichloroethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2-Dichloroethane	EPA 8260B	3B23012	0.50	ND	1	2/23/2003	2/23/2003	
1,1-Dichloroethene	EPA 8260B	3B23012	1.0	**79**	1	2/23/2003	2/23/2003	
cis-1,2-Dichloroethene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
trans-1,2-Dichloroethene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2-Dichloropropane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,3-Dichloropropane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
2,2-Dichloropropane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,1-Dichloropropene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
cis-1,3-Dichloropropene	EPA 8260B	3B23012	0.50	ND	1	2/23/2003	2/23/2003	
trans-1,3-Dichloropropene	EPA 8260B	3B23012	0.50	ND	1	2/23/2003	2/23/2003	
Ethylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Hexachlorobutadiene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Isopropylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
p-Isopropyltoluene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Methylene chloride	EPA 8260B	3B23012	5.0	ND	1	2/23/2003	2/23/2003	

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-06 (OC-GW-OW4A-022003 - Water)								
Reporting Units: ug/l								
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	R
Naphthalene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
n-Propylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Styrene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Tetrachloroethene	EPA 8260B	3B23012	1.0	**37**	1	2/23/2003	2/23/2003	
Toluene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,1,1-Trichloroethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,1,2-Trichloroethane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Trichloroethene	EPA 8260B	3B23012	1.0	**30**	1	2/23/2003	2/23/2003	
Trichlorofluoromethane	EPA 8260B	3B23012	1.0	**23**	1	2/23/2003	2/23/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3B23012	5.0	**53**	1	2/23/2003	2/23/2003	
1,2,3-Trichloropropane	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Vinyl chloride	EPA 8260B	3B23012	0.50	ND	1	2/23/2003	2/23/2003	
o-Xylene	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
m,p-Xylenes	EPA 8260B	3B23012	1.0	ND	1	2/23/2003	2/23/2003	
Surrogate: Dibromofluoromethane (80-120%)				*112 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*98 %*				

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Camp, Dresser & McKee
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Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Sample ID: IMB1192-07 (Tripblank2-022003 - Water)

Reporting Units: ug/l

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	3B24016	10	ND	1	2/24/2003	2/24/2003	
Benzene	EPA 8260B	3B24016	0.50	ND	1	2/24/2003	2/24/2003	
Bromobenzene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Bromochloromethane	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Bromodichloromethane	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Bromoform	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Bromomethane	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
n-Butylbenzene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
sec-Butylbenzene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
tert-Butylbenzene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Carbon tetrachloride	EPA 8260B	3B24016	0.50	ND	1	2/24/2003	2/24/2003	
Chlorobenzene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Chloroethane	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Chloroform	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Chloromethane	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
2-Chlorotoluene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
4-Chlorotoluene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Dibromochloromethane	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3B24016	5.0	ND	1	2/24/2003	2/24/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Dibromomethane	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
1,2-Dichlorobenzene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
1,3-Dichlorobenzene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
1,4-Dichlorobenzene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Dichlorodifluoromethane	EPA 8260B	3B24016	5.0	ND	1	2/24/2003	2/24/2003	
1,1-Dichloroethane	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
1,2-Dichloroethane	EPA 8260B	3B24016	0.50	ND	1	2/24/2003	2/24/2003	
1,1-Dichloroethene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
cis-1,2-Dichloroethene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
trans-1,2-Dichloroethene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
1,2-Dichloropropane	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
1,3-Dichloropropane	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
2,2-Dichloropropane	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
1,1-Dichloropropene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
cis-1,3-Dichloropropene	EPA 8260B	3B24016	0.50	ND	1	2/24/2003	2/24/2003	
trans-1,3-Dichloropropene	EPA 8260B	3B24016	0.50	ND	1	2/24/2003	2/24/2003	
Ethylbenzene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Hexachlorobutadiene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Isopropylbenzene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
p-Isopropyltoluene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Methylene chloride	EPA 8260B	3B24016	5.0	ND	1	2/24/2003	2/24/2003	

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Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-07 (Tripblank2-022003 - Water)								
Reporting Units: ug/l								
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Naphthalene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
n-Propylbenzene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Styrene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Tetrachloroethene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Toluene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
1,1,1-Trichloroethane	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
1,1,2-Trichloroethane	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Trichloroethene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Trichlorofluoromethane	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3B24016	5.0	ND	1	2/24/2003	2/24/2003	
1,2,3-Trichloropropane	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Vinyl chloride	EPA 8260B	3B24016	0.50	ND	1	2/24/2003	2/24/2003	
o-Xylene	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
m,p-Xylenes	EPA 8260B	3B24016	1.0	ND	1	2/24/2003	2/24/2003	
Surrogate: Dibromofluoromethane (80-120%)				*112 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*101 %*				

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-01 (OC-GW-OW8-022003 - Water)								
Reporting Units: ug/l								
Tentatively Identified Compounds	EPA 8260B	3B24016	1000	ND	20	2/24/2003	2/24/2003	
Sample ID: IMB1192-02 (OC-GW-OW8K-022003 - Water)								
Reporting Units: ug/l								
Tentatively Identified Compounds	EPA 8260B	3B24016	1200	ND	25	2/24/2003	2/24/2003	
Sample ID: IMB1192-03 (OC-GW-OW3-022003 - Water)								
Reporting Units: ug/l								
Tentatively Identified Compounds	EPA 8260B	3B23012	200	ND	4	2/23/2003	2/23/2003	
Sample ID: IMB1192-04 (OC-GW-OW3(N)-022003 - Water)								
Reporting Units: ug/l								
Tentatively Identified Compounds	EPA 8260B	3B23012	50	ND	1	2/23/2003	2/23/2003	
Sample ID: IMB1192-05 (OC-GW-OW4B-022003 - Water)								
Reporting Units: ug/l								
Tentatively Identified Compounds	EPA 8260B	3B23012	50	ND	1	2/23/2003	2/23/2003	
Sample ID: IMB1192-06 (OC-GW-OW4A-022003 - Water)								
Reporting Units: ug/l								
Tentatively Identified Compounds	EPA 8260B	3B23012	50	ND	1	2/23/2003	2/23/2003	
Sample ID: IMB1192-07 (Tripblank2-022003 - Water)								
Reporting Units: ug/l								
Tentatively Identified Compounds	EPA 8260B	3B24016	50	ND	1	2/24/2003	2/24/2003	

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Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-01 (OC-GW-OW8-022003 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	3B24039	50	**240**	96.2	2/24/2003	2/26/2003	
Surrogate: 1,4-Dioxane-d8 (40-120%)				*				*Z3*
Sample ID: IMB1192-02 (OC-GW-OW8K-022003 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	3B24039	50	**180**	95.2	2/24/2003	2/26/2003	
Surrogate: 1,4-Dioxane-d8 (40-120%)				*				*Z3*
Sample ID: IMB1192-03 (OC-GW-OW3-022003 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	3B24039	0.50	ND	0.952	2/24/2003	2/25/2003	
Surrogate: 1,4-Dioxane-d8 (40-120%)				*52 %*				
Sample ID: IMB1192-04 (OC-GW-OW3(N)-022003 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	3B24039	0.50	ND	0.952	2/24/2003	2/25/2003	
Surrogate: 1,4-Dioxane-d8 (40-120%)				*54 %*				
Sample ID: IMB1192-05 (OC-GW-OW4B-022003 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	3B24039	0.50	ND	0.952	2/24/2003	2/25/2003	
Surrogate: 1,4-Dioxane-d8 (40-120%)				*53 %*				
Sample ID: IMB1192-06 (OC-GW-OW4A-022003 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	3B24039	0.50	**0.88**	0.952	2/24/2003	2/25/2003	
Surrogate: 1,4-Dioxane-d8 (40-120%)				*57 %*				

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Project ID: Omega Chemical
10500
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Sampled: 02/20/03
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INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-01 (OC-GW-OW8-022003 - Water)								
Reporting Units: mg/l								
Chromium VI	EPA 218.6	3B20102	0.00030	**0.0011**	1	2/20/2003	2/20/2003	
Dissolved Organic Carbon	EPA 415.1	3C02017	1.0	**8.4**	1	3/2/2003	3/2/2003	
Nitrite-N	EPA 300.0	3B20048	0.75	ND	5	2/20/2003	2/20/2003	RL-3
Nitrate-N	EPA 300.0	3B20048	0.55	**9.3**	5	2/20/2003	2/20/2003	
Nitrate/Nitrite-N	EPA 300.0	3B20048	0.75	**9.3**	5	2/20/2003	2/20/2003	
Sample ID: IMB1192-01 (OC-GW-OW8-022003 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	3C02021	4.0	ND	1	3/2/2003	3/3/2003	
Sample ID: IMB1192-02 (OC-GW-OW8K-022003 - Water)								
Reporting Units: mg/l								
Chromium VI	EPA 218.6	3B20102	0.00030	**0.00086**	1	2/20/2003	2/20/2003	
Dissolved Organic Carbon	EPA 415.1	3C02017	1.0	**19**	1	3/2/2003	3/2/2003	
Nitrite-N	EPA 300.0	3B20048	0.75	ND	5	2/20/2003	2/21/2003	RL-3
Nitrate-N	EPA 300.0	3B20048	0.55	**9.8**	5	2/20/2003	2/21/2003	
Nitrate/Nitrite-N	EPA 300.0	3B20048	0.75	**9.8**	5	2/20/2003	2/21/2003	
Sample ID: IMB1192-02 (OC-GW-OW8K-022003 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	3C02021	4.0	ND	1	3/2/2003	3/2/2003	

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-03 (OC-GW-OW3-022003 - Water)								
Reporting Units: mg/l								
Chromium VI	EPA 218.6	3B20102	0.00030	**0.0054**	1	2/20/2003	2/20/2003	
Dissolved Organic Carbon	EPA 415.1	3C02017	1.0	**1.1**	1	3/2/2003	3/2/2003	
Nitrite-N	EPA 300.0	3B20048	0.30	ND	2	2/20/2003	2/20/2003	RL-3
Nitrate-N	EPA 300.0	3B20048	0.22	**8.8**	2	2/20/2003	2/20/2003	
Nitrate/Nitrite-N	EPA 300.0	3B20048	0.30	**8.8**	2	2/20/2003	2/20/2003	
Sample ID: IMB1192-03 (OC-GW-OW3-022003 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	3C02021	4.0	ND	1	3/2/2003	3/2/2003	
Sample ID: IMB1192-04 (OC-GW-OW3(N)-022003 - Water)								
Reporting Units: mg/l								
Chromium VI	EPA 218.6	3B20102	0.00030	ND	1	2/20/2003	2/20/2003	
Dissolved Organic Carbon	EPA 415.1	3C02017	1.0	**1.2**	1	3/2/2003	3/2/2003	
Nitrite-N	EPA 300.0	3B20048	0.15	ND	1	2/20/2003	2/20/2003	
Nitrate-N	EPA 300.0	3B20048	0.11	ND	1	2/20/2003	2/20/2003	
Nitrate/Nitrite-N	EPA 300.0	3B20048	0.15	ND	1	2/20/2003	2/20/2003	
Sample ID: IMB1192-04 (OC-GW-OW3(N)-022003 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	3C02021	4.0	ND	1	3/2/2003	3/2/2003	

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMB1192-05 (OC-GW-OW4B-022003 - Water)								
Reporting Units: mg/l								
Chromium VI	EPA 218.6	3B20102	0.00030	ND	1	2/20/2003	2/20/2003	
Dissolved Organic Carbon	EPA 415.1	3C02017	1.0	**4.2**	1	3/2/2003	3/2/2003	
Nitrite-N	EPA 300.0	3B20048	0.15	ND	1	2/20/2003	2/20/2003	
Nitrate-N	EPA 300.0	3B20048	0.11	ND	1	2/20/2003	2/20/2003	
Nitrate/Nitrite-N	EPA 300.0	3B20048	0.15	ND	1	2/20/2003	2/20/2003	
Sample ID: IMB1192-05 (OC-GW-OW4B-022003 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	3C02021	4.0	**9.4**	1	3/2/2003	3/2/2003	
Sample ID: IMB1192-06 (OC-GW-OW4A-022003 - Water)								
Reporting Units: mg/l								
Chromium VI	EPA 218.6	3B20102	0.00030	**0.012**	1	2/20/2003	2/20/2003	
Dissolved Organic Carbon	EPA 415.1	3C02017	1.0	**1.6**	1	3/2/2003	3/2/2003	
Nitrite-N	EPA 300.0	3B20048	0.30	ND	2	2/20/2003	2/20/2003	RL-3
Nitrate-N	EPA 300.0	3B20048	0.22	**11**	2	2/20/2003	2/20/2003	M1
Nitrate/Nitrite-N	EPA 300.0	3B20048	0.30	**11**	2	2/20/2003	2/20/2003	
Sample ID: IMB1192-06 (OC-GW-OW4A-022003 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	3C02021	4.0	ND	1	3/2/2003	3/2/2003	

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Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: OC-GW-OW8-022003 (IMB1192-01) - Water					
EPA 218.6	1	02/20/2003 08:20	02/20/2003 18:45	02/20/2003 20:00	02/20/2003 20:29
EPA 300.0	2	02/20/2003 08:20	02/20/2003 18:45	02/20/2003 20:25	02/20/2003 22:39
Sample ID: OC-GW-OW8K-022003 (IMB1192-02) - Water					
EPA 218.6	1	02/20/2003 08:30	02/20/2003 18:45	02/20/2003 20:00	02/20/2003 20:39
EPA 300.0	2	02/20/2003 08:30	02/20/2003 18:45	02/20/2003 20:25	02/21/2003 01:30
Sample ID: OC-GW-OW3-022003 (IMB1192-03) - Water					
EPA 218.6	1	02/20/2003 10:45	02/20/2003 18:45	02/20/2003 20:00	02/20/2003 20:48
EPA 300.0	2	02/20/2003 10:45	02/20/2003 18:45	02/20/2003 20:25	02/20/2003 21:30
Sample ID: OC-GW-OW3(N)-022003 (IMB1192-04) - Water					
EPA 218.6	1	02/20/2003 11:05	02/20/2003 18:45	02/20/2003 20:00	02/20/2003 20:58
EPA 300.0	2	02/20/2003 11:05	02/20/2003 18:45	02/20/2003 20:25	02/20/2003 21:42
Sample ID: OC-GW-OW4B-022003 (IMB1192-05) - Water					
EPA 218.6	1	02/20/2003 14:30	02/20/2003 18:45	02/20/2003 20:00	02/20/2003 21:07
EPA 300.0	2	02/20/2003 14:30	02/20/2003 18:45	02/20/2003 20:25	02/20/2003 21:53
Sample ID: OC-GW-OW4A-022003 (IMB1192-06) - Water					
EPA 218.6	1	02/20/2003 15:45	02/20/2003 18:45	02/20/2003 20:00	02/20/2003 21:17
EPA 300.0	2	02/20/2003 15:45	02/20/2003 18:45	02/20/2003 20:25	02/20/2003 20:56

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Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B23012 Extracted: 02/23/03										
Blank Analyzed: 02/23/03 (3B23012-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							

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10500
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Sampled: 02/20/03
Received: 02/20/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B23012 Extracted: 02/23/03										
Blank Analyzed: 02/23/03 (3B23012-BLK1)										
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*28.5*		*ug/l*	*25.0*		*114*	*80-120*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B23012 Extracted: 02/23/03										
LCS Analyzed: 02/23/03 (3B23012-BS1)										
Acetone	21.0	10	ug/l	25.0		84	30-145			
Benzene	21.8	0.50	ug/l	25.0		87	70-120			
Bromobenzene	23.1	1.0	ug/l	25.0		92	80-120			
Bromochloromethane	25.3	1.0	ug/l	25.0		101	65-135			
Bromodichloromethane	23.4	1.0	ug/l	25.0		94	70-140			
Bromoform	22.6	1.0	ug/l	25.0		90	55-135			
Bromomethane	23.8	1.0	ug/l	25.0		95	65-140			
n-Butylbenzene	21.9	1.0	ug/l	25.0		88	75-130			
sec-Butylbenzene	20.9	1.0	ug/l	25.0		84	75-125			
tert-Butylbenzene	22.8	1.0	ug/l	25.0		91	75-125			
Carbon tetrachloride	22.7	0.50	ug/l	25.0		91	65-155			
Chlorobenzene	21.9	1.0	ug/l	25.0		88	80-125			
Chloroethane	28.0	1.0	ug/l	25.0		112	60-145			
Chloroform	23.8	1.0	ug/l	25.0		95	70-130			
Chloromethane	22.2	1.0	ug/l	25.0		89	40-145			
2-Chlorotoluene	22.5	1.0	ug/l	25.0		90	75-125			
4-Chlorotoluene	23.1	1.0	ug/l	25.0		92	75-125			
Dibromochloromethane	23.9	1.0	ug/l	25.0		96	65-145			
1,2-Dibromo-3-chloropropane	24.0	5.0	ug/l	25.0		96	50-130			
1,2-Dibromoethane (EDB)	23.1	1.0	ug/l	25.0		92	75-125			
Dibromomethane	23.9	1.0	ug/l	25.0		96	70-130			
1,2-Dichlorobenzene	22.6	1.0	ug/l	25.0		90	80-120			
1,3-Dichlorobenzene	22.0	1.0	ug/l	25.0		88	75-120			
1,4-Dichlorobenzene	22.1	1.0	ug/l	25.0		88	75-120			
Dichlorodifluoromethane	16.3	5.0	ug/l	25.0		65	10-160			
1,1-Dichloroethane	22.6	1.0	ug/l	25.0		90	70-135			
1,2-Dichloroethane	21.9	0.50	ug/l	25.0		88	60-150			
1,1-Dichloroethene	25.3	1.0	ug/l	25.0		101	70-130			
cis-1,2-Dichloroethene	24.1	1.0	ug/l	25.0		96	70-125			
trans-1,2-Dichloroethene	24.2	1.0	ug/l	25.0		97	70-130			
1,2-Dichloropropane	21.8	1.0	ug/l	25.0		87	65-120			
1,3-Dichloropropane	22.7	1.0	ug/l	25.0		91	70-130			
2,2-Dichloropropane	23.8	1.0	ug/l	25.0		95	70-150			
1,1-Dichloropropene	22.0	1.0	ug/l	25.0		88	75-130			
cis-1,3-Dichloropropene	22.1	0.50	ug/l	25.0		88	75-130			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B23012 Extracted: 02/23/03										
LCS Analyzed: 02/23/03 (3B23012-BS1)										
trans-1,3-Dichloropropene	22.4	0.50	ug/l	25.0		90	70-135			
Ethylbenzene	21.9	1.0	ug/l	25.0		88	70-125			
Hexachlorobutadiene	23.2	1.0	ug/l	25.0		93	70-140			
Isopropylbenzene	23.1	1.0	ug/l	25.0		92	70-125			
Isopropyltoluene	21.7	1.0	ug/l	25.0		87	75-125			
Methylene chloride	26.0	5.0	ug/l	25.0		104	60-135			
Methyl-tert-butyl Ether (MTBE)	25.2	1.0	ug/l	25.0		101	55-145			
Naphthalene	23.6	1.0	ug/l	25.0		94	50-145			
n-Propylbenzene	22.5	1.0	ug/l	25.0		90	75-130			
Styrene	21.2	1.0	ug/l	25.0		85	80-135			
1,1,1,2-Tetrachloroethane	22.8	1.0	ug/l	25.0		91	70-145			
1,1,2,2-Tetrachloroethane	25.4	1.0	ug/l	25.0		102	60-135			
Tetrachloroethene	22.0	1.0	ug/l	25.0		88	80-125			
Toluene	20.5	1.0	ug/l	25.0		82	70-120			
1,2,3-Trichlorobenzene	23.4	1.0	ug/l	25.0		94	65-135			
1,2,4-Trichlorobenzene	23.8	1.0	ug/l	25.0		95	70-140			
1,1,1-Trichloroethane	23.7	1.0	ug/l	25.0		95	70-140			
1,1,2-Trichloroethane	23.6	1.0	ug/l	25.0		94	70-125			
Trichloroethene	22.2	1.0	ug/l	25.0		89	75-120			
Trichlorofluoromethane	25.8	1.0	ug/l	25.0		103	65-145			
1,2,3-Trichloropropane	22.8	1.0	ug/l	25.0		91	60-130			
1,2,4-Trimethylbenzene	21.4	1.0	ug/l	25.0		86	80-125			
1,3,5-Trimethylbenzene	22.3	1.0	ug/l	25.0		89	80-125			
Vinyl chloride	19.9	0.50	ug/l	25.0		80	50-130			
o-Xylene	20.2	1.0	ug/l	25.0		81	70-125			
m,p-Xylenes	41.6	1.0	ug/l	50.0		83	70-120			
Surrogate: Dibromofluoromethane	*28.9*		*ug/l*	*25.0*		*116*	*80-120*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			

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10500
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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B23012 Extracted: 02/23/03										
Matrix Spike Analyzed: 02/23/03 (3B23012-MS1)					**Source: IMB1192-06**					
Benzene	23.3	0.50	ug/l	25.0	ND	93	60-125			
Bromodichloromethane	25.3	1.0	ug/l	25.0	ND	101	70-140			
Bromoform	25.1	1.0	ug/l	25.0	ND	100	50-140			
Chlorobenzene	23.2	1.0	ug/l	25.0	ND	93	75-125			
Chloroform	45.2	1.0	ug/l	25.0	21	97	70-130			
Dibromochloromethane	26.4	1.0	ug/l	25.0	ND	106	65-145			
1,4-Dichlorobenzene	23.6	1.0	ug/l	25.0	ND	94	70-120			
1,1-Dichloroethane	24.2	1.0	ug/l	25.0	ND	97	65-135			
1,2-Dichloroethane	24.1	0.50	ug/l	25.0	ND	96	60-150			
1,1-Dichloroethene	99.7	1.0	ug/l	25.0	79	83	60-135			
Ethylbenzene	22.9	1.0	ug/l	25.0	ND	92	65-125			
Methyl-tert-butyl Ether (MTBE)	28.2	1.0	ug/l	25.0	ND	113	55-155			
Naphthalene	25.8	1.0	ug/l	25.0	ND	103	50-145			
Tetrachloroethene	55.1	1.0	ug/l	25.0	37	72	70-130			
Toluene	21.9	1.0	ug/l	25.0	ND	88	65-125			
Trichloroethene	49.0	1.0	ug/l	25.0	30	76	70-125			
Vinyl chloride	19.9	0.50	ug/l	25.0	ND	80	40-135			
o-Xylene	22.0	1.0	ug/l	25.0	ND	88	65-125			
m,p-Xylenes	44.2	1.0	ug/l	50.0	ND	88	65-120			
Surrogate: Dibromofluoromethane	*28.6*		*ug/l*	*25.0*		*114*	*80-120*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.4*		*ug/l*	*25.0*		*102*	*80-120*			
Matrix Spike Dup Analyzed: 02/23/03 (3B23012-MSD1)					**Source: IMB1192-06**					
Benzene	22.9	0.50	ug/l	25.0	ND	92	60-125	2	20	
Bromodichloromethane	24.6	1.0	ug/l	25.0	ND	98	70-140	3	20	
Bromoform	19.8	1.0	ug/l	25.0	ND	79	50-140	24	30	
Chlorobenzene	23.0	1.0	ug/l	25.0	ND	92	75-125	1	20	
Chloroform	44.1	1.0	ug/l	25.0	21	92	70-130	2	20	
Dibromochloromethane	22.9	1.0	ug/l	25.0	ND	92	65-145	14	25	
1,4-Dichlorobenzene	23.6	1.0	ug/l	25.0	ND	94	70-120	0	20	
1,1-Dichloroethane	23.7	1.0	ug/l	25.0	ND	95	65-135	2	20	
1,2-Dichloroethane	22.0	0.50	ug/l	25.0	ND	88	60-150	9	25	
1,1-Dichloroethene	95.2	1.0	ug/l	25.0	79	65	60-135	5	20	
Ethylbenzene	23.6	1.0	ug/l	25.0	ND	94	65-125	3	20	
Methyl-tert-butyl Ether (MTBE)	20.4	1.0	ug/l	25.0	ND	82	55-155	32	30	*R*

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B23012 Extracted: 02/23/03										
Matrix Spike Dup Analyzed: 02/23/03 (3B23012-MSD1)					**Source: IMB1192-06**					
Naphthalene	19.5	1.0	ug/l	25.0	ND	78	50-145	28	30	
Tetrachloroethene	56.6	1.0	ug/l	25.0	37	78	70-130	3	20	
Toluene	22.2	1.0	ug/l	25.0	ND	89	65-125	1	20	
Trichloroethene	50.3	1.0	ug/l	25.0	30	81	70-125	3	20	
Vinyl chloride	20.7	0.50	ug/l	25.0	ND	83	40-135	4	20	
o-Xylene	22.1	1.0	ug/l	25.0	ND	88	65-125	1	20	
m,p-Xylenes	44.8	1.0	ug/l	50.0	ND	90	65-120	1	20	
Surrogate: Dibromofluoromethane	*27.4*		*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Batch: 3B24006 Extracted: 02/24/03										
Blank Analyzed: 02/24/03 (3B24006-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B24006 Extracted: 02/24/03										
Blank Analyzed: 02/24/03 (3B24006-BLK1)										
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B24006 Extracted: 02/24/03										
Blank Analyzed: 02/24/03 (3B24006-BLK1)										
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*24.2*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.4*		*ug/l*	*25.0*		*102*	*80-120*			
LCS Analyzed: 02/24/03 (3B24006-BS1)										
Acetone	18.1	10	ug/l	25.0		72	30-145			
Benzene	24.9	0.50	ug/l	25.0		100	70-120			
Bromobenzene	25.8	1.0	ug/l	25.0		103	80-120			
Bromochloromethane	27.1	1.0	ug/l	25.0		108	65-135			
Bromodichloromethane	27.4	1.0	ug/l	25.0		110	70-140			
Bromoform	28.7	1.0	ug/l	25.0		115	55-135			
Bromomethane	25.6	1.0	ug/l	25.0		102	65-140			
n-Butylbenzene	26.4	1.0	ug/l	25.0		106	75-130			
sec-Butylbenzene	25.9	1.0	ug/l	25.0		104	75-125			
tert-Butylbenzene	25.4	1.0	ug/l	25.0		102	75-125			
Carbon tetrachloride	28.6	0.50	ug/l	25.0		114	65-155			
Chlorobenzene	27.7	1.0	ug/l	25.0		111	80-125			
Chloroethane	24.2	1.0	ug/l	25.0		97	60-145			
Chloroform	25.6	1.0	ug/l	25.0		102	70-130			
Chloromethane	19.9	1.0	ug/l	25.0		80	40-145			
2-Chlorotoluene	24.3	1.0	ug/l	25.0		97	75-125			
4-Chlorotoluene	24.9	1.0	ug/l	25.0		100	75-125			
Dibromochloromethane	27.3	1.0	ug/l	25.0		109	65-145			
1,2-Dibromo-3-chloropropane	23.5	5.0	ug/l	25.0		94	50-130			
1,2-Dibromoethane (EDB)	28.1	1.0	ug/l	25.0		112	75-125			
Dibromomethane	27.7	1.0	ug/l	25.0		111	70-130			
1,2-Dichlorobenzene	27.0	1.0	ug/l	25.0		108	80-120			
1,3-Dichlorobenzene	26.2	1.0	ug/l	25.0		105	75-120			
1,4-Dichlorobenzene	26.6	1.0	ug/l	25.0		106	75-120			
Dichlorodifluoromethane	16.3	5.0	ug/l	25.0		65	10-160			
1,1-Dichloroethane	25.3	1.0	ug/l	25.0		101	70-135			

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B24006 Extracted: 02/24/03										
LCS Analyzed: 02/24/03 (3B24006-BS1)										
1,2-Dichloroethane	27.0	0.50	ug/l	25.0		108	60-150			
1,1-Dichloroethene	27.1	1.0	ug/l	25.0		108	70-130			
cis-1,2-Dichloroethene	24.9	1.0	ug/l	25.0		100	70-125			
trans-1,2-Dichloroethene	25.2	1.0	ug/l	25.0		101	70-130			
1,2-Dichloropropane	24.7	1.0	ug/l	25.0		99	65-120			
1,3-Dichloropropane	27.1	1.0	ug/l	25.0		108	70-130			
1,1-Dichloropropene	26.7	1.0	ug/l	25.0		107	75-130			
cis-1,3-Dichloropropene	27.0	0.50	ug/l	25.0		108	75-130			
trans-1,3-Dichloropropene	26.9	0.50	ug/l	25.0		108	70-135			
Ethylbenzene	27.3	1.0	ug/l	25.0		109	70-125			
Hexachlorobutadiene	24.5	1.0	ug/l	25.0		98	70-140			
Isopropylbenzene	24.7	1.0	ug/l	25.0		99	70-125			
p-Isopropyltoluene	25.9	1.0	ug/l	25.0		104	75-125			
Methylene chloride	24.3	5.0	ug/l	25.0		97	60-135			
Methyl-tert-butyl Ether (MTBE)	26.3	1.0	ug/l	25.0		105	55-145			
Naphthalene	24.5	1.0	ug/l	25.0		98	50-145			
n-Propylbenzene	25.8	1.0	ug/l	25.0		103	75-130			
Styrene	27.9	1.0	ug/l	25.0		112	80-135			
1,1,1,2-Tetrachloroethane	29.7	1.0	ug/l	25.0		119	70-145			
1,1,2,2-Tetrachloroethane	24.5	1.0	ug/l	25.0		98	60-135			
Tetrachloroethene	28.7	1.0	ug/l	25.0		115	80-125			
Toluene	26.2	1.0	ug/l	25.0		105	70-120			
1,2,3-Trichlorobenzene	23.9	1.0	ug/l	25.0		96	65-135			
1,2,4-Trichlorobenzene	27.0	1.0	ug/l	25.0		108	70-140			
1,1,1-Trichloroethane	24.6	1.0	ug/l	25.0		98	70-140			
1,1,2-Trichloroethane	26.2	1.0	ug/l	25.0		105	70-125			
Trichloroethene	27.6	1.0	ug/l	25.0		110	75-120			
Trichlorofluoromethane	16.4	1.0	ug/l	25.0		66	65-145			
1,2,3-Trichloropropane	24.2	1.0	ug/l	25.0		97	60-130			
1,2,4-Trimethylbenzene	25.4	1.0	ug/l	25.0		102	80-125			
1,3,5-Trimethylbenzene	25.4	1.0	ug/l	25.0		102	80-125			
Vinyl chloride	22.7	0.50	ug/l	25.0		91	50-130			
o-Xylene	26.6	1.0	ug/l	25.0		106	70-125			
m,p-Xylenes	54.2	1.0	ug/l	50.0		108	70-120			
Surrogate: Dibromofluoromethane	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
atch: 3B24006 Extracted: 02/24/03										
LCS Analyzed: 02/24/03 (3B24006-BS1)										
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
rrogate: 4-Bromofluorobenzene	*26.4*		*ug/l*	*25.0*		*106*	*80-120*			
Matrix Spike Analyzed: 02/24/03 (3B24006-MS1)					**Source: IMB1115-12**					
Benzene	117	0.50	ug/l	25.0	100	68	60-125			*M-HA*
romodichloromethane	27.4	1.0	ug/l	25.0	ND	110	70-140			
Bromoform	30.7	1.0	ug/l	25.0	ND	123	50-140			
Chlorobenzene	26.8	1.0	ug/l	25.0	ND	107	75-125			
hloroform	25.9	1.0	ug/l	25.0	ND	104	70-130			
ibromochloromethane	27.6	1.0	ug/l	25.0	ND	110	65-145			
1,4-Dichlorobenzene	26.1	1.0	ug/l	25.0	ND	104	70-120			
1-Dichloroethane	25.2	1.0	ug/l	25.0	ND	101	65-135			
2-Dichloroethane	99.9	0.50	ug/l	25.0	74	104	60-150			
1,1-Dichloroethene	26.9	1.0	ug/l	25.0	ND	108	60-135			
Ethylbenzene	103	1.0	ug/l	25.0	89	56	65-125			*M2*
aphthalene	52.9	1.0	ug/l	25.0	24	116	50-145			
etrachloroethene	27.2	1.0	ug/l	25.0	ND	109	70-130			
Toluene	27.5	1.0	ug/l	25.0	2.0	102	65-125			
ichloroethene	27.2	1.0	ug/l	25.0	ND	109	70-125			
nyl chloride	20.5	0.50	ug/l	25.0	ND	82	40-135			
o-Xylene	25.6	1.0	ug/l	25.0	ND	102	65-125			
p-Xylenes	74.1	1.0	ug/l	50.0	24	100	65-120			
rrogate: Dibromofluoromethane	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.6*		*ug/l*	*25.0*		*106*	*80-120*			
atrix Spike Dup Analyzed: 02/24/03 (3B24006-MSD1)					**Source: IMB1115-12**					
Benzene	111	0.50	ug/l	25.0	100	44	60-125	5	20	*M-HA*
Bromodichloromethane	26.4	1.0	ug/l	25.0	ND	106	70-140	4	20	
romoform	29.0	1.0	ug/l	25.0	ND	116	50-140	6	30	
hlorobenzene	26.0	1.0	ug/l	25.0	ND	104	75-125	3	20	
Chloroform	24.7	1.0	ug/l	25.0	ND	99	70-130	5	20	
ibromochloromethane	26.4	1.0	ug/l	25.0	ND	106	65-145	4	25	
4-Dichlorobenzene	25.6	1.0	ug/l	25.0	ND	102	70-120	2	20	
1,1-Dichloroethane	24.4	1.0	ug/l	25.0	ND	98	65-135	3	20	
2-Dichloroethane	93.3	0.50	ug/l	25.0	74	77	60-150	7	25	

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roject Manager

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B24006 Extracted: 02/24/03										
Matrix Spike Dup Analyzed: 02/24/03 (3B24006-MSD1)					**Source: IMB1115-12**					
1,1-Dichloroethene	25.5	1.0	ug/l	25.0	ND	102	60-135	5	20	
Ethylbenzene	98.9	1.0	ug/l	25.0	89	40	65-125	4	20	*M2*
Naphthalene	49.6	1.0	ug/l	25.0	24	102	50-145	6	30	
Tetrachloroethene	26.9	1.0	ug/l	25.0	ND	108	70-130	1	20	
Toluene	26.6	1.0	ug/l	25.0	2.0	98	65-125	3	20	
Trichloroethene	26.2	1.0	ug/l	25.0	ND	105	70-125	4	20	
Vinyl chloride	20.0	0.50	ug/l	25.0	ND	80	40-135	2	20	
o-Xylene	25.3	1.0	ug/l	25.0	ND	101	65-125	1	20	
m,p-Xylenes	72.6	1.0	ug/l	50.0	24	97	65-120	2	20	
Surrogate: Dibromofluoromethane	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.6*		*ug/l*	*25.0*		*106*	*80-120*			
Batch: 3B24016 Extracted: 02/24/03										
Blank Analyzed: 02/24/03 (3B24016-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B24016 Extracted: 02/24/03										
Blank Analyzed: 02/24/03 (3B24016-BLK1)										
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B24016 Extracted: 02/24/03										
Blank Analyzed: 02/24/03 (3B24016-BLK1)										
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*29.0*		*ug/l*	*25.0*		*116*	*80-120*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			
LCS Analyzed: 02/24/03 (3B24016-BS1)										
Acetone	23.1	10	ug/l	25.0		92	30-145			
Benzene	26.0	0.50	ug/l	25.0		104	70-120			
Bromobenzene	26.9	1.0	ug/l	25.0		108	80-120			
Bromochloromethane	29.1	1.0	ug/l	25.0		116	65-135			
Bromodichloromethane	27.6	1.0	ug/l	25.0		110	70-140			
Bromoform	25.2	1.0	ug/l	25.0		101	55-135			
Bromomethane	32.8	1.0	ug/l	25.0		131	65-140			
n-Butylbenzene	25.9	1.0	ug/l	25.0		104	75-130			
sec-Butylbenzene	25.1	1.0	ug/l	25.0		100	75-125			
tert-Butylbenzene	26.5	1.0	ug/l	25.0		106	75-125			
Carbon tetrachloride	27.7	0.50	ug/l	25.0		111	65-155			
Chlorobenzene	26.0	1.0	ug/l	25.0		104	80-125			
Chloroethane	33.0	1.0	ug/l	25.0		132	60-145			
Chloroform	28.3	1.0	ug/l	25.0		113	70-130			
Chloromethane	27.4	1.0	ug/l	25.0		110	40-145			
2-Chlorotoluene	26.4	1.0	ug/l	25.0		106	75-125			
4-Chlorotoluene	27.1	1.0	ug/l	25.0		108	75-125			
Dibromochloromethane	28.4	1.0	ug/l	25.0		114	65-145			
1,2-Dibromo-3-chloropropane	27.0	5.0	ug/l	25.0		108	50-130			
1,2-Dibromoethane (EDB)	27.3	1.0	ug/l	25.0		109	75-125			
Dibromomethane	28.1	1.0	ug/l	25.0		112	70-130			
1,2-Dichlorobenzene	26.3	1.0	ug/l	25.0		105	80-120			
1,3-Dichlorobenzene	25.7	1.0	ug/l	25.0		103	75-120			
1,4-Dichlorobenzene	25.6	1.0	ug/l	25.0		102	75-120			

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Camp, Dresser & McKee
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Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B24016 Extracted: 02/24/03										
LCS Analyzed: 02/24/03 (3B24016-BS1)										
Dichlorodifluoromethane	24.0	5.0	ug/l	25.0		96	10-160			
1,1-Dichloroethane	28.2	1.0	ug/l	25.0		113	70-135			
1,2-Dichloroethane	26.8	0.50	ug/l	25.0		107	60-150			
1,1-Dichloroethene	30.8	1.0	ug/l	25.0		123	70-130			
cis-1,2-Dichloroethene	28.2	1.0	ug/l	25.0		113	70-125			
trans-1,2-Dichloroethene	29.2	1.0	ug/l	25.0		117	70-130			
1,2-Dichloropropane	25.7	1.0	ug/l	25.0		103	65-120			
1,3-Dichloropropane	26.8	1.0	ug/l	25.0		107	70-130			
2,2-Dichloropropane	29.0	1.0	ug/l	25.0		116	70-150			
1,1-Dichloropropene	27.2	1.0	ug/l	25.0		109	75-130			
cis-1,3-Dichloropropene	27.8	0.50	ug/l	25.0		111	75-130			
trans-1,3-Dichloropropene	27.8	0.50	ug/l	25.0		111	70-135			
Ethylbenzene	26.0	1.0	ug/l	25.0		104	70-125			
Hexachlorobutadiene	27.7	1.0	ug/l	25.0		111	70-140			
Isopropylbenzene	25.6	1.0	ug/l	25.0		102	70-125			
p-Isopropyltoluene	24.6	1.0	ug/l	25.0		98	75-125			
Methylene chloride	30.0	5.0	ug/l	25.0		120	60-135			
Methyl-tert-butyl Ether (MTBE)	27.2	1.0	ug/l	25.0		109	55-145			
Naphthalene	27.1	1.0	ug/l	25.0		108	50-145			
n-Propylbenzene	26.5	1.0	ug/l	25.0		106	75-130			
Styrene	25.8	1.0	ug/l	25.0		103	80-135			
1,1,1,2-Tetrachloroethane	27.6	1.0	ug/l	25.0		110	70-145			
1,1,2,2-Tetrachloroethane	29.0	1.0	ug/l	25.0		116	60-135			
Tetrachloroethene	26.3	1.0	ug/l	25.0		105	80-125			
Toluene	24.5	1.0	ug/l	25.0		98	70-120			
1,2,3-Trichlorobenzene	27.9	1.0	ug/l	25.0		112	65-135			
1,2,4-Trichlorobenzene	28.2	1.0	ug/l	25.0		113	70-140			
1,1,1-Trichloroethane	28.0	1.0	ug/l	25.0		112	70-140			
1,1,2-Trichloroethane	27.0	1.0	ug/l	25.0		108	70-125			
Trichloroethene	26.5	1.0	ug/l	25.0		106	75-120			
Trichlorofluoromethane	30.2	1.0	ug/l	25.0		121	65-145			
1,2,3-Trichloropropane	26.4	1.0	ug/l	25.0		106	60-130			
1,2,4-Trimethylbenzene	25.3	1.0	ug/l	25.0		101	80-125			
1,3,5-Trimethylbenzene	26.0	1.0	ug/l	25.0		104	80-125			
Vinyl chloride	25.8	0.50	ug/l	25.0		103	50-130			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B24016 Extracted: 02/24/03										
LCS Analyzed: 02/24/03 (3B24016-BS1)										
o-Xylene	24.0	1.0	ug/l	25.0		96	70-125			
m,p-Xylenes	49.4	1.0	ug/l	50.0		99	70-120			
Surrogate: Dibromofluoromethane	*28.6*		*ug/l*	*25.0*		*114*	*80-120*			
Surrogate: Toluene-d8	*26.3*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Matrix Spike Analyzed: 02/24/03 (3B24016-MS1)					**Source: IMB1200-01**					
Benzene	24.0	0.50	ug/l	25.0	0.78	93	60-125			
Bromodichloromethane	27.5	1.0	ug/l	25.0	ND	110	70-140			
Bromoform	22.7	1.0	ug/l	25.0	ND	91	50-140			
Chlorobenzene	25.8	1.0	ug/l	25.0	ND	103	75-125			
Chloroform	27.4	1.0	ug/l	25.0	ND	110	70-130			
Dibromochloromethane	26.7	1.0	ug/l	25.0	ND	107	65-145			
1,4-Dichlorobenzene	25.4	1.0	ug/l	25.0	ND	102	70-120			
1,1-Dichloroethane	26.1	1.0	ug/l	25.0	ND	104	65-135			
1,2-Dichloroethane	27.6	0.50	ug/l	25.0	ND	110	60-150			
1,1-Dichloroethene	26.2	1.0	ug/l	25.0	ND	105	60-135			
Ethylbenzene	26.7	1.0	ug/l	25.0	ND	107	65-125			
Methyl-tert-butyl Ether (MTBE)	21.9	1.0	ug/l	25.0	0.40	86	55-155			
Naphthalene	22.9	1.0	ug/l	25.0	ND	92	50-145			
Tetrachloroethene	27.8	1.0	ug/l	25.0	ND	111	70-130			
Toluene	23.5	1.0	ug/l	25.0	ND	94	65-125			
Trichloroethene	26.2	1.0	ug/l	25.0	ND	105	70-125			
Vinyl chloride	28.0	0.50	ug/l	25.0	ND	112	40-135			
o-Xylene	24.3	1.0	ug/l	25.0	ND	97	65-125			
m,p-Xylenes	49.2	1.0	ug/l	50.0	ND	98	65-120			
Surrogate: Dibromofluoromethane	*27.3*		*ug/l*	*25.0*		*109*	*80-120*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*27.1*		*ug/l*	*25.0*		*108*	*80-120*			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B24016 Extracted: 02/24/03										
Matrix Spike Dup Analyzed: 02/24/03 (3B24016-MSD1)					**Source: IMB1200-01**					
Benzene	23.8	0.50	ug/l	25.0	0.78	92	60-125	1	20	
Bromodichloromethane	29.7	1.0	ug/l	25.0	ND	119	70-140	8	20	
Bromoform	24.2	1.0	ug/l	25.0	ND	97	50-140	6	30	
Chlorobenzene	26.4	1.0	ug/l	25.0	ND	106	75-125	2	20	
Chloroform	28.3	1.0	ug/l	25.0	ND	113	70-130	3	20	
Dibromochloromethane	28.4	1.0	ug/l	25.0	ND	114	65-145	6	25	
1,4-Dichlorobenzene	26.5	1.0	ug/l	25.0	ND	106	70-120	4	20	
1,1-Dichloroethane	25.8	1.0	ug/l	25.0	ND	103	65-135	1	20	
1,2-Dichloroethane	30.2	0.50	ug/l	25.0	ND	121	60-150	9	25	
1,1-Dichloroethene	25.6	1.0	ug/l	25.0	ND	102	60-135	2	20	
Ethylbenzene	27.6	1.0	ug/l	25.0	ND	110	65-125	3	20	
Methyl-tert-butyl Ether (MTBE)	22.9	1.0	ug/l	25.0	0.40	90	55-155	4	30	
Naphthalene	23.8	1.0	ug/l	25.0	ND	95	50-145	4	30	
Tetrachloroethene	28.7	1.0	ug/l	25.0	ND	115	70-130	3	20	
Toluene	24.6	1.0	ug/l	25.0	ND	98	65-125	5	20	
Trichloroethene	27.2	1.0	ug/l	25.0	ND	109	70-125	4	20	
Vinyl chloride	31.2	0.50	ug/l	25.0	ND	125	40-135	11	20	
o-Xylene	25.7	1.0	ug/l	25.0	ND	103	65-125	6	20	
m,p-Xylenes	52.7	1.0	ug/l	50.0	ND	105	65-120	7	20	
Surrogate: Dibromofluoromethane	*27.4*		*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*26.8*		*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*27.8*		*ug/l*	*25.0*		*111*	*80-120*			

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PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B23012 Extracted: 02/23/03										
Blank Analyzed: 02/23/03 (3B23012-BLK1)										
Tentatively Identified Compounds	ND	50	ug/l							
Batch: 3B24016 Extracted: 02/24/03										
Blank Analyzed: 02/24/03 (3B24016-BLK1)										
Tentatively Identified Compounds	ND	50	ug/l							

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METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B24039 Extracted: 02/24/03										
Blank Analyzed: 02/25/03 (3B24039-BLK1)										
1,4-Dioxane	ND	0.50	ug/l							
Surrogate: 1,4-Dioxane-d8	*1.18*		*ug/l*	*2.00*		*59*	*40-120*			
LCS Analyzed: 02/25/03 (3B24039-BS1)										
1,4-Dioxane	1.17	0.50	ug/l	2.00		58	40-140			
Surrogate: 1,4-Dioxane-d8	*1.15*		*ug/l*	*2.00*		*58*	*40-120*			
Matrix Spike Analyzed: 02/25/03 (3B24039-MS1)					**Source: IMB1192-06**					
1,4-Dioxane	1.88	0.50	ug/l	1.96	0.88	51	40-140			
Surrogate: 1,4-Dioxane-d8	*1.09*		*ug/l*	*1.96*		*56*	*40-120*			
Matrix Spike Dup Analyzed: 02/25/03 (3B24039-MSD1)					**Source: IMB1192-06**					
1,4-Dioxane	2.01	0.50	ug/l	1.90	0.88	59	40-140	7	30	
Surrogate: 1,4-Dioxane-d8	*1.11*		*ug/l*	*1.90*		*58*	*40-120*			

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INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B20048 Extracted: 02/20/03										
Blank Analyzed: 02/20/03 (3B20048-BLK1)										
Nitrite-N	ND	0.15	mg/l							
Nitrate-N	ND	0.11	mg/l							
Nitrate/Nitrite-N	ND	0.15	mg/l							
LCS Analyzed: 02/20/03 (3B20048-BS1)										
Nitrite-N	1.53	0.15	mg/l	1.52		101	90-110			
Nitrate-N	1.13	0.11	mg/l	1.13		100	90-110			
Matrix Spike Analyzed: 02/20/03 (3B20048-MS1)					**Source: IMB1192-06**					
Nitrite-N	1.79	0.30	mg/l	1.52	ND	118	80-120			
Nitrate-N	12.7	0.22	mg/l	1.13	11	150	80-120			*M1*
Matrix Spike Dup Analyzed: 02/20/03 (3B20048-MSD1)					**Source: IMB1192-06**					
Nitrite-N	1.80	0.30	mg/l	1.52	ND	118	80-120	1	20	
Nitrate-N	12.6	0.22	mg/l	1.13	11	142	80-120	1	20	*M1*
Batch: 3B20102 Extracted: 02/20/03										
Blank Analyzed: 02/20/03 (3B20102-BLK1)										
Chromium VI	ND	0.00030	mg/l							
LCS Analyzed: 02/20/03 (3B20102-BS1)										
Chromium VI	0.0523	0.00030	mg/l	0.0500		105	90-110			
Matrix Spike Analyzed: 02/20/03 (3B20102-MS1)					**Source: IMB1192-06**					
Chromium VI	0.0623	0.00030	mg/l	0.0500	0.012	101	70-130			

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INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B20102 Extracted: 02/20/03										
Matrix Spike Dup Analyzed: 02/20/03 (3B20102-MSD1)					**Source: IMB1192-06**					
Chromium VI	0.0623	0.00030	mg/l	0.0500	0.012	101	70-130	0	15	
Batch: 3C02017 Extracted: 03/02/03										
Blank Analyzed: 03/02/03 (3C02017-BLK1)										
Dissolved Organic Carbon	ND	1.0	mg/l							
LCS Analyzed: 03/02/03 (3C02017-BS1)										
Dissolved Organic Carbon	10.9	1.0	mg/l	10.0		109	90-110			
Matrix Spike Analyzed: 03/02/03 (3C02017-MS1)					**Source: IMB1192-06**					
Dissolved Organic Carbon	6.58	1.0	mg/l	5.00	1.6	100	80-120			
Matrix Spike Dup Analyzed: 03/02/03 (3C02017-MSD1)					**Source: IMB1192-06**					
Dissolved Organic Carbon	6.77	1.0	mg/l	5.00	1.6	103	80-120	3	20	
Batch: 3C02021 Extracted: 03/02/03										
Blank Analyzed: 03/02/03 (3C02021-BLK1)										
Perchlorate	ND	4.0	ug/l							
LCS Analyzed: 03/02/03 (3C02021-BS1)										
Perchlorate	50.0	4.0	ug/l	50.0		100	85-115			
Matrix Spike Analyzed: 03/02/03 (3C02021-MS1)					**Source: IMB1192-06**					
Perchlorate	47.2	4.0	ug/l	50.0	1.2	92	80-120			

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INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3C02021 Extracted: 03/02/03										
Matrix Spike Dup Analyzed: 03/02/03 (3C02021-MSD1)					**Source: IMB1192-06**					
Perchlorate	48.4	4.0	ug/l	50.0	1.2	94	80-120	3	20	

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Camp, Dresser & McKee	Project ID: Omega Chemical	
18581 Teller Avenue, #200	10500	Sampled: 02/20/03
Irvine, CA 92612	Report Number: IMB1192	Received: 02/20/03
Attention: Sharon Wallin		

DATA QUALIFIERS AND DEFINITIONS

M-HA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
R	The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
RL-3	Reporting limit raised due to high concentrations of non-target analytes.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For TICs:

All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library.

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1192

Sampled: 02/20/03
Received: 02/20/03

Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	NELAP	CA	AZ	NV
EPA 218.6	Water		X		
EPA 300.0	Water	X	X	X	
EPA 314.0	Water		X		
EPA 415.1	Water	X	X	X	X
EPA 8260B	Water	X	X	X	
EPA 8270C	Water	X	X	X	

NV and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.dmalabs.com.

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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CHAIN OF CUSTODY FORM

JMB1142

Client Name/Address: CDM 18581 Teller Avenue Ste 200 Irvine CA 92612

Project/PO Number: 10500

Project Manager: Sharon Wallin

Phone Number: 949 752 5452

Sampler: RP MH

Fax Number: 949 752 1307

Analysis Required: 8260B; 1,4-dioxane; perchlorate, NO_3/NO_2; Cr+6; DOC (lab to filter)

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	8260B	1,4-dioxane	perchlorate, NO_3/NO_2	Cr+6	DOC (lab to filter)					Special Instructions
OC-GW-OW5-022003	GW	VOA	3	2-20-03	0820	HCl	X									
		1L Amber	1			None		X								
		500 mL poly	1			None			X							
		500 mL poly	1			NaOH				X						
		VOA	2			None					X					
OC-GW-OW8K-022003		VOA	3		0830	HCl	X									
		1L Amber	1			None		X								
		500mL poly	1			None			X							
			1			NaOH				X						
		VOA	2			None					X					
OC-GW-OW3-022003		VOA	3		1045	HCl	X									
		1L Amber	1			None		X								
		500mL poly	1			None			X							
			1			NaOH				X						

Relinquished By:	Date/Time:	Received by:	Date/Time:	Turnaround Time: (Check)
Nikki Hoffman	2/20/03 18:45			same day ____ 72 hours ____
Relinquished By:	Date/Time:	Received by:	Date/Time:	24 hours ____ 5 days ____
				48 hours ____ normal X
Relinquished By:	Date/Time:	Received in Lab by:	Date/Time:	Sample Integrity: (Check)
			2-20-03 1845	intact X on ice 5 °C

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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CHAIN OF CUSTODY FORM

IMB1192

Client Name/Address: see page 1

Project/PO Number:

Project Manager:

Phone Number:

Sampler:

Fax Number:

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	8260B	1,4-dioxane	perchlorate NO3/NO2	Cr+6	DOC (lab to filter)					Special Instructions
OC-GW-OW3-022003	GW	VOA	2	2 20 03	1045	None					X					
OC-GW-OW3(N)-022003		VOA	3		1105	HCl	X									
		1L Amber	1			None		X								
		500mL poly	1			None			X							
		500mL poly	1			NaOH				X						
		VOA	2			None					X					
OC-GW-OW4B-022003		VOA	3		1430	HCl	X									
		1L Amber	1			None		X								
		500mL poly	1			None			X							
		500mL poly	1			NaOH				X						
		VOA	2			None					X					
OC-GW-OW4A-022003		VOA	~~3~~ 5		1545	HCl	X									MS/MSD
		1L Amber	~~1~~ 3			None		X								
		500mL poly	1			None			X							

Relinquished By:	Date/Time:	Received by:	Date/Time:
[signature]	2/20/03 18:45		
Relinquished By:	Date/Time:	Received by:	Date/Time:
Relinquished By:	Date/Time:	Received in Lab by: [signature]	Date/Time: 2-20-03 1845

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ✓

Sample Integrity: (Check)
intact X on ice 5°C

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CHAIN OF CUSTODY FORM

JMB1192

Client Name/Address: See page 1

Project/PO Number:

Project Manager:

Phone Number:

Sampler:

Fax Number:

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	8260B	Cr+6	DOC (lab to filter)							Special Instructions
OC-GW-OW4A-022003	GW	500mL poly	1	022003	1545	~~None~~ NaOH		X								MS/MSD
		VOA	4		↓	None			X							↓
TripBlank2-022003		VOA	2			HCl	X									

Relinquished By: Mike Hoffman Date/Time: 2/20/03 18:45

Received by: Date/Time:

Relinquished By: Date/Time:

Received by: Date/Time:

Relinquished By: Date/Time:

Received in Lab by: Date/Time: 2-20-03 1845

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
intact X on ice 5°C

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QA/QC PACKAGE: LEVEL IV
PREPARED FOR CAMP DRESSER & MCKEE
LABORATORY NUMBER: IMB1120
PROJECT: OMEGA CHEMICAL 10500

SAMPLED: 02/19/03

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LABORATORY REPORT

Prepared For: Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project: Omega Chemical
10500

Sampled: 02/19/03
Received: 02/19/03
Issued: 03/03/03

NELAP #01108CA CA ELAP#1197 AZ DHS #AZ0428 NV #CA-72

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 1°C, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
EPA 8260B QC batch 3B23012 had Tetrachloroethene (PCE) detected at 0.64 ug/l in the method blank which is above the reporting limit of 0.5 ug/l. The associated samples reported in the batch had PCE concentrations greater than ten times the method blank level and were not affected.
Selected EPA 8260B compounds had MS/MSD recoveries above acceptance limits for QC batch 3B21014 due to sample matrix interference. This batch also had selected spiked sample concentrations that exceeded the instrument linear range, so MS/MSD recoveries could not be calculated or reported. The LCS recoveries were used to control the batch.
EPA 8260B QC batch 3B22003 had MS/MSD RPD values outside acceptance limits for selected compounds due to sample matrix effects. The individual MS and MSD recoveries were within limits.
EPA 300.0 Nitrate-N MS/MSD recoveries were below acceptance limits due to sample matrix interference for QC batch 3B19058. The LCS recovery was used to control the batch.

COMMENTS: EPA 300.0 Nitrite-N results were reported from dilutions for samples IMB1120-01 and -02 due to relatively high concentrations of non-target compounds that caused interference. The reporting limits were elevated as a result of the dilution multiplication factors.
Please note that 1,4-Dioxane was seen for sample IMB1120-01 as a Tentatively Identified Compound (TIC) under EPA method 8260B. The concentration was determined from the nearest Internal Standard response factor, not from a 1,4-Dioxane calibration, and is an estimated value only.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Del Mar Analytical, Irvine
Patty Mata
Project Manager

Del Mar Analytical

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

LABORATORY ID	CLIENT ID	MATRIX
IMB1120-01	OC-GW-OW1-021903	Water
IMB1120-02	OC-GW-OW2-021903	Water
IMB1120-03	OC-GW-OW1B-021903	Water
IMB1120-04	Trip Blank01-021903	Water

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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QA/QC PACKAGE: LEVEL IV
PREPARED FOR CAMP DRESSER & MCKEE
LABORATORY NUMBER: IMB1120
PROJECT: OMEGA CHEMICAL 10500

CHAIN OF CUSTODY FORM

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CHAIN OF CUSTODY FORM

IMB1120

Client Name/Address: CDM 18581 Teller Ave Suite 200 Irvine CA 92612

P.O. #: 10500

Project: Omega Chemical

Project Manager/Phone Number: Sharon Wallin

Phone Number: 949 752 5452

Sampler: mike Huffman / Ross Pickens

Fax Number: 949 752 1307

ANALYSIS REQUIRED

Page 1/2

Sample Description	Sample Matrix	Container Type	# of Containers	Sampling Date/Time	Preservation	8260B	1,4-dioxane 8270M	Hex Cr 7199	Perchlorate, NO_3/NO_2 3000	DOC (lab to filter) 9060					Special Instructions
OC-GW-OW1-021903	GW	VOA	3	2/19/03 1415	HCl	X									CLP like deliverables Level IV for OW1 only
		1L Amber	1		None		X								
		500mL poly	1		~~None~~ NaOH			X							
		500mL poly	1		None				X						
		VOA	2		None					X					
OC-GW-OW2-021903		VOA	3	1550	HCl	X									
		1L Amber	1		None		X								
		500mL poly	1		NaOH			X							
		500mL poly	1		None				X						
		VOA	2		None					X					
OC-GW-OW1B-021903		VOA	3	1630	HCl	X									
		1L Amber	1		None		X								
		500mL poly	1		NaOH			X							
		500mL poly	1		None				X						
		VOA	2		None					X					

Relinquished By	Date/Time:	Received By	Date/Time:
[signature]	~~12/21~~ 2/19/03 1845		
Relinquished By	Date/Time:	Received By	Date/Time:
Relinquished By	Date/Time:	Received By	Date/Time:
		[signature]	2/19/03 18:45

Turnaround Time: (check)
Same Day _____ 72 Hours _____
24 Hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
Intact X On Ice: 1°C

5

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CHAIN OF CUSTODY FORM

JMB1120

Client Name/Address: CDM 18581 Teller Ave Ste 200 Irvine CA 92612

P.O. #:

Project: See page 1

Project Manager/Phone Number:

Phone Number:

Sampler:

Fax Number:

ANALYSIS REQUIRED: 8260B

page 2/2

Sample Description	Sample Matrix	Container Type	# of Containers	Sampling Date/Time	Preservation	8260B	Special Instructions
~~Tripblank01 021903~~	~~W~~	~~VOA~~					
Tripblank01-021903	W	VOA	2	—	HCl	X	

Relinquished By: [signature] Date/Time: 2/19/03 1845

Received By: Date/Time:

Relinquished By: Date/Time:

Received By: Date/Time:

Relinquished By: Date/Time:

Received By: [signature] Date/Time: 2/19/03 1845

Turnaround Time: (check)
Same Day ____ 72 Hours ____
24 Hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
Intact X On Ice: 1°C

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QA/QC PACKAGE: LEVEL IV
PREPARED FOR CAMP DRESSER & MCKEE
LABORATORY NUMBER: IMB1120
PROJECT: OMEGA CHEMICAL 10500

ANALYTICAL REPORT

Del Mar Analytical

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: IMB1120-01 (OC-GW-OW1-021903 - Water)								
Acetone	EPA 8260B	3B21014	10	ND	1	2/21/2003	2/21/2003	
Benzene	EPA 8260B	3B21014	0.50	**15**	1	2/21/2003	2/21/2003	M1
Bromobenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Bromochloromethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Bromodichloromethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Bromoform	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	M1
Bromomethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
n-Butylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
sec-Butylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
tert-Butylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Carbon tetrachloride	EPA 8260B	3B21014	0.50	ND	1	2/21/2003	2/21/2003	
Chlorobenzene	EPA 8260B	3B21014	1.0	**7.8**	1	2/21/2003	2/21/2003	M1
Chloroethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Chloromethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
2-Chlorotoluene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
4-Chlorotoluene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Dibromochloromethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	M1
1,2-Dibromo-3-chloropropane	EPA 8260B	3B21014	5.0	ND	1	2/21/2003	2/21/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Dibromomethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,2-Dichlorobenzene	EPA 8260B	3B21014	1.0	**15**	1	2/21/2003	2/21/2003	
1,3-Dichlorobenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,4-Dichlorobenzene	EPA 8260B	3B21014	1.0	**3.0**	1	2/21/2003	2/21/2003	
Dichlorodifluoromethane	EPA 8260B	3B21014	5.0	ND	1	2/21/2003	2/21/2003	
1,1-Dichloroethane	EPA 8260B	3B21014	1.0	**88**	1	2/21/2003	2/21/2003	M1
1,2-Dichloroethane	EPA 8260B	3B21014	0.50	**84**	1	2/21/2003	2/21/2003	M1
cis-1,2-Dichloroethene	EPA 8260B	3B21014	1.0	**8.6**	1	2/21/2003	2/21/2003	
trans-1,2-Dichloroethene	EPA 8260B	3B21014	1.0	**39**	1	2/21/2003	2/21/2003	
1,2-Dichloropropane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,3-Dichloropropane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
2,2-Dichloropropane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,1-Dichloropropene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
cis-1,3-Dichloropropene	EPA 8260B	3B21014	0.50	ND	1	2/21/2003	2/21/2003	
trans-1,3-Dichloropropene	EPA 8260B	3B21014	0.50	ND	1	2/21/2003	2/21/2003	
Ethylbenzene	EPA 8260B	3B21014	1.0	**8.1**	1	2/21/2003	2/21/2003	M1
Hexachlorobutadiene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Isopropylbenzene	EPA 8260B	3B21014	1.0	**2.3**	1	2/21/2003	2/21/2003	
p-Isopropyltoluene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Methylene chloride	EPA 8260B	3B21014	5.0	**72**	1	2/21/2003	2/21/2003	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Naphthalene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: IMB1120-01 (OC-GW-OW1-021903 - Water)								
n-Propylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Styrene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3B21014	1.0	**32**	1	2/21/2003	2/21/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Toluene	EPA 8260B	3B21014	1.0	**24**	1	2/21/2003	2/21/2003	M1
1,2,3-Trichlorobenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,1,2-Trichloroethane	EPA 8260B	3B21014	1.0	**4.7**	1	2/21/2003	2/21/2003	
Trichlorofluoromethane	EPA 8260B	3B21014	1.0	**120**	1	2/21/2003	2/21/2003	
1,2,3-Trichloropropane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Vinyl chloride	EPA 8260B	3B21014	0.50	ND	1	2/21/2003	2/21/2003	
o-Xylene	EPA 8260B	3B21014	1.0	**3.4**	1	2/21/2003	2/21/2003	M1
m,p-Xylenes	EPA 8260B	3B21014	1.0	**1.0**	1	2/21/2003	2/21/2003	M1
Surrogate: Dibromofluoromethane (80-120%)				*103 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*105 %*				

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Project ID: Omega Chemical
10500
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Sampled: 02/19/03
Received: 02/19/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: IMB1120-01RE1 (OC-GW-OW1-021903 - Water)								
Chloroform	EPA 8260B	3B22003	20	**500**	20	2/22/2003	2/22/2003	
1,1-Dichloroethene	EPA 8260B	3B22003	20	**2600**	20	2/22/2003	2/22/2003	
Trichloroethene	EPA 8260B	3B22003	20	**3000**	20	2/22/2003	2/22/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3B22003	100	**510**	20	2/22/2003	2/22/2003	
Surrogate: Dibromofluoromethane (80-120%)				*117 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				

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Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: IMB1120-01RE2 (OC-GW-OW1-021903 - Water)								
Tetrachloroethene	EPA 8260B	3B23012	1000	**100000**	1000	2/23/2003	2/23/2003	
1,1,1-Trichloroethane	EPA 8260B	3B23012	1000	**10000**	1000	2/23/2003	2/23/2003	
Surrogate: Dibromofluoromethane (80-120%)				*116 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*101 %*				

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Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: IMB1120-02 (OC-GW-OW2-021903 - Water)								
Acetone	EPA 8260B	3B21014	10	ND	1	2/21/2003	2/21/2003	
Benzene	EPA 8260B	3B21014	0.50	ND	1	2/21/2003	2/21/2003	
Bromobenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Bromochloromethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Bromodichloromethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Bromoform	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Bromomethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
n-Butylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
sec-Butylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
tert-Butylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Carbon tetrachloride	EPA 8260B	3B21014	0.50	ND	1	2/21/2003	2/21/2003	
Chlorobenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Chloroethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Chloroform	EPA 8260B	3B21014	1.0	**1.9**	1	2/21/2003	2/21/2003	
Chloromethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
2-Chlorotoluene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
4-Chlorotoluene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Dibromochloromethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3B21014	5.0	ND	1	2/21/2003	2/21/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Dibromomethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,2-Dichlorobenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,3-Dichlorobenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,4-Dichlorobenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Dichlorodifluoromethane	EPA 8260B	3B21014	5.0	ND	1	2/21/2003	2/21/2003	
1,1-Dichloroethane	EPA 8260B	3B21014	1.0	**1.9**	1	2/21/2003	2/21/2003	
1,2-Dichloroethane	EPA 8260B	3B21014	0.50	ND	1	2/21/2003	2/21/2003	
cis-1,2-Dichloroethene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
trans-1,2-Dichloroethene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,2-Dichloropropane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,3-Dichloropropane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
2,2-Dichloropropane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,1-Dichloropropene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
cis-1,3-Dichloropropene	EPA 8260B	3B21014	0.50	ND	1	2/21/2003	2/21/2003	
trans-1,3-Dichloropropene	EPA 8260B	3B21014	0.50	ND	1	2/21/2003	2/21/2003	
Ethylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Hexachlorobutadiene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Isopropylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
p-Isopropyltoluene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Methylene chloride	EPA 8260B	3B21014	5.0	ND	1	2/21/2003	2/21/2003	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	

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Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: IMB1120-02 (OC-GW-OW2-021903 - Water)								
Naphthalene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
n-Propylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Styrene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Toluene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,1,1-Trichloroethane	EPA 8260B	3B21014	1.0	**5.9**	1	2/21/2003	2/21/2003	
1,1,2-Trichloroethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Trichloroethene	EPA 8260B	3B21014	1.0	**150**	1	2/21/2003	2/21/2003	
1,2,3-Trichloropropane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Vinyl chloride	EPA 8260B	3B21014	0.50	ND	1	2/21/2003	2/21/2003	
o-Xylene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
m,p-Xylenes	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				

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Betty Mata
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10500
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Sampled: 02/19/03
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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: IMB1120-02RE1 (OC-GW-OW2-021903 - Water)								
1,1-Dichloroethene	EPA 8260B	3B23012	10	**790**	10	2/23/2003	2/23/2003	
Tetrachloroethene	EPA 8260B	3B23012	10	**1300**	10	2/23/2003	2/23/2003	
Trichlorofluoromethane	EPA 8260B	3B23012	10	**280**	10	2/23/2003	2/23/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3B23012	50	**820**	10	2/23/2003	2/23/2003	
Surrogate: Dibromofluoromethane (80-120%)				*118 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*103 %*				

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Project ID: Omega Chemical
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Sampled: 02/19/03
Received: 02/19/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: IMB1120-03 (OC-GW-OW1B-021903 - Water)								
Acetone	EPA 8260B	3B22003	10	ND	1	2/22/2003	2/22/2003	
Benzene	EPA 8260B	3B22003	0.50	**0.62**	1	2/22/2003	2/22/2003	
Bromobenzene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Bromochloromethane	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Bromodichloromethane	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Bromoform	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Bromomethane	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
n-Butylbenzene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
sec-Butylbenzene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
tert-Butylbenzene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Carbon tetrachloride	EPA 8260B	3B22003	0.50	ND	1	2/22/2003	2/22/2003	
Chlorobenzene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Chloroethane	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Chloroform	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Chloromethane	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
2-Chlorotoluene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
4-Chlorotoluene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Dibromochloromethane	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3B22003	5.0	ND	1	2/22/2003	2/22/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Dibromomethane	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
1,2-Dichlorobenzene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
1,3-Dichlorobenzene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
1,4-Dichlorobenzene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Dichlorodifluoromethane	EPA 8260B	3B22003	5.0	ND	1	2/22/2003	2/22/2003	
1,1-Dichloroethane	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
1,2-Dichloroethane	EPA 8260B	3B22003	0.50	**0.64**	1	2/22/2003	2/22/2003	
1,1-Dichloroethene	EPA 8260B	3B22003	1.0	**3.1**	1	2/22/2003	2/22/2003	
cis-1,2-Dichloroethene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
trans-1,2-Dichloroethene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
1,2-Dichloropropane	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
1,3-Dichloropropane	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
2,2-Dichloropropane	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
1,1-Dichloropropene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
cis-1,3-Dichloropropene	EPA 8260B	3B22003	0.50	ND	1	2/22/2003	2/22/2003	
trans-1,3-Dichloropropene	EPA 8260B	3B22003	0.50	ND	1	2/22/2003	2/22/2003	
Ethylbenzene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Hexachlorobutadiene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Isopropylbenzene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
p-Isopropyltoluene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Methylene chloride	EPA 8260B	3B22003	5.0	ND	1	2/22/2003	2/22/2003	

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: IMB1120-03 (OC-GW-OW1B-021903 - Water)								
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Naphthalene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
n-Propylbenzene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Styrene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Tetrachloroethene	EPA 8260B	3B22003	1.0	**45**	1	2/22/2003	2/22/2003	
Toluene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
1,1,1-Trichloroethane	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
1,1,2-Trichloroethane	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Trichloroethene	EPA 8260B	3B22003	1.0	**2.2**	1	2/22/2003	2/22/2003	
Trichlorofluoromethane	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3B22003	5.0	ND	1	2/22/2003	2/22/2003	
1,2,3-Trichloropropane	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Vinyl chloride	EPA 8260B	3B22003	0.50	**0.60**	1	2/22/2003	2/22/2003	
o-Xylene	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
m,p-Xylenes	EPA 8260B	3B22003	1.0	ND	1	2/22/2003	2/22/2003	
Surrogate: Dibromofluoromethane (80-120%)				*116 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: IMB1120-04 (Trip Blank01-021903 - Water)								
Acetone	EPA 8260B	3B21014	10	ND	1	2/21/2003	2/21/2003	
Benzene	EPA 8260B	3B21014	0.50	ND	1	2/21/2003	2/21/2003	
Bromobenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Bromochloromethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Bromodichloromethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Bromoform	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Bromomethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
n-Butylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
sec-Butylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
tert-Butylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Carbon tetrachloride	EPA 8260B	3B21014	0.50	ND	1	2/21/2003	2/21/2003	
Chlorobenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Chloroethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Chloroform	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Chloromethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
2-Chlorotoluene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
4-Chlorotoluene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Dibromochloromethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3B21014	5.0	ND	1	2/21/2003	2/21/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Dibromomethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,2-Dichlorobenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,3-Dichlorobenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,4-Dichlorobenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Dichlorodifluoromethane	EPA 8260B	3B21014	5.0	ND	1	2/21/2003	2/21/2003	
1,1-Dichloroethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,2-Dichloroethane	EPA 8260B	3B21014	0.50	ND	1	2/21/2003	2/21/2003	
1,1-Dichloroethene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
cis-1,2-Dichloroethene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
trans-1,2-Dichloroethene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,2-Dichloropropane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,3-Dichloropropane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
2,2-Dichloropropane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,1-Dichloropropene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
cis-1,3-Dichloropropene	EPA 8260B	3B21014	0.50	ND	1	2/21/2003	2/21/2003	
trans-1,3-Dichloropropene	EPA 8260B	3B21014	0.50	ND	1	2/21/2003	2/21/2003	
Ethylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Hexachlorobutadiene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Isopropylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
p-Isopropyltoluene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Methylene chloride	EPA 8260B	3B21014	5.0	ND	1	2/21/2003	2/21/2003	

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: IMB1120-04 (Trip Blank01-021903 - Water)								
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Naphthalene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
n-Propylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Styrene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Tetrachloroethene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Toluene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,1,1-Trichloroethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,1,2-Trichloroethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Trichloroethene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Trichlorofluoromethane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	3B21014	5.0	ND	1	2/21/2003	2/21/2003	
1,2,3-Trichloropropane	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Vinyl chloride	EPA 8260B	3B21014	0.50	ND	1	2/21/2003	2/21/2003	
o-Xylene	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
m,p-Xylenes	EPA 8260B	3B21014	1.0	ND	1	2/21/2003	2/21/2003	
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*102 %*				

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Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: IMB1120-01 (OC-GW-OW1-021903 - Water)								
1,4-dioxane	EPA 8260B	3B21014	50	**280**	1	2/21/2003	2/21/2003	
Sample ID: IMB1120-02 (OC-GW-OW2-021903 - Water)								
Tentatively Identified Compounds	EPA 8260B	3B21014	50	ND	1	2/21/2003	2/21/2003	
Sample ID: IMB1120-03 (OC-GW-OW1B-021903 - Water)								
Tentatively Identified Compounds	EPA 8260B	3B22003	50	ND	1	2/22/2003	2/22/2003	
Sample ID: IMB1120-04 (Trip Blank01-021903 - Water)								
Tentatively Identified Compounds	EPA 8260B	3B21014	50	ND	1	2/21/2003	2/21/2003	

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Camp, Dresser & McKee
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Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: IMB1120-01 (OC-GW-OW1-021903 - Water)								
1,4-Dioxane	EPA 8270C	3B20064	5000	**52000**	9620	2/20/2003	2/25/2003	
Surrogate: 1,4-Dioxane-d8 (40-120%)				*				*Z3*
Sample ID: IMB1120-02 (OC-GW-OW2-021903 - Water)								
1,4-Dioxane	EPA 8270C	3B20064	0.50	**1.4**	0.952	2/20/2003	2/25/2003	
Surrogate: 1,4-Dioxane-d8 (40-120%)				*59 %*				
Sample ID: IMB1120-03 (OC-GW-OW1B-021903 - Water)								
1,4-Dioxane	EPA 8270C	3B20064	2.5	**17**	4.76	2/20/2003	2/25/2003	
Surrogate: 1,4-Dioxane-d8 (40-120%)				*51 %*				

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10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/l	mg/l				
Sample ID: IMB1120-01 (OC-GW-OW1-021903 - Water)								
Chromium VI	EPA 218.6	3B19057	0.00030	ND	1	2/19/2003	2/19/2003	
Dissolved Organic Carbon	EPA 415.1	3B27088	5.0	**52**	5	2/27/2003	2/27/2003	
Nitrite-N	EPA 300.0	3B20030	0.30	ND	2	2/20/2003	2/20/2003	RL-3
Nitrate-N	EPA 300.0	3B20030	0.22	**11**	2	2/20/2003	2/20/2003	
Nitrate/Nitrite-N	EPA 300.0	3B20030	0.30	**11**	2	2/20/2003	2/20/2003	
			ug/l	ug/l				
Sample ID: IMB1120-01 (OC-GW-OW1-021903 - Water)								
Perchlorate	EPA 314.0	3B20085	4.0	ND	1	2/20/2003	2/21/2003	
			mg/l	mg/l				
Sample ID: IMB1120-02 (OC-GW-OW2-021903 - Water)								
Chromium VI	EPA 218.6	3B19057	0.00030	**0.0031**	1	2/19/2003	2/19/2003	
Dissolved Organic Carbon	EPA 415.1	3B27088	1.0	**1.5**	1	2/27/2003	2/27/2003	
Nitrite-N	EPA 300.0	3B20030	0.30	ND	2	2/20/2003	2/20/2003	RL-3
Nitrate-N	EPA 300.0	3B20030	0.22	**11**	2	2/20/2003	2/20/2003	
Nitrate/Nitrite-N	EPA 300.0	3B20030	0.30	**11**	2	2/20/2003	2/20/2003	
			ug/l	ug/l				
Sample ID: IMB1120-02 (OC-GW-OW2-021903 - Water)								
Perchlorate	EPA 314.0	3B20085	4.0	ND	1	2/20/2003	2/21/2003	

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/l	mg/l				
Sample ID: IMB1120-03 (OC-GW-OW1B-021903 - Water)								
Chromium VI	EPA 218.6	3B19057	0.00030	ND	1	2/19/2003	2/19/2003	
Dissolved Organic Carbon	EPA 415.1	3B27088	1.0	**1.3**	1	2/27/2003	2/27/2003	
Nitrite-N	EPA 300.0	3B19058	0.30	**1.0**	2	2/19/2003	2/19/2003	
Nitrate-N	EPA 300.0	3B19058	0.22	**2.7**	2	2/19/2003	2/19/2003	
Nitrate/Nitrite-N	EPA 300.0	3B19058	0.30	**3.7**	2	2/19/2003	2/19/2003	
			ug/l	ug/l				
Sample ID: IMB1120-03 (OC-GW-OW1B-021903 - Water)								
Perchlorate	EPA 314.0	3B20085	4.0	ND	1	2/20/2003	2/21/2003	

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Camp, Dresser & McKee
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Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: OC-GW-OW1-021903 (IMB1120-01) - Water					
EPA 218.6	1	02/19/2003 14:15	02/19/2003 18:45	02/19/2003 19:55	02/19/2003 20:04
EPA 300.0	2	02/19/2003 14:15	02/19/2003 18:45	02/20/2003 08:15	02/20/2003 09:19
Sample ID: OC-GW-OW2-021903 (IMB1120-02) - Water					
EPA 218.6	1	02/19/2003 15:50	02/19/2003 18:45	02/19/2003 19:55	02/19/2003 20:13
EPA 300.0	2	02/19/2003 15:50	02/19/2003 18:45	02/20/2003 08:15	02/20/2003 09:34
Sample ID: OC-GW-OW1B-021903 (IMB1120-03) - Water					
EPA 218.6	1	02/19/2003 16:30	02/19/2003 18:45	02/19/2003 19:55	02/19/2003 20:52
EPA 300.0	2	02/19/2003 16:30	02/19/2003 18:45	02/19/2003 08:13	02/19/2003 22:13

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QA/QC PACKAGE: LEVEL IV
PREPARED FOR CAMP DRESSER & MCKEE
LABORATORY NUMBER: IMB1120
PROJECT: OMEGA CHEMICAL 10500

QUALITY CONTROL SUMMARY

- METHOD BLANKS
- MS/MSD DATA REPORTS
- LCS DATA REPORTS

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B21014 Extracted: 02/21/03										
Blank Analyzed: 02/21/03 (3B21014-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							

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Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B21014 Extracted: 02/21/03										
Blank Analyzed: 02/21/03 (3B21014-BLK1)										
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*24.8*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B21014 Extracted: 02/21/03										
LCS Analyzed: 02/21/03 (3B21014-BS1)										
Acetone	18.6	10	ug/l	25.0		74	30-145			
Benzene	24.1	0.50	ug/l	25.0		96	70-120			
Bromobenzene	25.4	1.0	ug/l	25.0		102	80-120			
Bromochloromethane	27.3	1.0	ug/l	25.0		109	65-135			
Bromodichloromethane	27.0	1.0	ug/l	25.0		108	70-140			
Bromoform	28.7	1.0	ug/l	25.0		115	55-135			
Bromomethane	22.2	1.0	ug/l	25.0		89	65-140			
n-Butylbenzene	26.2	1.0	ug/l	25.0		105	75-130			
sec-Butylbenzene	25.0	1.0	ug/l	25.0		100	75-125			
tert-Butylbenzene	24.9	1.0	ug/l	25.0		100	75-125			
Carbon tetrachloride	28.4	0.50	ug/l	25.0		114	65-155			
Chlorobenzene	26.6	1.0	ug/l	25.0		106	80-125			
Chloroethane	24.1	1.0	ug/l	25.0		96	60-145			
Chloroform	26.0	1.0	ug/l	25.0		104	70-130			*M3*
Chloromethane	19.8	1.0	ug/l	25.0		79	40-145			
2-Chlorotoluene	24.0	1.0	ug/l	25.0		96	75-125			
4-Chlorotoluene	24.4	1.0	ug/l	25.0		98	75-125			
Dibromochloromethane	26.4	1.0	ug/l	25.0		106	65-145			
1,2-Dibromo-3-chloropropane	25.5	5.0	ug/l	25.0		102	50-130			
1,2-Dibromoethane (EDB)	26.9	1.0	ug/l	25.0		108	75-125			
Dibromomethane	27.1	1.0	ug/l	25.0		108	70-130			
1,2-Dichlorobenzene	26.7	1.0	ug/l	25.0		107	80-120			
1,3-Dichlorobenzene	25.6	1.0	ug/l	25.0		102	75-120			
1,4-Dichlorobenzene	25.7	1.0	ug/l	25.0		103	75-120			
Dichlorodifluoromethane	15.5	5.0	ug/l	25.0		62	10-160			
1,1-Dichloroethane	24.0	1.0	ug/l	25.0		96	70-135			
1,2-Dichloroethane	26.7	0.50	ug/l	25.0		107	60-150			
1,1-Dichloroethene	24.6	1.0	ug/l	25.0		98	70-130			*M3*
cis-1,2-Dichloroethene	25.3	1.0	ug/l	25.0		101	70-125			
trans-1,2-Dichloroethene	24.6	1.0	ug/l	25.0		98	70-130			
1,2-Dichloropropane	24.0	1.0	ug/l	25.0		96	65-120			
1,3-Dichloropropane	26.4	1.0	ug/l	25.0		106	70-130			
2,2-Dichloropropane	24.0	1.0	ug/l	25.0		96	70-150			
1,1-Dichloropropene	25.2	1.0	ug/l	25.0		101	75-130			
cis-1,3-Dichloropropene	24.4	0.50	ug/l	25.0		98	75-130			
trans-1,3-Dichloropropene	25.2	0.50	ug/l	25.0		101	70-135			

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B21014 Extracted: 02/21/03										
LCS Analyzed: 02/21/03 (3B21014-BS1)										
Ethylbenzene	26.3	1.0	ug/l	25.0		105	70-125			
Hexachlorobutadiene	26.6	1.0	ug/l	25.0		106	70-140			
Isopropylbenzene	25.4	1.0	ug/l	25.0		102	70-125			
p-Isopropyltoluene	26.1	1.0	ug/l	25.0		104	75-125			
Methylene chloride	23.9	5.0	ug/l	25.0		96	60-135			
Methyl-tert-butyl Ether (MTBE)	27.4	1.0	ug/l	25.0		110	55-145			
Naphthalene	28.3	1.0	ug/l	25.0		113	50-145			
n-Propylbenzene	25.0	1.0	ug/l	25.0		100	75-130			
Styrene	26.2	1.0	ug/l	25.0		105	80-135			
1,1,1,2-Tetrachloroethane	28.5	1.0	ug/l	25.0		114	70-145			
1,1,2,2-Tetrachloroethane	24.6	1.0	ug/l	25.0		98	60-135			
Tetrachloroethene	27.4	1.0	ug/l	25.0		110	80-125			*M3*
Toluene	25.4	1.0	ug/l	25.0		102	70-120			
1,2,3-Trichlorobenzene	28.7	1.0	ug/l	25.0		115	65-135			
1,2,4-Trichlorobenzene	29.3	1.0	ug/l	25.0		117	70-140			
1,1,1-Trichloroethane	27.8	1.0	ug/l	25.0		111	70-140			
1,1,2-Trichloroethane	25.8	1.0	ug/l	25.0		103	70-125			
Trichloroethene	26.5	1.0	ug/l	25.0		106	75-120			*M3*
Trichlorofluoromethane	24.0	1.0	ug/l	25.0		96	65-145			
1,2,3-Trichloropropane	24.0	1.0	ug/l	25.0		96	60-130			
1,2,4-Trimethylbenzene	24.7	1.0	ug/l	25.0		99	80-125			
1,3,5-Trimethylbenzene	25.0	1.0	ug/l	25.0		100	80-125			
Vinyl chloride	20.1	0.50	ug/l	25.0		80	50-130			
o-Xylene	25.7	1.0	ug/l	25.0		103	70-125			
m,p-Xylenes	52.4	1.0	ug/l	50.0		105	70-120			
Surrogate: Dibromofluoromethane	*26.1*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.4*		*ug/l*	*25.0*		*106*	*80-120*			

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B21014 Extracted: 02/21/03										
Matrix Spike Analyzed: 02/21/03 (3B21014-MS1)					**Source: IMB1120-04**					
Benzene	36.8	0.50	ug/l	25.0	ND	147	60-125			*M1*
Bromodichloromethane	33.5	1.0	ug/l	25.0	ND	134	70-140			
Bromoform	59.3	1.0	ug/l	25.0	ND	237	50-140			*M1*
Chlorobenzene	63.3	1.0	ug/l	25.0	ND	253	75-125			*M1*
Dibromochloromethane	60.3	1.0	ug/l	25.0	ND	241	65-145			*M1*
1,4-Dichlorobenzene	26.6	1.0	ug/l	25.0	ND	106	70-120			
1,1-Dichloroethane	106	1.0	ug/l	25.0	ND	424	65-135			*M1*
1,2-Dichloroethane	103	0.50	ug/l	25.0	ND	412	60-150			*M1*
Ethylbenzene	64.4	1.0	ug/l	25.0	ND	258	65-125			*M1*
Methyl-tert-butyl Ether (MTBE)	25.5	1.0	ug/l	25.0	ND	102	55-155			
Naphthalene	25.6	1.0	ug/l	25.0	ND	102	50-145			
Toluene	46.7	1.0	ug/l	25.0	ND	187	65-125			*M1*
Vinyl chloride	17.6	0.50	ug/l	25.0	ND	70	40-135			
o-Xylene	53.7	1.0	ug/l	25.0	ND	215	65-125			*M1*
m,p-Xylenes	98.8	1.0	ug/l	50.0	ND	198	65-120			*M1*
Surrogate: Dibromofluoromethane	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*26.4*		*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*52.4*		*ug/l*	*25.0*		*210*	*80-120*			*ZX*
Matrix Spike Dup Analyzed: 02/21/03 (3B21014-MSD1)					**Source: IMB1120-04**					
Benzene	37.2	0.50	ug/l	25.0	ND	149	60-125	1	20	*M1*
Bromodichloromethane	25.7	1.0	ug/l	25.0	ND	103	70-140	26	20	*R*
Bromoform	56.5	1.0	ug/l	25.0	ND	226	50-140	5	30	*M1*
Chlorobenzene	63.4	1.0	ug/l	25.0	ND	254	75-125	0	20	*M1*
Dibromochloromethane	58.4	1.0	ug/l	25.0	ND	234	65-145	3	25	*M1*
1,4-Dichlorobenzene	27.3	1.0	ug/l	25.0	ND	109	70-120	3	20	
1,1-Dichloroethane	105	1.0	ug/l	25.0	ND	420	65-135	1	20	*M1*
1,2-Dichloroethane	99.8	0.50	ug/l	25.0	ND	399	60-150	3	25	*M1*
Ethylbenzene	64.6	1.0	ug/l	25.0	ND	258	65-125	0	20	*M1*
Methyl-tert-butyl Ether (MTBE)	24.1	1.0	ug/l	25.0	ND	96	55-155	6	30	
Naphthalene	24.8	1.0	ug/l	25.0	ND	99	50-145	3	30	
Toluene	46.8	1.0	ug/l	25.0	ND	187	65-125	0	20	*M1*
Vinyl chloride	18.4	0.50	ug/l	25.0	ND	74	40-135	4	20	
o-Xylene	53.7	1.0	ug/l	25.0	ND	215	65-125	0	20	*M1*
m,p-Xylenes	99.4	1.0	ug/l	50.0	ND	199	65-120	1	20	*M1*
Surrogate: Dibromofluoromethane	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			

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Butty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B21014 Extracted: 02/21/03										
Matrix Spike Dup Analyzed: 02/21/03 (3B21014-MSD1)					**Source: IMB1120-04**					
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*51.2*		*ug/l*	*25.0*		*205*	*80-120*			*ZX*
Batch: 3B22003 Extracted: 02/22/03										
Blank Analyzed: 02/22/03 (3B22003-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							

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10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B22003 Extracted: 02/22/03										
Blank Analyzed: 02/22/03 (3B22003-BLK1)										
1,3-Dichloropropane	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*28.6*		*ug/l*	*25.0*		*114*	*80-120*			
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			

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10500
Report Number: IMB1120

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Received: 02/19/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B22003 Extracted: 02/22/03										
LCS Analyzed: 02/22/03 (3B22003-BS1)										
Acetone	25.4	10	ug/l	25.0		102	30-145			
Benzene	23.8	0.50	ug/l	25.0		95	70-120			
Bromobenzene	24.9	1.0	ug/l	25.0		100	80-120			
Bromochloromethane	27.1	1.0	ug/l	25.0		108	65-135			
Bromodichloromethane	25.6	1.0	ug/l	25.0		102	70-140			
Bromoform	24.7	1.0	ug/l	25.0		99	55-135			
Bromomethane	24.6	1.0	ug/l	25.0		98	65-140			
n-Butylbenzene	23.7	1.0	ug/l	25.0		95	75-130			
sec-Butylbenzene	22.6	1.0	ug/l	25.0		90	75-125			
tert-Butylbenzene	24.4	1.0	ug/l	25.0		98	75-125			
Carbon tetrachloride	24.8	0.50	ug/l	25.0		99	65-155			
Chlorobenzene	23.6	1.0	ug/l	25.0		94	80-125			
Chloroethane	28.7	1.0	ug/l	25.0		115	60-145			
Chloroform	25.7	1.0	ug/l	25.0		103	70-130			
Chloromethane	24.0	1.0	ug/l	25.0		96	40-145			
2-Chlorotoluene	24.3	1.0	ug/l	25.0		97	75-125			
4-Chlorotoluene	24.8	1.0	ug/l	25.0		99	75-125			
Dibromochloromethane	26.4	1.0	ug/l	25.0		106	65-145			
1,2-Dibromo-3-chloropropane	27.3	5.0	ug/l	25.0		109	50-130			
1,2-Dibromoethane (EDB)	26.0	1.0	ug/l	25.0		104	75-125			
Dibromomethane	26.4	1.0	ug/l	25.0		106	70-130			
1,2-Dichlorobenzene	24.6	1.0	ug/l	25.0		98	80-120			
1,3-Dichlorobenzene	23.8	1.0	ug/l	25.0		95	75-120			
1,4-Dichlorobenzene	23.9	1.0	ug/l	25.0		96	75-120			
Dichlorodifluoromethane	18.5	5.0	ug/l	25.0		74	10-160			
1,1-Dichloroethane	24.9	1.0	ug/l	25.0		100	70-135			
1,2-Dichloroethane	24.4	0.50	ug/l	25.0		98	60-150			
1,1-Dichloroethene	26.9	1.0	ug/l	25.0		108	70-130			
cis-1,2-Dichloroethene	26.1	1.0	ug/l	25.0		104	70-125			
trans-1,2-Dichloroethene	25.8	1.0	ug/l	25.0		103	70-130			
1,2-Dichloropropane	24.3	1.0	ug/l	25.0		97	65-120			
1,3-Dichloropropane	25.2	1.0	ug/l	25.0		101	70-130			
2,2-Dichloropropane	25.7	1.0	ug/l	25.0		103	70-150			
1,1-Dichloropropene	24.3	1.0	ug/l	25.0		97	75-130			
cis-1,3-Dichloropropene	24.5	0.50	ug/l	25.0		98	75-130			
trans-1,3-Dichloropropene	25.3	0.50	ug/l	25.0		101	70-135			

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Camp, Dresser & McKee
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Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B22003 Extracted: 02/22/03										
LCS Analyzed: 02/22/03 (3B22003-BS1)										
Ethylbenzene	23.5	1.0	ug/l	25.0		94	70-125			
Hexachlorobutadiene	25.2	1.0	ug/l	25.0		101	70-140			
Isopropylbenzene	24.7	1.0	ug/l	25.0		99	70-125			
p-Isopropyltoluene	23.3	1.0	ug/l	25.0		93	75-125			
Methylene chloride	27.2	5.0	ug/l	25.0		109	60-135			
Methyl-tert-butyl Ether (MTBE)	28.1	1.0	ug/l	25.0		112	55-145			
Naphthalene	27.2	1.0	ug/l	25.0		109	50-145			
n-Propylbenzene	24.3	1.0	ug/l	25.0		97	75-130			
Styrene	23.6	1.0	ug/l	25.0		94	80-135			
1,1,1,2-Tetrachloroethane	24.8	1.0	ug/l	25.0		99	70-145			
1,1,2,2-Tetrachloroethane	28.7	1.0	ug/l	25.0		115	60-135			
Tetrachloroethene	24.0	1.0	ug/l	25.0		96	80-125			
Toluene	22.6	1.0	ug/l	25.0		90	70-120			
1,2,3-Trichlorobenzene	25.9	1.0	ug/l	25.0		104	65-135			
1,2,4-Trichlorobenzene	26.3	1.0	ug/l	25.0		105	70-140			
1,1,1-Trichloroethane	26.1	1.0	ug/l	25.0		104	70-140			
1,1,2-Trichloroethane	25.8	1.0	ug/l	25.0		103	70-125			
Trichloroethene	24.0	1.0	ug/l	25.0		96	75-120			
Trichlorofluoromethane	26.9	1.0	ug/l	25.0		108	65-145			
1,2,3-Trichloropropane	25.5	1.0	ug/l	25.0		102	60-130			
1,2,4-Trimethylbenzene	23.2	1.0	ug/l	25.0		93	80-125			
1,3,5-Trimethylbenzene	23.9	1.0	ug/l	25.0		96	80-125			
Vinyl chloride	21.2	0.50	ug/l	25.0		85	50-130			
o-Xylene	22.3	1.0	ug/l	25.0		89	70-125			
m,p-Xylenes	45.4	1.0	ug/l	50.0		91	70-120			
Surrogate: Dibromofluoromethane	*28.6*		*ug/l*	*25.0*		*114*	*80-120*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.8*		*ug/l*	*25.0*		*99*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B22003 Extracted: 02/22/03										
Matrix Spike Analyzed: 02/22/03 (3B22003-MS1)					**Source: IMB1121-05**					
Benzene	23.0	0.50	ug/l	25.0	ND	92	60-125			
Bromodichloromethane	23.2	1.0	ug/l	25.0	ND	93	70-140			
Bromoform	18.8	1.0	ug/l	25.0	ND	75	50-140			
Chlorobenzene	23.2	1.0	ug/l	25.0	ND	93	75-125			
Chloroform	24.4	1.0	ug/l	25.0	ND	98	70-130			
Dibromochloromethane	21.6	1.0	ug/l	25.0	ND	86	65-145			
1,4-Dichlorobenzene	23.0	1.0	ug/l	25.0	ND	92	70-120			
1,1-Dichloroethane	23.7	1.0	ug/l	25.0	ND	95	65-135			
1,2-Dichloroethane	20.4	0.50	ug/l	25.0	ND	82	60-150			
1,1-Dichloroethene	25.5	1.0	ug/l	25.0	ND	102	60-135			
Ethylbenzene	23.4	1.0	ug/l	25.0	ND	94	65-125			
Methyl-tert-butyl Ether (MTBE)	19.8	1.0	ug/l	25.0	ND	79	55-155			
Naphthalene	19.0	1.0	ug/l	25.0	ND	76	50-145			
Tetrachloroethene	24.1	1.0	ug/l	25.0	ND	96	70-130			
Toluene	21.8	1.0	ug/l	25.0	ND	87	65-125			
Trichloroethene	23.2	1.0	ug/l	25.0	ND	93	70-125			
Vinyl chloride	24.0	0.50	ug/l	25.0	ND	96	40-135			
o-Xylene	21.5	1.0	ug/l	25.0	ND	86	65-125			
m,p-Xylenes	44.6	1.0	ug/l	50.0	ND	89	65-120			
Surrogate: Dibromofluoromethane	*27.4*		*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.9*		*ug/l*	*25.0*		*96*	*80-120*			
Matrix Spike Dup Analyzed: 02/22/03 (3B22003-MSD1)					**Source: IMB1121-05**					
Benzene	23.2	0.50	ug/l	25.0	ND	93	60-125	1	20	
Bromodichloromethane	25.5	1.0	ug/l	25.0	ND	102	70-140	9	20	
Bromoform	25.4	1.0	ug/l	25.0	ND	102	50-140	30	30	
Chlorobenzene	23.3	1.0	ug/l	25.0	ND	93	75-125	0	20	
Chloroform	25.0	1.0	ug/l	25.0	ND	100	70-130	2	20	
Dibromochloromethane	26.4	1.0	ug/l	25.0	ND	106	65-145	20	25	
1,4-Dichlorobenzene	23.6	1.0	ug/l	25.0	ND	94	70-120	3	20	
1,1-Dichloroethane	24.0	1.0	ug/l	25.0	ND	96	65-135	1	20	
1,2-Dichloroethane	24.6	0.50	ug/l	25.0	ND	98	60-150	19	25	
1,1-Dichloroethene	25.4	1.0	ug/l	25.0	ND	102	60-135	0	20	
Ethylbenzene	23.0	1.0	ug/l	25.0	ND	92	65-125	2	20	
Methyl-tert-butyl Ether (MTBE)	28.4	1.0	ug/l	25.0	ND	114	55-155	36	30	*R*

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Report Number: IMB1120

Sampled: 02/19/03
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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B22003 Extracted: 02/22/03										
Matrix Spike Dup Analyzed: 02/22/03 (3B22003-MSD1)					**Source: IMB1121-05**					
Naphthalene	26.7	1.0	ug/l	25.0	ND	107	50-145	34	30	*R*
Tetrachloroethene	23.4	1.0	ug/l	25.0	ND	94	70-130	3	20	
Toluene	22.2	1.0	ug/l	25.0	ND	89	65-125	2	20	
Trichloroethene	23.6	1.0	ug/l	25.0	ND	94	70-125	2	20	
Vinyl chloride	20.7	0.50	ug/l	25.0	ND	83	40-135	15	20	
o-Xylene	21.6	1.0	ug/l	25.0	ND	86	65-125	1	20	
m,p-Xylenes	43.8	1.0	ug/l	50.0	ND	88	65-120	2	20	
Surrogate: Dibromofluoromethane	*28.5*		*ug/l*	*25.0*		*114*	*80-120*			
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.1*		*ug/l*	*25.0*		*100*	*80-120*			
Batch: 3B23012 Extracted: 02/23/03										
Blank Analyzed: 02/23/03 (3B23012-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B23012 Extracted: 02/23/03										
Blank Analyzed: 02/23/03 (3B23012-BLK1)										
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							

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Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
atch: 3B23012 Extracted: 02/23/03										
Blank Analyzed: 02/23/03 (3B23012-BLK1)										
inyl chloride	ND	0.50	ug/l							
Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*28.5*		*ug/l*	*25.0*		*114*	*80-120*			
rrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
rrogate: 4-Bromofluorobenzene	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			
LCS Analyzed: 02/23/03 (3B23012-BS1)										
etone	21.0	10	ug/l	25.0		84	30-145			
nzene	21.8	0.50	ug/l	25.0		87	70-120			
Bromobenzene	23.1	1.0	ug/l	25.0		92	80-120			
omochloromethane	25.3	1.0	ug/l	25.0		101	65-135			
omodichloromethane	23.4	1.0	ug/l	25.0		94	70-140			
Bromoform	22.6	1.0	ug/l	25.0		90	55-135			
Bromomethane	23.8	1.0	ug/l	25.0		95	65-140			
Butylbenzene	21.9	1.0	ug/l	25.0		88	75-130			
c-Butylbenzene	20.9	1.0	ug/l	25.0		84	75-125			
tert-Butylbenzene	22.8	1.0	ug/l	25.0		91	75-125			
rbon tetrachloride	22.7	0.50	ug/l	25.0		91	65-155			
lorobenzene	21.9	1.0	ug/l	25.0		88	80-125			
Chloroethane	28.0	1.0	ug/l	25.0		112	60-145			
loroform	23.8	1.0	ug/l	25.0		95	70-130			
loromethane	22.2	1.0	ug/l	25.0		89	40-145			
2-Chlorotoluene	22.5	1.0	ug/l	25.0		90	75-125			
4-Chlorotoluene	23.1	1.0	ug/l	25.0		92	75-125			
bromochloromethane	23.9	1.0	ug/l	25.0		96	65-145			
-Dibromo-3-chloropropane	24.0	5.0	ug/l	25.0		96	50-130			
1,2-Dibromoethane (EDB)	23.1	1.0	ug/l	25.0		92	75-125			
bromomethane	23.9	1.0	ug/l	25.0		96	70-130			
-Dichlorobenzene	22.6	1.0	ug/l	25.0		90	80-120			
1,3-Dichlorobenzene	22.0	1.0	ug/l	25.0		88	75-120			
4-Dichlorobenzene	22.1	1.0	ug/l	25.0		88	75-120			
chlorodifluoromethane	16.3	5.0	ug/l	25.0		65	10-160			
1-Dichloroethane	22.6	1.0	ug/l	25.0		90	70-135			
1,2-Dichloroethane	21.9	0.50	ug/l	25.0		88	60-150			
-Dichloroethene	25.3	1.0	ug/l	25.0		101	70-130			

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Camp, Dresser & McKee
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Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B23012 Extracted: 02/23/03										
LCS Analyzed: 02/23/03 (3B23012-BS1)										
cis-1,2-Dichloroethene	24.1	1.0	ug/l	25.0		96	70-125			
trans-1,2-Dichloroethene	24.2	1.0	ug/l	25.0		97	70-130			
1,2-Dichloropropane	21.8	1.0	ug/l	25.0		87	65-120			
1,3-Dichloropropane	22.7	1.0	ug/l	25.0		91	70-130			
2,2-Dichloropropane	23.8	1.0	ug/l	25.0		95	70-150			
1,1-Dichloropropene	22.0	1.0	ug/l	25.0		88	75-130			
cis-1,3-Dichloropropene	22.1	0.50	ug/l	25.0		88	75-130			
trans-1,3-Dichloropropene	22.4	0.50	ug/l	25.0		90	70-135			
Ethylbenzene	21.9	1.0	ug/l	25.0		88	70-125			
Hexachlorobutadiene	23.2	1.0	ug/l	25.0		93	70-140			
Isopropylbenzene	23.1	1.0	ug/l	25.0		92	70-125			
p-Isopropyltoluene	21.7	1.0	ug/l	25.0		87	75-125			
Methylene chloride	26.0	5.0	ug/l	25.0		104	60-135			
Methyl-tert-butyl Ether (MTBE)	25.2	1.0	ug/l	25.0		101	55-145			
Naphthalene	23.6	1.0	ug/l	25.0		94	50-145			
n-Propylbenzene	22.5	1.0	ug/l	25.0		90	75-130			
Styrene	21.2	1.0	ug/l	25.0		85	80-135			
1,1,1,2-Tetrachloroethane	22.8	1.0	ug/l	25.0		91	70-145			
1,1,2,2-Tetrachloroethane	25.4	1.0	ug/l	25.0		102	60-135			
Tetrachloroethene	22.0	1.0	ug/l	25.0		88	80-125			
Toluene	20.5	1.0	ug/l	25.0		82	70-120			
1,2,3-Trichlorobenzene	23.4	1.0	ug/l	25.0		94	65-135			
1,2,4-Trichlorobenzene	23.8	1.0	ug/l	25.0		95	70-140			
1,1,1-Trichloroethane	23.7	1.0	ug/l	25.0		95	70-140			
1,1,2-Trichloroethane	23.6	1.0	ug/l	25.0		94	70-125			
Trichloroethene	22.2	1.0	ug/l	25.0		89	75-120			
Trichlorofluoromethane	25.8	1.0	ug/l	25.0		103	65-145			
1,2,3-Trichloropropane	22.8	1.0	ug/l	25.0		91	60-130			
1,2,4-Trimethylbenzene	21.4	1.0	ug/l	25.0		86	80-125			
1,3,5-Trimethylbenzene	22.3	1.0	ug/l	25.0		89	80-125			
Vinyl chloride	19.9	0.50	ug/l	25.0		80	50-130			
o-Xylene	20.2	1.0	ug/l	25.0		81	70-125			
m,p-Xylenes	41.6	1.0	ug/l	50.0		83	70-120			
Surrogate: Dibromofluoromethane	*28.9*		*ug/l*	*25.0*		*116*	*80-120*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B23012 Extracted: 02/23/03										
Matrix Spike Analyzed: 02/23/03 (3B23012-MS1)					**Source: IMB1192-06**					
Benzene	23.3	0.50	ug/l	25.0	ND	93	60-125			
Bromodichloromethane	25.3	1.0	ug/l	25.0	ND	101	70-140			
Bromoform	25.1	1.0	ug/l	25.0	ND	100	50-140			
Chlorobenzene	23.2	1.0	ug/l	25.0	ND	93	75-125			
Chloroform	45.2	1.0	ug/l	25.0	21	97	70-130			
Dibromochloromethane	26.4	1.0	ug/l	25.0	ND	106	65-145			
1,4-Dichlorobenzene	23.6	1.0	ug/l	25.0	ND	94	70-120			
1,1-Dichloroethane	24.2	1.0	ug/l	25.0	ND	97	65-135			
1,2-Dichloroethane	24.1	0.50	ug/l	25.0	ND	96	60-150			
1,1-Dichloroethene	99.7	1.0	ug/l	25.0	79	83	60-135			
Ethylbenzene	22.9	1.0	ug/l	25.0	ND	92	65-125			
Methyl-tert-butyl Ether (MTBE)	28.2	1.0	ug/l	25.0	ND	113	55-155			
Naphthalene	25.8	1.0	ug/l	25.0	ND	103	50-145			
Tetrachloroethene	55.1	1.0	ug/l	25.0	37	72	70-130			
Toluene	21.9	1.0	ug/l	25.0	ND	88	65-125			
Trichloroethene	49.0	1.0	ug/l	25.0	30	76	70-125			
Vinyl chloride	19.9	0.50	ug/l	25.0	ND	80	40-135			
o-Xylene	22.0	1.0	ug/l	25.0	ND	88	65-125			
m,p-Xylenes	44.2	1.0	ug/l	50.0	ND	88	65-120			
Surrogate: Dibromofluoromethane	*28.6*		*ug/l*	*25.0*		*114*	*80-120*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.4*		*ug/l*	*25.0*		*102*	*80-120*			
Matrix Spike Dup Analyzed: 02/23/03 (3B23012-MSD1)					**Source: IMB1192-06**					
Benzene	22.9	0.50	ug/l	25.0	ND	92	60-125	2	20	
Bromodichloromethane	24.6	1.0	ug/l	25.0	ND	98	70-140	3	20	
Bromoform	19.8	1.0	ug/l	25.0	ND	79	50-140	24	30	
Chlorobenzene	23.0	1.0	ug/l	25.0	ND	92	75-125	1	20	
Chloroform	44.1	1.0	ug/l	25.0	21	92	70-130	2	20	
Dibromochloromethane	22.9	1.0	ug/l	25.0	ND	92	65-145	14	25	
1,4-Dichlorobenzene	23.6	1.0	ug/l	25.0	ND	94	70-120	0	20	
1,1-Dichloroethane	23.7	1.0	ug/l	25.0	ND	95	65-135	2	20	
1,2-Dichloroethane	22.0	0.50	ug/l	25.0	ND	88	60-150	9	25	
1,1-Dichloroethene	95.2	1.0	ug/l	25.0	79	65	60-135	5	20	
Ethylbenzene	23.6	1.0	ug/l	25.0	ND	94	65-125	3	20	
Methyl-tert-butyl Ether (MTBE)	20.4	1.0	ug/l	25.0	ND	82	55-155	32	30	*R*

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Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B23012 Extracted: 02/23/03										
Matrix Spike Dup Analyzed: 02/23/03 (3B23012-MSD1)					**Source: IMB1192-06**					
Naphthalene	19.5	1.0	ug/l	25.0	ND	78	50-145	28	30	
Tetrachloroethene	56.6	1.0	ug/l	25.0	37	78	70-130	3	20	
Toluene	22.2	1.0	ug/l	25.0	ND	89	65-125	1	20	
Trichloroethene	50.3	1.0	ug/l	25.0	30	81	70-125	3	20	
Vinyl chloride	20.7	0.50	ug/l	25.0	ND	83	40-135	4	20	
o-Xylene	22.1	1.0	ug/l	25.0	ND	88	65-125	1	20	
m,p-Xylenes	44.8	1.0	ug/l	50.0	ND	90	65-120	1	20	
Surrogate: Dibromofluoromethane	*27.4*		*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B21014 Extracted: 02/21/03										
Blank Analyzed: 02/21/03 (3B21014-BLK1)										
Tentatively Identified Compounds	ND	50	ug/l							
Batch: 3B22003 Extracted: 02/22/03										
Blank Analyzed: 02/22/03 (3B22003-BLK1)										
Tentatively Identified Compounds	ND	50	ug/l							

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METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B20064 Extracted: 02/20/03										
Blank Analyzed: 02/21/03 (3B20064-BLK1)										
1,4-Dioxane	ND	0.50	ug/l							
Surrogate: 1,4-Dioxane-d8	*1.20*		*ug/l*	*2.00*		*60*	*40-120*			
LCS Analyzed: 02/21/03 (3B20064-BS1)										
1,4-Dioxane	1.24	0.50	ug/l	2.00		62	40-120			
Surrogate: 1,4-Dioxane-d8	*1.14*		*ug/l*	*2.00*		*57*	*40-120*			
Matrix Spike Analyzed: 02/21/03 (3B20064-MS1)					**Source: IMB1077-11**					
1,4-Dioxane	1.14	0.50	ug/l	1.94	ND	59	40-140			
Surrogate: 1,4-Dioxane-d8	*1.24*		*ug/l*	*1.94*		*64*	*40-120*			
Matrix Spike Dup Analyzed: 02/21/03 (3B20064-MSD1)					**Source: IMB1077-11**					
1,4-Dioxane	1.11	0.50	ug/l	1.94	ND	57	40-140	3	30	
Surrogate: 1,4-Dioxane-d8	*1.15*		*ug/l*	*1.94*		*59*	*40-120*			

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B19057 Extracted: 02/19/03										
Blank Analyzed: 02/19/03 (3B19057-BLK1)										
Chromium VI	ND	0.00030	mg/l							
LCS Analyzed: 02/19/03 (3B19057-BS1)										
Chromium VI	0.0516	0.00030	mg/l	0.0500		103	90-110			
Matrix Spike Analyzed: 02/19/03 (3B19057-MS1)					**Source: IMB1039-01**					
Chromium VI	0.0531	0.00030	mg/l	0.0500	0.0027	101	70-130			
Matrix Spike Dup Analyzed: 02/19/03 (3B19057-MSD1)					**Source: IMB1039-01**					
Chromium VI	0.0533	0.00030	mg/l	0.0500	0.0027	101	70-130	0	15	
Batch: 3B19058 Extracted: 02/19/03										
Blank Analyzed: 02/19/03 (3B19058-BLK1)										
Nitrite-N	ND	0.15	mg/l							
Nitrate-N	ND	0.11	mg/l							
Nitrate/Nitrite-N	ND	0.15	mg/l							
LCS Analyzed: 02/19/03 (3B19058-BS1)										
Nitrite-N	1.52	0.15	mg/l	1.52		100	90-110			
Nitrate-N	1.09	0.11	mg/l	1.13		96	90-110			
Matrix Spike Analyzed: 02/19/03 (3B19058-MS1)					**Source: IMB1077-11**					
Nitrite-N	13.2	3.0	mg/l	15.2	ND	87	80-120			
Nitrate-N	24.3	2.2	mg/l	11.3	17	65	80-120			*M2*
Matrix Spike Dup Analyzed: 02/19/03 (3B19058-MSD1)					**Source: IMB1077-11**					
Nitrite-N	12.5	3.0	mg/l	15.2	ND	82	80-120	5	20	
Nitrate-N	24.5	2.2	mg/l	11.3	17	66	80-120	1	20	*M2*

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3B20030 Extracted: 02/20/03										
Blank Analyzed: 02/20/03 (3B20030-BLK1)										
Nitrite-N	ND	0.15	mg/l							
Nitrate-N	ND	0.11	mg/l							
Nitrate/Nitrite-N	ND	0.15	mg/l							
LCS Analyzed: 02/20/03 (3B20030-BS1)										
Nitrite-N	1.62	0.15	mg/l	1.52		107	90-110			
Nitrate-N	1.09	0.11	mg/l	1.13		96	90-110			
Matrix Spike Analyzed: 02/20/03 (3B20030-MS1)					**Source: IMB1125-07**					
Nitrite-N	1.54	0.15	mg/l	1.52	ND	101	80-120			
Nitrate-N	1.24	0.11	mg/l	1.13	0.19	93	80-120			
Matrix Spike Dup Analyzed: 02/20/03 (3B20030-MSD1)					**Source: IMB1125-07**					
Nitrite-N	1.53	0.15	mg/l	1.52	ND	101	80-120	1	20	
Nitrate-N	1.24	0.11	mg/l	1.13	0.19	93	80-120	0	20	
Batch: 3B20085 Extracted: 02/20/03										
Blank Analyzed: 02/21/03 (3B20085-BLK1)										
Perchlorate	ND	4.0	ug/l							
LCS Analyzed: 02/21/03 (3B20085-BS1)										
Perchlorate	50.3	4.0	ug/l	50.0		101	85-115			
Matrix Spike Analyzed: 02/21/03 (3B20085-MS1)					**Source: IMB1029-08**					
Perchlorate	51.0	4.0	ug/l	50.0	ND	102	80-120			

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
atch: 3B20085 Extracted: 02/20/03										
Matrix Spike Dup Analyzed: 02/21/03 (3B20085-MSD1)					**Source: IMB1029-08**					
Perchlorate	51.0	4.0	ug/l	50.0	ND	102	80-120	0	20	
atch: 3B27088 Extracted: 02/27/03										
Blank Analyzed: 02/27/03 (3B27088-BLK1)										
issolved Organic Carbon	ND	1.0	mg/l							
LCS Analyzed: 02/27/03 (3B27088-BS1)										
Dissolved Organic Carbon	10.0	1.0	mg/l	10.0		100	90-110			
atrix Spike Analyzed: 02/27/03 (3B27088-MS1)					**Source: IMB1120-02**					
Dissolved Organic Carbon	6.32	1.0	mg/l	5.00	1.5	96	80-120			
atrix Spike Dup Analyzed: 02/27/03 (3B27088-MSD1)					**Source: IMB1120-02**					
ssolved Organic Carbon	6.33	1.0	mg/l	5.00	1.5	97	80-120	0	20	

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Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

DATA QUALIFIERS AND DEFINITIONS

M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M3	Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
R	The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
RL-3	Reporting limit raised due to high concentrations of non-target analytes.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For TICs:

All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library.

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Project ID: Omega Chemical
10500
Report Number: IMB1120

Sampled: 02/19/03
Received: 02/19/03

Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	NELAP	CA	AZ	NV
EPA 218.6	Water		X		
EPA 300.0	Water	X	X	X	
EPA 314.0	Water		X		
EPA 415.1	Water	X	X	X	X
EPA 8260B	Water	X	X	X	
EPA 8270C	Water	X	X	X	

NV and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.dmalabs.com.

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Patty Mata
Project Manager

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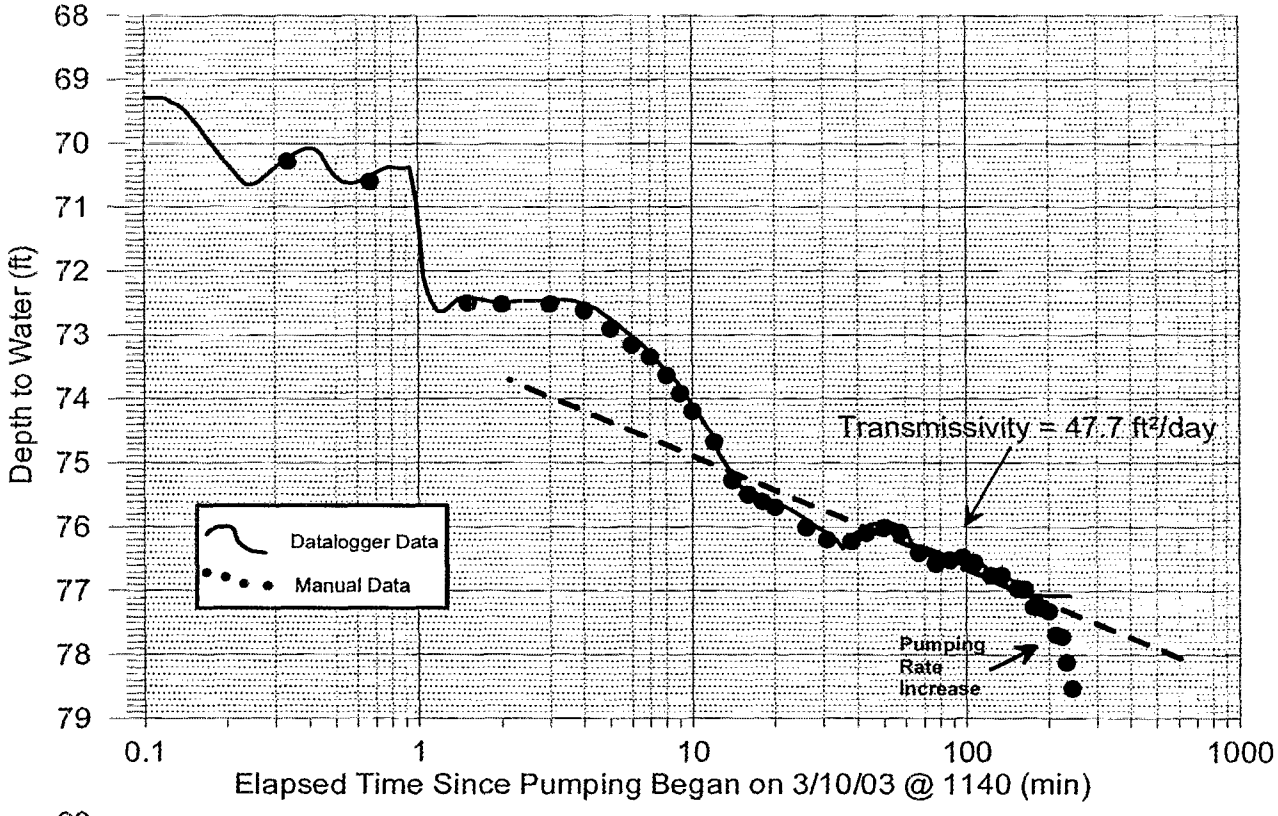
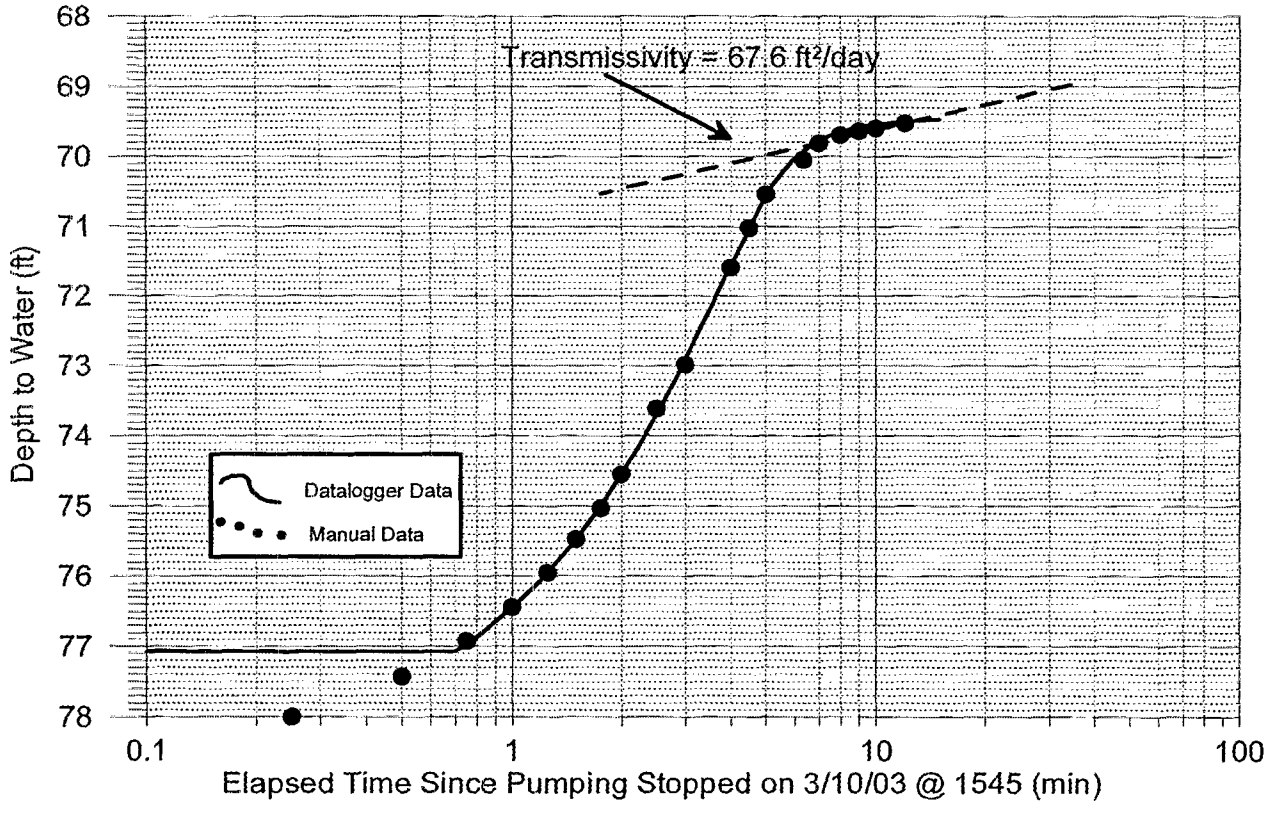
Appendix E
Aquifer Test Data

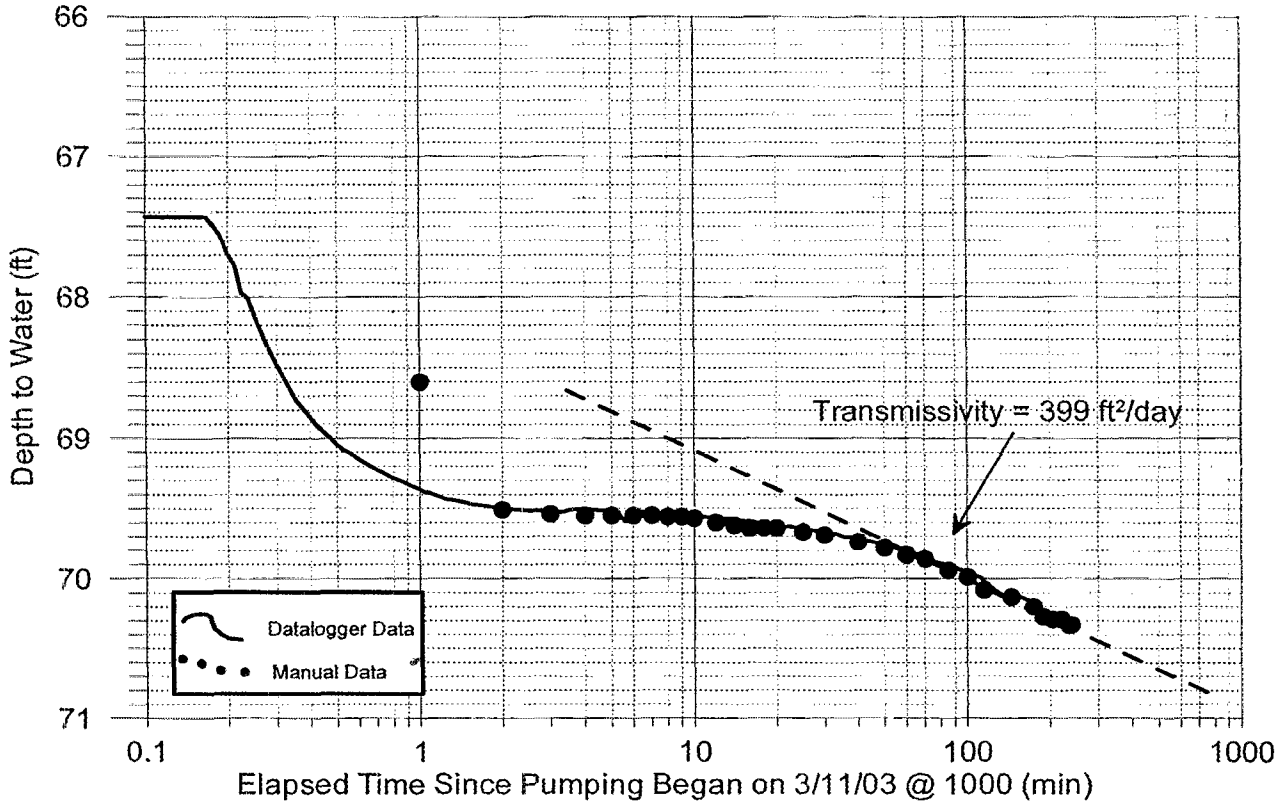


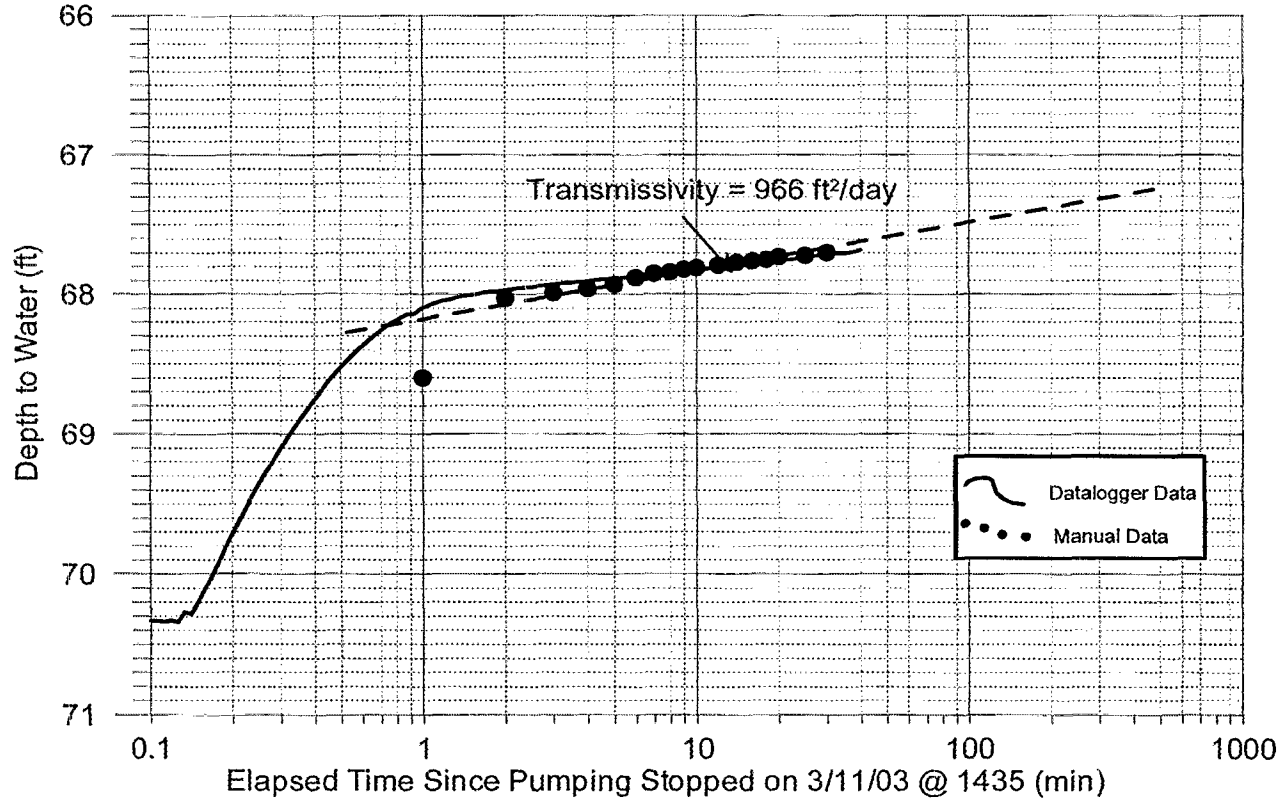


CDM

OMEGA Chemical Well 2 Time Drawdown / Time Recovery
4-hour Pumping Test

Figure E-1

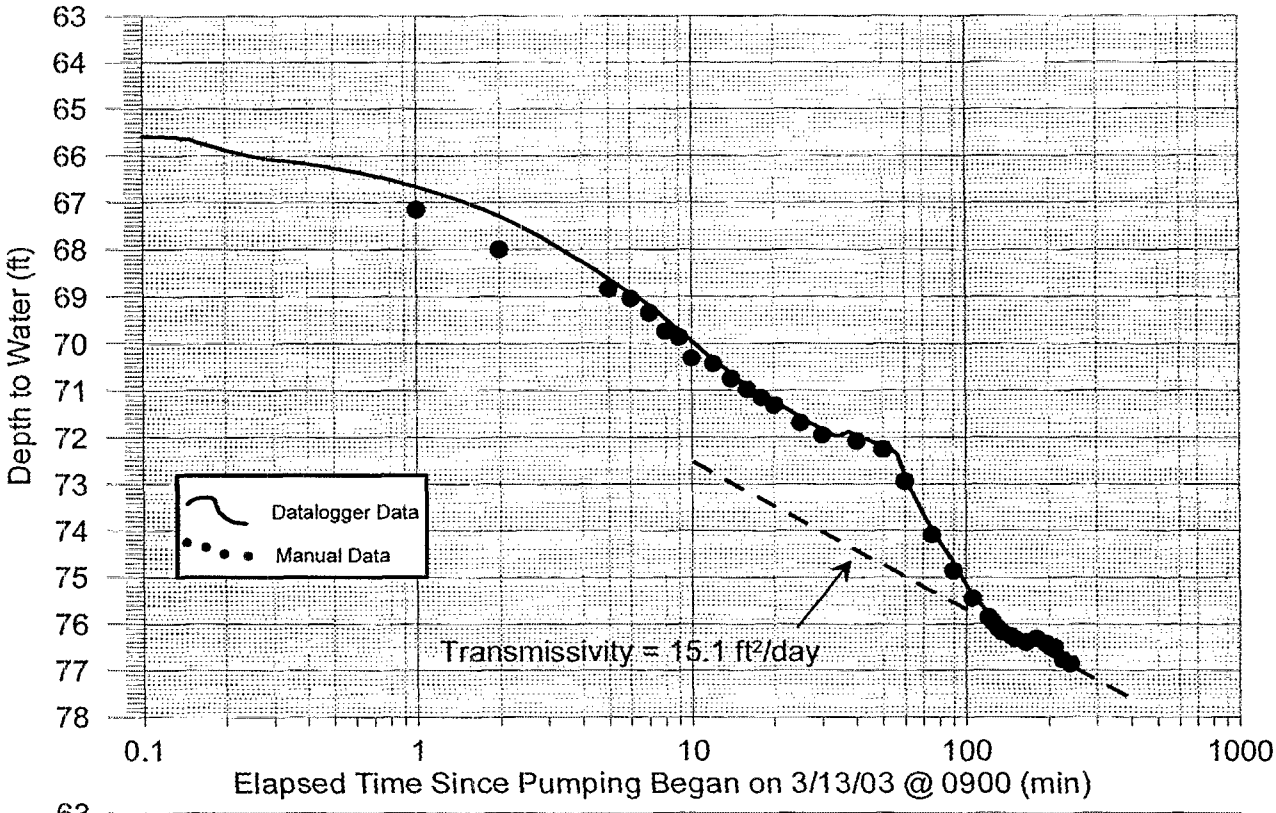


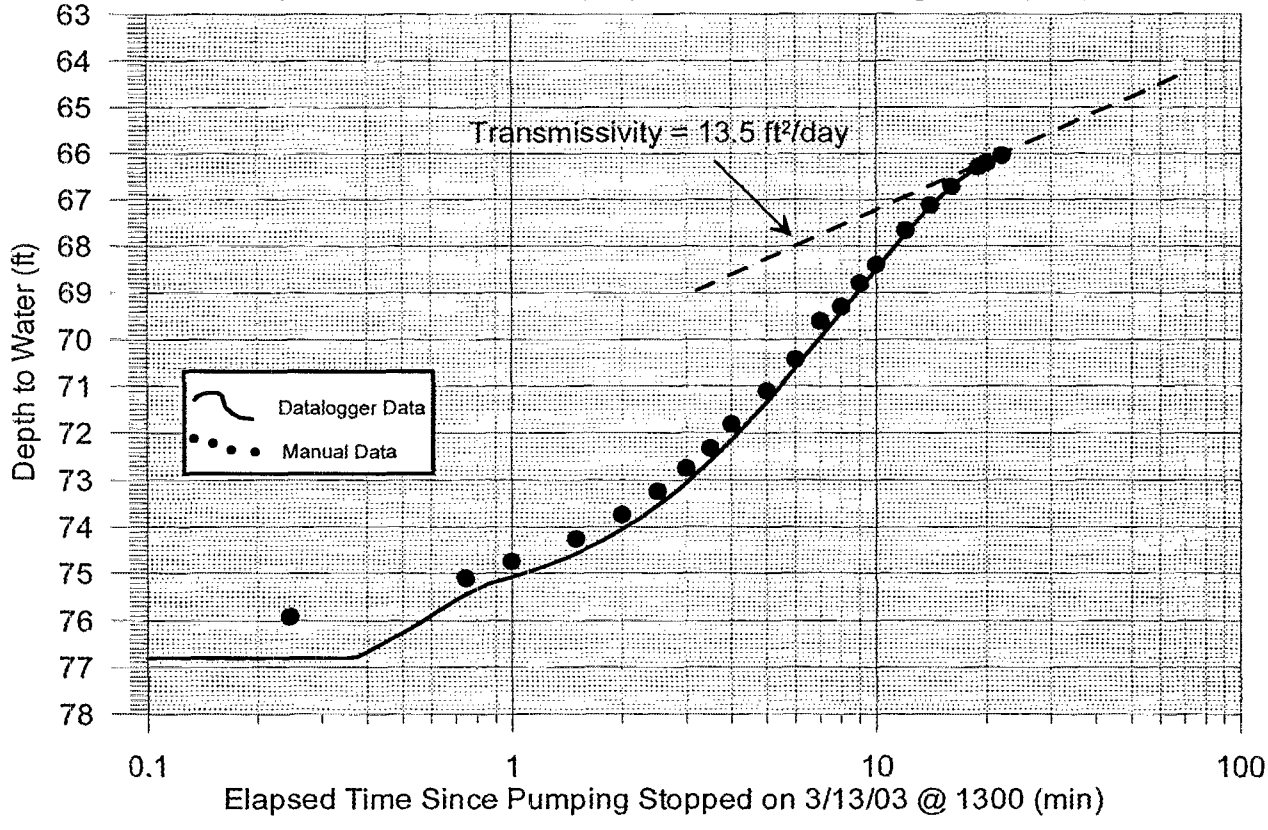


CDM

OMEGA Chemical Well 8 Time Drawdown / Time Recovery
4-hour Pumping Test

Figure E-2

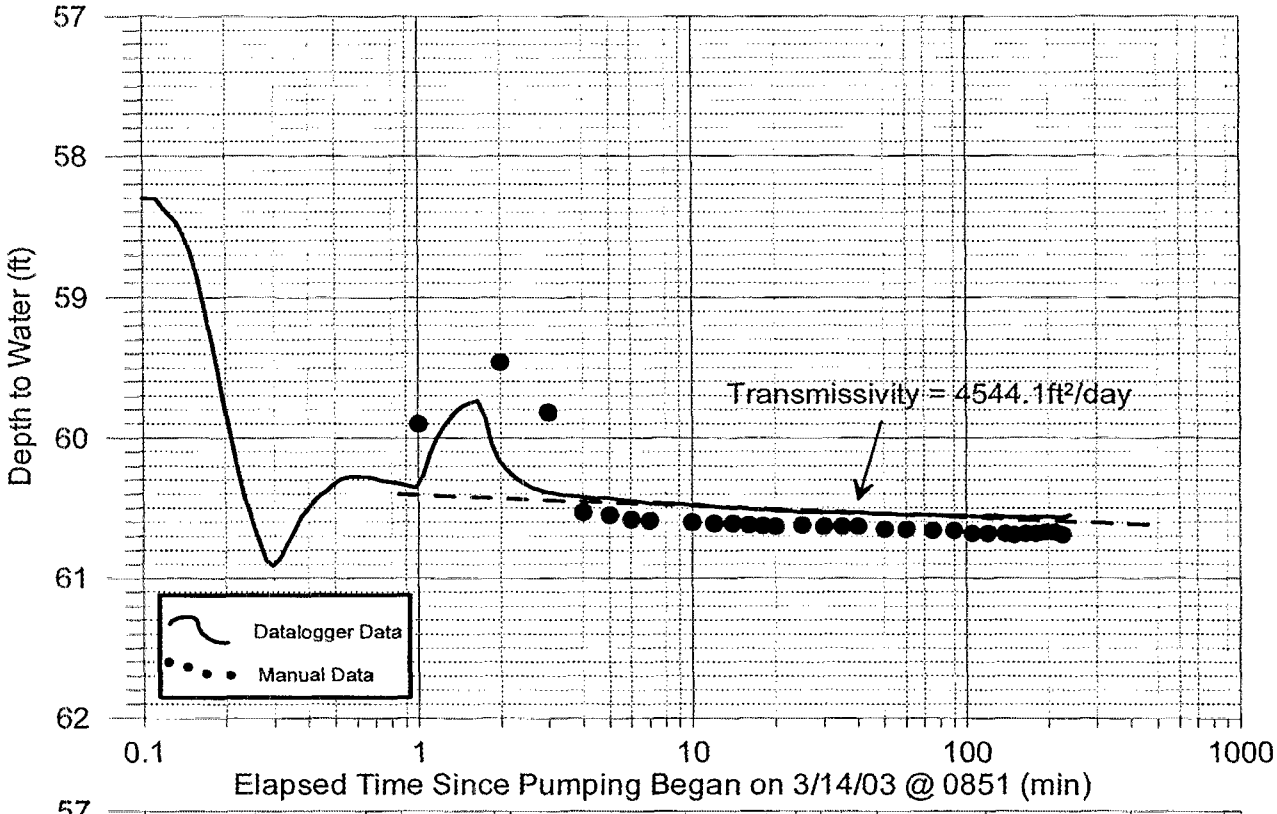


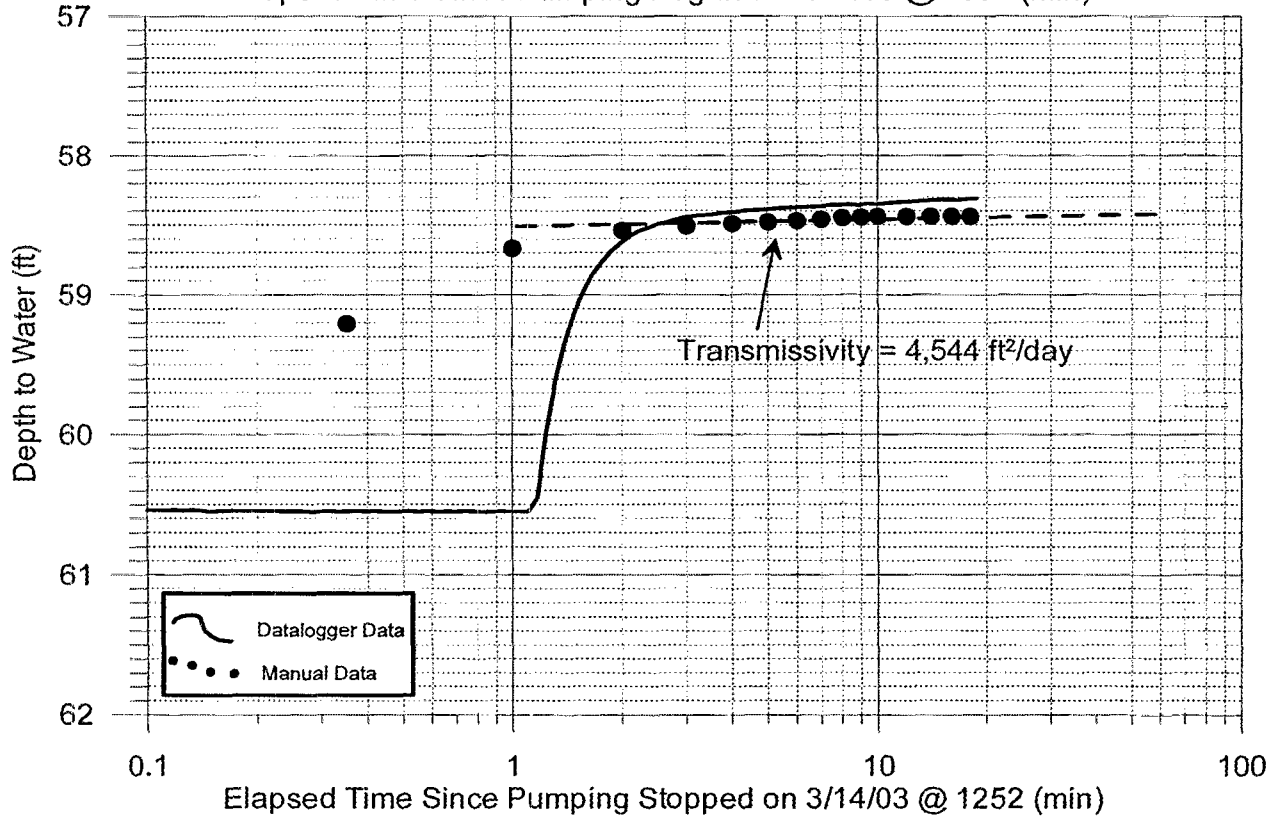


CDM

OMEGA Chemical Well 3 Time Drawdown / Time Recovery
4-hour Pumping Test

Figure E-3

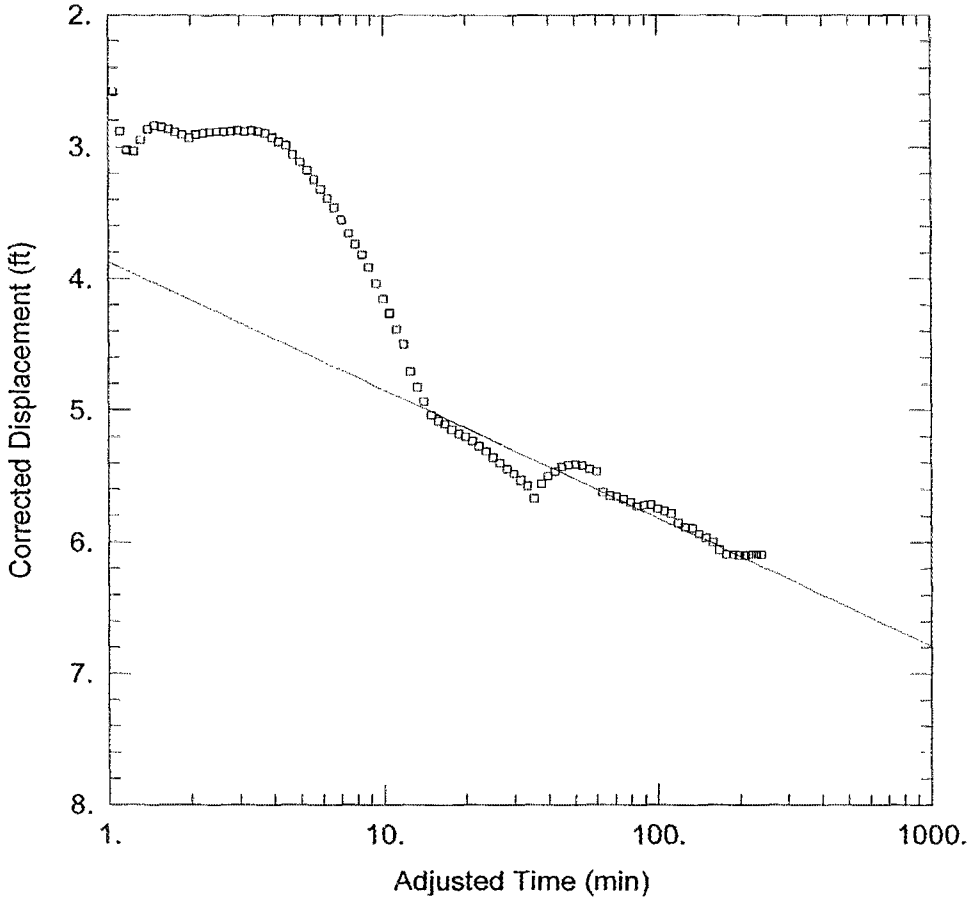




CDM

OMEGA Chemical Well 4A Time Drawdown / Time Recovery
4-hour Pumping Test

Figure E-4



PROJECT INFORMATION

Company: CDM
Client: Omega Chemical
Project: 10500-24699
Test Location: Whittier, CA
Test Well: OW-2
Test Date: 3-10-03

AQUIFER DATA

Saturated Thickness: 18. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
OW2	0	0

Observation Wells

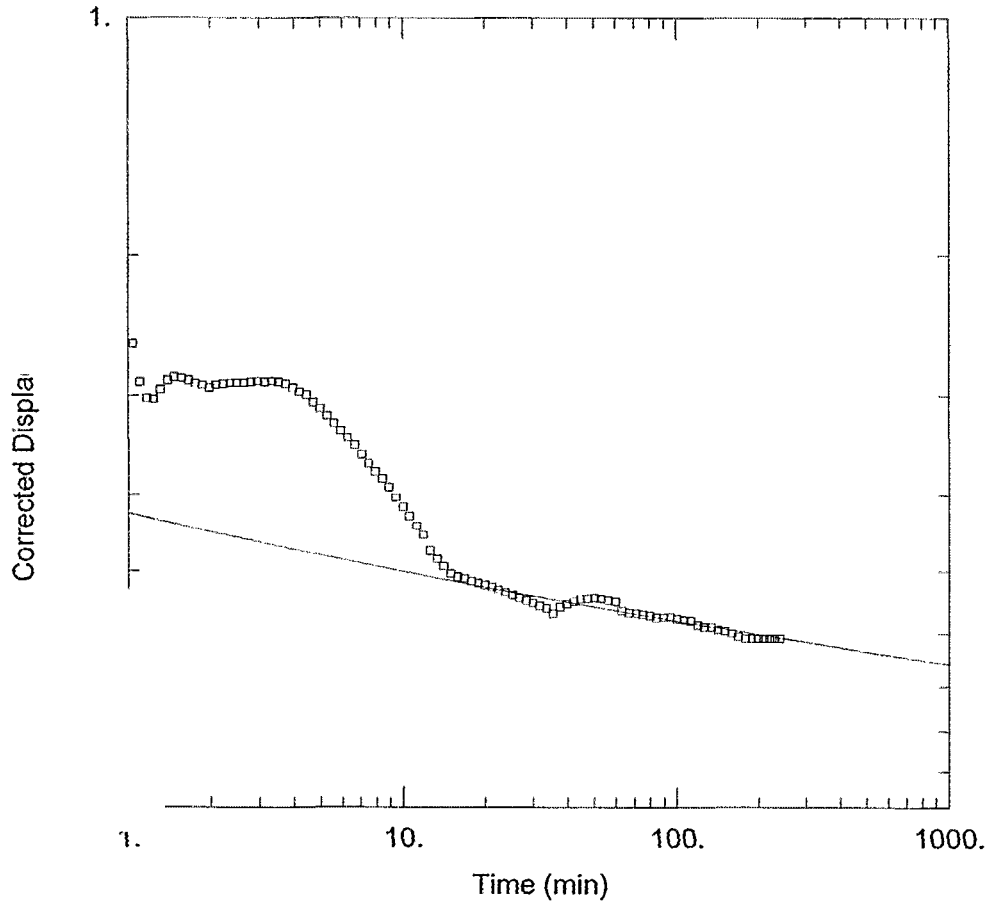
Well Name	X (ft)	Y (ft)
	0.167	0

SOLUTION

Aquifer Model: Unconfined
Solution Method: Cooper-Jacob

T = 625. gal/day/ft
S = 0.000478

Figure E-5



PROJECT INFORMATION

Company: CDM
Client: Omega Chemical
Project: 10500-24699
Test Location: Whittier, CA
Test Well: OW-2
Test Date: 3-10-03

AQUIFER DATA

Saturated Thickness: 18. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
OW2	0	0

Observation Wells

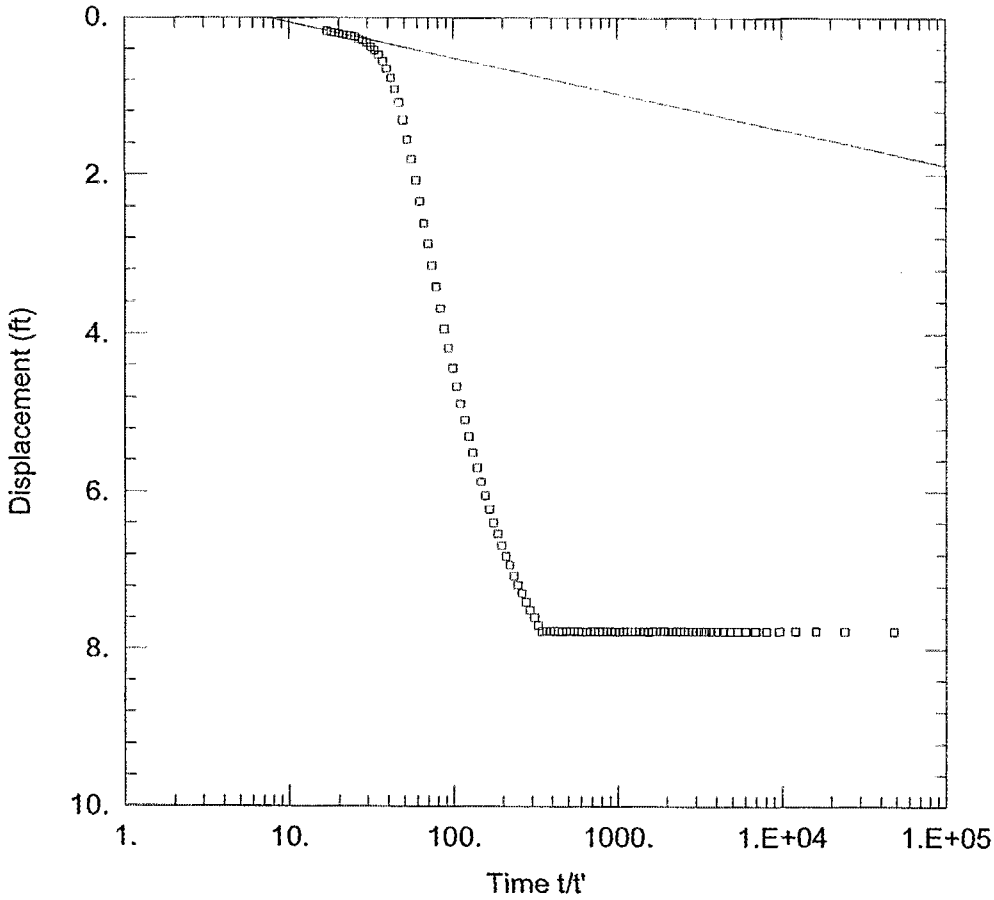
Well Name	X (ft)	Y (ft)
	0.167	0

SOLUTION

Aquifer Model: Unconfined
Solution Method: Theis

T = 777. gal/day/ft
S = 2.273E-05

Figure E-6



WELL TEST ANALYSIS

Data Set: P:\10500\37240\MARCH2~1\OW2TT'.AQT
Date: 06/12/03 Time: 17:39:57

AQUIFER DATA

Saturated Thickness: 18. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
OW-2	0	0

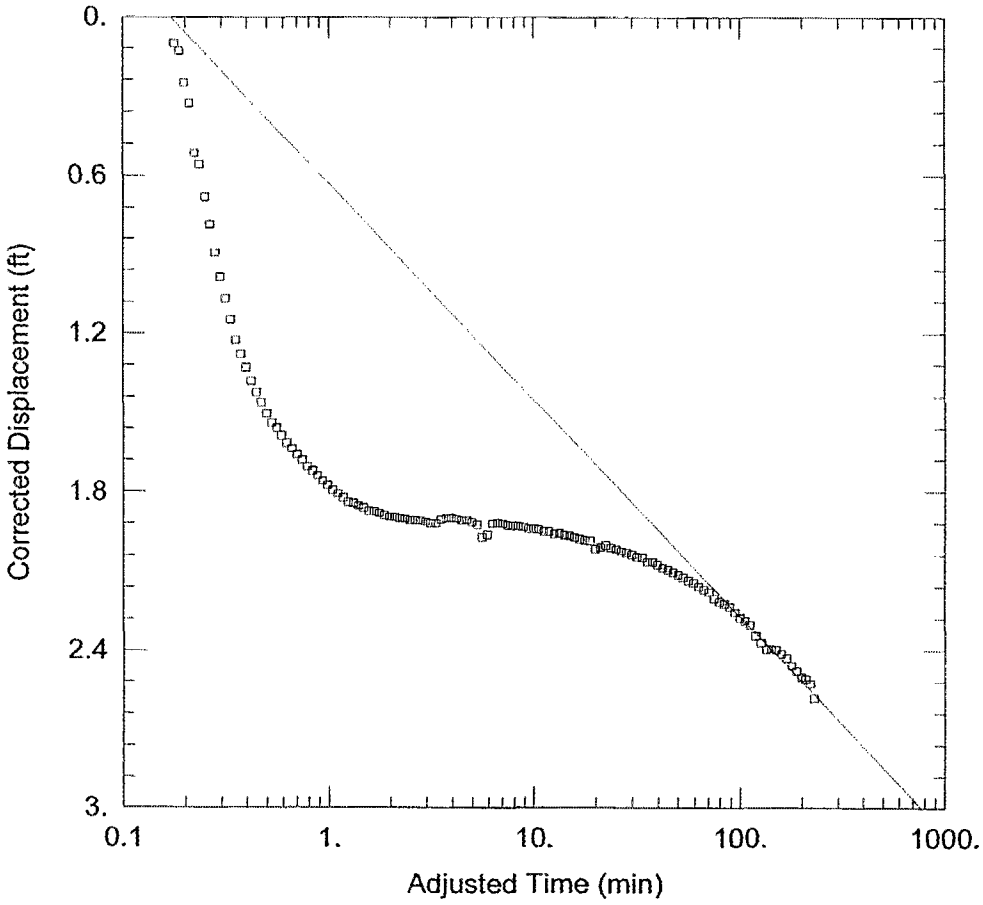
Observation Wells

Well Name	X (ft)	Y (ft)
▫ OW-2	0.167	0

SOLUTION

Aquifer Model: Confined T = 178.2 ft^2/day
Solution Method: Theis (Recovery) S' = 7.446

Figure E-7



PROJECT INFORMATION

Company: CDM
Client: Omega Chemical
Project: 10500-24699
Test Well: OW-8
Test Date: 3-11-03

AQUIFER DATA

Saturated Thickness: 13. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
OW8	100	100

Observation Wells

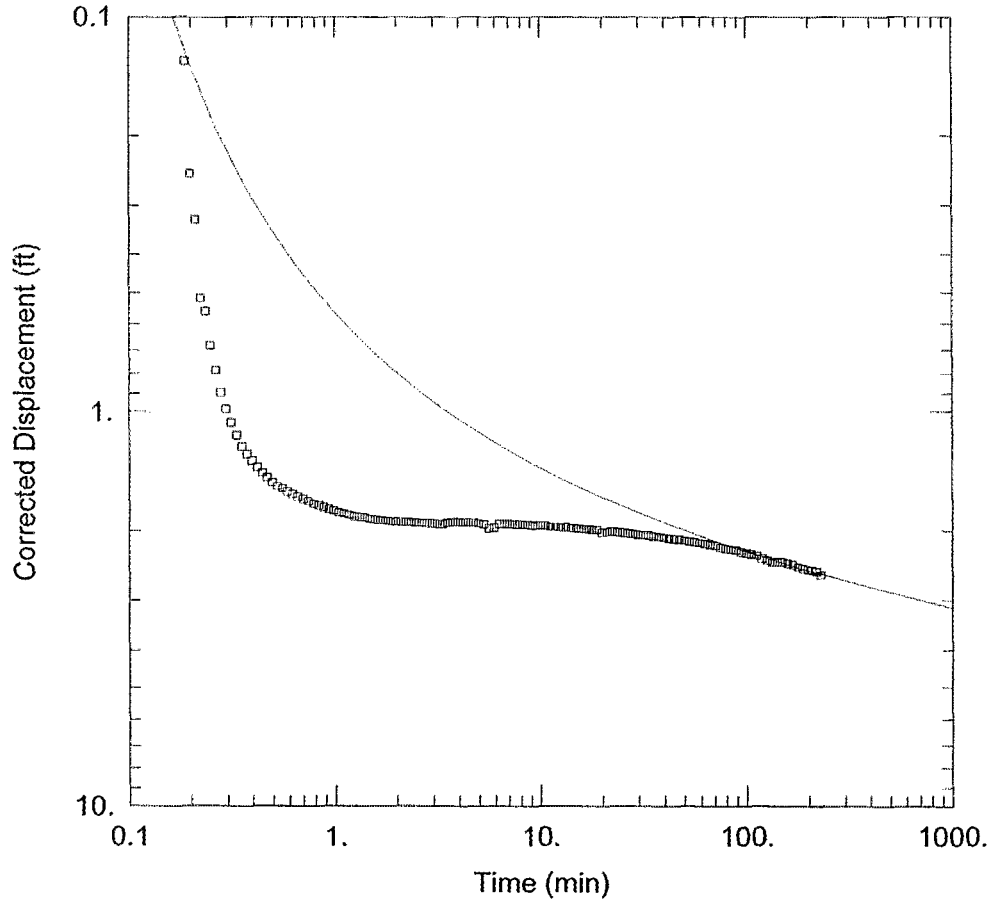
Well Name	X (ft)	Y (ft)
▫	0	0

SOLUTION

Aquifer Model: Unconfined
Solution Method: Cooper-Jacob

T = 446.4 ft^2/day
S = 5.949E-06

Figure E-8



PROJECT INFORMATION

Company: CDM
Client: Omega Chemical
Project: 10500-24699
Test Well: OW-8
Test Date: 3-11-03

AQUIFER DATA

Saturated Thickness: 13. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
OW8	100	100

Observation Wells

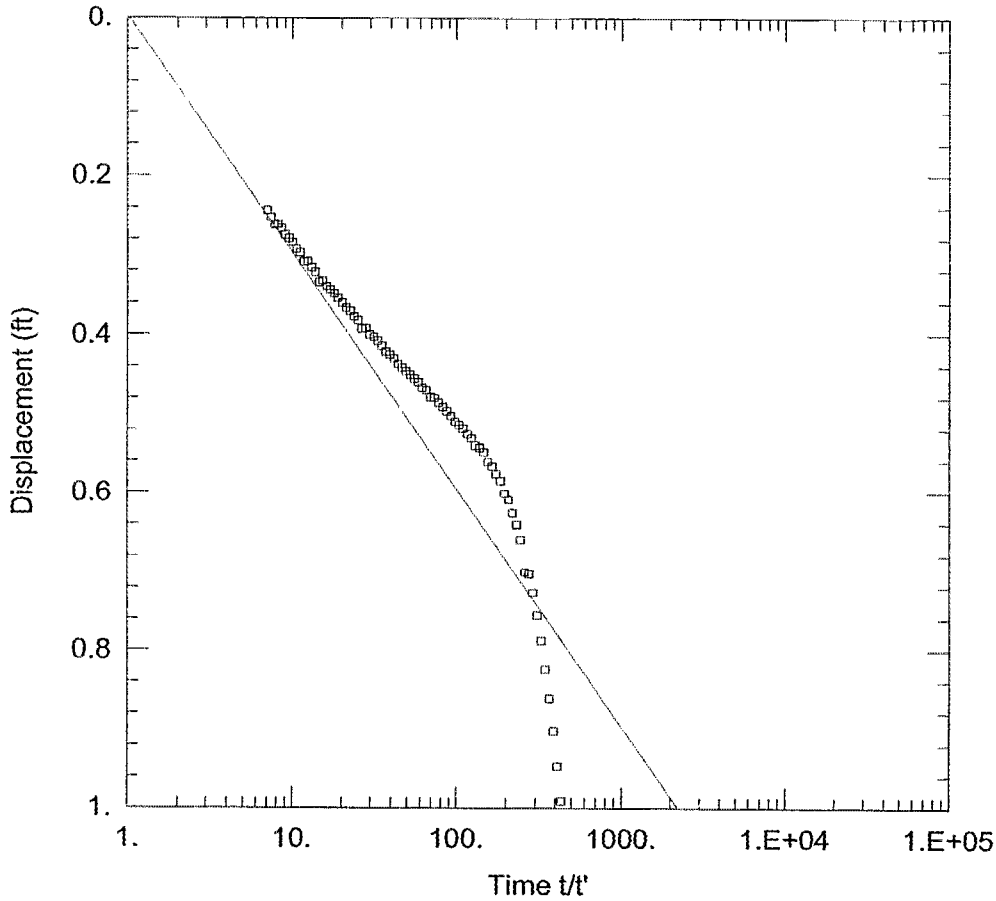
Well Name	X (ft)	Y (ft)
▫	0	0

SOLUTION

Aquifer Model: Unconfined
Solution Method: Theis

T = 420.9 ft^2/day
S = 8.565E-06

Figure E-9



WELL TEST ANALYSIS

Data Set: P:\10500\37240\MARCH2~1\OW8TT'.AQT
Date: 06/12/03 Time: 17:40:22

AQUIFER DATA

Saturated Thickness: 18. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
ow8	0	0

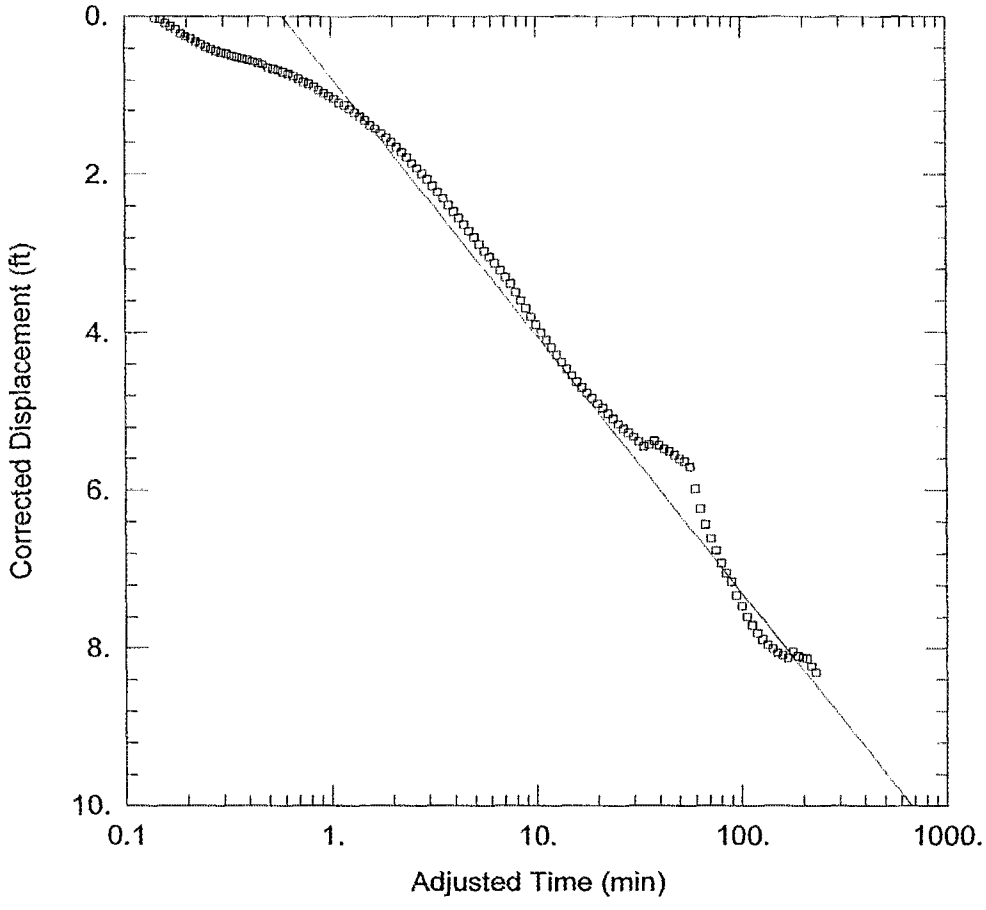
Observation Wells

Well Name	X (ft)	Y (ft)
▫ OW 1	0.167	0

SOLUTION

Aquifer Model: Confined T = 1225. ft^2/day
Solution Method: Theis (Recovery) S' = 1.016

Figure E-10



PROJECT INFORMATION

Company: CDM
Client: Omega Chemical
Project: 10500-24699
Test Location: Whittier, CA
Test Well: OW3
Test Date: 3-13-03

AQUIFER DATA

Saturated Thickness: 22. ft

Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
OW3	0	0

Observation Wells

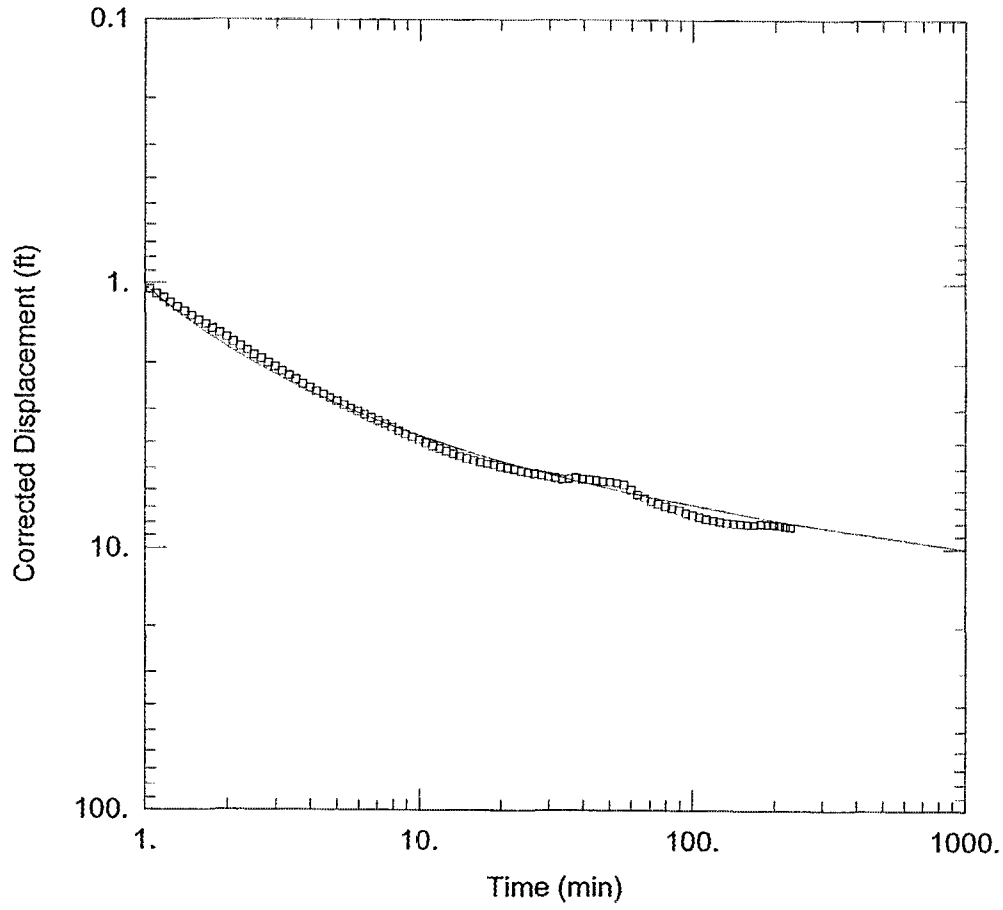
Well Name	X (ft)	Y (ft)
	0.167	0

SOLUTION

Aquifer Model: Unconfined
Solution Method: Cooper-Jacob

T = 108.5 gal/day/ft
S = 0.4665

Figure E-11



PROJECT INFORMATION

Company: CDM
Client: Omega Chemical
Project: 10500-24699
Test Location: Whittier, CA
Test Well: OW3
Test Date: 3-13-03

AQUIFER DATA

Saturated Thickness: 22. ft

Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
OW3	0	0

Observation Wells

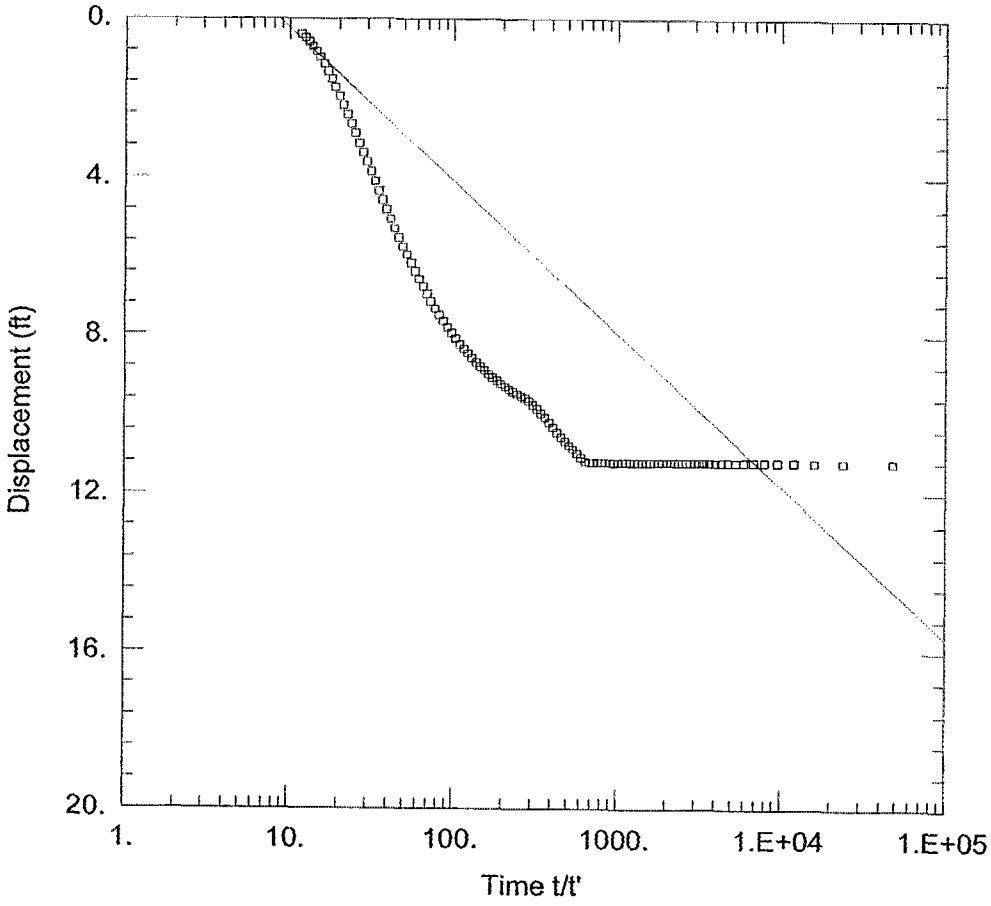
Well Name	X (ft)	Y (ft)
	0.167	0

SOLUTION

Aquifer Model: Unconfined
Solution Method: Theis

T = 112.4 gal/day/ft
S = 0.5611

Figure E-12



WELL TEST ANALYSIS

Data Set: P:\10500\OMEGA\MARCH2~1\OW3TT'.AQT
Date: 05/08/03 Time: 17:47:38

AQUIFER DATA

Saturated Thickness: 18. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
OW-3	0	0

Observation Wells

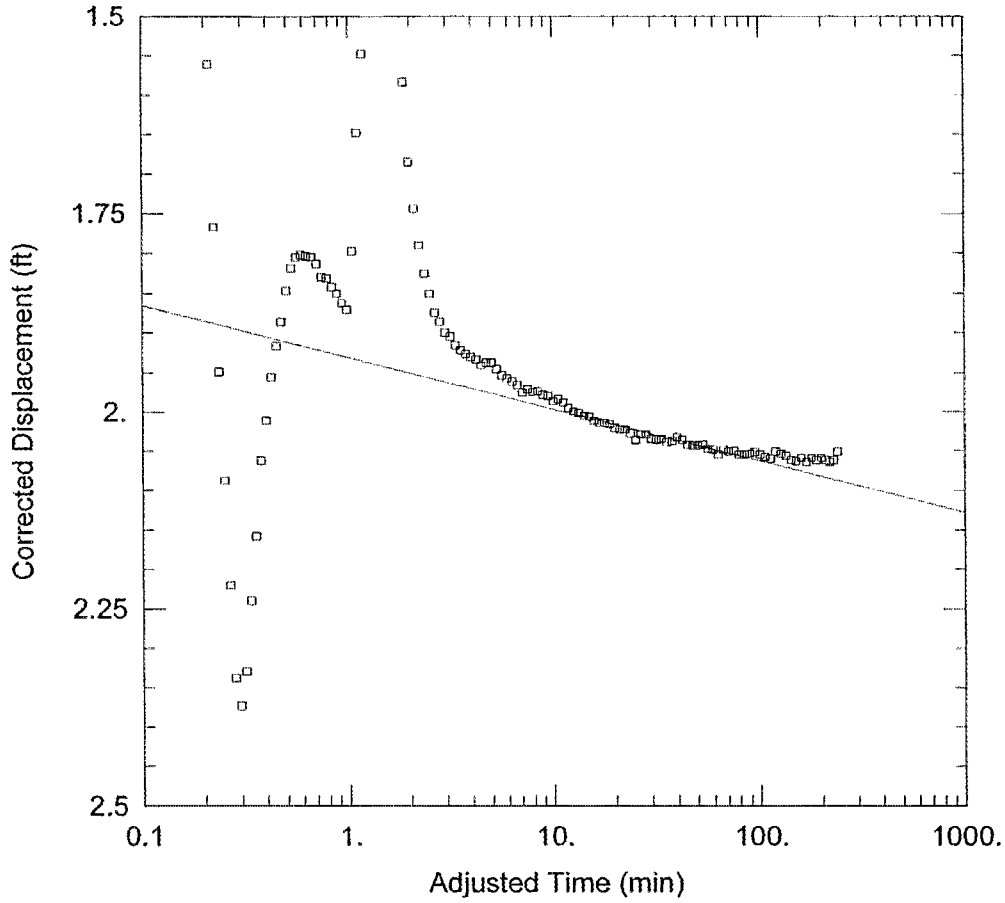
Well Name	X (ft)	Y (ft)
▫ OW-3	0.167	0

SOLUTION

Aquifer Model: Confined
Solution Method: Theis (Recovery)

T = 12.3 ft^2/day
S' = 8.571

Figure E-13



PROJECT INFORMATION

Company: CDM
Client: Omega Chemical
Project: 10500-24699
Test Location: Whittier, CA
Test Well: OW4A
Test Date: 3-14-03

AQUIFER DATA

Saturated Thickness: 23. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
OW4A	0	0

Observation Wells

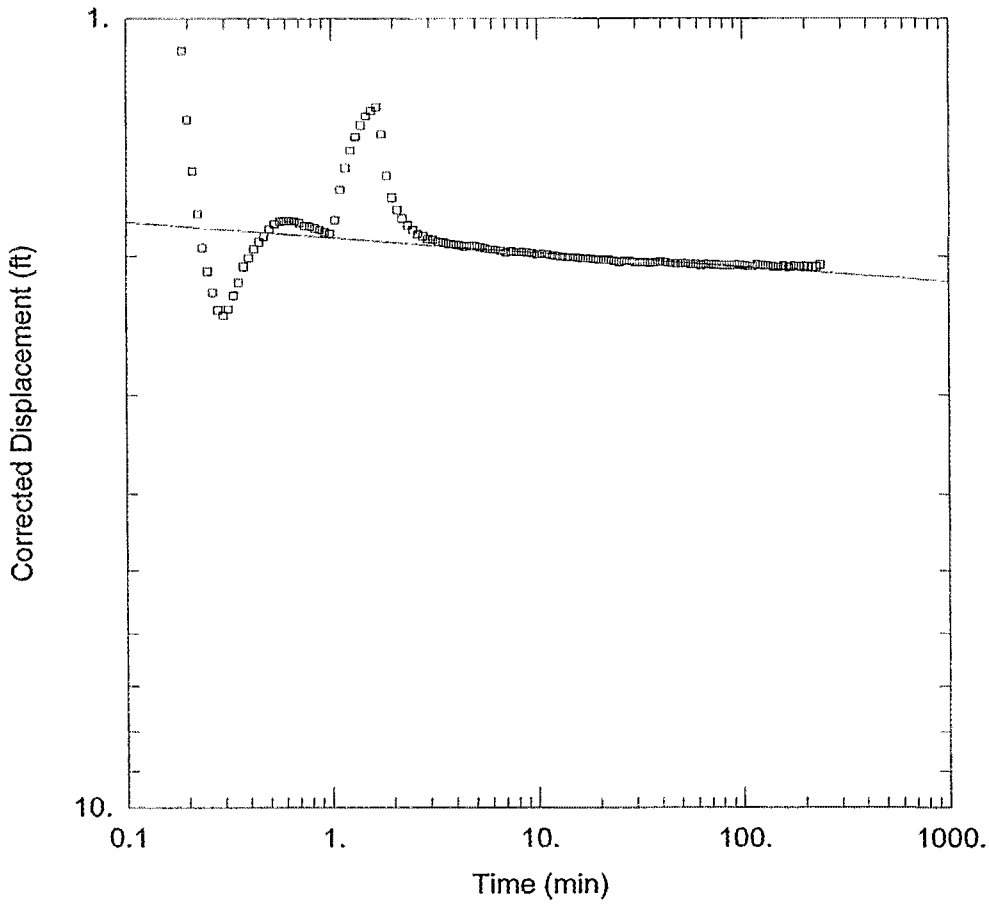
Well Name	X (ft)	Y (ft)
	0.167	0

SOLUTION

Aquifer Model: Unconfined
Solution Method: Cooper-Jacob

T = 4.146E+04 gal/day/ft
S = 1.08E-27

Figure E-14



PROJECT INFORMATION

Company: CDM
Client: Omega Chemical
Project: 10500-24699
Test Location: Whittier, CA
Test Well: OW4A
Test Date: 3-14-03

AQUIFER DATA

Saturated Thickness: 23. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
OW4A	0	0

Observation Wells

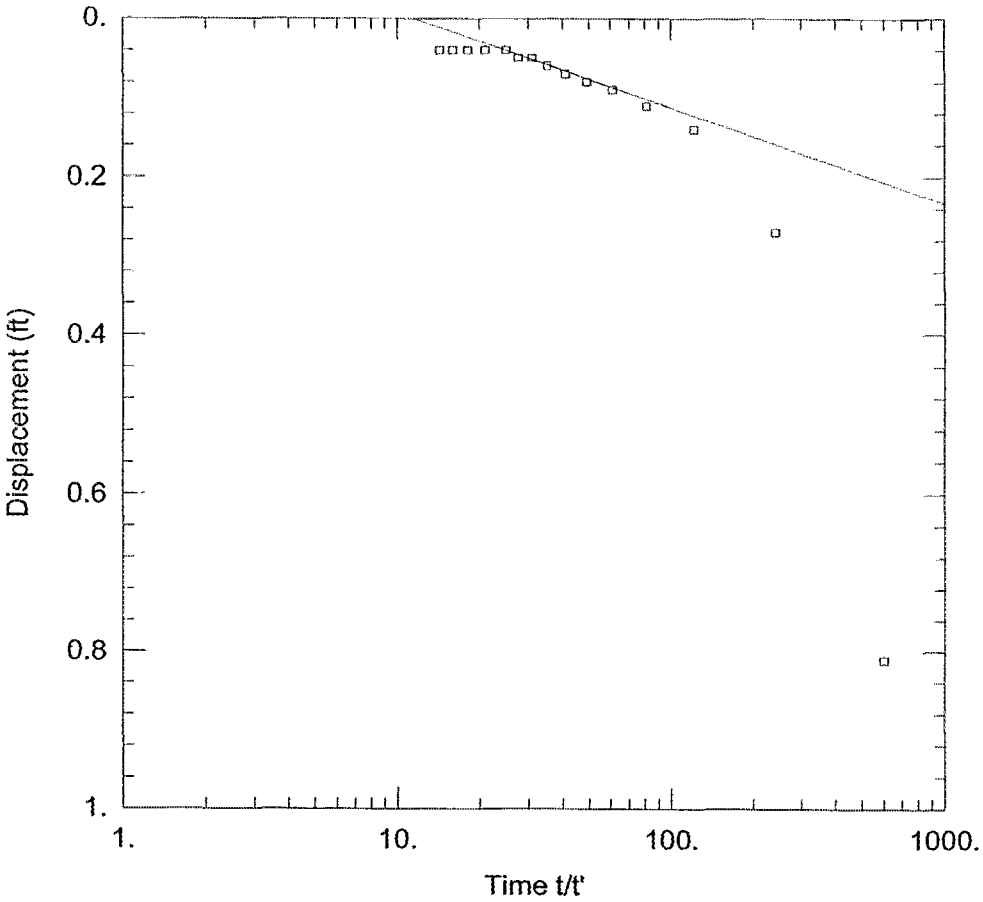
Well Name	X (ft)	Y (ft)
	0.167	0

SOLUTION

Aquifer Model: Unconfined
Solution Method: Theis

T = 3.224E+04 gal/day/ft
S = 8.148E-21

Figure E-15



WELL TEST ANALYSIS

Data Set: P:\10500\37240\MARCH2~1\OW4ATT'B.AQT
Date: 06/12/03 Time: 17:42:10

AQUIFER DATA

Saturated Thickness: 18. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
OW-4A	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
▫ OW-4A	0.167	0

SOLUTION

Aquifer Model: Confined T = 3026.5 ft^2/day
Solution Method: Theis (Recovery) S' = 11.49

Figure E-16

Appendix F
Fate and Transport

CDM

Figure G-1 - Chloroethenes

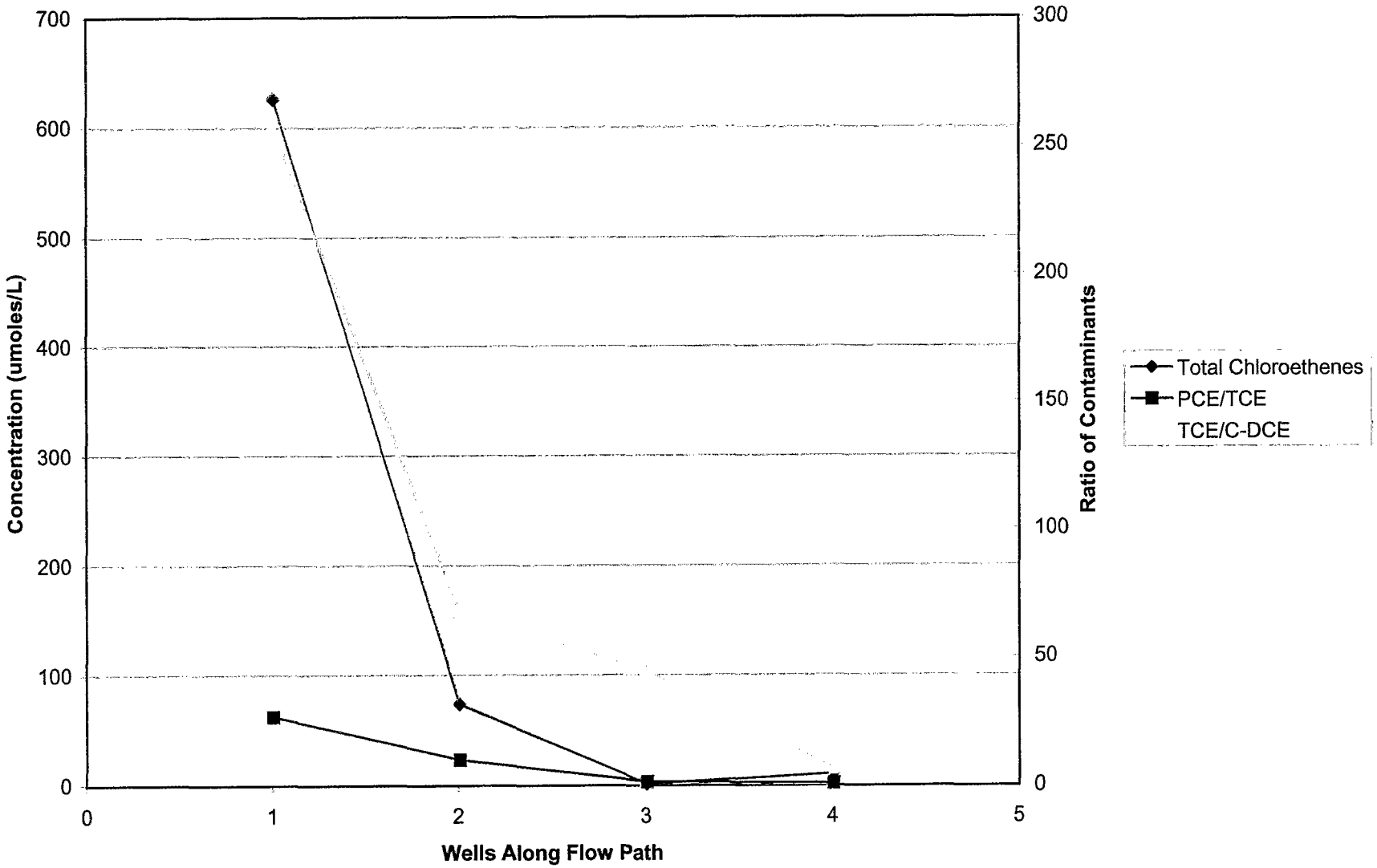


Figure G-2 - Chloroethanes

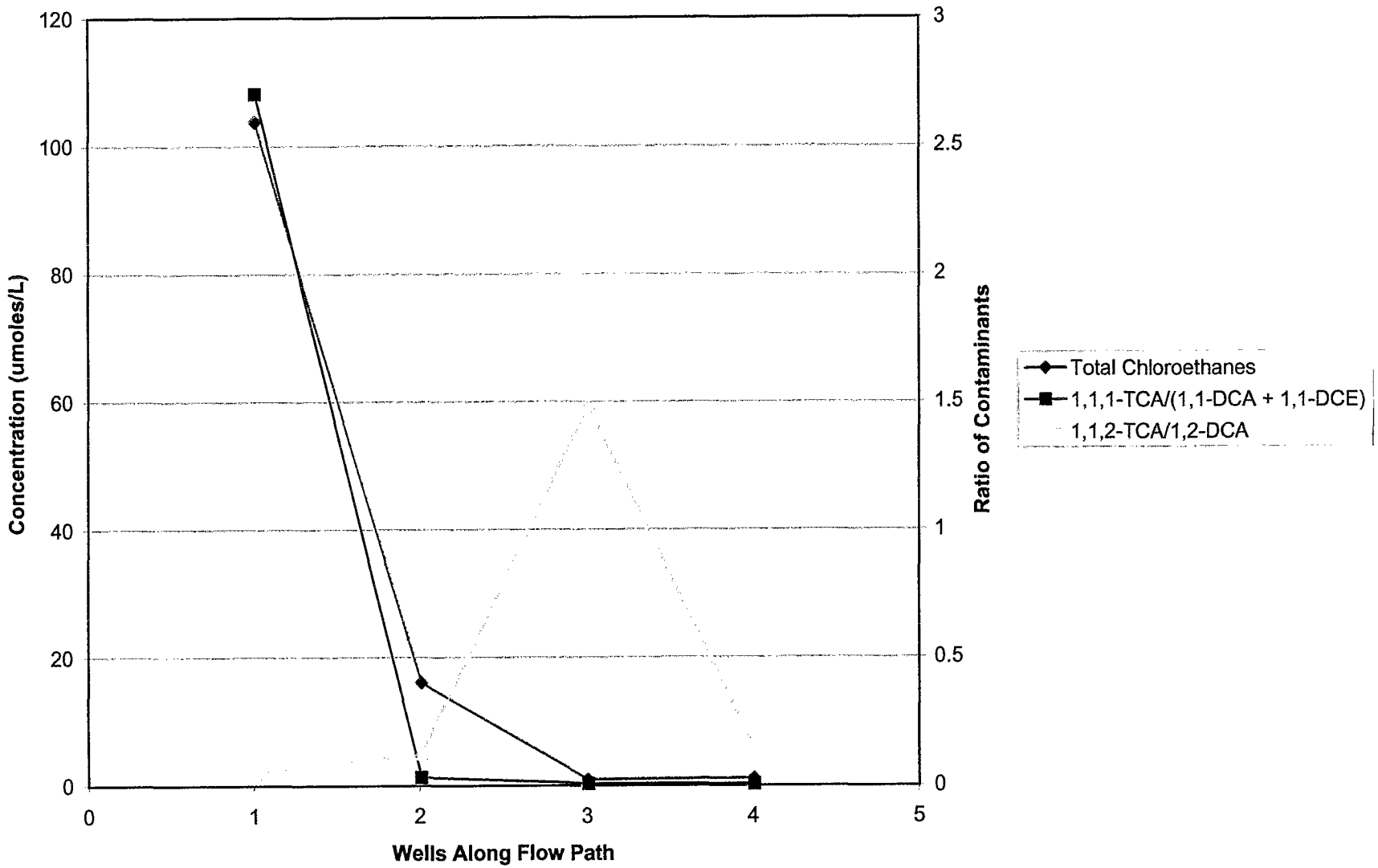


Table G-1

Flow path	
OW-1	OW-1B
OW-8	OW-4B
OW-2	
OW-3	
OW-4A	
OW-5	

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	105.33	131.39	90.33	unknown	unknown	unknown	unknown	unknown	unknown
OW-1	100000	3000	8.6	603.027197	22.8327879	0.08870552	625.9486899	26.4105811	257.399859
OW-8	11000	910	10	66.3329916	6.92594566	0.10314595	73.36208323	9.57746348	67.1470432
OW-4A	37	30	0.5	0.22312006	0.22832788	0.0051573	0.456605239	0.9771915	44.2727757
OW-5	440	810	97	2.65331966	6.16485273	1.00051573	9.818688123	0.43039466	6.16167497
OW-1B	45	2.2	0.5	0.27136224	0.01674404	0.0051573	0.29326358	16.206493	3.24667022
OW-4B	41	3.7	0.5	0.24724115	0.02816044	0.0051573	0.280558887	8.77973372	5.460309

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	67.88	15.41	15.41	15.41	20.56	30.82	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown
OW-1	32	10000	4.7	88	84	2600	0.190635053	74.9568998	0.03522974	0.88924818	0.84882781	26.8179474	103.738788	2.70532251	0.04150399
OW-8	10	50	39	46	240	1200	0.059573454	0.3747845	0.29233191	0.46483428	2.42522231	12.3775142	15.9942608	0.02918349	0.12053819
OW-4A	0.5	0.5	0.5	0.5	0.25	79	0.002978673	0.00374784	0.00374784	0.00505255	0.00252627	0.81485302	0.8329062	0.00457107	1.48354696
OW-5	0.5	0.5	0.5	0.5	2.6	98	0.002978673	0.00374784	0.00374784	0.00505255	0.02627324	1.01083032	1.05263048	0.00368925	0.14264875
OW-1B	0.5	0.5	0.5	0.5	0.64	3.1	0.002978673	0.00374784	0.00374784	0.00505255	0.00646726	0.03197524	0.05396941	0.10121708	0.57951053
OW-4B	0.5	0.5	0.5	0.5	0.25	14	0.002978673	0.00374784	0.00374784	0.00505255	0.00252627	0.14440433	0.16245751	0.02507643	1.48354696

value indicated is one-half the reporting limit

Appendix G
Data Validation

DATA VALIDATION REPORT
CLP-LIKE DATA PACKAGE

Project: Omega Chemical Superfund Site
Groundwater Monitoring Well Sampling - February 2003

References: USEPA CLP National Functional Guidelines for Organic Data Review October 1999 (EPA540/R-99/008)

USEPA CLP National Functional Guidelines for Inorganic Data Review July 2002 (EPA 540-R-01-008)

SW-846 Method 8000B, December 1996
SW-846 Method 8260B, December 1996
SW-846 Method 8270C, December 1996
SW-846 Method 7199, December 1996

EPA Method 300.0, 1993
EPA Method 314, 1999
EPA Method 415.1, 1974

Reviewer: Barbara Wells
CDM - Carlsbad, California

Date: May 2003

Analytical Laboratory: Del Mar Analytical (Del Mar)
Irvine, California 92606

DATA REVIEW

Four water samples (listed below) were collected on February 19, 2003, and transported to Del Mar Analytical. Three of the samples were collected from groundwater monitoring wells and analyzed for the following: volatile organic compounds (VOCs) by EPA Method 8260B; 1,4-dioxane by EPA Method 8270 (modified), hexavalent chromium by EPA Method 7199, perchlorate by EPA Method 314, nitrate/nitrite by EPA Method 300 and dissolved organic carbon (DOC) by EPA Method 9060. The fourth sample was a trip blank and submitted for the analysis of VOCs by EPA Method 8260B. Sample identification and collection dates are summarized in the following table.

Sample Summary Table

Sample ID	*Lab Sample ID*	*Sample Type* [1]	*Date Collected*
OC-GW-OW1-021903	IMB1120-01	GW	2/19/03
OC-GW-OW2-021903	IMB1120-02	GW	2/19/03
OC-GW-OW1B-021903	IMB1120-03	GW	2/19/03
Trip Blank01-021903	IMB1120-04	M	2/19/03

Notes:
[1] GW = Groundwater sample
M = Trip Blank

VOLATILE ORGANIC COMPOUNDS ASSESSMENT - METHOD 8260B

I. TECHNICAL HOLDING TIMES

All technical holding times requirements were met. Water samples were analyzed between February 21 and 23, which is within the 14-day holding time criteria.

II. INITIAL CALIBRATION

Initial calibration of the instrument must be performed using a minimum of five standard concentrations. For initial calibration to be accepted, five system performance check compounds (SPCCs) must meet the following minimum average response factors (RFs):

Chloromethane	0.10
1,1-Dichloroethane	0.10
Bromoform	0.10
Chlorobenzene	0.30
1,1,2,2-Tetrachloroethane	0.30

SPCCs are used to check compound instability and to check for degradation caused by contaminated lines or active sites in the system. The average RF for each of the five SPCCs met the minimum calibration criteria listed above.

Additionally, the relative standard deviation (RSD) of the response factors of the initial calibration curve should be less than or equal to 15 percent for all target analytes and less than or equal to 30 percent for six calibration check compounds (CCCs). The six CCCs are: 1,1-dichloroethene, chloroform, 1,2-dichloropropane,

toluene, ethylbenzene and vinyl chloride. If the RSD of the target analytes is 15 percent or less and less than 30 percent for the six CCCs, then the RF is assumed to be constant over the calibration range and the average RF can be used for quantitation.

If the RSD of the target analytes exceeds the 15 percent criterion, other calibration options can be employed. As discussed in Section 7.0 of Method 8000, linear calibration using a least squares regression may be used with the initial calibration data to demonstrate the instrument calibration linearity. Least squares regression was used for the target analytes listed above, which did not have an average RF of 15 percent or less. For initial calibration to be accepted using a least squares model, the coefficient of determination must be greater than or equal to 0.99.

Initial calibration of GC/MS #33 was performed on January 20, 2003 using a minimum of five concentrations ranging from 0.5 to 200 µg/L, which meets the method requirement of initial calibration using five concentration levels. GC/MS #33 was used to analyze samples on February 21, 2003. All target analytes and CCCs met the 15 percent calibration criteria for GC/MS #33 except for dichlorodifluoromethane, trichlorofluoromethane, dibromochloromethane, and bromoform. The coefficient of determination exceeded 0.99 for these four compounds. All criteria for initial calibration of GC/MS #33 were met for all compounds and no qualification is necessary.

Initial calibration of GC/MS #34 was performed on January 30, 2003 using a minimum of five concentrations ranging from 0.5 to 200 µg/L, which meets the method requirement of initial calibration using five concentration levels. GC/MS #34 was used to analyze samples on February 22 and 23, 2003. All target analytes and CCCs met the 15 percent calibration criteria for GC/MS #33 except for dichlorodifluoromethane, trichlorofluoromethane, 2-chlorovinylethylether, bromoform, 1,1,2,2-tetrachloroethane, 1,2,3-trichloropropane, and 1,2-dibromo-3-chloropropane. The coefficient of determination exceeded 0.99 for these six compounds. All criteria for initial calibration of GC/MS #33 were met for all compounds and no qualification is necessary.

III. CONTINUING CALIBRATION

The initial GC/MS calibration is verified once every 12 hours by analyzing a 4-bromofluorobenzene tuning standard and a calibration verification standard (a midpoint check standard) and prior to analyzing any samples. The calibration verification standard must contain each of the five SPCCs used during initial calibration. The minimum RF for each SPCC must meet the criteria specified for initial calibration (i.e., 0.10 to 0.30). In addition, initial calibration is checked using the CCCs used during initial calibration. If the percent difference (%D) of each of the CCCs is less than 20 percent, the initial calibration is assumed to be valid.

Samples were analyzed on February 21 (GC/MS #33), 22 and 23 (GC/MS #34). Prior to sample analysis, a 50 ng BFB tuning standard was analyzed. Mass ion abundance criteria were met for the system. Each of the five SPCCs and the six CCCs were contained in a mid-point check standard at concentrations of 25 ppb. The RF for each

of the SPCCs was greater than the criteria specified and the %D between the continuing calibration and the initial calibration for each of the CCCs was less than 20 percent. Therefore, the initial calibrations were validated and continuing calibration criteria were met.

IV. METHOD BLANKS

A method blank must be analyzed with each batch of samples for each matrix type immediately after initial calibration is verified and before sample analysis. A total of three method blanks were reported, which correspond to the three analysis dates. No target analytes were detected at concentrations above their respective reporting limits in the blanks analyzed on February 21, 22 and 23, 2003. Therefore, all criteria were met and no further action is required.

V. SURROGATES

Three surrogate spikes (dibromofluoromethane, toluene-d8 and 4-bromofluorobenzene) were added to each environmental sample, QC sample, and method blank, as required by the method. Surrogate control limits were established by the laboratory and are 80 to 120 percent for all three surrogates.

All surrogate recoveries were within the acceptable control limits, except for one surrogate (4-bromofluorobenzene [4-BFB]) reported in one matrix spike (MS) and one matrix spike duplicate (MSD). Recoveries for 4-BFB in the MS and MSD samples analyzed on February 21, 2003 exceeded the upper control limit of 120 percent. Because the other two surrogates in the MS and MSD samples were within control, qualification of the data is not required.

VI. MATRIX SPIKE/MATRIX SPIKE DUPLICATES

Three MS and MSD sample sets were analyzed with this group of samples. Acceptance limits for MS and MSD recoveries and the relative percent difference (RPD) between the MS and the MSD were statistically determined by the laboratory, which meets method requirements, and are listed in the following table:

MS/MSD Acceptance Limits

Spiking Analyte	Acceptance Limits	
	MS/MSD Recovery (%)	RPD
Benzene	60-125	20
Bromodichloromethane	70-140	20
Bromoform	50-140	30
Chlorobenzene	75-125	20
Dibromochloromethane	65-145	25
1,4-Dichlorobenzene	70-120	20
1,1-Dichloroethane	65-135	20

Spiking Analyte	*Acceptance Limits*	
	MS/MSD Recovery (%)	*RPD*
1,2-Dichloroethane	60-150	25
Ethylbenzene	65-125	20
Methyl tert-butyl ether (MTBE)	55-155	30
Naphthalene	50-145	30
Toluene	65-125	20
Vinyl Chloride	40-135	20
m,p-Xylenes	65-120	20
o-Xylene	65-125	20

Except for the MS/MSD sample pair analyzed on February 21, 2003, the percent recoveries for the MS and MSD samples were within the acceptance criteria for all spiked compounds. Nearly all recoveries in both the MS and MSD samples for aromatic compounds exceeded the upper control limits. All detected sample concentrations in the project samples analyzed in this batch were flagged with the laboratory with an "M" to indicate an out-of-range recovery. Of the three samples analyzed in this batch (OW-1, OW-2 and the Trip Blank), only OW-1 contained detectable concentrations of aromatic compounds that may be affected by the high MS/MSD recoveries. Because no other QC deficiencies were noted and acceptable accuracy was demonstrated by the successful analysis of the corresponding LCS, qualification of the data was not warranted.

The relative percent difference (RPD) between the MS and MSD samples were within acceptable criteria for all compounds in the three analytical batches except for bromodichloromethane (analyzed on February 21, 2003), MTBE and naphthalene (analyzed on February 22, 2003), and MTBE (analyzed on February 23, 2003). Because none of these compounds were detected in the associated samples, the slightly poor precision does not affect the project data. Therefore, qualification is not warranted.

VII. LABORATORY CONTROL SAMPLES (LCS)

Three LCS samples were analyzed with each batch of samples, which meets the analytical method requirement of one LCS per analytical batch. Results from the LCS sample were included in the analytical report. All LCS analyte recoveries were within the acceptance limits established by the laboratory, which demonstrates acceptable accuracy.

VIII. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

No field duplicates were submitted with this data package. One trip blank was submitted and analyzed for VOCs. No target analytes were detected in the trip blank, which demonstrates that cross-contamination during sample transport and storage did not occur.

IX. INTERNAL STANDARDS

Internal standard (IS) area counts and retention times for samples analyzed on February 21 through 23, 2003 were within validation criteria. IS area counts for all samples analyzed were within -50 - +100 percent of the IS area count from the daily calibration standard. IS retention times were within ±30 seconds from the retention time of the associated daily standard.

X. TARGET COMPOUND IDENTIFICATION

All positive compound identifications were confirmed through the mass spectra library.

XI. COMPOUND QUANTITATION

Several positive results were recalculated to ensure that compound quantitation was accurate. No errors were encountered. Compound quantitation was based on the initial calibration average RF.

XII. SYSTEM PERFORMANCE

The system performance was acceptable.

XIII. OVERALL ASSESSMENT OF VOC DATA

All QC criteria evaluated during data validation of the VOC analyses were within acceptable limits. No QC issues were encountered that were significant enough to require qualification of the data. Therefore, all VOC data can be used as reported and meet the project objectives.

1,4-DIOXANE DATA ASSESSMENT

Three samples were analyzed for low-level 1,4-dioxane. Because there is no analytical method promulgated by EPA for the analysis of low-level 1,4-dioxane, Del Mar followed a modified EPA Method 8270C method, using isotopic dilution with GC/MS. Method 8270C QC criteria were used during this review to assess data for general compliance. Data reviewed for the 1,4-dioxane analyses include: holding times, instrument calibration, blank results, LCS recoveries, and MS/MSD recoveries and precision.

I. TECHNICAL HOLDING TIMES

According to Method 8270C, the holding time for 1,4-dioxane in water is seven days from sample collection until extraction; and 40 days from extraction to analysis. The three samples (OW-1, OW-2 and OW-1B) were extracted on February 20, 2003, which is one day from sample collection, and analyzed on February 21, 2003.

II. INITIAL CALIBRATION

Initial calibration of GC/MS #5 was performed on November 19, 2002, using seven standard concentrations ranging from 0.2 to 10 ug/L, which meets the 8270C requirement of initial calibration using five concentration levels. The percent relative standard deviation (%RSD) of the response factors over the entire calibration curve was 5.5 percent, which meets general criteria (specified in Method 8000) of less than 15 percent. Therefore, the calibration curve was considered linear.

III. CONTINUING CALIBRATION

The initial calibration of GC/MS #5 was verified prior to sample analysis by analyzing 2 ug/L standard (mid point of the curve). The difference between the continuing calibration verification standard and the initial value was 5.9 percent, which demonstrates that the initial calibration was valid.

IV. METHOD BLANKS

A method blank was analyzed with this batch of samples to verify that the instrument is free from contamination. 1,4-Dioxane was not detected at a concentration above the reporting limit of 0.5 ug/L in the method blank. Therefore, no further action is required.

V. LABORATORY CONTROL SAMPLES (LCS)

One LCS sample was analyzed with this batch of samples, which meets Method 8270C criteria. Results from the LCS sample were included in the analytical report. The LCS recovery for 1,4-dioxane in the batch of samples was 62 percent, which is within the acceptable range of 40 to 120 percent (established by Del Mar). Therefore, acceptable accuracy was demonstrated and no further action is required.

VI. MATRIX SPIKE/MATRIX SPIKE DUPLICATES

One MS and MSD sample set was analyzed with the batch of samples analyzed on February 21, 2003. Acceptance limits for MS and MSD recoveries were determined by the laboratory to be 40 to 120 percent. The percent recoveries for the MS and MSD samples were within the acceptance criteria, which suggest that significant interferences from the sample matrix did not occur. Therefore, all criteria were met. Furthermore, the RPD between the MS and MSD recoveries was 3 percent, which demonstrates acceptable precision.

VII. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

No field duplicates were submitted with this sample group.

VIII. INTERNAL STANDARDS

Internal standard (IS) area counts and retention times for samples analyzed on February 21, 2003 were within validation criteria. IS area counts for all samples analyzed were within -50 - +100 percent of the IS area count from the daily calibration standard. IS retention times were within ±30 seconds from the retention time of the associated daily standard.

IX. TARGET COMPOUND IDENTIFICATION

All positive compound identifications were confirmed through the mass spectra library.

X. COMPOUND QUANTITATION

Several positive results were recalculated to ensure that compound quantitation was accurate. No errors were encountered. Compound quantitation was based on the initial calibration average RF.

XI. SYSTEM PERFORMANCE

The system performance was acceptable.

XII. OVERALL ASSESSMENT OF 1,4-DIOXANE DATA

Although no EPA method exists for the analysis of low-level 1,4-dioxane, the project data were reviewed for general compliance with standard QC criteria requirements specified for organic analyses. Also, QC sample results were evaluated against laboratory specified acceptance criteria for method compliance. No significant QC issues were encountered during the data review. Therefore, the 1,4-dioxane data can be used for the project purposes without qualification.

NITRATE ASSESSMENT - METHOD 300.0

Three samples were analyzed for nitrate using EPA Method 300.0.

I. TECHNICAL HOLDING TIMES

The holding time for nitrate in water is 48 hours. All samples submitted for nitrate analysis were collected on February 19, and analyzed on February 20, 2003. Therefore, all samples were analyzed within 48 hours, which meets the holding time criteria.

II. CALIBRATION

For a calibration curve, a minimum of three calibration standards is required. Initial calibration was performed on February 11, 2003. Del Mar used four calibration standards ranging from 0.5 to 20 mg/L, which meets method criteria. For calibration to be accepted, an initial calibration check standard must be analyzed prior to sample analysis and must be within 85 to 115 percent of the true value. The calibration check standard recovery for nitrate was 98 percent, which meets acceptance criteria. Therefore, no action is required.

III. BLANKS

For Method 300.0, at least one laboratory reagent blank must be analyzed with each batch of samples, in accordance with the method requirements. Nitrate was not detected above the reporting limit of 0.11 mg/L in the method blank analyzed with this group of samples. Therefore, all method blank criteria were met.

IV. LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. For EPA Method 300.0, all aqueous LCS percent recoveries must be within 90 to 110 percent. If the recoveries do not fall within the acceptable limits, sample results may be qualified.

The recovery for the nitrate LCS samples was 96 percent, which is within acceptance criteria. No further action is required.

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE ANALYSIS

Method 300.0 requires that one matrix spike be analyzed for each sample batch (1/20 samples). As required by Method 300.0, MS recoveries should be within acceptance limits of 80 to 120 percent. Del Mar also analyzed an MSD to meet the requirement of one duplicate sample per analytical batch to assess precision.

One MS/MSD sample set was analyzed with the group of samples. The percent recoveries for the MS and MSD samples were 65 and 66 percent, respectively, which are not within acceptable control limits. Del Mar reported that high concentrations of non-target analytes were detected in the sample, which affected the recoveries of the MS and MSD samples. Because acceptable accuracy was demonstrated by the successful analysis of the corresponding LCS and because no other significant QC issues were observed, qualification is not required.

VI. FIELD DUPLICATES

No field duplicates were submitted with this group of samples.

VII. OVERALL ASSESSMENT

In general, the overall performance of the nitrate analyses was very good. No QC deficiencies significant enough to warrant qualification were encountered during review of the data. Therefore, the results are acceptable and can be used for the project purposes without qualification.

PERCHLORATE ASSESSMENT - METHOD 314

Three samples were analyzed for perchlorate using EPA Method 314.

I. TECHNICAL HOLDING TIMES

The holding time for perchlorate in water is 28 days. All samples submitted for perchlorate analysis were collected on February 19, 2003 and analyzed on February 20, 2003. Therefore, all samples were analyzed within 28 days, which meets the holding time criteria.

II. CALIBRATION

For a calibration curve, a minimum of three calibration standards is required. Del Mar used six calibration standards (ranging from 2 to 100 µg/L), which meets method criteria. Initial calibration was performed on February 5, 2003. For calibration to be accepted, an initial calibration check standard must be analyzed prior to sample analysis and must be within ± 10 percent of the initial values. The calibration check standard (25 ug/L) recovery for perchlorate was 106 percent, which meets acceptance criteria. Therefore, no action is required.

III. BLANKS

For Method 314, at least one laboratory reagent blank must be analyzed with each batch of samples, in accordance with the method requirements. Perchlorate was not detected above the reporting limit of 4.0 µg/L in the blank analyzed with this group of samples. Therefore, all method blank criteria were met.

IV. LABORATORY CONTROL SAMPLES

The LCS serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. For EPA Method 314, all aqueous LCS percent recoveries must be within 90 to 110 percent. If the recoveries do not fall within the acceptable limits, the source of the problem should be identified and resolved.

The recovery for the perchlorate LCS samples was 101 percent, which is within acceptance criteria. No further action is required.

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE ANALYSIS

Method 314 requires that one matrix spike be analyzed on a minimum of 10 percent of the samples. MS recoveries should be within acceptance limits of 80 to 120 percent. Del Mar also analyzed an MSD to meet the requirement of one duplicate sample per analytical batch to assess precision.

One MS/MSD sample set was analyzed with the group of samples. The percent recoveries for the MS and MSD samples were 102 percent, which are within acceptable control limits. Therefore, all criteria were met for accuracy and precision and no further action is warranted.

VI. FIELD DUPLICATES

No field duplicates were submitted with this group of samples.

VII. OVERALL ASSESSMENT

The overall performance of the perchorate analyses was good. No QC deficiencies were encountered during review of the available data. Therefore, the results are acceptable and can be used for the project purposes without qualification.

HEXAVALENT CHROMIUM EVALUATION - METHOD 7199

Three samples were analyzed for hexavalent chromium using EPA Method 7199.

I. TECHNICAL HOLDING TIMES

The holding time for hexavalent chromium in water is 24 hours. All samples submitted for hexavalent chromium analysis were collected on February 19, 2003 and analyzed on February 20, 2003. Therefore, all samples were analyzed within 24 hours, which meets the holding time criteria.

II. CALIBRATION

One blank and seven calibration standards (ranging from 0.3 to 100 µg/L) were used to generate an initial calibration curve, which meets the method criteria of one blank plus a minimum of three calibration standards. The calibration curve of analyte response versus analyte concentrations was generated, which resulted in a correlation coefficient greater than 0.999. Therefore, the calibration curve was accepted and considered linear. All calibration data met the method criteria for hexavalent chromium analysis.

III. BLANKS

For Method 7199, at least one instrument blank must be analyzed every 10 samples to check for contamination. Hexavalent chromium was not detected in the instrument blank. Therefore, all method blank criteria were met.

IV. LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. LCS, or calibration check standards, must be analyzed every 10 samples. For EPA Method 7199, all aqueous LCS percent recoveries must be within 90 to 110 percent. If the recoveries do not fall within the acceptable limits, the instrument must be re-calibrated and the previous ten samples must be reanalyzed.

The recovery for the hexavalent chromium LCS was 103 percent, which is within acceptance criteria. No further action is required.

V. MATRIX SPIKE, MATRIX SPIKE DUPLICATE SAMPLE ANALYSIS

At least one duplicate sample and one matrix spike sample must be analyzed per sample batch to check for precision and matrix spike recovery. To meet these criteria, Del Mar analyzed one MS and MSD pair with the sample batch. MS and MSD recoveries must be within 85 to 115 percent, and the precision limit must be within 15 percent.

The MS and MSD recoveries for this sample batch were 101percent each, which is within the acceptance criteria for both accuracy and precision. Therefore, all spike and duplicate criteria for Method 7199 were met and no further action was required.

VI. FIELD DUPLICATES

No field duplicates were submitted with this group of samples.

VII. OVERALL ASSESSMENT

The overall performance of the hexavalent chromium analyses was within acceptable limits. No QC deficiencies were encountered during review of the data. Therefore, the results are acceptable and can be used for the project purposes without qualification.

DISSOLVED ORGANIC CARBON (DOC) ASSESSMENT - METHOD 415.1

Three samples were analyzed for DOC using EPA Method 415.1.

I. TECHNICAL HOLDING TIMES

The holding time for DOC in water is 28 days. All samples submitted for DOC analysis were collected on February 19, 2003 and analyzed on February 27, 2003. Therefore, all samples were analyzed within seven days, which meets the holding time criteria.

II. CALIBRATION

Method 415.1 does not specify instrument calibration criteria.

III. BLANKS

For Method 415.1, at least one method blank must be analyzed with each batch of samples, in accordance with the method requirements. The DOC concentration detected in the method blank was less than the reporting limit of 1.0 mg/L. Therefore, the method blank criteria were met and no further action is required.

IV. LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Method 415.1 does not specify frequency or acceptance limits for the LCS. Del Mar specified an LCS acceptance criterion of 90 to 110 percent. If the recoveries do not fall within the acceptable limits, the instrument must be re-calibrated and the previous ten samples must be reanalyzed.

The recovery for the DOC LCS was 100 percent, which is within acceptance criteria. No further action is required.

V. MATRIX SPIKE, MATRIX SPIKE DUPLICATE SAMPLE ANALYSIS

Method 415.1 does not specify frequency or acceptance criteria for MS/MSD samples. Del Mar analyzed one MS and MSD pair with the sample batch. MS and MSD recoveries must be within 80 to 120 percent (established by Del Mar), and the precision limit must be within 20 percent.

The MS and MSD recoveries for this sample batch were 96 and 97 percent, respectively, which is within the acceptance criteria for both accuracy and precision. Therefore, all spike and duplicate criteria for Method 415.1 were met and no further action was required.

VI. FIELD DUPLICATES

No field duplicates were submitted with this group of samples.

VIII. OVERALL ASSESSMENT

No QC deficiencies were encountered in the assessment of the DOC data. Therefore, the results are acceptable and can be used for the project purposes without qualification.

DATA VALIDATION REPORT
CLP-LIKE DATA PACKAGE

Project: Omega Chemical Superfund Site
Groundwater Monitoring Well Sampling - August 2002

References: USEPA CLP National Functional Guidelines for Organic Data Review October 1999 (EPA540/R-99/008)

SW-846 Method 8000B, December 1996
SW-846 Method 8260B, December 1996
SW-846 Method 8270C, December 1996

Reviewer: Barbara Wells
CDM - Carlsbad, California

Date: May 2003

Analytical Laboratory: Del Mar Analytical (Del Mar)
Irvine, California 92606

DATA REVIEW

Five water samples (listed below) were collected on August 21 and 22, 2002, and transported to Del Mar Analytical. Three of the samples were collected from groundwater monitoring wells and analyzed for the following: volatile organic compounds (VOCs) by EPA Method 8260B; and 1,4-dioxane by EPA Method 8270 (modified). Weck Laboratories, located in the City of Industry, California, analyzed 1,4-Dioxane. The fourth sample was a duplicate and also analyzed for VOCs and 1,4-dioxane. The fifth sample was a trip blank and analyzed for VOCs only. Sample identification and collection dates are summarized in the following table.

Sample Summary Table

Sample ID	*Lab Sample ID*	*Sample Type* [1]	*Date Collected*
OC-GW-OW8-082202	ILH1043-01	GW	8/22/02
OC-GW-OW8K-082202	ILH1043-02	GW	8/22/02
OC-GW-OW5-082202	ILH1043-03	GW	8/22/02
OC-GW-OW4b-082102	ILH1043-04	GW	8/22/02

Sample ID	Lab Sample ID	Sample Type [1]	Date Collected
TB2	ILH1043-05	M	8/22/02

Notes:

[1] GW Groundwater Sample

M Trip Blank

VOLATILE ORGANIC COMPOUNDS ASSESSMENT - METHOD 8260B

I. TECHNICAL HOLDING TIMES

All technical holding times requirements were met. Water samples were analyzed between August 27 and 29, 2002, which is within the 14-day holding time criteria.

II. INITIAL CALIBRATION

Initial calibration of the instrument must be performed using a minimum of five standard concentrations. For initial calibration to be accepted, five system performance check compounds (SPCCs) must meet the following minimum average response factors (RFs):

Chloromethane	0.10
1,1-Dichloroethane	0.10
Bromoform	0.10
Chlorobenzene	0.30
1,1,2,2-Tetrachloroethane	0.30

SPCCs are used to check compound instability and to check for degradation caused by contaminated lines or active sites in the system. The average RF for each of the five SPCCs met the minimum calibration criteria listed above.

Additionally, the relative standard deviation (RSD) of the response factors of the initial calibration curve should be less than or equal to 15 percent for all target analytes and less than or equal to 30 percent for six calibration check compounds (CCCs). The six CCCs are: 1,1-dichloroethene, chloroform, 1,2-dichloropropane, toluene, ethylbenzene and vinyl chloride. If the RSD of the target analytes is 15 percent or less and less than 30 percent for the six CCCs, then the RF is assumed to be constant over the calibration range and the average RF can be used for quantitation.

If the RSD of the target analytes exceeds the 15 percent criterion, other calibration options can be employed. As discussed in Section 7.0 of Method 8000, linear

calibration using a least squares regression may be used with the initial calibration data to demonstrate the instrument calibration linearity. Least squares regression was used for the target analytes listed above, which did not have an average RF of 15 percent or less. For initial calibration to be accepted using a least squares model, the coefficient of determination must be greater than or equal to 0.99.

Initial calibration of GC/MS #1 was performed on August 26, 2002 using a minimum of five concentrations ranging from 0.5 to 200 µg/L, which meets the method requirement of initial calibration using five concentration levels. GC/MS #1 was used to analyze OC-GW-OW8-082202 (100 dilution), OC-GW-OW8k-082202, and the trip blank on August 27, 2002. All target analytes and CCCs met the 15 percent calibration criteria for GC/MS #1 except for dichlorodifluoromethane, dibromochloromethane and bromoform. The coefficient of determination exceeded 0.99 for these three compounds. Therefore, all criteria for initial calibration of GC/MS #1 were met for all compounds and no qualification is necessary.

Initial calibration of GC/MS #9 was performed on August 26, 2002 using a minimum of five concentrations ranging from 0.5 to 200 µg/L, which meets the method requirement of initial calibration using five concentration levels. GC/MS #9 was used to analyze samples OC-GW-OW8-082202, OC-GW-OW8k-082202 (100 dilution), OC-GW-OW5-082202 and OC-GW-OW4b-082102 on August 28, 2002. All target analytes and CCCs met the 15 percent calibration criteria for GC/MS #9 except for vinyl acetate. The calibration curve for vinyl acetate was fit with a quadratic equation. The coefficient of variation exceeded 0.99 for this compound. Therefore, all criteria for initial calibration of GC/MS #9 were met for all compounds and no qualification is necessary.

III. CONTINUING CALIBRATION

The initial GC/MS calibration is verified once every 12 hours by analyzing a 4-bromofluorobenzene tuning standard and a calibration verification standard (a midpoint check standard) and prior to analyzing any samples. The calibration verification standard must contain each of the five SPCCs used during initial calibration. The minimum RF for each SPCC must meet the criteria specified for initial calibration (i.e., 0.10 to 0.30). In addition, initial calibration is checked using the CCCs used during initial calibration. If the percent difference (%D) of each of the CCCs is less than 20 percent, the initial calibration is assumed to be valid.

Samples were analyzed on August 27 and 28, 2002. Prior to sample analysis, a 50 ng BFB tuning standard was analyzed. Mass ion abundance criteria were met for the system. Each of the five SPCCs and the six CCCs were contained in a mid-point check standard at concentrations of 25 ppb. The RF for each of the SPCCs was greater than the criteria specified and the %D between the continuing calibration and the initial calibration for each of the CCCs was less than 20 percent. Therefore, the initial calibrations were validated and continuing calibration criteria were met.

IV. METHOD BLANKS

A method blank must be analyzed with each batch of samples for each matrix type immediately after initial calibration is verified and before sample analysis. A total of three method blanks were reported. No target analytes were detected at concentrations above their respective reporting limits in the blanks analyzed between August 27 and 28, 2002. Therefore, all criteria were met and no further action is required.

V. SURROGATES

Three surrogate spikes (dibromofluoromethane, toluene-d8 and 4-bromofluorobenzene) were added to each environmental sample, QC sample, and method blank, as required by the method. Surrogate control limits were established by the laboratory and are 80 to 120 percent for all three surrogates.

All surrogate recoveries were within the acceptable control limits.

VI. MATRIX SPIKE/MATRIX SPIKE DUPLICATES

Three MS and MSD sample sets were analyzed with this group of samples. Acceptance limits for MS and MSD recoveries and the relative percent difference (RPD) between the MS and the MSD were statistically determined by the laboratory, which meets method requirements, and are listed in the following table:

MS/MSD Acceptance Limits

Spiking Analyte	*Acceptance Limits*	
	MS/MSD Recovery (%)	*RPD*
Benzene	70-140	20
Bromodichloromethane	75-145	20
Bromoform	55-150	40
Chlorobenzene	75-130	20
Chloroform	75-150	20
Dibromochloromethane	70-145	20
1,4-Dichlorobenzene	75-125	20
1,1-Dichloroethane	60-130	20
1,2-Dichloroethane	65-140	20
1,1-Dichloroethene	65-165	20
Ethylbenzene	75-135	20
Methyl tert-butyl ether (MTBE)	65-150	20

Spiking Analyte	*Acceptance Limits*	
	MS/MSD Recovery (%)	*RPD*
Naphthalene	50-155	30
Tetrachloroethene	75-155	20
Toluene	75-135	20
Trichloroethene	75-130	20
Vinyl Chloride	40-190	25
o-Xylene	75-150	20
m,p-Xylene	70-140	20

The percent recoveries for the MS and MSD samples were within acceptable criteria for all spiked compounds for the three analytical batches.

The relative percent difference (RPD) between the MS and MSD samples were within acceptable criteria for all compounds in the three analytical batches.

VII. LABORATORY CONTROL SAMPLES (LCS)

Three LCS samples were analyzed with each batch of samples, which meets the analytical method requirement of one LCS per analytical batch. Results from the LCS sample were included in the analytical report. All LCS analyte recoveries were within the acceptance limits established by the laboratory, which demonstrates acceptable accuracy.

VIII. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

One field duplicate pair was submitted with this group of samples. Sample OC-GW-OW8K-082202 is a field duplicate (split) of sample OC-GW-OW8-082202. Both samples were analyzed for VOCs. Results of the duplicate analyses are summarized in the following table:

Duplicate Sample Results

Analyte	*Sample Concentration (µg/L)*	*Dilution Factor*	*Duplicate Concentration (µg/L)*	*Dilution Factor*	*RPD (%)*
Sample ID:	*OC-GW-OW8-082202*		*OC-GW-OW8K-082202*		
Acetone	< 200	20	89	1	n/a
Benzene	< 10	20	5.3	1	n/a
Chlorobenzene	< 20	20	1.1	1	n/a
Chloroform	350	20	340	100	2.9
1,2-Dichlorobenzene	< 20	20	1.2	1	n/a
1,1-Dichloroethane	46	20	45	1	2.2
1,2-Dichloroethane	49	20	86	1	55
1,1-Dichloroethene	1,700	20	1,500	100	13
cis-1,2-Dichloroethene	< 20	20	9.7	1	n/a
trans-1,2-Dichloroethene	81	20	66	1	20
Methylene chloride	< 100	20	140	1	n/a
1,1,1,2-Tetrachloroethane	< 20	20	1.9	1	n/a
Tetrachloroethene (PCE)	9,400	100	10,000	100	6.2
Toluene	< 20	20	4.7	1	n/a
1,1,1-Trichloroethane	49	20	47	1	4.2
1,1,2-Trichloroethane	< 20	20	25	1	n/a
Trichloroethene (TCE)	910	20	840	100	8
Trichlorofluoromethane	1,000	20	910	100	9.4
Trichlorotrifluoroethane (Freon 113)	2,100	20	2,300	100	9.1

Notes: Only detected analytes are shown on the table was No field duplicates were submitted

In accordance with the project work plan, a relative percent difference (RPD) between duplicate water samples of 20 percent or less demonstrates acceptable precision. As shown on the table above, the RPD between detected analyte concentrations was less than 20 percent for all compounds except 1,2-dichloroethane, which was 55 percent. Because the 1,2-dichloroethane concentrations were within the same order of magnitude and because all other detected concentrations were in good agreement, the elevated RPD is not significant enough to warrant qualification. Therefore, no further action is required.

One trip blank was also submitted and analyzed for VOCs. No detectable concentrations of VOCs were reported in the trip blank, which demonstrates that cross-contamination during sample transport and storage did not occur.

IX. INTERNAL STANDARDS

Internal standard (IS) area counts and retention times for samples analyzed on August 27 and 28, 2002 were within validation criteria. IS area counts for all samples analyzed were within -50 - +100 percent of the IS area count from the daily calibration standard. IS retention times were within ±30 seconds from the retention time of the associated daily standard.

X. TARGET COMPOUND IDENTIFICATION

All positive compound identifications were confirmed through the mass spectra library.

XI. COMPOUND QUANTITATION

Several positive results were recalculated to ensure that compound quantitation was accurate. No errors were encountered. Compound quantitation was based on the initial calibration average RF.

XII. SYSTEM PERFORMANCE

The system performance was acceptable.

XIII. OVERALL ASSESSMENT OF VOC DATA

All QC criteria evaluated during data validation of the VOC analyses were within acceptable limits. No QC issues were encountered that were significant enough to require qualification of the data. Therefore, all VOC data can be used as reported and meet the project objectives.

1,4-DIOXANE DATA ASSESSMENT

Three samples were analyzed for low-level 1,4-dioxane. Because there is no analytical method promulgated by EPA for the analysis of low-level 1,4-dioxane, Weck followed a modified EPA Method 8270C method, but using isotopic dilution with GC/MS. Method 8270C QC criteria were used during this review to assess data for general compliance. Data reviewed for the 1,4-dioxane analyses include: holding times, instrument calibration, blank results, LCS recoveries, and MS/MSD recoveries and precision.

I. TECHNICAL HOLDING TIMES

According to Method 8270C, the holding time for 1,4-dioxane in water is 7 days from sample collection until extraction; and 40 days from extraction to analysis. The three samples (OW8, OW8k and OW4b) collected on August 21 and 22, 2002, were extracted on September 3, 2002, which is 11 to 12 days from sample collection, and analyzed on September 13, 2002. Although Method 8000 specifies a holding time of 7 days until extraction, Weck Laboratories has shown through internal studies that 1,4-dioxane is stable for much longer periods of time. Therefore, Weck uses a criterion of 14 days from sample collection to extraction as a conservative holding time for 1,4-dioxane. Because there is no promulgated method for the analysis of low-level 1,4-dioxane, the data will not be qualified due to holding time exceedances.

II. INITIAL CALIBRATION

Initial calibration of GC/MS #6 was performed on September 12, 2002, using seven standard concentrations ranging from 0.5 to 40 ug/L, which meets the 8270C requirement of initial calibration using five concentration levels. A DFTPP tune check standard at 50 ng was analyzed prior to calibration and passed acceptance criteria. The percent relative standard deviation (%RSD) of the response factors over the entire calibration curve was 4.5 percent, which meets general criteria (specified in Method 8000) of less than 20 percent. Therefore, the calibration curve was considered linear.

III. CONTINUING CALIBRATION

The initial calibration of GC/MS #6 was verified prior to sample analysis by analyzing 10 ug/L standard (mid point of the curve). The difference between the continuing calibration verification standard and the initial value was 0.5 percent, which demonstrates that the initial calibration was valid.

IV. METHOD BLANKS

A method blank was analyzed with this batch of samples to verify that the instrument is free from contamination. 1,4-dioxane was not detected at a concentration above the reporting limit of 0.5 ug/L in the method blank. Therefore, no further action is required.

V. LABORATORY CONTROL SAMPLES (LCS)

One LCS sample was analyzed with this batch of samples, which meets Method 8270C criteria. Results from the LCS sample were included in the analytical report. The LCS recovery in this batch was 109 percent, which is within the acceptance limits of 77 to 133 percent.

VI. MATRIX SPIKE/MATRIX SPIKE DUPLICATES

One MS and MSD sample set was analyzed with the batch of samples analyzed on September 13, 2002. MS and MSD recoveries were 117 and 115 percent, respectively, which are within the acceptance criteria of 53 to 136 percent. The RPD between the MS and MSD samples was less than 2 percent, demonstrating acceptable precision.

VII. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Sample OC-GW-OW8K-082202 is a field duplicate (split) of sample OC-GW-OW8-082202. The primary sample contained 1,4-dioxane at 830 ug/l and the duplicate at 840 ug/l, which represents an RPD of 1 percent. Therefore, acceptable precision was demonstrated.

VIII. INTERNAL STANDARDS

Internal standard (IS) area counts and retention times for samples analyzed on September 13, 2003 were within validation criteria. IS area counts for all samples analyzed were within -50 - +100 percent of the IS area count from the daily calibration standard. IS retention times were within ±30 seconds from the retention time of the associated daily standard.

IX. TARGET COMPOUND IDENTIFICATION

All positive compound identifications were confirmed through the mass spectra library.

X.COMPOUND QUANTITATION

One of the positive results was recalculated to ensure that compound quantitation was accurate. No errors were encountered. Compound quantitation was based on the initial calibration average RF.

XI. SYSTEM PERFORMANCE

The system performance was acceptable.

XII. OVERALL ASSESSMENT OF 1,4-DIOXANE DATA

Although no EPA method exists for the analysis of low-level 1,4-dioxane, the project data were reviewed for general compliance with standard QC criteria requirements specified for organic analyses. Also, QC sample results were evaluated against laboratory specified acceptance criteria for method compliance. No significant QC issues were encountered during the data review. Therefore, the 1,4-dioxane data can be used for the project purposes without qualification.

DATA VALIDATION REPORT
CLP-LIKE DATA PACKAGE

Project: Omega Chemical Superfund Site
Groundwater Monitoring Well Sampling – February 2002

References: USEPA CLP National Functional Guidelines for Organic Data Review October 1999 (EPA540/R-99/008)

USEPA CLP National Functional Guidelines for Inorganic Data Review February 1994 (EPA 540/R-94/013)

SW-846 Method 8000B, December 1996
SW-846 Methods 8260B, 8270C, 8081, 6020 and 7470, December 1996

EPA Method 300 Modified (CADHS Method), 1997

Reviewer: Barbara Wells
CDM - Carlsbad, California

Date: May 2003

Analytical Laboratory: Del Mar Analytical (Del Mar)
Irvine, California 92606

DATA REVIEW

Two water samples (listed below) were collected on February 14, 2002, and transported to Del Mar Analytical. The samples were collected from groundwater monitoring wells and analyzed for the following: volatile organic compounds (VOCs) by EPA Method 8260B, semi-volatile organic compounds (SVOCs) by EPA Method 8270C, pesticides by EPA Method 8081, CAM 17 metals by EPA Method 6020, mercury by EPA Method 7470A, cyanide by Method 335.2 and perchlorate by EPA Method 300.0 (modified). 1,4-Dioxane was analyzed by Weck Laboratories, located in the City of Industry, California, using a modified EPA Method 8270. Full raw data packages were requested only for VOCs by EPA method 8260B. Although raw data packages were not provided for the other analyses, standard laboratory QC data summarized in the laboratory report were reviewed for general compliance with the analytical methods. Sample identification and collection dates are summarized in the following table.

Sample Summary Table

Sample ID	*Lab Sample ID*	*Sample Type*	*Date Collected*
OC-GW-OW1-021402	ILB0618-01	GW	2/14/02
OC-GW-OW1B-021903	ILB0618-02	GW	2/14/02

VOLATILE ORGANIC COMPOUNDS ASSESSMENT - METHOD 8260B

I. TECHNICAL HOLDING TIMES

All technical holding times requirements were met. Water samples were analyzed between February 22 and 25, which is within the 14-day holding time criteria.

II. INITIAL CALIBRATION

Initial calibration of the instrument must be performed using a minimum of five standard concentrations. For initial calibration to be accepted, five system performance check compounds (SPCCs) must meet the following minimum average response factors (RFs):

Chloromethane	0.10
1,1-Dichloroethane	0.10
Bromoform	0.10
Chlorobenzene	0.30
1,1,2,2-Tetrachloroethane	0.30

SPCCs are used to check compound instability and to check for degradation caused by contaminated lines or active sites in the system. The average RF for each of the five SPCCs met the minimum calibration criteria listed above.

Additionally, the relative standard deviation (RSD) of the response factors of the initial calibration curve should be less than or equal to 15 percent for all target analytes and less than or equal to 30 percent for six calibration check compounds (CCCs). The six CCCs are: 1,1-dichloroethene, chloroform, 1,2-dichloropropane, toluene, ethylbenzene and vinyl chloride. If the RSD of the target analytes is 15 percent or less and less than 30 percent for the six CCCs, then the RF is assumed to be constant over the calibration range and the average RF can be used for quantitation.

If the RSD of the target analytes exceeds the 15 percent criterion, other calibration options can be employed. As discussed in Section 7.0 of Method 8000, linear

calibration using a least squares regression may be used with the initial calibration data to demonstrate the instrument calibration linearity. Least squares regression was used for the target analytes listed above, which did not have an average RF of 15 percent or less. For initial calibration to be accepted using a least squares model, the coefficient of determination must be greater than or equal to 0.99.

Initial calibration of GC/MS #34 was performed on February 12, 2002 using a minimum of five concentrations ranging from 0.5 to 200 µg/L, which meets the method requirement of initial calibration using five concentration levels. GC/MS #34 was used to analyze sample OW-1b on February 22, 2002. All target analytes and CCCs met the 15 percent calibration criteria for GC/MS #34 except for bromoform, dichlorodifluoromethane and trichlorofluoromethane. The coefficient of determination exceeded 0.99 for these two compounds. All criteria for initial calibration of GC/MS #34 were met for all compounds and no qualification is necessary.

Initial calibration of GC/MS #9 was performed on February 8, 2002 using a minimum of five concentrations ranging from 0.5 to 200 µg/L, which meets the method requirement of initial calibration using five concentration levels. GC/MS #9 was used to analyze sample OW-1 for tetrachloroethene (PCE) only on February 24, 2002. PCE met the 15 percent calibration criteria for GC/MS #9.

Initial calibration of GC/MS #1 was performed on February 14, 2002 using a minimum of five concentrations ranging from 0.5 to 200 µg/L, which meets the method requirement of initial calibration using five concentration levels. GC/MS #1 was used to analyze sample OW-1 on February 25, 2002. All target analytes and CCCs met the 15 percent calibration criteria for GC/MS #1 except for bromochloromethane, dibromomethane, 1,2-dibromomethane, bromoform, 1,2,4-trichlorobenzene, 1,2,3-trichlorobenzene, naphthalene and trichlorofluoromethane. The coefficient of determination exceeded 0.99 for these eight compounds. All criteria for initial calibration of GC/MS #1 were met for all compounds and no qualification is necessary.

III. CONTINUING CALIBRATION

The initial GC/MS calibration is verified once every 12 hours by analyzing a 4-bromofluorobenzene tuning standard and a calibration verification standard (a midpoint check standard) and prior to analyzing any samples. The calibration verification standard must contain each of the five SPCCs used during initial calibration. The minimum RF for each SPCC must meet the criteria specified for initial calibration (i.e., 0.10 to 0.30). In addition, initial calibration is checked using the CCCs used during initial calibration. If the percent difference (%D) of each of the CCCs is less than 20 percent, the initial calibration is assumed to be valid.

Sample OW-1 was analyzed for all compounds on February 25, 2002 (GC/MS #1), and analyzed for only PCE on February 24 (GC/MS #9); sample OW-1b was analyzed on February 22, 2002 (GC/MS #34). Prior to sample analysis on each day, a 50 ng BFB tuning standard was analyzed. Mass ion abundance criteria were met for the system.

Each of the five SPCCs and the six CCCs were contained in a mid-point check standard at concentrations of 25 ppb. The RF for each of the SPCCs was greater than the criteria specified and the %D between the continuing calibration and the initial calibration for each of the CCCs was less than 20 percent. Therefore, the initial calibrations were validated and continuing calibration criteria were met.

IV. METHOD BLANKS

A method blank must be analyzed with each batch of samples for each matrix type immediately after initial calibration is verified and before sample analysis. A total of three method blanks were reported, which correspond to the three analysis dates. No target analytes were detected at concentrations above their respective reporting limits in the blanks analyzed on February 22, 24 and 25, 2002. Therefore, all criteria were met and no further action is required.

V. SURROGATES

Three surrogate spikes (dibromofluoromethane, toluene-d8 and 4-bromofluorobenzene) were added to each environmental sample, QC sample, and method blank, as required by the method. Surrogate control limits were established by the laboratory and are 80 to 120 percent for all three surrogates.

All surrogate recoveries were within the acceptable control limits.

VI. MATRIX SPIKE/MATRIX SPIKE DUPLICATES

Three MS and MSD sample sets were analyzed with this group of samples. Acceptance limits for MS and MSD recoveries and the relative percent difference (RPD) between the MS and the MSD were statistically determined by the laboratory, which meets method requirements, and are listed in the following table:

MS/MSD Acceptance Limits

Spiking Analyte	*Acceptance Limits*	
	MS/MSD Recovery (%)	*RPD*
Benzene	70-140	20
Bromodichloromethane	75-145	20
Bromoform	55-150	40
Chlorobenzene	75-130	20
Chloroform	75-150	20
Dibromochloromethane	70-145	20
1,4-Dichlorobenzene	65-145	20
1,1-Dichloroethane	75-160	20
1,2-Dichloroethane	65-160	20

Spiking Analyte	*Acceptance Limits*	
	MS/MSD Recovery (%)	*RPD*
1,1-Dichloroethene	45-165	50
Ethylbenzene	70-135	20
Methyl tert-butyl ether (MTBE)	65-150	20
Naphthalene	50-155	20
Tetrachloroethene	50-155	20
Toluene	70-135	20
Trichloroethene	65-130	20
Vinyl Chloride	25-190	20
o-Xylene	70-150	25
m,p-Xylene	65-140	20

Except for the MS/MSD sample pair analyzed on February 22, 2002, the percent recoveries for the MS and MSD samples were within the acceptance criteria for all spiked compounds. In both the MS and MSD samples analyzed on February 22, 2002, the recoveries for benzene were below the acceptable limit of 70 percent. Because no other QC deficiencies were noted and acceptable accuracy was demonstrated by the successful analysis of the corresponding LCS, qualification of the data was not warranted.

The relative percent difference (RPD) between the MS and MSD samples were within acceptable criteria for all compounds in the three analytical batches except for vinyl chloride (analyzed on February 25, 2002). The RPD between the MS and MSD samples for vinyl chloride was 22 percent, which exceeds the upper control limit of 20 percent. Because vinyl chloride was not detected in the associated samples, the slightly poor precision for this one compound does not affect the project data. Therefore, qualification is not warranted.

VII. LABORATORY CONTROL SAMPLES (LCS)

Three LCS samples were analyzed with each batch of samples, which meets the analytical method requirement of one LCS per analytical batch. Results from the LCS sample were included in the analytical report. All LCS analyte recoveries were within the acceptance limits established by the laboratory, which demonstrates acceptable accuracy.

VIII. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

No field duplicates were submitted with this data package. A trip blank was submitted but placed on hold at the laboratory.

IX. INTERNAL STANDARDS

Internal standard (IS) area counts and retention times for samples analyzed on February 22 through 25 were within validation criteria. IS area counts for all samples analyzed were within -50 - +100 percent of the IS area count from the daily calibration standard. IS retention times were within ±30 seconds from the retention time of the associated daily standard.

X. TARGET COMPOUND IDENTIFICATION

All positive compound identifications were confirmed through the mass spectra library.

XI. COMPOUND QUANTITATION

Several positive results were recalculated to ensure that compound quantitation was accurate. No errors were encountered. Compound quantitation was based on the initial calibration average RF.

XII. SYSTEM PERFORMANCE

The system performance was acceptable.

XIII. OVERALL ASSESSMENT OF VOC DATA

All QC criteria evaluated during data validation of the VOC analyses were within acceptable limits. No QC issues were encountered that were significant enough to require qualification of the data. Therefore, all VOC data can be used as reported and meet the project objectives.

1,4-DIOXANE DATA ASSESSMENT

Because there is no analytical method promulgated by EPA for the analysis of low-level 1,4-dioxane, Weck Laboratories utilized an internally developed method. Weck analyzed 1,4-dioxane using a modified EPA Method 8270C but with isotopic dilution and GC/MS. Internal standard operating procedures (SOPs) were used to determine method compliance; Method 8270C QC criteria were used during this review to assess data for general compliance. Data reviewed for the 1,4-dioxane analyses include: holding times, blank results, LCS recoveries, and MS/MSD recoveries and precision.

I. TECHNICAL HOLDING TIMES

In accordance with Method 8000B, the holding time for 1,4-dioxane in water is 7 days from sample collection until extraction; and 40 days from extraction to analysis. The samples were collected on February 14, extracted on February 19, which is 5 days from sample collection, and analyzed on February 20, 2002. Therefore, all holding time criteria were met.

II. BLANKS

A method blank was analyzed with this batch of samples to verify that the instrument is free from contamination. 1,4-Dioxane was not detected at a concentration above the reporting limit of 0.5 ug/L in the method blank analyzed in the batch of samples. Therefore, no further action is required.

III. LABORATORY CONTROL SAMPLES (LCS)

One LCS sample was analyzed with the batch of samples, which meets Method 8270C criteria. Results from the LCS samples were included in the analytical report. The LCS recovery for 1,4-dioxane was 118 percent, which is within the acceptable range of 77 to 133 percent (established by Weck). Therefore, acceptable accuracy was demonstrated and no further action is required.

IV. MATRIX SPIKE/MATRIX SPIKE DUPLICATES

One MS and MSD sample set was analyzed with the batch of samples analyzed on February 20, 2002. Acceptance limits for MS and MSD recoveries were determined by the laboratory to be 53 to 136 percent. The percent recoveries for the MS and MSD samples were 98 and 123 percent, respectively, which is within the acceptance criteria and demonstrates that significant interferences from the sample matrix did not occur. Therefore, all criteria were met. Furthermore, the RPD between the MS and MSD recoveries was less than 10 percent, which demonstrates acceptable precision.

V. OVERALL ASSESSMENT OF 1,4-DIOXANE DATA

Although no EPA method exists for the analysis of low-level 1,4-dioxane, the project data were reviewed for general compliance with standard QC criteria requirements specified for organic analyses. Also, QC sample results were evaluated against laboratory specified acceptance criteria for method compliance. No significant QC

issues were encountered during the data review. Therefore, the 1,4-dioxane data can be used for the project purposes without qualification.

MISCELLANEOUS ORGANIC ANALYSES ASSESSMENT

In addition to VOCs and 1,4-dioxane, the two samples were analyzed for SVOCs by EPA Method 8270C and pesticides by EPA Method 8081. Because complete raw data packages were not requested for the additional analyses, only standard QC results were evaluated. Results of the data evaluation are presented in the following sections.

I. TECHNICAL HOLDING TIMES

In accordance with method guidelines, SVOCs and pesticides must be extracted within 7 days of sample collection; and analyzed within 40 days of sample extraction. Samples were collected on February 14, extracted on February 17, and analyzed for SVOCs on February 22, 2002. The sample analyzed for pesticides was extracted on February 21 and analyzed on February 22, 2002. Therefore, all holding time criteria were met.

II and III. CALIBRATION DATA

Calibration data were not provided for the SVOC and pesticide analyses. Therefore, these data were not evaluated.

IV. BLANKS

A method blank must be analyzed with each batch of samples immediately after initial calibration is verified and before sample analysis. One method blank was analyzed with each batch of samples, which meets the method criteria for frequency. No target analytes (SVOCs or pesticides) were detected at concentrations above their respective method detection limits in either of the blanks.

V. SURROGATES

Six surrogate spikes were added to each environmental sample, QC sample, and method blank analyzed for SVOCs, as required by the method. Two surrogate spikes were added to all samples analyzed for pesticides. Surrogate control limits were established by the laboratory and are shown on the following table.

Surrogate Spike	*Acceptance Limits (%)*
SVOCs – 8270C	
2-Fluorophenol	30-110
Phenol-d6	40-110
2,4,6-Tribromophenol	55-140
Nitrobenzene-d5	40-110
2-Fluorobiphenyl	40-120
Terphenyl-d14	55-160
Pesticides - 8081	
Tetrachloro-m-xylene	30-120
Decachlorobiphenyl	30-120

All surrogate recoveries were within the acceptable control limits. Therefore, all criteria were met for surrogate recoveries.

VI. MATRIX SPIKE/MATRIX SPIKE DUPLICATES

Due to limited sample volume, a laboratory control sample/laboratory control sample duplicate (LCS/LCSD) pair was analyzed in lieu of an MS/MSD sample pair to assess laboratory accuracy and precision for both the SVOC and pesticide analyses. Results are discussed in the following section.

VII. LABORATORY CONTROL SAMPLES (LCS)

One LCS and LCSD sample pair was analyzed for SVOCs and one LCS/LCSD sample pair was analyzed for pesticides analyses, which meet the analytical method requirements of one LCS sample per analytical batch. Results from the LCS samples were included in the analytical report. All LCS and LCSD analyte recoveries were within the acceptance limits established by the laboratory except for SVOCs. Fluoranthene, an SVOC, was recovered in both the LCS and LCSD samples at 68 percent, which is slightly below the lower acceptance limit of 70 percent. Because the recoveries were not significantly below the lower acceptance limit, qualification is not warranted. All LCS and LCSD recoveries for pesticides were within acceptable limits. Furthermore, the RPDs between the pesticide and SVOC LCS and LCS duplicate pairs were within acceptable limits, which demonstrates acceptable precision.

VIII. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

No field duplicates were submitted.

IX. INTERNAL STANDARDS

Because raw data were not provided for SVOC or pesticide analyses, internal standard (IS) area counts and retention times were not evaluated.

X. TARGET COMPOUND IDENTIFICATION

For SVOC analyses, all positive compound identifications were confirmed through the mass spectra library. Positive identifications are to be confirmed by a second column analysis for pesticides. No positive detections were reported for either SVOCs or pesticides.

XI. COMPOUND QUANTITATION

A confirmation of compound concentrations was not performed because no SVOCs or pesticides were detected.

XII. OVERALL ASSESSMENT OF SVOC AND PESTICIDE DATA

Based on the review of standard QC components (i.e., method blanks, surrogate recoveries, and LCS/LCSD samples), all criteria were met for the SVOC and pesticide analyses. Therefore, the data meet the project objectives and are usable without qualification.

INORGANIC ANALYSES ASSESSMENT

The two samples were analyzed for metals (EPA Method 6020 and 7470A), perchlorate (modified EPA Method 300) and cyanide (EPA Method 335.2). Standard laboratory QC elements in accordance with method requirements were evaluated to assess laboratory performance.

I. TECHNICAL HOLDING TIMES

The holding time for metals in water is 6 months for all analytes except mercury; the holding time for mercury is 28 days. The perchlorate holding time is 28 days and the holding time for cyanide is 14 days. Samples were analyzed for metals and perchlorate on February 20; mercury was analyzed on February 19; and cyanide was analyzed on February 26, 2002. Therefore, all samples were analyzed within the method-specified holding time criteria.

II. CALIBRATION

Calibration data were not provided.

III. BLANKS

For each of the inorganic methods, at least one laboratory blank must be analyzed with each batch of samples. No target analytes were detected in any of the method blanks analyzed. Therefore, all method blank criteria were met.

IV. LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. LCS recoveries were reported for the metals, perchlorate and cyanide analyses. Acceptable limits for LCS recoveries for all metals (except mercury) are 80 to 120 percent; mercury is 90 to 115 percent; perchlorate is 90 to 110 percent; and cyanide is 85 to 115 percent. If the recoveries do not fall within the acceptable limits, sample results may be qualified.

The recoveries for all LCS samples were within the acceptance criteria shown above. No further action is required.

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE ANALYSIS

Each of the methods recommends that one matrix spike be analyzed to assess analytical accuracy for the sample matrix and one matrix spike duplicate be analyzed to assess analytical precision. MS/MSD recoveries and the relative percent difference (RPD) between the two should be within acceptance limits determined by the laboratory. All MS and MSD recoveries for metals (except cobalt), perchlorate and cyanide were within acceptable limits, which demonstrates acceptable accuracy. Cobalt was recovered in the MS and MSD samples at 74 and 73 percent, respectively, which are just slightly below the lower control limit of 75 percent. Because the recoveries were not significantly below the acceptance criteria and because acceptable accuracy was demonstrated by the successful analysis of the LCS, qualification is not

warranted. The RPD between all MS and MSD samples were within the laboratory-specified criteria, which demonstrates acceptable precision.

VI. FIELD DUPLICATES

No field duplicates were submitted with this group of samples.

VII. OVERALL ASSESSMENT

The overall performance of the inorganic analyses was acceptable. No significant QC deficiencies significant enough to warrant qualification were encountered during review of the data. Therefore, the results are acceptable and can be used for the project purposes without qualification.

DATA VALIDATION REPORT
CLP-LIKE DATA PACKAGE

Project: Omega Chemical Superfund Site
Groundwater Monitoring Well Sampling - November 2001

References: USEPA CLP National Functional Guidelines for Organic Data Review October 1999 (EPA540/R-99/008)

USEPA CLP National Functional Guidelines for Inorganic Data Review February 1994 (EPA 540/R-94/013)

SW-846 Method 8000B, December 1996
SW-846 Methods 8260B, 8270C, 8081, 6020 and 7470, December 1996

EPA Method 300.0, 1993
EPA Method 300 Modified (CADHS Method), 1997

Reviewer: Barbara Wells
CDM - Carlsbad, California

Date: May 2003

Analytical Laboratory: Del Mar Analytical (Del Mar)
Irvine, California 92606

DATA REVIEW

Eight water samples (listed below) were collected on November 16, 2001, and transported to Del Mar Analytical. All samples were analyzed for the following: volatile organic compounds (VOCs) by EPA Method 8260B and 1,4-dioxane by EPA Method 1625 (modified). In addition, one of the samples (OW-1b) was also analyzed for semi-volatile organic compounds (SVOCs) by EPA Method 8270C, pesticides by EPA Method 8081, CAM 17 metals by EPA Method 6020, mercury by EPA Method 7470A, cyanide by Method 335.2 and perchlorate by EPA Method 300.0 (modified). Weck Laboratories, located in the City of Industry, California, analyzed the samples for 1,4-dioxane using a modified EPA Method 8270C. Full raw data packages were requested only for VOCs by EPA method 8260B. Although raw data packages were not provided for the other analyses, standard laboratory QC data summarized in the laboratory report were reviewed for general compliance with the analytical methods. Sample identification and collection dates are summarized in the following table.

Sample Summary Table

Sample ID	*Lab Sample ID*	*Sample Type* [1]	*Date Collected*
OC-GW-OW1b-111601	IKK0810-01	GW	11/16/02
OC-GW-OW2-111601	IKK0810-02	GW	11/16/02
OC-GW-OW6-111601	IKK0810-03	GW	11/16/02
OC-GW-OW4aN-111601	IKK0810-04	N	11/16/02
OC-GW-OW4a-111601	IKK0810-05	GW	11/16/02
OC-GW-OW5-111601	IKK0810-06	GW	11/16/02
OC-GW-OW5k-111601	IKK0810-07	K	11/16/02
OC-GW-OW4b-111601	IKK0810-08	GW	11/16/02

Notes:

[1] Sample Type GW = Groundwater sample

N = Equipment Decontamination Blank

K = Duplicate (split) sample

VOLATILE ORGANIC COMPOUNDS ASSESSMENT - METHOD 8260B

I. TECHNICAL HOLDING TIMES

Samples were collected on November 16, 2001 and analyzed between November 29 and 30, 2001, which is within the 14-day technical holding time.

II. INITIAL CALIBRATION

Initial calibration of the instrument must be performed using a minimum of five standard concentrations. For initial calibration to be accepted, five system performance check compounds (SPCCs) must meet the following minimum average response factors (RFs):

Chloromethane	0.10
1,1-Dichloroethane	0.10
Bromoform	0.10
Chlorobenzene	0.30
1,1,2,2-Tetrachloroethane	0.30

SPCCs are used to check compound instability and to check for degradation caused by contaminated lines or active sites in the system. The average RF for each of the five SPCCs met the minimum calibration criteria listed above.

Additionally, the relative standard deviation (RSD) of the response factors of the initial calibration curve should be less than or equal to 15 percent for all target analytes and less than or equal to 30 percent for six calibration check compounds (CCCs). The six CCCs are: 1,1-dichloroethene, chloroform, 1,2-dichloropropane, toluene, ethylbenzene and vinyl chloride. If the RSD of the target analytes is 15 percent or less and less than 30 percent for the six CCCs, then the RF is assumed to be constant over the calibration range and the average RF can be used for quantitation.

If the RSD of the target analytes exceeds the 15 percent criterion, other calibration options can be employed. As discussed in Section 7.0 of Method 8000, linear calibration using a least squares regression may be used with the initial calibration data to demonstrate the instrument calibration linearity. Least squares regression was used for the target analytes listed above, which did not have an average RF of 15 percent or less. For initial calibration to be accepted using a least squares model, the coefficient of determination must be greater than or equal to 0.99.

Initial calibration of GC/MS #1 was performed on November 4, 2001 using a minimum of five concentrations ranging from 0.5 to 200 µg/L, which meets the method requirement of initial calibration using five concentration levels. GC/MS #1 was used to analyze all samples on November 29 and 30, 2001. All target analytes and CCCs met the 15 percent calibration criteria for GC/MS #1 except for dichlorodifluoromethane and bromoform. The coefficient of determination exceeded 0.99 for these two compounds. Therefore, all criteria for initial calibration of GC/MS #1 were met for all compounds and no qualification is necessary.

III. CONTINUING CALIBRATION

The initial GC/MS calibration is verified once every 12 hours by analyzing a 4-bromofluorobenzene tuning standard and a calibration verification standard (a midpoint check standard) and prior to analyzing any samples. The calibration verification standard must contain each of the five SPCCs used during initial calibration. The minimum RF for each SPCC must meet the criteria specified for initial calibration (i.e., 0.10 to 0.30). In addition, initial calibration is checked using the CCCs used during initial calibration. If the percent difference (%D) of each of the CCCs is less than 20 percent, the initial calibration is assumed to be valid.

All samples were initially analyzed on November 29, 2001 (GC/MS #1). However, due to high analyte concentrations all samples except sample OC-GW-OW4a-111601 and the equipment blank were re-analyzed on November 30, 2001 (GC/MS #1). Prior to sample analysis on each day, a 50 ng BFB tuning standard was analyzed. Mass ion abundance criteria were met for the system. Each of the five SPCCs and the six CCCs were contained in a mid-point check standard at concentrations of 25 ppb. The RF for each of the SPCCs was greater than the criteria specified and the %D between the continuing calibration and the initial calibration for each of the CCCs was less than 20

percent. Therefore, the initial calibrations were validated and continuing calibration criteria were met.

IV. METHOD BLANKS

A method blank must be analyzed with each batch of samples for each matrix type immediately after initial calibration is verified and before sample analysis. A total of two method blanks were reported, which correspond to the two analysis dates. No target analytes were detected at concentrations above their respective reporting limits in the blanks analyzed on November 29 and 30, 2001. Therefore, all criteria were met and no further action is required.

V. SURROGATES

Three surrogate spikes (dibromofluoromethane, toluene-d8 and 4-bromofluorobenzene) were added to each environmental sample, QC sample, and method blank, as required by the method. Surrogate control limits were established by the laboratory and are 80 to 120 percent for all three surrogates.

All surrogate recoveries were within the acceptable control limits.

VI. MATRIX SPIKE/MATRIX SPIKE DUPLICATES

Two MS and MSD sample sets were analyzed with this group of samples. Acceptance limits for MS and MSD recoveries and the relative percent difference (RPD) between the MS and the MSD were statistically determined by the laboratory, which meets method requirements, and are listed in the following table:

MS/MSD Acceptance Limits

Spiking Analyte	*Acceptance Limits*	
	MS/MSD Recovery (%)	*RPD*
Benzene	70-140	20
Bromodichloromethane	75-145	20
Bromoform	60-150	40
Chlorobenzene	75-130	20
Chloroform	75-150	20
Dibromochloromethane	70-145	20
1,4-Dichlorobenzene	65-145	20
1,1-Dichloroethane	75-160	20
1,2-Dichloroethane	65-160	20
1,1-Dichloroethene	45-165	50
Ethylbenzene	70-135	20

Spiking Analyte	Acceptance Limits	
	MS/MSD Recovery (%)	RPD
Methyl tert-butyl ether (MTBE)	65-150	20
Naphthalene	50-155	20
Tetrachloroethene	50-155	20
Toluene	70-135	20
Trichloroethene	65-130	20
Vinyl Chloride	25-190	20
o-Xylene	70-150	25
m,p-Xylene	65-140	20

The percent recoveries for the MS and MSD samples in the two batches were within acceptable criteria for all spiked compounds, which demonstrates acceptable accuracy. The relative percent difference (RPD) between the MS and MSD samples were also within acceptable criteria for all compounds in the two analytical batches, which demonstrates acceptable precision.

VII. LABORATORY CONTROL SAMPLES (LCS)

Two LCS samples were analyzed with each batch of samples, which meets the analytical method requirement of one LCS per analytical batch. Results from the LCS sample were included in the analytical report. All LCS analyte recoveries were within the acceptance limits established by the laboratory, which demonstrates acceptable accuracy.

VIII. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

One field duplicate pair was submitted with this group of samples. Sample OC-GW-OW5k-111601 is a duplicate (split) sample of OC-GW-OW5-111601. Both samples were analyzed for VOCs. Results of the duplicate analyses are summarized in the following table:

Duplicate Sample Results

Analyte	*Sample Concentration (µg/L)*	*Duplicate Concentration (µg/L)*	*RPD (%)*
Sample ID:	*OC-GW-OW5-111601*	*OC-GW-OW5k-111601*	
Chloroform	2.6	2.3	12
1,1-Dichloroethene	24	18	29
cis-1,2-Dichloroethene	26	30	14
trans-1,2-Dichloroethene	< 1.0	1.6	n/a
Tetrachloroethene (PCE)	130	130	0
Trichlorofluoromethane	46	47	2
Trichlorotrifluoroethane (Freon 113)	180	170	6
Trichloroethene (TCE) (analyzed at a dilution factor of 10)	470	570	19

Notes: Only detected analytes are shown on the table.

In accordance with the project work plan, a relative percent difference (RPD) between duplicate water samples of 20 percent or less demonstrates acceptable precision. As shown on the table above, the RPD between detected analyte concentrations was less than 20 percent for all compounds except 1,1-dichloroethene, which was 29 percent. Because the 1,1-dichloroethene concentrations were within the same order of magnitude and because all other detected concentrations were in good agreement, the elevated RPD is not significant enough to warrant qualification. Therefore, no further action is required.

One equipment blank was also submitted and analyzed for VOCs. No detectable concentrations of VOCs were reported in the equipment blank, which demonstrates that cross-contamination from sample equipment did not occur.

IX. INTERNAL STANDARDS

Internal standard (IS) area counts and retention times for samples analyzed on November 29 and 30, 2001 were within validation criteria. IS area counts for all samples analyzed were within -50 - +100 percent of the IS area count from the daily calibration standard. IS retention times were within ±30 seconds from the retention time of the associated daily standard.

X. TARGET COMPOUND IDENTIFICATION

All positive compound identifications were confirmed through the mass spectra library.

XI. COMPOUND QUANTITATION

Several positive results were recalculated to ensure that compound quantitation was accurate. No errors were encountered. Compound quantitation was based on the initial calibration average RF.

XII. SYSTEM PERFORMANCE

The system performance was acceptable.

XIII. OVERALL ASSESSMENT OF VOC DATA

All QC criteria evaluated during data validation of the VOC analyses were within acceptable limits. No QC issues were encountered that were significant enough to require qualification of the data. Therefore, all VOC data can be used as reported and meet the project objectives.

1,4-DIOXANE DATA ASSESSMENT

Because there is no analytical method promulgated by EPA for the analysis of low-level 1,4-dioxane, Weck Laboratories utilized an internally developed method. Weck analyzed 1,4-dioxane using a modified EPA Method 8270C but with isotopic dilution and GC/MS. Internal standard operating procedures (SOPs) were used to determine method compliance; Method 8270C QC criteria were used during this review to assess data for general compliance. Data reviewed for the 1,4-dioxane analyses include: holding times, blank results, LCS recoveries, and MS/MSD recoveries and precision.

I. TECHNICAL HOLDING TIMES

In accordance with Method 8000B, the holding time for 1,4-dioxane in water is 7 days from sample collection until extraction; and 40 days from extraction to analysis. The samples were collected on November 16, extracted on November 21, which is 5 days from sample collection, and analyzed on November 27, 2001. Therefore, all holding time criteria were met.

II. BLANKS

A method blank was analyzed with this batch of samples to verify that the instrument is free from contamination. 1,4-Dioxane was not detected at a concentration above the reporting limit of 0.5 ug/L in the method blank analyzed in the batch of samples. Therefore, no further action is required.

III. LABORATORY CONTROL SAMPLES (LCS)

One LCS sample was analyzed with the batch of samples, which meets Method 8270C criteria. Results from the LCS samples were included in the analytical report. The LCS recovery for 1,4-dioxane was 105 percent, which is within the acceptable range of 77 to 133 percent (established by Weck). Therefore, acceptable accuracy was demonstrated and no further action is required.

IV. MATRIX SPIKE/MATRIX SPIKE DUPLICATES

One MS and MSD sample set was analyzed with the batch of samples analyzed on November 27, 2001. Acceptance limits for MS and MSD recoveries were determined by the laboratory to be 53 to 136 percent. The percent recoveries for the MS and MSD samples were 109 and 107 percent, respectively, which are within the acceptance criteria suggest that significant interferences from the sample matrix did not occur. Therefore, all criteria were met. Furthermore, the RPD between the MS and MSD recoveries was less than 5 percent, which demonstrates acceptable precision.

V. OVERALL ASSESSMENT OF 1,4-DIOXANE DATA

Although no EPA method exists for the analysis of low-level 1,4-dioxane, the project data were reviewed for general compliance with standard QC criteria requirements specified for organic analyses. Also, QC sample results were evaluated against laboratory specified acceptance criteria for method compliance. No significant QC

issues were encountered during the data review. Therefore, the 1,4-dioxane data can be used for the project purposes without qualification.

MISCELLANEOUS ORGANIC ANALYSES ASSESSMENT

In addition to VOCs and 1,4-dioxane, one sample (OW-1b) was also analyzed for SVOCs by EPA Method 8270C and pesticides by EPA Method 8081. Because complete raw data packages were not requested for the additional analyses, only standard QC results were evaluated. Results of the data evaluation are presented in the following sections.

I. TECHNICAL HOLDING TIMES

In accordance with method guidelines, SVOCs and pesticides must be extracted within 7 days of sample collection; and analyzed within 40 days of sample extraction. Samples were collected on November 16, extracted on November 19, and analyzed for SVOCs on November 27, 2001. Pesticides were extracted and analyzed on November 19, 2001. Therefore, all holding time criteria were met.

II and III. CALIBRATION DATA

Calibration data were not provided for the SVOC and pesticide analyses. Therefore, these data were not evaluated.

IV. BLANKS

A method blank must be analyzed with each batch of samples immediately after initial calibration is verified and before sample analysis. One method blank was analyzed with each batch of samples, which meets the method criteria for frequency. No target analytes (SVOCs or pesticides) were detected at concentrations above their respective method detection limits in either of the blanks.

V. SURROGATES

Six surrogate spikes were added to each environmental sample, QC sample, and method blank analyzed for SVOCs, as required by the method. Two surrogate spikes were added to all samples analyzed for pesticides. Surrogate control limits were established by the laboratory and are shown on the following table.

Surrogate Spike	Acceptance Limits (%)
SVOCs – 8270C	
2-Fluorophenol	30-110
Phenol-d6	40-110
2,4,6-Tribromophenol	55-140
Nitrobenzene-d5	40-110
2-Fluorobiphenyl	40-120
Terphenyl-d14	55-160
Pesticides - 8081	
Tetrachloro-m-xylene	30-120
Decachlorobiphenyl	30-120

All surrogate recoveries were within the acceptable control limits. Therefore, all criteria were met for surrogate recoveries.

VI. MATRIX SPIKE/MATRIX SPIKE DUPLICATES

Due to limited sample volume, a laboratory control sample/laboratory control sample duplicate (LCS/LCSD) pair was analyzed in lieu of an MS/MSD sample pair to assess laboratory accuracy and precision for both the SVOC and pesticide analyses. Results are discussed in the following section.

VII. LABORATORY CONTROL SAMPLES (LCS)

One LCS and LCSD sample pair was analyzed for SVOCs and one LCS/LCSD sample pair was analyzed for pesticides analyses, which meet the analytical method requirements of one LCS sample per analytical batch. Results from the LCS samples were included in the analytical report. All LCS and LCSD analyte recoveries were within the acceptance limits established by the laboratory except for two compounds. Pyrene, an SVOC, was recovered in the LCS and LCSD samples at 132 and 120 percent, respectively, which are slightly above the upper acceptance limit of 115 percent. In the LCS duplicate sample analyzed for pesticides, heptachlor was recovered at 119 percent, which exceeds the upper control limit of 115 percent. Because pyrene and heptachlor were not detected in the sample, the potentially high biases do not affect the result. Therefore, qualification is not warranted. The RPDs between the pesticide and SVOC LCS and LCS duplicate pairs were within acceptable limits, which demonstrates acceptable precision.

VIII. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

No field duplicates were submitted.

IX. INTERNAL STANDARDS

Because raw data were not provided for SVOC or pesticide analyses, internal standard (IS) area counts and retention times were not evaluated.

X. TARGET COMPOUND IDENTIFICATION

For SVOC analyses, all positive compound identifications were confirmed through the mass spectra library. Positive identifications are to be confirmed by a second column analysis for pesticides. No positive detections were reported for either SVOCs or pesticides.

XI. COMPOUND QUANTITATION

A confirmation of compound concentrations was not performed because no SVOCs or pesticides were detected.

XII. OVERALL ASSESSMENT OF SVOC AND PESTICIDE DATA

Based on the review of standard QC components (i.e., method blanks, surrogate recoveries, and LCS/LCSD samples), all criteria were met for the SVOC and pesticide analyses. Therefore, the data meet the project objectives and are usable without qualification.

INORGANIC ANALYSES ASSESSMENT

The two samples were analyzed for metals (EPA Method 6020 and 7470A), perchlorate (modified EPA Method 300) and cyanide (EPA Method 335.2). Standard laboratory QC elements in accordance with method requirements were evaluated to assess laboratory performance.

I. TECHNICAL HOLDING TIMES

The holding time for metals in water is 6 months for all analytes except mercury; the holding time for mercury is 28 days. The perchlorate holding time is 28 days and the holding time for cyanide is 14 days. Samples were analyzed for metals November 21 and 29 (dissolved and total fractions, respectively); mercury was analyzed on November 23; perchlorate was analyzed on November 20, and cyanide was analyzed on November 26, 2001. Therefore, all samples were analyzed within the method-specified holding time criteria.

II. CALIBRATION

Calibration data were not provided.

III. BLANKS

For each of the inorganic methods, at least one laboratory blank must be analyzed with each batch of samples. No target analytes were detected in any of the method blanks analyzed. Therefore, all method blank criteria were met.

IV. LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. LCS recoveries were reported for the metals, perchlorate and cyanide analyses. Acceptable limits for LCS recoveries for all metals (except mercury) are 80 to 120 percent; mercury is 90 to 115 percent; perchlorate is 90 to 110 percent; and cyanide is 85 to 115 percent. If the recoveries do not fall within the acceptable limits, sample results may be qualified.

The recoveries for all LCS samples were within the acceptance criteria shown above, except for barium in the total metals analyses. Total barium was recovered in the LCS at 123 percent, which is slightly above the acceptable limit. Because the corresponding MS and MSD recoveries were within acceptable limits, no further action is required and qualification is not warranted.

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE ANALYSIS

Each of the methods recommends that one matrix spike be analyzed to assess analytical accuracy for the sample matrix and one matrix spike duplicate be analyzed to assess analytical precision. MS/MSD recoveries and the relative percent difference (RPD) between the two should be within acceptance limits determined by the laboratory. All MS and MSD recoveries for metals (except zinc), perchlorate and cyanide were within acceptable limits, which demonstrates acceptable accuracy.

Total zinc was recovered in the MS and MSD samples at 61 percent, which are below the lower control limit of 75 percent. Because acceptable accuracy was demonstrated by the successful analysis of the LCS, qualification is not warranted. The RPD between all MS and MSD samples were within the laboratory-specified criteria, which demonstrates acceptable precision.

VI. FIELD DUPLICATES

No field duplicates were submitted with this group of samples.

VII. OVERALL ASSESSMENT

The overall performance of the inorganic analyses was acceptable. No significant QC deficiencies significant enough to warrant qualification were encountered during review of the data. Therefore, the results are acceptable and can be used for the project purposes without qualification.