SDMS Doc ID 2010287

WESTON SOLUTIONS, INC.

OMEGA CHEMICAL SUPERFUND SITE
WHITTIER, CALIFORNIA

THIRD QUARTER 2003
GROUNDWATER MONITORING REPORT

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THIRD QUARTER 2003
GROUNDWATER MONITORING REPORT

Contract No.: DACA45-98-D-0004
Task Order No.: 0009

February 2004

Prepared for:

U.S. Environmental Protection Agency
Region IX

Prepared by:
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February 9, 2004

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Region IX
75 Hawthorne Street
San Francisco, CA 94105-3901

Subject: Third Quarter 2003 Groundwater Monitoring Report
Omega Chemical Superfund Site, Whittier, California.

Dear Mr. Lichens:

Weston Solutions, Inc. (WESTON®) is pleased to submit three copies of the subject report. Additional copies will be provided at your request.

Please call me at (818) 382-1803 if you have any questions.

Sincerely,

WESTON SOLUTIONS, INC.

Carol A. Yuge
Principal Project Manager

CC: J. Hartley, USACE (1 copy)
S. Wallin, CDM (1 copy)

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Contract No.: DACA45-98-D-0004
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Approved by: Carol Yuge 2-5-04

Carol Yuge, Project Manager — Date
Weston Solutions, Inc.

Approved by:

Christopher Lichens, Remedial Project Manager — Date
U.S. Environmental Protection Agency, Region IX

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1.0 INTRODUCTION

This quarterly monitoring report summarizes the results of the quarterly groundwater sampling event performed by Weston Solutions, Inc. (WESTON®) conducted in August 2003 at the Omega Chemical Company National Priorities List (NPL) site located in Whittier, California. The groundwater investigations and monitoring were conducted in support of the remedial investigation (RI) of groundwater at Operable Unit Number 2 (OU-02) of the Omega Chemical NPL Site. The purpose of the monitoring report is to document results of the August 2003 quarterly groundwater sampling event in the OU-02 area. Monitoring wells are located in both the cities of Whittier and Santa Fe Springs.

This document is a deliverable under Work Assignment No. 009 and the U.S. Army Corps of Engineers Rapid Response Contract with WESTON, No. DACA45-98-D-0004, in support on the U.S. Environmental Protection Agency (EPA) for the OU-02 Groundwater Remedial Investigation/Feasibility Study at the Omega Chemical Superfund Site.

Camp, Dresser & McKee (CDM), the consultant for the Omega PRP Organized Group (OPOG) has reduced the sampling of the OPOG wells to a biannual event. When CDM performs sampling of the ten OPOG monitoring wells, as in the third quarter, WESTON collects split samples from the OPOG wells at the same time. WESTON independently sampled the 18 wells extending downgradient of the Omega site, which were installed by WESTON under contract with EPA. The EPA OU-02 wells are designated as "MW" (e.g. MW01A) and OPOG wells are designated as "OW" (e.g. OW-1A).

1.1 FACILITY BACKGROUND

The Omega Chemical facility is located at 12504 and 12512 East Whittier Boulevard in Whittier, Los Angeles County, California. The city of Santa Fe Springs is located as near as approximately 3,600 feet southwest of the Omega facility. The Omega Chemical Superfund site is divided into two operable units (OUs): OU-01 and OU-02. OU-01 includes the Omega Chemical facility property and extends a short distance west-southwest to Putnam Street. The OU-02 study area encompasses the area surrounding the Omega Chemical facility and extending approximately 1.75 miles to the southwest. A site location map is presented in Figure 1.

The facility operated as a RCRA-permitted solvent and refrigerant recycling and treatment facility, handling primarily chlorinated hydrocarbons and chlorofluorocarbons from approximately 1976 to 1991. Drums and bulk loads of waste solvents and chemicals from various industrial activities were processed to form commercial products. Chemical, thermal, and physical treatment processes are believed to have been used to recycle the waste materials. A summary of the site operational history is provided in the Phase 1 and 2 Groundwater Characterization Report (WESTON, 2002, 2003).

1.2 MONITORING WELL LOCATIONS

The Phase I Groundwater Characterization Report (WESTON, 2002) describes the installation parameters and locations for the 18 monitoring wells installed by WESTON under contract with EPA in December 2001. Boring logs showing screened intervals and lithology for the EPA monitoring wells are provided in the Phase 2 Groundwater Characterization Report (WESTON, 2003). Installation, lithology, and construction of the OPOG wells are presented in several documents: *Phase II Close Out Report,* (England and Hargis, 1996, including Technical Memoranda addendums); *Phase 1a Pre-Design Field Investigation Report,* (CDM, 1999); *Proposed Completion Depth of Well OW-5,* (CDM, July 13, 2001); *Sampling and Analysis Plan Addendum for Additional Data Collection in the Phase 1a Area,* (CDM, May 31, 2002). The convention used for the well identifications includes "MW" for the EPA OU-02 wells, a two-digit number, and a suffix "A" (for the shallowest wells) through "D" (for the deepest wells). OPOG wells have been named as indicated by CDM, although WESTON has assigned an "A" suffix to the shallower well OW1A of the pair of wells near the rear of the Omega facility. Well locations and construction summaries are described in Table 1. Well locations and groundwater gradients are depicted in Figure 2.

Table 1: Monitoring Well Summary

Well ID	Location	Total Depth (feet bgs)	Screen Interval (feet bgs)
EPA OU-02 Shallow Wells			
MW01A	West side of Rivera Rd., south of Washington Blvd.	60	45-60
MW02A	West side of Byron Rd., south of Rivera Rd.	60	45-60
MW03A	Southwest side of McGee St., northwest of Santa Fe Springs Rd.	48	37.7-48
MW04A	Southeast side of Chetle Ave., north of Slauson Ave.	53	42.7-53
MW05A	East side of Chetle Ave., between Slauson Ave. and Rivera Rd.	53.6	43.3-53.6
MW06A	South side of Rivera Rd., just east of Wellsford Pl.	47.5	37.1-47.5
MW07A	Off Santa Fe Springs Rd., in York Park parking lot.	46	35.7-46
MW08A	North side of Burke St., just east of Sorenson Ave.	45	30-45
MW09A	South side of Burke St., between Sorenson Ave. and Dice Rd.	35	25-35
MW10A	Southwest side of Sorenson Ave., just southeast of John St.	62	52-62
MW11A	Southwest side of Sorenson Ave., just west of Santa Fe Springs Rd.	50	40-50
EPA OU-02 Intermediate Wells			
MW01B	West side of Rivera Rd., south of Washington Blvd.	85.4	75-85.4
MW04B	Southeast side of Chetle Ave., north of Slauson Ave.	80	69.7-80
MW08B	North side of Burke St., just east of Sorenson Ave.	75	65-75
MW09B	South side of Burke St., between Sorenson Ave. and Dice Rd.	60	49.7-60
EPA OU-02 Deep Wells			
MW04C	South side of Chetle Ave., east of Slauson Ave.	99	88.7-99
MW08C	North side of Burke St., just east of Sorenson Ave.	91.7	86.7-91.7
MW08D	North side of Burke St., just east of Sorenson Ave.	120	110-120
OPOG Shallow Wells			
OW-1A	12512 E. Whittier Blvd. (Omega site)	80	62.5-77.5
OW-2	West side of Putnam St. in front of 12482 Putnam St.	85	60-80
OW-3	West side of Putnam St., in front of property address 12519 Washington Blvd.	85	63-83
OW-4A	North side of Washington Blvd., west of Adler St.	74.8	49.8-69.8
OW-5	South side of Rivera Rd., just west of Byron St.	51	30-50
OW-6	West side of Lambert St., south of Washington Blvd.	58	38-58
OW-7	On the Whittier Blvd. frontage road, just north of the Omega site.	90.9	70.9-90.9
OW-8	Between OW-2 and OW-3 on west side of Putnam St.	80	60.4-80
OPOG Intermediate/Deep Wells			
OW-1B	Southwest of OW-1A, on adjacent Terra Pave property located on Putnam St.	130	110-120
OW-4B	Immediately adjacent to the east of OW-4A	127.2	112-122.3

2.0 QUARTERLY MONITORING DATA

2.1 GENERAL

This report presents the groundwater monitoring data for the third quarter 2003 (August) groundwater sampling. Groundwater samples were analyzed for combinations of volatile organic compounds (VOCs), total target analyte list (TAL) metals, dissolved TAL metals, cyanide, and perchlorate. In addition, samples from selected OPOG and EPA wells (MW02A, MW04A, MW04B, MW05A, MW06A, MW08A, MW10A, OW1A, OW1B, OW4A, OW5, OW6, and OW8) were analyzed for 1,4-dioxane. Other water quality parameters including nitrogen (as nitrate + nitrite), total dissolved solids (TDS), total organic carbon (TOC), and anions are monitored on an annual basis only and were not analyzed for the third quarter of 2003.

Monitoring well locations, sample depths, and validated groundwater analytical data for this project have been entered into a database management system. The analytical results are presented in tabular format in Appendix A. A statistical summary of results is included in Appendix B. A well location and groundwater elevation map, and maps depicting concentrations of selected analytes have been included to graphically present the groundwater monitoring database (Figures 2 through 10).

Groundwater sampling was conducted in accordance with the Sampling and Analysis Plan (SAP), consisting of a Field Sampling Plan (FSP) and a Quality Assurance Project Plan (QAPP), and approved by the EPA Quality Assurance Management Section (QAMS) (WESTON, 2001). Sampling and analytical methodologies are described in the SAP. VOCs, total and dissolved TAL metals, and cyanide were analyzed via the EPA Contract Laboratory Program (CLP). Perchlorate and 1,4-dioxane were analyzed by the EPA Region IX Laboratory in Richmond, California. Data validation was conducted by QAMS. Data validation reports are presented with hard copy data for the VOC and Region 9 Laboratory analyses in Appendix C. With the exception of VOCs, the analytes received Tier 1A validation. For CLP data, automated Tier 1A validation was completed using CADRE software. VOC data received Tier 2 validation. Chain-of-custody documentation is contained in Appendix D.

The EPA OU-02 monitoring wells are equipped with dedicated bladder pumps and tubing that connect to a compressor at ground surface. Purging was accomplished using low flow methods. The flow rate was adjusted to approximately 0.1 gallons per minute (gpm). The depth to water was constantly monitored to ensure that the water level did not decline more than 0.3 feet during the low flow purge. Water quality parameters, including temperature, pH, specific conductance, dissolved oxygen (DO), and oxidation/reduction potential (ORP), were monitored at approximate three-minute intervals for stability. Purging continued for at least 30 minutes and until the water quality parameters stabilized within the ranges specified in the FSP. Samples were collected through the dedicated tubing.

CDM subcontracted Blaine Tech Services, Inc. to purge and monitor parameters at the OPOG wells and assist in sample collection. Water quality parameters monitored for the OPOG wells included temperature, pH, specific conductance, DO, ORP, and turbidity. The wells were purged at rates of approximately0.4 to 5 gallons per minute (gpm). Wells were purged of at least three well casing and saturated gravel pack volumes, and until water quality parameters stabilized within specified limits. For wells that pumped dry prior to achieving three volumes, purging was ceased and sampling proceeded after the water level recovered to at least 80 percent of the original level. Sampling of the OPOG wells was accomplished using disposable bailers for VOCs and through the dedicated tubing for all other analytes.

Field sampling forms documenting the purge records for both the EPA OU-02 and OPOG wells are included in Appendix E. The ranges of values for the water quality parameters monitored during purging are discussed below in Section 2.3.

2.2 GROUNDWATER ELEVATION AND FLOW

Depth to groundwater in 17 of the 18 EPA OU-02 wells and 9 of the 10 OPOG wells was measured on 18 August May 2003. Due to the inaccessibility of the other two remaining wells on that date, water levels were measured at those locations subsequently. Measured depths to groundwater and calculated groundwater elevations are presented in Table 2. Due to the two groups of monitoring wells having been surveyed for elevation based on different benchmarks and each using a different datum, an assumed correction of +2.2 feet has been applied to the top of casing (toc) elevation for the OPOG wells. This correction also provides close agreement in water level between wells MW01A, MW02A, and OW-5, which are located in the same area.

Depth to water in the wells near the Omega site ranges from approximately 47 feet (well OW6) to 77 feet (well OW7) below ground surface (bgs), whereas farther downgradient toward Santa Fe Springs, water occurs as shallow as approximately 23 feet bgs (well MW07A).

Groundwater gradient and flow direction varies with location. In the vicinity of the Omega site, the gradient is generally toward the west-southwest, at a relatively steep 0.007 to 0.01 ft./ft. In the vicinity of Rivera Road and Washington Blvd., the gradient flattens considerably, to 0.0011 to 0.0018 ft./ft. toward the southwest to west-southwest. Farther southwest, the gradient is approximately 0.003 ft./ft. toward the southwest (along the southeastern part of the well network area) or toward the south (in the western portion of the well network area). Groundwater observed at MW09A may be perched or not directly connected with first groundwater farther east, suggesting that the gradient in that area is not as southerly as has been interpreted. Well locations and groundwater elevation contours for the shallow wells in the monitoring network are presented in Figure 2. The gradients described were measured using the contours on the scaled map.

Comparison of groundwater elevations between clustered wells with different screened intervals can indicate net downward or upward vertical hydraulic gradients, depending

Table 2: Third Quarter 2003 Water Levels

Well ID	Elevation at Top of Casing (feet MSL)	Depth to Water (feet btoc)	Depth to Top of Screen Interval (feet btoc)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation from Previous Quarter (feet)
MW01A	158.21	34.75	45	123.46	-2.42
MW01B	158.09	34.62	75	123.47	-2.30
MW02A	154.74	31.40	45	123.34	-2.35
MW03A	151.99	28.84	37.7	123.15	-0.99
MW04A	147.20	26.50	42.7	120.70	-2.00
MW04B	147.23	26.47	69.7	120.76	-2.07
MW04C	147.10	28.55	88.7	118.55	-2.66
MW05A	151.57	29.02	43.3	122.55	-2.72
MW06A	150.63	29.40	37.1	121.23	-3.56
MW07A	143.65	23.18	35.7	120.47	-1.28
MW08A	150.25	30.45	30	119.80	-2.75
MW08B	150.11	30.30	65	119.81	-2.60
MW08C	150.14	31.45	86.7	118.69	-3.08
MW08D	150.02	37.27	110	112.75	-5.43
MW09A	149.37	29.01	25	120.36	-2.66
MW09B	149.34	34.54	49.7	114.80	-5.13
MW10A	147.71	34.43	52	113.28	-0.98
MW11A	151.20	36.85	40	114.35	-0.65
OW-1A	212.50*	76.95	62.5	135.55	-0.44
OW-1B	207.18*	78.56	110	128.62	-2.84
OW-2	202.30*	69.10	60	133.20	-0.15
OW-3	198.53*	65.39	63	133.14	-0.14
OW-4A	184.67*	58.00	49.8	126.67	-0.51
OW-4B	184.42*	65.15	112	119.27	-4.73
OW-5	154.16*	30.90	30	123.26	-2.25
OW-6	172.74*	47.05	38	125.69	-0.75
OW-7	214.21*	76.94	70.9	137.27	-0.24
OW-8	200.62*	67.27	60.4	133.35	-0.13

*— Adjustment of 2.2 feet added to top of casing elevation to equalize survey datums.

which wells are compared. At MW01A and MW01B, the wells are screened at different depths within essentially the same lithologic unit. The similar water elevation in these two wells (difference of 0.01 feet) suggests a relatively static condition vertically at this location.

A very slight net upward gradient during the third quarter 2003 may be indicated between the intervals screened in MW04A and MW04B, where two sands are separated by a silt interval at least five feet in thickness. Groundwater elevation in MW04B was 0.06 feet higher than in MW04A. Higher contaminant concentrations are typically reported from MW04B. A downward vertical gradient is suggested between MW04B and MW04C, based on a 2.21-foot difference in groundwater elevations. An approximately 8-foot

thickness of clay to sandy silt separates the screened intervals between MW04B and MW04C. Contaminant concentrations are much lower in MW04C.

At the MW08 cluster of wells, generally lower groundwater elevations in progressively deeper-screened wells indicate a consistently downward vertical gradient. Differences between MW08A, MW08B, and MW08C were relatively small (1.11 feet between MW08A and MW08C), but groundwater elevation in MW08D during the third quarter 2003 was 7.06 feet lower than in MW08A. Most contaminant concentrations decrease sharply with screen depth at this location, but reported trichloroethene (TCE) concentrations are elevated in MW08D relative to MW08B or MW08C.

Significantly lower groundwater elevations were also measured for the deeper wells of the pairs at MW09A and MW09B, OW1A and OW1B, and OW4A and OW4B, which indicate a vertical gradient that is typically downward. Concentrations of most analytes are lower in deeper wells.

Groundwater elevations decreased in all of the monitoring wells between the second and third quarter of 2003. The differences typically ranged from less than one foot to 2.5 feet between quarters, but a decrease of more than five feet was observed at MW08D and MW09B. Graphical depictions of groundwater elevation trends in groups of wells are shown on the charts in Appendix F.

2.3 WATER QUALITY PURGE PARAMETERS

The stabilized ranges in water quality parameters observed between wells during purging are discussed below. The parameters include temperature, pH, specific conductance (conductivity), turbidity, dissolved oxygen (DO), and oxidation/reduction potential (ORP). Copies of field purge records are included in Appendix D.

Temperatures ranged from 22.1 to 25.8 degrees Celsius. Values for pH ranged from approximately 6.8 to 7.7. Conductivity values in most wells ranged from about 1,023 to 1,997 umohs/cm, although 2,140 umohs/cm was measured at MW11A and 2,570 umohs/cm was observed at MW07A. Turbidity was not monitored quantitatively for the MW wells, but ranged from 1 NTU to 6 NTUs for most of the OPOG wells. Turbidities of 38 NTUs and 308 NTUs, respectively, were observed at OW1A and OW1B. DO was measured for the OPOG wells and some of the EPA wells and ranged from approximately 0.36 mg/L at OW1B to 5.9 mg/L at MW1A. ORP ranged from approximately 0.15 to 304 millivolts (mV) at most locations. However, negative ORP values were observed during purging of wells OW1A and OW8, suggesting that relatively anoxic or reducing conditions may occur at these locations.

Wells OW1A and OW1B, located near the southwest side of the Omega site, pumped dry after about 6 and 25 gallons, respectively. OW1A was purged at a rate of approximately 0.5 gpm and OW1B was purged at approximately 0.4 gpm. The water level was allowed to recover in these wells before sample collection. Upgradient well OW7 was able to sustain an approximate 1 gpm rate through a 100-gallon purge. Wells OW2 and OW3

were purged at 2 gpm and OW8 was purged at approximately 3 gpm, and did not dewater. The remaining OW wells farther downgradient were purged at a rate of approximately 5 to 5.7 gpm with either little or sustainable drawdown.

2.4 QUARTERLY MONITORING PARAMETERS

A list of samples and analyses performed, including field quality control (QC) samples, is presented in Table 3. Tabulated analytical results and validated data reports are presented in Appendices A and C, with a statistical summary in Appendix B.

2.4.1 Volatile Organic Compounds (VOCs)

Groundwater samples collected during the August 2003 quarterly sampling event were analyzed for VOCs using EPA CLP Analytical Services (CLPAS) Method OLC03.2 for low-level volatiles. Dilution was necessary prior to analysis in several samples due to elevated contaminant concentrations. The dilution raised the reporting limits for other analytes, resulting in estimated or non-detect results for lower concentration analytes that might be present in some samples.

VOCs with concentrations (including estimated, J-flagged values) equaling or exceeding California Maximum Contaminant Levels (MCLs) in at least one well were benzene; 1,2-dichloroethane (1,2-DCA); 1,1-dichloroethene (1,1-DCE); cis-1,2-dichloroethene (cis-1,2-DCE); methyl-tertiary-butyl ether (MTBE); tetrachloroethene (PCE); 1,1,1-trichloroethane (1,1,1-TCA); trichloroethene (TCE); trichlorofluoromethane (Freon 11); 1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113); and chloroform.

The highest concentrations of PCE, TCE, Freon 113, 1,1-DCE, 1,1,1-TCA, and 1,2-DCA were detected primarily beneath or immediately downgradient of the Omega site. Elevated concentrations of PCE, TCE, Freon 11, Freon 113, and 1,1-DCE were also detected in wells as far as approximately 3,600 feet downgradient of Omega.

The highest concentrations of cis-1,2-DCE were detected upwards of 3,600 feet downgradient of the Omega site in well MW05A (40^J ug/L). The highest concentration of MTBE was detected in well OW6 (61^J ug/L) located approximately 1,650 feet downgradient.

Concentrations of PCE, TCE, Freon 113, Freon 11, cis-1,2-DCE, chloroform, acetone, and 1,1-DCE are presented in Figures 3 through 10. Representative isoconcentration contours are included on Figures 3 through 6. These contours are adapted from two phases of an exploratory investigation by WESTON (2002, 2003), adjusted to reflect the quarterly monitoring data. The historical contours from the explorations are shown as dotted lines, while the portions reflecting the monitoring data are shown as dashed lines.

PCE was detected in 10 of the 11 shallow EPA wells (MW01A through MW11A, but not MW03A), at concentrations ranging from 3^J ug/L in MW1A to 2,200 ug/L in MW02A.

Table 3: Third Quarter 2003 Sample Analysis Matrix

Sample ID	VOCs	Total Metals + CN	Dissolved Metals	1,4-Dioxane	Perchlorate	Comments
GW303-MW01A-0055	X	X	X		X	
GW303-MW01A-2003	X					Trip Blank
GW303-MW01B-0080	X	X	X		X	
GW303-MW01B-1080	X	X	X		X	Sequential Duplicate
GW303-MW02A-0055	X	X	X	X	X	
GW303-MW02A-2005	X					Trip Blank
GW303-MW03A-0042	X	X	X		X	
GW303-MW03A-2004	X					Trip Blank
GW303-MW04A-0047	X	X	X	X	X	
GW303-MW04A-1047	X	X	X	X	X	Sequential Duplicate
GW303-MW04B-0075	X	X	X	X	X	
GW303-MW04B-2001	X					Trip Blank
GW303-MW04C-0094	X	X	X		X	
GW303-MW05A-0049	X	X	X	X	X	
GW303-MW06A-0042	X	X	X	X	X	
GW303-MW07A-0041	X	X	X		X	
GW303-MW08A-0040	X	X	X	X	X	
GW303-MW08A-2002	X					Trip Blank
GW303-MW08B-0070	X	X	X		X	
GW303-MW08C-0087	X	X	X		X	
GW303-MW08D-0116	X	X	X		X	
GW303-MW09A-0032	X	X	X		X	
GW303-MW09A-2009	X					Trip Blank
GW303-MW09B-0054	X	X	X		X	
GW303-MW10A-0057	X	X	X	X	X	Incl. Lab QC Volumes
GW303-MW11A-0045	X	X	X		X	
GW303-OW1A-0080	X	X		X	X	
GW303-OW1A-2006	X					Trip Blank
GW303-OW1B-0116	X	X		X	X	
GW303-OW2-0078	X	X	X		X	Incl. Lab QC Volumes for VOCs only
GW303-OW3-0080	X	X	X		X	
GW303-OW4A-0073	X	X	X	X	X	
GW303-OW4A-2007	X					Trip Blank
GW303-OW4B-0125	X	X	X		X	Incl. Lab QC Volumes
GW303-OW5-0048	X	X	X	X	X	
GW303-OW5-1048	X	X	X	X	X	Sequential Duplicate
GW303-OW6-0055	X	X	X	X	X	
GW303-OW6-2008	X					Trip Blank
GW303-OW7-0081	X	X	X		X	
GW303-OW7-4001	X					Equipment Blank
GW303-OW8-0075	X	X	X	X	X	

PCE was detected in all four of the intermediate-depth EPA wells (MW01B, MW04B, MW08B, and MW09B) at concentrations ranging from3^J ug/L in MW01B to 1,200 ug/L in MW04B.

PCE was detected at a concentration of 8.3 ug/L in MW08C and 16 ug/L in MW04C. PCE was detected in the deepest well (MW08D) at a concentration of 1.5^J ug/L. The "J" superscript is a data validation flag indicating an estimated value. PCE exceeded the MCL of 5 ug/L in all but four of the EPA OU-02 wells (i.e., except MW01A, MW01B, MW03A, and MW08D).

PCE was reported in all eight of the shallow OPOG wells (OW1A through OW8), ranging from 12^J ug/L in OW7 to 110,000 ug/L in OW1A. PCE was detected at a concentration of 36 ug/L in well OW4B and 130 ug/L in OW1B. PCE exceeded the MCL in all OPOG wells.

TCE was detected in 10 of the 11 shallow EPA wells at concentrations ranging from 2.1 ug/L in MW11A to 1,500 ug/L in well MW05A. TCE was detected in all four of the intermediate EPA wells at concentrations ranging from 1.6 ug/L in MW08B to 320 ug/L in MW04B. TCE was detected in both of the deeper EPA wells at concentrations of 68 ug/L in MW04C and 1.7 ug/L in MW08C. TCE was detected at a concentration of 24 ug/L in MW08D. TCE exceeded the MCL of 5 ug/L in all EPA wells except MW03A, MW07A, MW08B, MW08C, MW09B, and MW11A.

TCE was detected in all of the shallow OPOG wells, ranging from 0.53^J ug/L in OW7 to $2{,}000^J$ ug/L in OW1A. TCE was detected in both the intermediate OPOG wells at concentrations of 3.9 ug/L in OW1B and 3^J in OW4B. TCE exceeded the MCL of 5 ug/L in six of the eight shallow OPOG wells (not OW6 or OW7).

Freon 113 results equaled the MCL of 1,200 ug/L in one EPA intermediate well (MW04B) and one EPA shallow well (MW05A). Freon 113 exceeded the MCL in one shallow OPOG well, OW8, at a concentration of 1,500 ug/L. The maximum Freon 11 concentration reported was 470^J ug/L in OW8, and the MCL of 150 ug/L was exceeded in seven wells including MW02A, MW04A, MW04B, MW05A, OW2, OW3, and OW8.

1,1-DCE was detected in ten of the 11 shallow EPA OU-02 wells at concentrations ranging from 0.54^J ug/L in MW11A to 1,800 ug/L in MW02A and MW05A. 1,1-DCE was detected in three of the four intermediate EPA wells at concentrations ranging from 0.5 ug/L in MW09B to 1,400 ug/L in MW04B (not detected in MW08B). 1,1-DCE was detected in MW04C at 3.6 ug/L and in MW08C at 1.5 ug/L. 1,1-DCE exceeded the MCL of 6 ug/L in wells MW02A, MW04A, MW04B, MW05A, MW06A, and MW10A.

1,1-DCE was detected in six of the eight shallow OPOG wells, ranging from 0.65 ug/L in OW7 to $2{,}000^J$ ug/L in OW1A. 1,1-DCE was detected in the intermediate OPOG wells at concentrations of 3.2 ug/L in OW1B and 20 ug/L in OW4B. Concentrations of 1,1-DCE exceeded the MCL of 6 ug/L in six of the OPOG wells.

Cis-1,2-DCE exceeded the MCL of 6 ug/L in well MW05A, with a concentration of 40^J ug/L. 1,1,1-TCA exceeded the MCL of 200 ug/L in well OW1A, with a concentration of $4,700^J$ ug/L. 1,2-DCA exceeded the MCL of 0.5 ug/L where it was detected in wells MW02A, MW05A, and OW8 with a maximum concentration of 120^J ug/L at OW8.

1,1-DCA was detected only in one EPA OU-02 well and one OPOG well. Reported 1,1-DCA concentrations were0.39^J ug/L in MW11A and 0.66 ug/L in well OW1B. Both of the detected concentrations of 1,1-DCA are below the MCL of 5 ug/L.

Benzene was detected only in one well, OW1B, where the reported concentration of 1.1 ug/L exceeds the MCL of 1 ug/L. MTBE exceeded the MCL of 13 ug/L only in well OW6 (61^J ug/L).

Although acetone currently has no MCL established, it was detected in one EPA OU-02 well (MW04B, at 120^J ug/L) and four OPOG wells. Acetone concentrations detected in the four OPOG wells ranged from 15 ug/L in OW4A to $6,100^J$ ug/L in OW1A. Most of the acetone results were flagged as estimated "J" values, primarily because of detections in blanks and detections below adjusted reporting limits in diluted samples.

Chloroform exceeded the MCL of 100 ug/L for total trihalomethanes in four wells: MW02A, MW04B, MW05A, and OW8. Detected concentrations ranged from 0.46^J ug/L in MW07A to 380 ug/L in MW02A.

Well locations with completions at multiple depths typically exhibited lower concentrations of VOCs at greater screen depth intervals. For example, PCE was reported in the shallow well OW1A at a concentration of 110,000 ug/L, whereas the concentration in the deeper well OW1B was reported at 130 ug/L. Another example is the MW08 cluster, where PCE was detected at 170 ug/L in MW08A while 7.4 ug/L of PCE was reported for well MW08B.

However, at the MW04 location, higher concentrations of analytes were detected in the second interval (MW04B) as opposed to the shallow interval (MW04A). PCE was detected in MW04B at a concentration of 1,200 ug/L, while the shallower well, MW04A, had a reported concentration of 580 ug/L. Another location where higher concentrations of certain contaminants were reported from deeper intervals is at the MW08 cluster. The TCE concentration is higher in MW08D (24 ug/L) than in MW08B (1.6 ug/L) or MW08C (1.7 ug/L).

PCE concentrations in most wells have been relatively consistent through monitoring to date. Concentrations show some variability between quarters at some of these wells. Wells with relatively consistent concentrations include MW01A, MW01B, MW03A, MW04B, MW04C, MW05A, MW06A, MW07A, MW08A, MW08B, MW08C, MW08D, MW09B, MW11A, OW1B, OW3, OW5, OW6, and OW7. Possible trends of increasing PCE concentrations are suggested at wells MW04A, MW09A, MW10A, OW1A, OW2, OW4B, and OW8. A possible trend of decreasing PCE concentration is suggested at well MW02A. PCE concentrations at OW4A are lower than when it was

first sampled, and have varied between 15 and 100 ug/L between February 2002 and August 2003.

TCE concentrations in most wells have been relatively consistent through monitoring to date. Concentrations show some variability between quarters at some of these wells. Wells with relatively consistent concentrations include MW01A, MW01B, MW03A, MW04A, MW04B, MW04C, MW05A, MW06A, MW07A, MW08A, MW08B, MW08C, MW08D, MW09A, MW09B, MW11A, OW1A, OW1B, OW2, OW3, OW4B, OW5, OW6, OW7, and OW8. A decrease in TCE concentrations was observed for some wells in August 2003. A slight trend toward increasing TCE concentration is suggested at well MW10A. Possible trends of decreasing TCE concentrations were observed at wells MW02A and MW07A between February 2002 and August 2003.

Concentration trends for PCE and TCE at each well are shown on the charts in Appendix G. Non-detect results are not plotted.

2.4.2 Total TAL Metals

Groundwater samples were analyzed for total (unfiltered samples) target analyte list (TAL) metals using CLPAS Method ILM04.1. Chromium and/or selenium were detected at concentrations exceeding primary MCLs at one or more locations.

Total chromium concentrations exceeded the MCL of 50 ug/L in wells MW01A, MW06A, and MW08A with a maximum concentration of 124 ug/L detected in MW06A. Total selenium concentrations exceeded the MCL of 50 ug/L at MW08A (51.2 ug/L).

Total manganese was detected without qualification in 10 of the 28 monitoring wells, while detectable concentrations accompanied by detections in the laboratory blanks were reported for nine other samples. Reported concentrations of manganese ranged from 1.7^{J} ug/L at OW4A to 871 ug/L at OW8. Total iron was detected in six of the 28 monitoring wells with detected concentrations ranging from 198 ug/L at MW04C to 4,690 ug/L at OW1B.

2.4.3 Dissolved TAL Metals

Groundwater samples were analyzed for dissolved (filtered samples) TAL metals using Method CLPAS ILM04.1. Dissolved metals were not sampled at OW1A and OW1B. Dissolved total chromium exceeded the MCL of 50 ug/L in wells MW01A, MW06A, and MW08A, with a maximum concentration of 125 ug/L in MW06A. Dissolved selenium exceeded the MCL of 50 ug/L in MW08A (60.2 ug/L).

Dissolved manganese was reported without qualification in six of the 28 monitoring wells, while detections were reported accompanied by detections in the laboratory blanks in 13 other samples. Reported concentrations of manganese ranged from 0.38^{J} ug/L at MW07A to 1,040 ug/L at OW8. Dissolved iron was detected only in well OW8, at a concentration of 507 ug/L.

2.4.4 Perchlorate

Groundwater samples were analyzed for perchlorate using EPA Method 314.1. Perchlorate was detected in all the 11 shallow EPA OU-02 wells at concentrations ranging from 1.2 ug/L in MW03A to 6.2 ug/L in well MW07A. Perchlorate was detected in all four intermediate EPA wells at concentrations ranging from 1.9 ug/L in MW01B to 4.4 ug/L in MW04B. Perchlorate was detected in both of the deeper EPA wells at 3.2 ug/L in MW04C and 3.4 ug/L in MW08C. Perchlorate was detected in the deepest EPA well MW08D at a concentration of 1.8 ug/L. Perchlorate exceeded the California Department of Health Services Drinking Water Action Level for Contaminants of Current Interest of 4 ug/L in EPA wells MW02A, MW04B, MW05A, MW07A, MW08A, and MW11A.

Perchlorate was detected in seven of the eight shallow OPOG wells (not OW6) at concentrations ranging from 2.0 ug/L in OW5 to 3.1 ug/L in OW2. Perchlorate was detected in deeper well OW4B at a concentration of 2.4 ug/L. Perchlorate concentrations did not exceed the California Action Level in any of the OPOG wells in the third quarter 2003.

2.4.5 Total Cyanide

Groundwater samples were analyzed for total cyanide using EPA CLPAS Method ILM04.1. Cyanide was not detected in any of the 18 EPA wells or any of the ten OPOG wells. Therefore, cyanide did not exceed the primary MCL of 200 ug/L at any sampling location.

2.4.6 1, 4-Dioxane

Groundwater samples from seven of the EPA wells and six of the OPOG wells were analyzed for 1,4-dioxane using EPA Method 8270. 1,4-dioxane was detected in all of the wells sampled for it, and, except for two wells (MW08A and OW6), concentrations exceeded the State of California Department of Health Services (Cal-DHS) Action Level of 3 ug/L. 1,4-dioxane was detected at concentrations ranging from 0.5^J ug/L in OW6 to $8{,}300^J$ ug/L in OW1A.

3.0 SUMMARY AND CONCLUSIONS

Groundwater sampling was completed from the 18 EPA OU-02 monitoring wells and the ten OPOG wells during the third quarter of 2003. OPOG's consultant, CDM, conducted sampling of the OPOG wells this quarter, and WESTON collected split samples of the OPOG wells in coordination with CDM.

The 18 OU-02 wells were purged and sampled using low flow sampling methods, collecting samples directly from the discharge. The ten OPOG wells were purged using submersible pumps. Samples for VOCs were collected using disposable bailers, while samples for other analyses were obtained from the pump discharge.

The primary contaminants of concern detected in the groundwater samples are halogenated VOCs and Freon compounds. Samples were also analyzed for total and dissolved metals, cyanide, and perchlorate. In addition, samples from selected OPOG and EPA wells were also sampled for 1,4-dioxane. Other water quality parameters including nitrogen, TDS, TOC, and anions are monitored on an annual basis only and were not analyzed this quarter.

Depth to water near the Omega site ranges from approximately 47 feet (well OW6) to 77 feet (well OW7) bgs, whereas farther downgradient toward Santa Fe Springs, water occurs as shallow as approximately 23 feet bgs (MW07A). The groundwater gradient near the Omega site is generally toward the west-southwest, at a relatively steep 0.007 to 0.01 ft./ft. In the vicinity of Rivera Road and Washington Blvd., the gradient flattens considerably, to 0.0011 to 0.0018 ft./ft. toward the southwest to west-southwest. Farther southwest, the gradient is approximately 0.003 ft./ft. toward the southwest (along the southeastern part of the well network area) or toward the south (in the western portion of the well network area). Groundwater observed at MW09A may be perched or not directly connected with first groundwater farther east, suggesting that the gradient in that area may not be as southerly as has been interpreted.

Analytical results confirm the occurrence of elevated concentrations of PCE, TCE, Freon 113, and Freon 11 in the groundwater, particularly in the vicinity of the Omega site. The concentrations of these compounds exceed their respective MCLs at most well locations near Omega, in some cases by orders of magnitude. Other VOCs were detected in at least one well with concentrations equaling or exceeding their respectively MCLs including 1,2-DCA, 1,1-DCE; cis-1,2-DCE, MTBE, and 1,1,1-TCA, chloroform, benzene, and MTBE.

1,4-dioxane was analyzed only for seven of the EPA wells and six of the OPOG wells, and was detected in all wells at concentrations ranging from 0.5^{J} ug/L in OW6 to $8{,}300^{J}$ ug/L at OW1A.

Total metals including chromium and selenium, and dissolved metals including chromium were reported in concentrations exceeding their respective primary MCLs in one to three well locations each. Total chromium concentrations exceeded the MCL of

50 ug/L in wells MW01A, MW06A, and MW08A with a maximum concentration of 124 ug/L detected in MW06A. Total selenium concentrations exceeded the MCL of 50 ug/L at MW08A (51.2 ug/L). Dissolved total chromium exceeded the MCL of 50 ug/L in wells MW01A, MW06A, and MW08A, with a maximum concentration of 125 ug/L in MW06A. Dissolved selenium exceeded the MCL of 50 ug/L in MW08A (60.2 ug/L).

Cyanide was not detected and therefore did not exceed the primary MCL of 200 ug/L at any sampling location. Perchlorate was reported in concentrations exceeding the California DHS Drinking Water Action Level of 4 ug/L in five EPA monitoring wells, with a maximum concentration of 6.2 ug/L.

It is presumed that the network of OPOG and OU-02 wells will continue to be sampled on a periodic basis in order to monitor concentration trends, detect hotspot migration, and evaluate different portions of the contamination plume.

4.0 REFERENCES CITED

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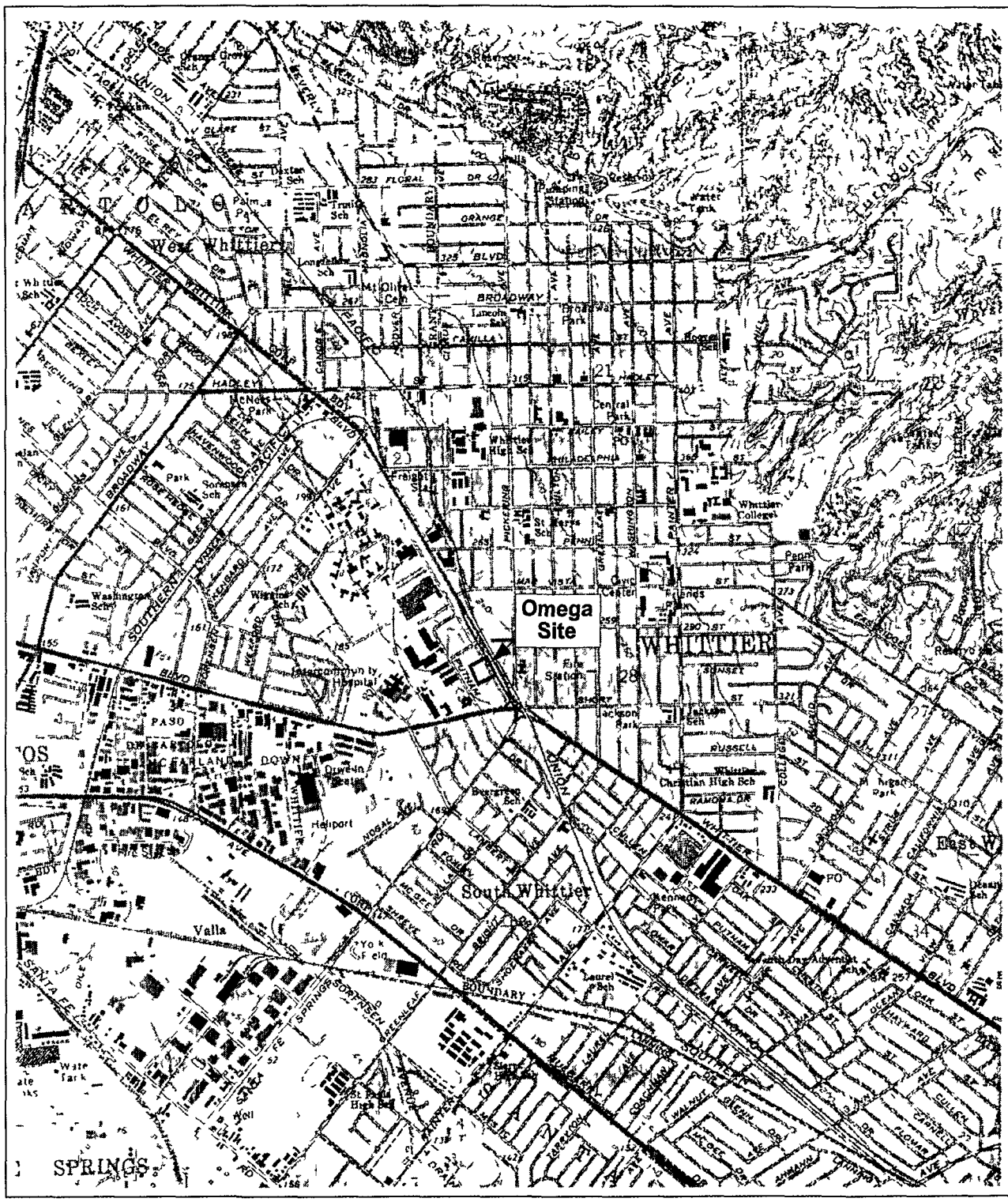
Figures



0 1200 2400

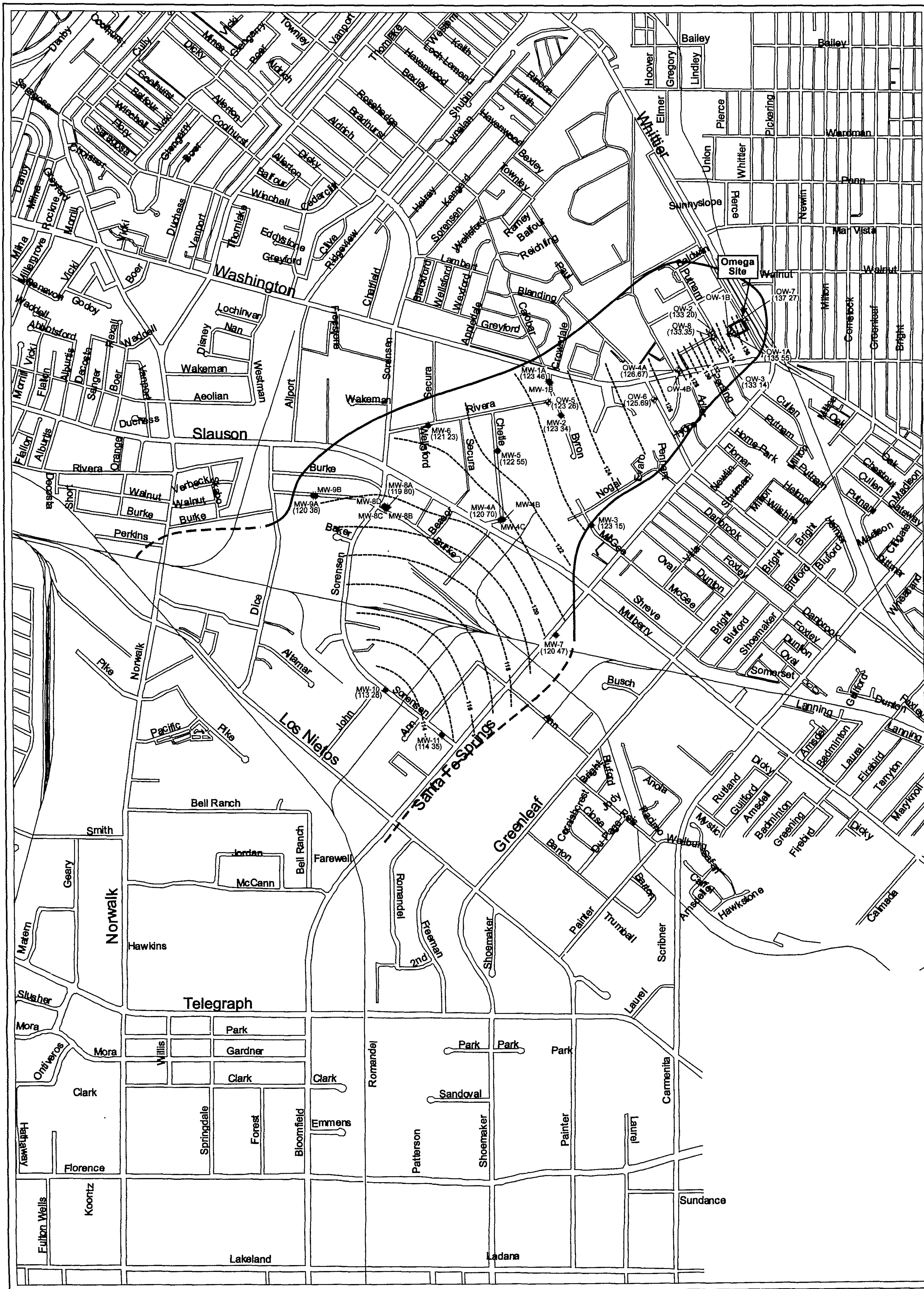
Scale in Feet

Site Location Map
Omega Superfund Site

Figure

1

03-0029 Fig1 al



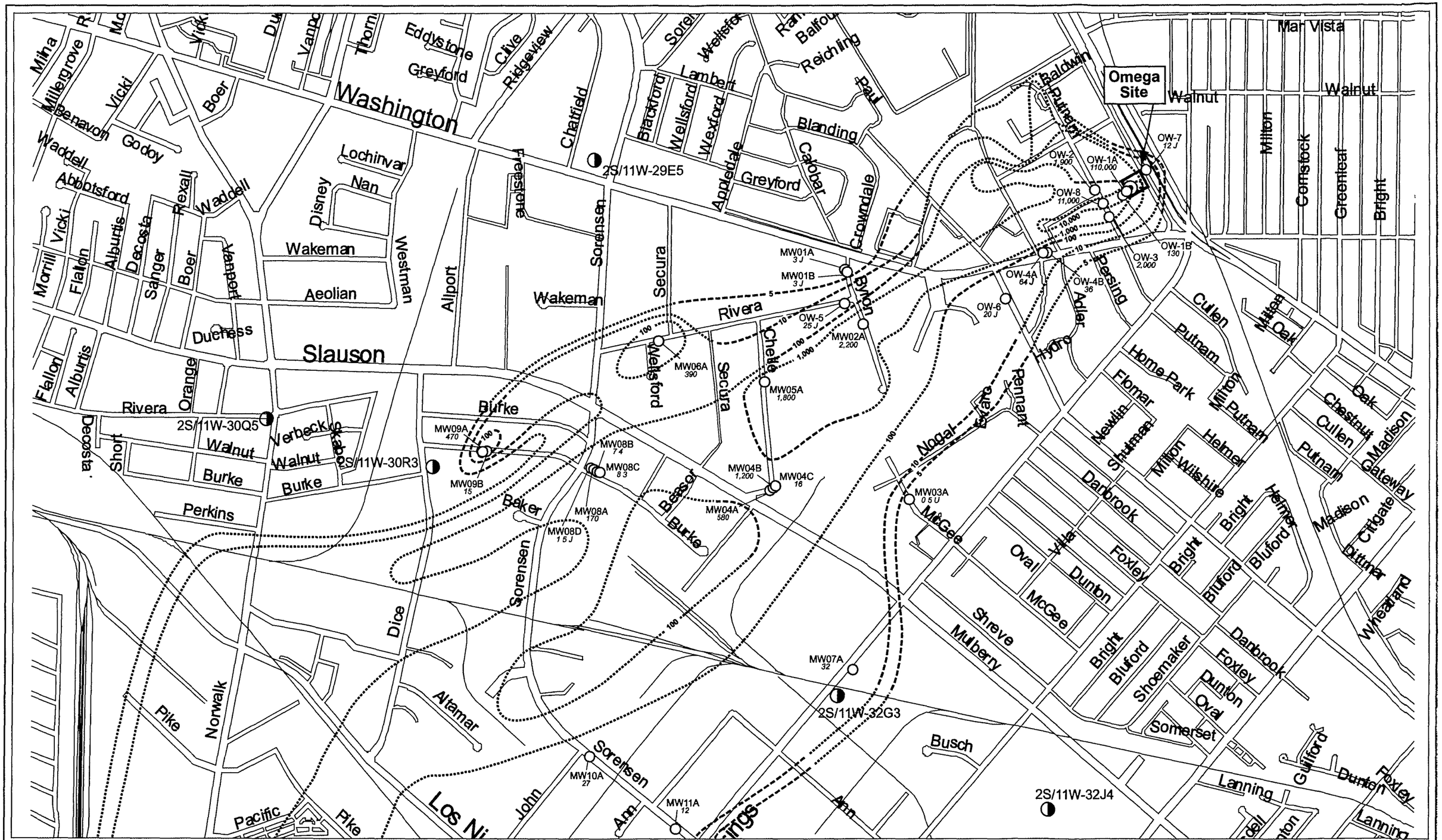
0 600 1200
Scale in Feet

- PRP Monitoring Wells
- Phase 1 Monitoring Wells
- Approximate Location of Plume
- (114.35) Groundwater Elevation (August 2003)
- Groundwater Elevation Contour (every foot)

WESTON SOLUTIONS

Omega Superfund Site
Groundwater Elevations—3rd Quarter 2003

Figure
2



Existing Monitoring Well and Number

Production Well and Number

PCE Isoconcentration Line Based Upon Quarterly Groundwater Sampling Data

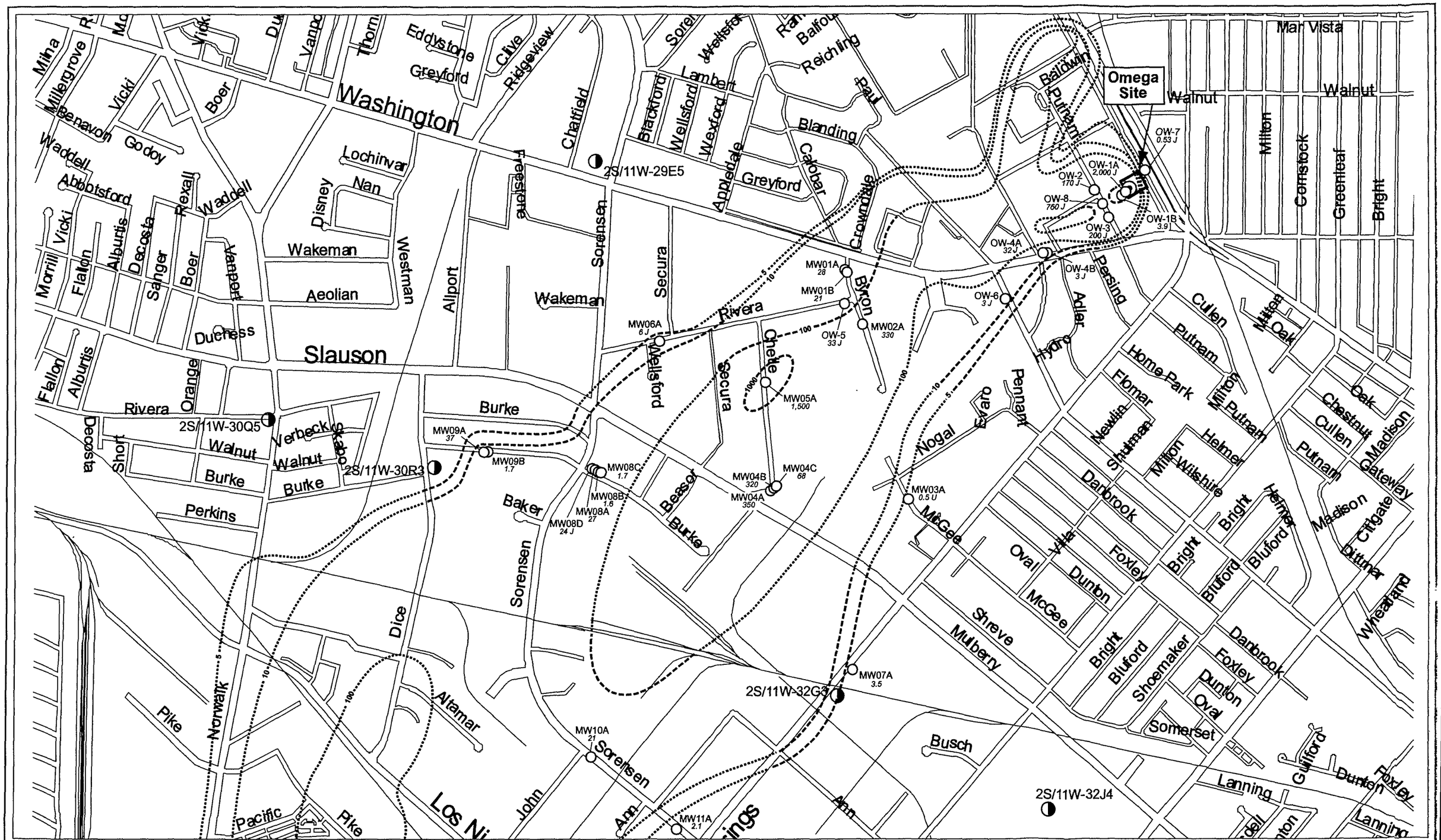
Isoconcentration Line Based Upon Phase 1 (Aug. 2001) and Phase 2 (Aug. 2002) Hydrogeology Investigation Data

Notes:
1) Concentrations in µg/L.
2) Samples collected August 2003.
3) The isoconcentration lines are based on Phase 1 and Phase 2 Hydrogeology Investigation data, but have been updated with the most recent quarterly groundwater sampling data.

PCE Groundwater Concentrations—3rd Quarter 2003
Omega Superfund Site

Figure 3

03-0029 Fig3 ai



0 400 800
Scale in Feet

WESTON SOLUTIONS

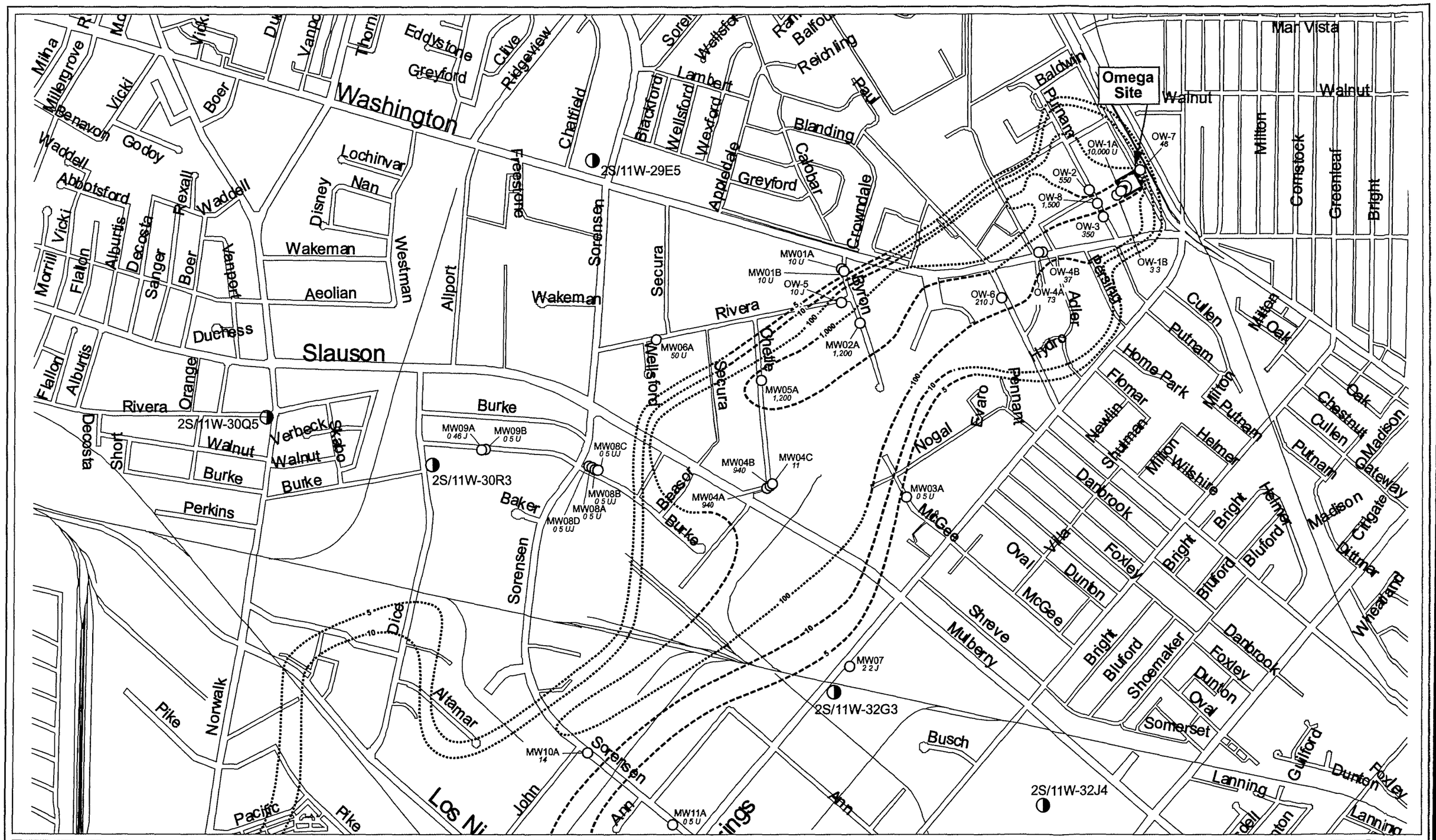
- ○ Existing Monitoring Well and Number
- ◑ Production Well and Number
- --- TCE Isoconcentration Line Based Upon Quarterly Groundwater Sampling Data
- ..... Isoconcentration Line Based Upon Phase 1 (Aug. 2001) and Phase 2 (Aug. 2002) Hydrogeology Investigation Data

Notes:
1) Concentrations in µg/L.
2) Samples collected August 2003.
3) The isoconcentration lines are based on Phase 1 and Phase 2 Hydrogeology Investigation data, but have been updated with the most recent quarterly groundwater sampling data.

TCE Groundwater Concentrations—3rd Quarter 2003
Omega Superfund Site

Figure
4

03-0029 Fig4.ai



0 400 800
Scale in Feet

WESTON SOLUTIONS

○ Existing Monitoring Well and Number

◑ Production Well and Number

--- Freon 113 Isoconcentration Line Based Upon Quarterly Groundwater Sampling Data

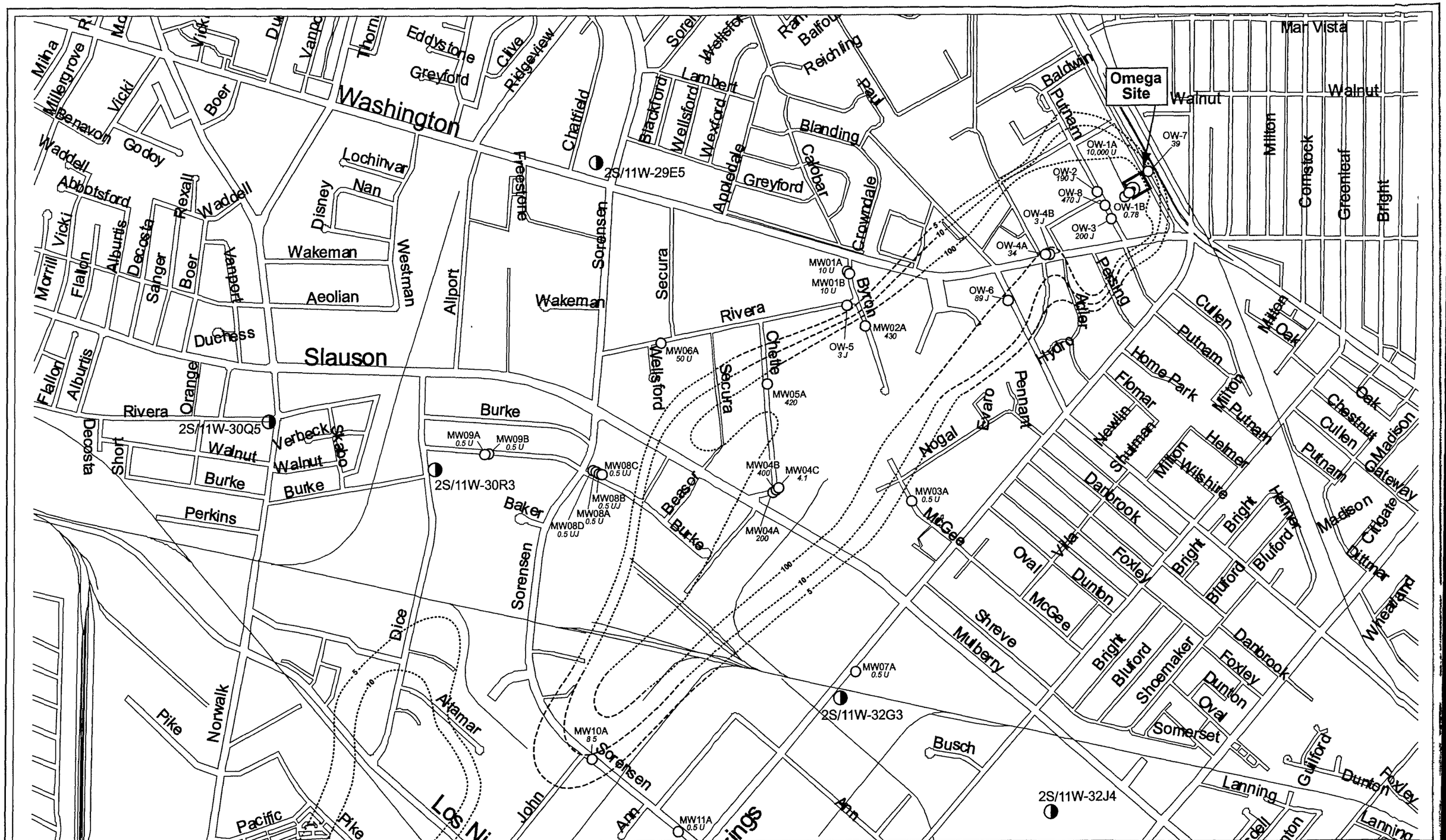
..... Isoconcentration Line Based Upon Phase 1 (Aug. 2001) and Phase 2 (Aug. 2002) Hydrogeology Investigation Data

Notes:
1) Concentrations in µg/L.
2) Samples collected August 2003.
3) The isoconcentration lines are based on Phase 1 and Phase 2 Hydrogeology Investigation data, but have been updated with the most recent quarterly groundwater sampling data.

Freon 113 Groundwater Concentrations—3rd Quarter 2003
Omega Superfund Site

Figure
5

03-0029 Fig5 ai



0 400 800
Scale in Feet

WESTON SOLUTIONS

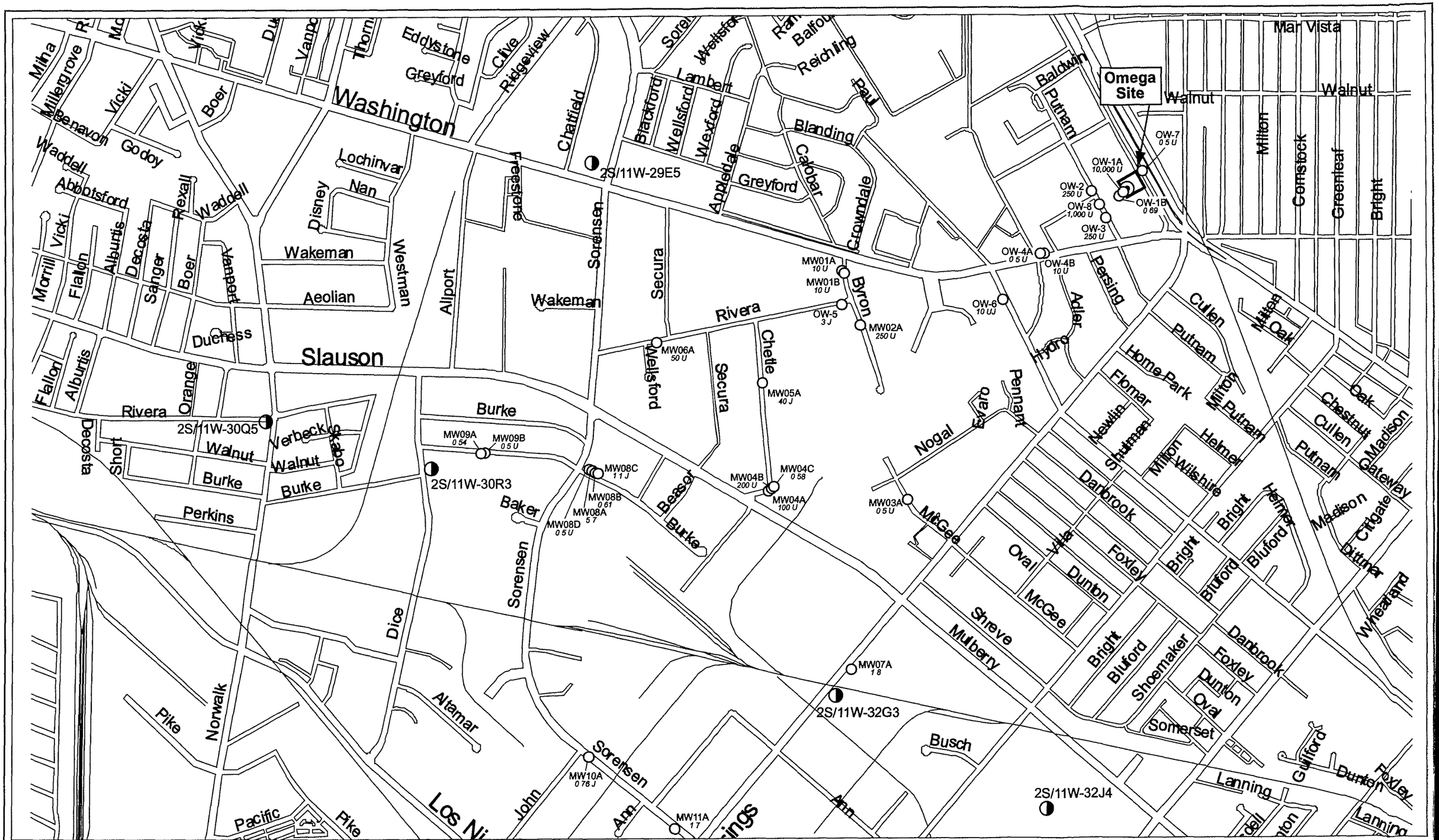
- ○ Existing Monitoring Well and Number
- ◑ Production Well and Number
- --- Freon 11 Isoconcentration Line Based Upon Quarterly Groundwater Sampling Data
- ------ Isoconcentration Line Based Upon Phase II Hydrogeology Investigation Data

Notes:
1) Concentrations in µg/L.
2) Samples collected August 2003.
3) The isoconcentration lines are based on Phase II Hydrogeology Investigation data, but have been updated with the most recent quarterly groundwater sampling data.

Freon 11 Groundwater Concentrations—3rd Quarter 2003
Omega Superfund Site

Figure
6

03-0029 Fig6.ai



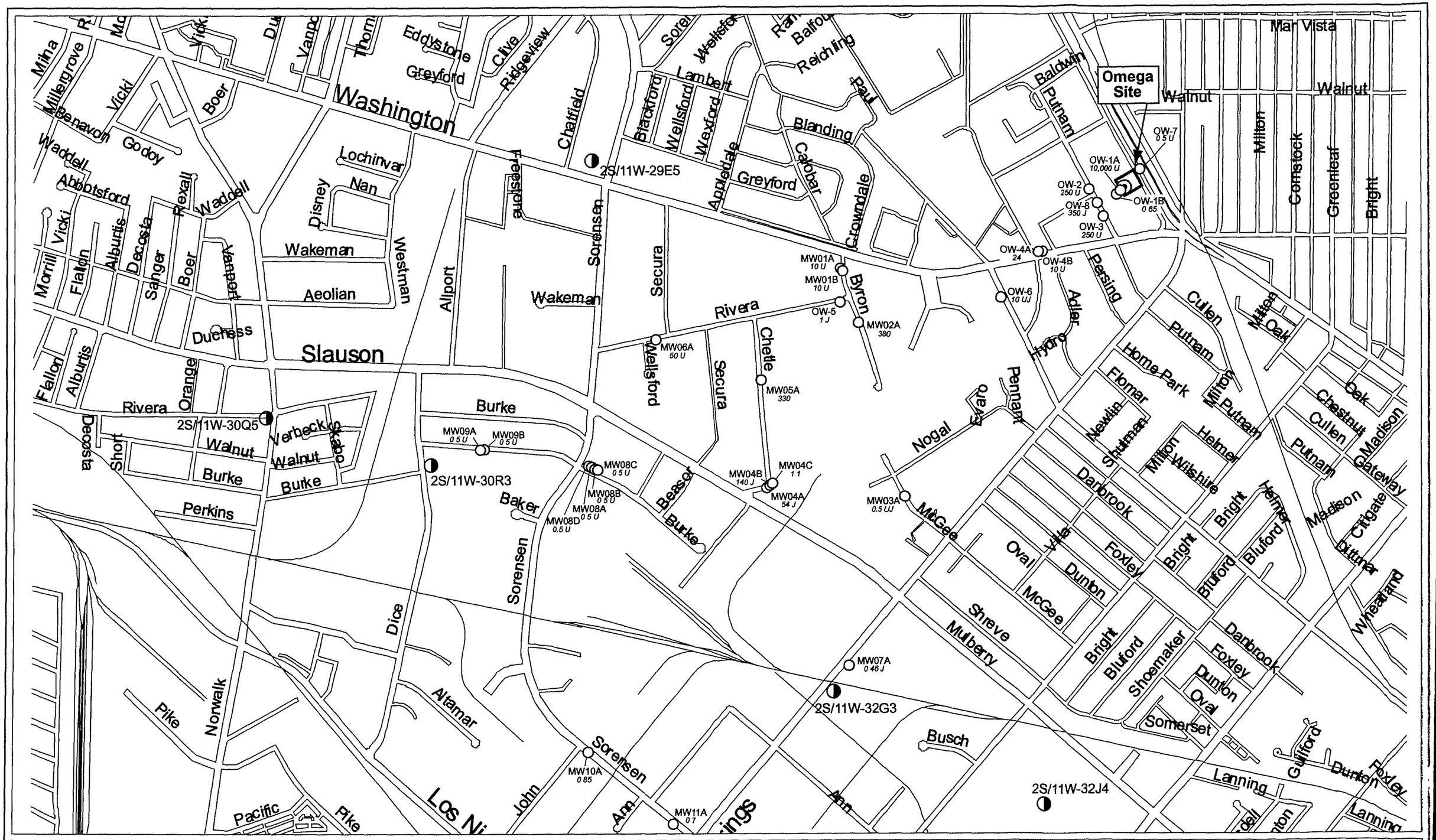
Notes: 1) Concentrations in µg/L.
2) Samples collected August 2003.

WESTON SOLUTIONS

Cis 1,2-DCE Groundwater Concentrations—3rd Quarter 2003
Omega Superfund Site

Figure
7

03-0029 Fig7 ai



0 400 800
Scale in Feet

WESTON SOLUTIONS

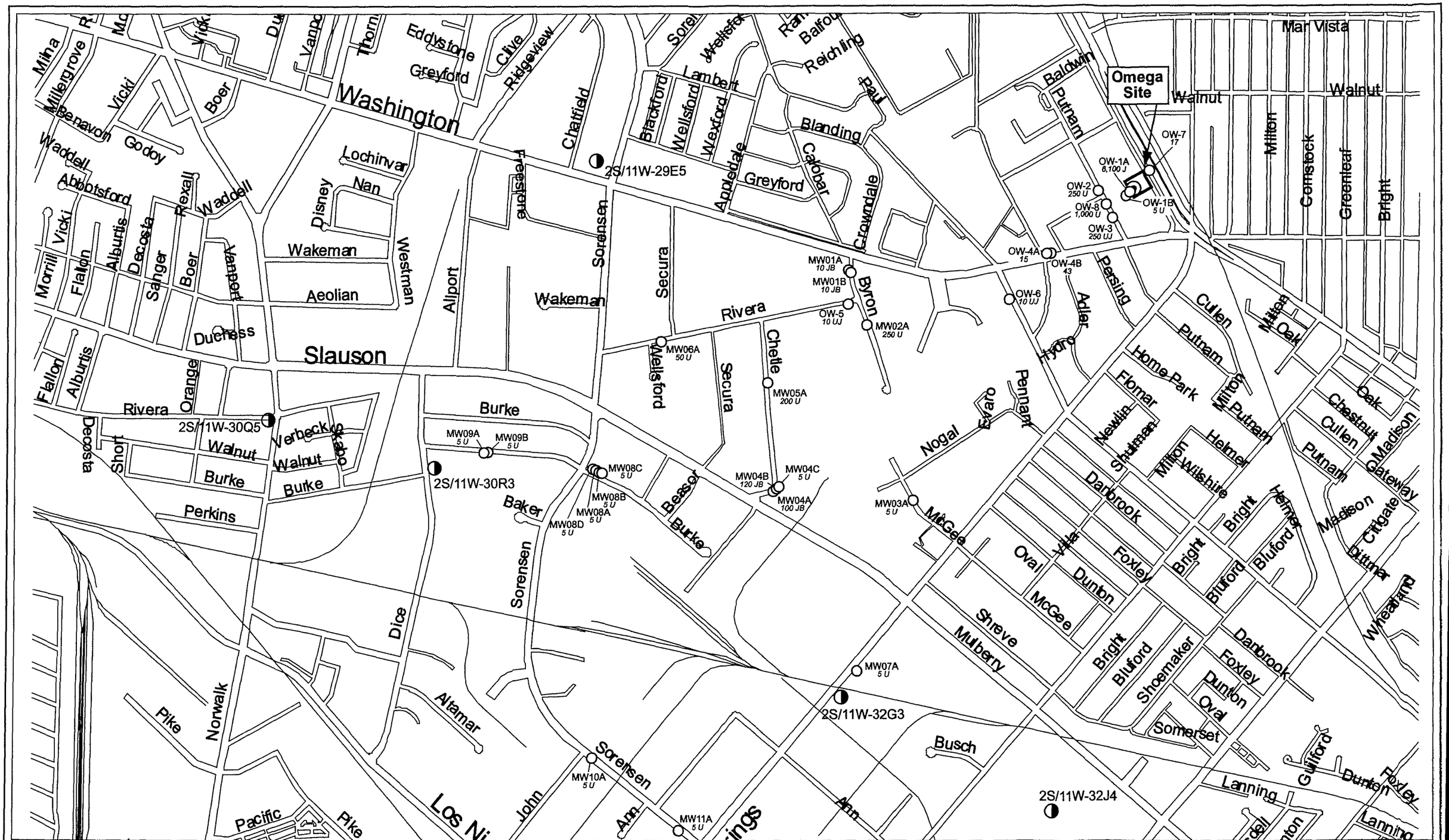
○ Existing Monitoring Well and Number
◑ Production Well and Number

Notes: 1) Concentrations in µg/L.
2) Samples collected August 2003.

Chloroform Groundwater Concentrations—3rd Quarter 2003
Omega Superfund Site

Figure
8

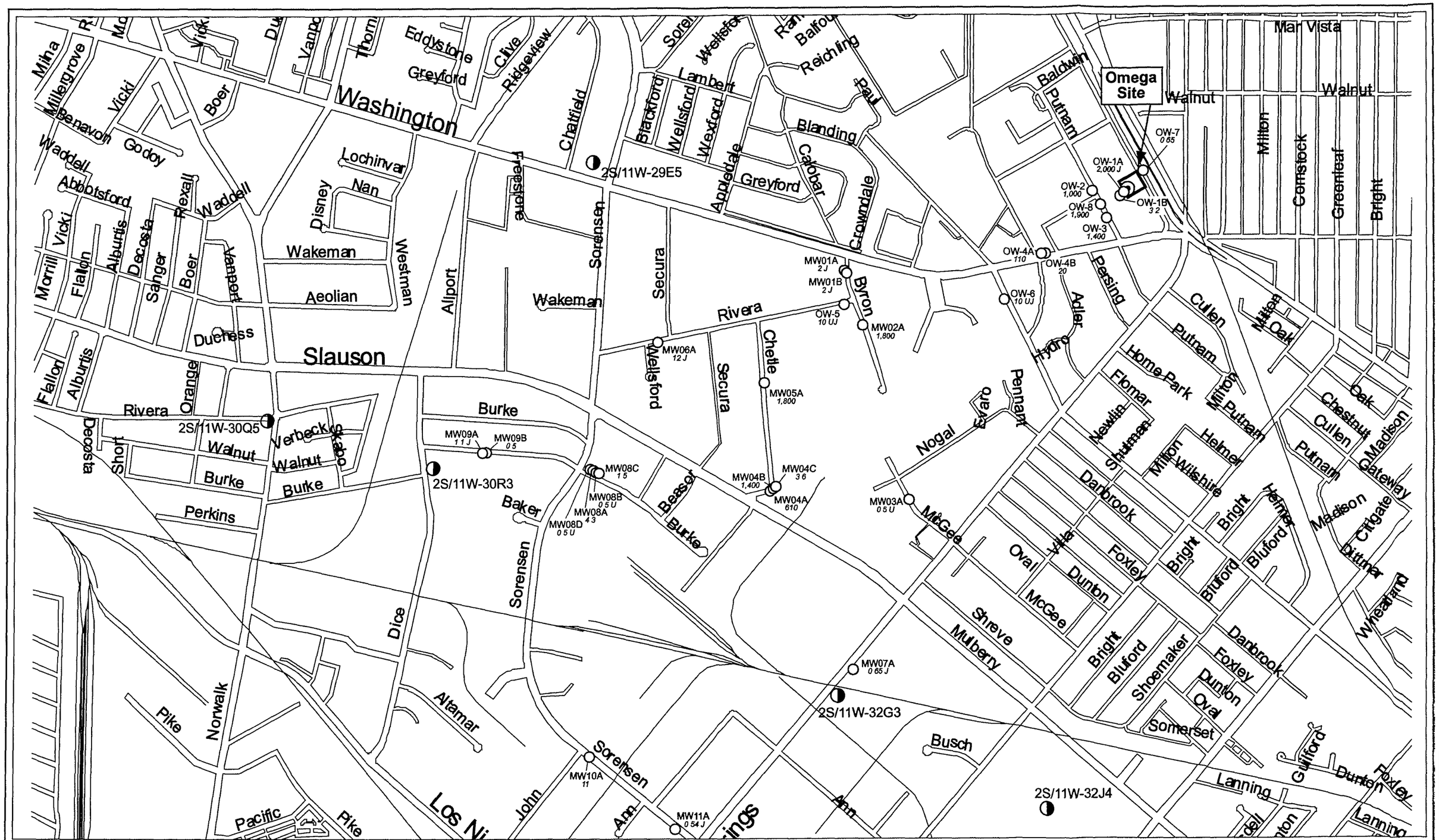
03-0029 Fig8.ai



Acetone Groundwater Concentrations—3rd Quarter 2003
Omega Superfund Site

Figure 9

03-0029 Fig9.ai



0 400 800
Scale in Feet

○ Existing Monitoring Well and Number
◑ Production Well and Number

Notes: 1) Concentrations in µg/L.
2) Samples collected August 2003.

WESTON SOLUTIONS

1,1-Dichloroethene Groundwater Concentrations—3rd Quarter 2003
Omega Superfund Site

Figure
10

03-0029 Fig10.ai

APPENDIX A
ANALYTICAL DATA SUMMARY TABLE

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	MW01A	MW01B	MW01B	MW02A	MW03A	MW04A
	Sample ID:	GW303-MW01A-0055	GW303-MW01B-0080	GW303-MW01B-1080	GW303-MW02A-0055	GW303-MW03A-0042	GW303-MW04A-0047
	Sample Date:	08/21/2003	08/21/2003	08/21/2003	08/25/2003	08/22/2003	08/19/2003
	Depth (feet):	53 to N/A	80 to N/A	80 to N/A	53 to N/A	43 to N/A	48 to N/A
Volatile Organic Compounds (ug/l)							
1,1,1-Trichloroethane		10 U	10 U	10 U	250 U	0.50 U	100 U
1,1,2,2-Tetrachloroethane		10 U	10 U	10 U	250 U	0.50 U	100 U
1,1,2-Trichloroethane		10 U	10 U	10 U	250 U	0.50 U	100 U
1,1-Dichloroethane		10 U	10 U	10 U	250 U	0.50 U	100 U
1,1-Dichloroethene		2 J	2 J	2 J	1800	0.50 U	610
1,2,3-Trichlorobenzene						0.50 U	
1,2,4-Trichlorobenzene		10 U	10 U	10 U	250 U	0.50 U	100 U
1,2-Dibromo-3-chloropropane		10 U	10 U	10 U	250 U	0.50 U	100 U
1,2-Dibromoethane [EDB]		10 U	10 U	10 U	250 U	0.50 U	100 U
1,2-Dichlorobenzene		10 U	10 U	10 U	250 U	0.50 U	100 U
1,2-Dichloroethane		10 U	10 U	10 U	41 J	0.50 U	100 U
1,2-Dichloropropane		10 U	10 U	10 U	250 U	0.50 U	100 U
1,3-Dichlorobenzene		10 U	10 U	10 U	250 U	0.50 U	100 U
1,4-Dichlorobenzene		10 U	10 U	10 U	250 U	0.50 U	100 U
2-Butanone		10 U	10 U	10 U	250 U	5.0 U	100 U
2-Hexanone		10 U	10 U	10 U	250 U	5.0 U	100 U
4-Methyl-2-pentanone		10 U	10 U	10 U	250 U	5.0 U	100 U
Acetone		10 UJ	10 UJ	10 UJ	250 U	5.0 U	100 J
Benzene		10 U	10 U	10 U	250 U	0.50 U	100 U
Bromochloromethane						0.50 U	
Bromodichloromethane		10 U	10 U	10 U	250 U	0.50 U	100 U
Bromoform		10 U	10 U	10 U	250 U	0.50 U	100 U
Bromomethane		10 U	10 U	10 U	250 U	0.50 U	100 U
Carbon Disulfide		10 U	10 U	10 U	250 U	0.50 U	100 U

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

	Station ID:	MW01A	MW01B	MW01B	MW02A	MW03A	MW04A
	Sample ID:	GW303-MW01A-0055	GW303-MW01B-0080	GW303-MW01B-1080	GW303-MW02A-0055	GW303-MW03A-0042	GW303-MW04A-0047
	Sample Date:	08/21/2003	08/21/2003	08/21/2003	08/25/2003	08/22/2003	08/19/2003
Constituent	Depth (feet):	53 to N/A	80 to N/A	80 to N/A	53 to N/A	43 to N/A	48 to N/A
Carbon Tetrachloride		10 U	10 U	10 U	250 U	0.50 U	100 U
Chlorobenzene		10 U	10 U	10 U	250 U	0.50 U	100 U
Chlorodibromomethane		10 U	10 U	10 U	250 U	0.50 U	100 U
Chloroethane		10 U	10 U	10 U	250 U	0.50 U	100 UJ
Chloroform		10 U	10 U	10 U	380	0.50 U	54 J
Chloromethane		10 U	10 U	10 U	250 U	0.50 U	100 U
cis-1,2-Dichloroethene		10 U	10 U	10 U	250 U	0.50 U	100 U
cis-1,3-Dichloropropene		10 U	10 U	10 U	250 U	0.50 U	100 U
Cyclohexane		10 U	10 U	10 U	250 U	0.50 U	100 U
Dichlorodifluoromethane		10 U	10 U	10 U	250 U	0.50 U	100 U
Ethylbenzene		10 U	10 U	10 U	250 U	0.50 U	100 U
Isopropylbenzene		10 U	10 U	10 U	250 U	0.50 U	100 U
Methyl Acetate		1 J	1 J	10 U	250 U	0.50 U	100 U
Methylcyclohexane		10 U	10 U	10 U	250 U	0.50 U	100 U
Methylene Chloride		10 UJ	10 UJ	11 U	110 J	0.50 U	72 J
Styrene		10 U	10 U	10 U	250 U	0.50 U	100 U
tert-Butyl Methyl Ether		10 U	10 U	10 U	250 U	0.50 U	100 U
Tetrachloroethene		3 J	3 J	3 J	2200	0.50 U	580
Toluene		10 U	10 U	10 U	250 U	0.50 U	100 U
trans-1,2-Dichloroethene		10 U	10 U	10 U	250 U	0.50 U	100 U
trans-1,3-Dichloropropene		10 U	10 U	10 U	250 U	0.50 U	100 U
Trichloroethene		28	21	24	330	0.50 U	350
Trichlorofluoromethane		10 U	10 U	10 U	430	0.50 U	200
Trichlorotrifluoroethane		10 U	10 U	10 U	1200	0.50 U	470
Vinyl Chloride		10 U	10 U	10 U	250 U	0.50 U	100 U

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	MW01A	MW01B	MW01B	MW02A	MW03A	MW04A
	Sample ID:	GW303-MW01A-0055	GW303-MW01B-0080	GW303-MW01B-1080	GW303-MW02A-0055	GW303-MW03A-0042	GW303-MW04A-0047
	Sample Date:	08/21/2003	08/21/2003	08/21/2003	08/25/2003	08/22/2003	08/19/2003
	Depth (feet):	53 to N/A	80 to N/A	80 to N/A	53 to N/A	43 to N/A	48 to N/A
Xylenes (total)		10 U	10 U	10 U	250 U	0.50 U	100 U
1,4-Dioxane					97		18
Perchlorate		3.5	1.9 J	2.5	4.2	1.2 J	3.2
Inorganics (Total) (ug/l)							
Aluminum		19.0 UJ	19.0 UJ	19.0 UJ	19.0 UJ	19.0 UJ	19.0 UJ
Antimony		17.2 J	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U
Arsenic		4.4 U	6.6 J	4.4 U	4.4 U	4.8 J	4.4 U
Barium		75.9 J	44.8 J	44.9 J	50.7 J	40.7 J	41.5
Beryllium		0.11 J	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Cadmium		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Calcium		139000	123000	123000	157000	125000	147000
Chromium		121	32.4	34.6	9.7 U	2.0 U	34.2
Cobalt		3.9 U	1.4 U	1.4 U	1.6 J	1.4 U	1.4 U
Copper		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Cyanide		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.7 U
Iron		23.1 UJ	23.1 UJ	23.1 UJ	23.1 UJ	23.1 UJ	23.1 UJ
Lead		2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Magnesium		45100 J	40800 J	40900 J	45900 J	40200 J	44100 J
Manganese		0.30 UJ	82.0	75.6	4.1 J	26.0	3.1 J
Mercury		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nickel		1.8 U	1.8 U	1.8 U	1.8 U	2.5 J	1.8 U
Potassium		3630 J	5090 J	5320 J	4460 J	4180 J	3330 J
Selenium		1.9 UJ	4.3 J	1.9 UJ	1.9 UJ	3.4 J	4.1 J
Silver		1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	MW01A	MW01B	MW01B	MW02A	MW03A	MW04A
	Sample ID:	GW303-MW01A-0055	GW303-MW01B-0080	GW303-MW01B-1080	GW303-MW02A-0055	GW303-MW03A-0042	GW303-MW04A-0047
	Sample Date:	08/21/2003	08/21/2003	08/21/2003	08/25/2003	08/22/2003	08/19/2003
	Depth (feet):	53 to N/A	80 to N/A	80 to N/A	53 to N/A	43 to N/A	48 to N/A
Sodium		103000	85900	88500	117000	199000	134000
Thallium		4 2 U	4 2 U	4 2 U	4 2 U	4 2 U	4 2 U
Vanadium		2 5 U	5 2 U	1 6 U	4 2 U	4 8 U	1 6 U
Zinc		6 0 J	13 5 J	8 6 J	14 5 J	11 0 J	4 2 J
Inorganics (Dissolved) (ug/l)							
Aluminum		19 0 U	19 0 U	19 0 U	19 0 U	19 0 U	102
Antimony		7 2 U	7 2 U	7 2 U	7 2 U	7 2 U	7 2 U
Arsenic		4 4 U	9 2 J	4 4 U	4 4 U	4 4 U	4 4 U
Barium		65 3 J	36 1 J	38 7 J	49 9 J	39 6 J	39 4 J
Beryllium		0 10 U	0 10 U	0 10 U	0 10 U	0 10 U	0 10 U
Cadmium		0 50 U	0 56 J	0 50 U	0 50 U	0 50 U	0 50 U
Calcium		141000	121000	126000	167000	130000	153000
Chromium		110	30 2	35 4	3 6 J	1 1 UJ	31 0
Cobalt		1 4 UJ	1 4 UJ	1 4 UJ	1 4 UJ	1 4 UJ	1 4 UJ
Copper		1 2 U	4 4	1 2 U	1 2 U	1 2 U	1 2 U
Iron		23 1 U	23 1 U	23 1 U	23 1 U	23 1 U	23 1 U
Lead		2 6 U	2 6 U	2 6 U	2 6 U	2 6 U	2 6 U
Magnesium		46300	40500	42200	49500	41900	46100
Manganese		0 90 J	67 0	65 5	0 30 UJ	27 3	0 30 UJ
Mercury		0 10 UJ	0 10 UJ	0 10 UJ	0 10 UJ	0 10 UJ	0 10 UJ
Nickel		1 8 U	5 6 J	1 8 U	1 8 U	4 2 J	2 5 J
Potassium		3260 J	4440 J	4830 J	3860 J	4300 J	3440 J
Selenium		3 2 J	3 6 J	4 3 J	3 7 J	4 2 J	9 2
Silver		1 5 UJ	7 5 U	1 5 UJ	1 5 UJ	1 5 UJ	1 8 J
Sodium		91400 J	73900 J	79500 J	108000 J	201000 J	135000 J

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

	Station ID:	MW01A	MW01B	MW01B	MW02A	MW03A	MW04A
	Sample ID:	GW303-MW01A-0055	GW303-MW01B-0080	GW303-MW01B-1080	GW303-MW02A-0055	GW303-MW03A-0042	GW303-MW04A-0047
	Sample Date:	08/21/2003	08/21/2003	08/21/2003	08/25/2003	08/22/2003	08/19/2003
Constituent	Depth (feet):	53 to N/A	80 to N/A	80 to N/A	53 to N/A	43 to N/A	48 to N/A
Thallium		4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U
Vanadium		4.0 U	9.7 U	1.6 U	2.6 U	6.2 U	4.6 J
Zinc		19.8 J	31.7	24.4	19.2 J	12.9 J	11.0 J

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	MW04A	MW04B	MW04C	MW05A	MW06A	MW07A
	Sample ID:	GW303-MW04A-1047	GW303-MW04B-0075	GW303-MW04C-0094	GW303-MW05A-0049	GW303-GW06A-0042	GW303-MW07A-0041
	Sample Date:	08/19/2003	08/19/2003	08/19/2003	08/25/2003	08/25/2003	08/21/2003
	Depth (feet):	48 to N/A	75 to N/A	94 to N/A	48 to N/A	43 to N/A	41 to N/A
Volatile Organic Compounds (ug/l)							
1,1,1-Trichloroethane		100 U	200 U	0.50 U	200 U	50 U	0.50 U
1,1,2,2-Tetrachloroethane		100 U	200 U	0.50 U	200 U	50 U	0.50 U
1,1,2-Trichloroethane		100 U	200 U	0.50 U	200 U	50 U	0.50 U
1,1-Dichloroethane		100 U	200 U	0.50 U	200 U	50 U	0.50 U
1,1-Dichloroethene		630	1400	3.6	1800	12 J	0.65 J
1,2,3-Trichlorobenzene				0.50 U			0.50 U
1,2,4-Trichlorobenzene		100 U	200 U	0.50 U	200 U	50 U	0.50 U
1,2-Dibromo-3-chloropropane		100 U	200 U	0.50 U	200 U	50 U	0.50 U
1,2-Dibromoethane [EDB]		100 U	200 U	0.50 U	200 U	50 U	0.50 U
1,2-Dichlorobenzene		100 U	200 U	0.50 U	200 U	50 U	0.50 U
1,2-Dichloroethane		100 U	200 U	0.50 U	26 J	50 U	0.50 U
1,2-Dichloropropane		100 U	200 U	0.50 U	200 U	50 U	0.50 U
1,3-Dichlorobenzene		100 U	200 U	0.50 U	200 U	50 U	0.50 U
1,4-Dichlorobenzene		100 U	200 U	0.50 U	200 U	50 U	0.50 U
2-Butanone		100 U	200 U	5.0 U	200 U	50 U	5.0 U
2-Hexanone		100 U	200 U	5.0 U	200 U	50 U	5.0 U
4-Methyl-2-pentanone		100 U	200 U	5.0 U	200 U	50 U	5.0 U
Acetone		100 J	120 J	5.0 U	200 U	50 U	5.0 U
Benzene		100 U	200 U	0.50 U	200 U	50 U	0.50 U
Bromochloromethane				0.50 U			0.50 U
Bromodichloromethane		100 U	200 U	0.50 U	200 U	50 U	0.50 U
Bromoform		100 U	200 U	0.50 U	200 U	50 U	0.50 U
Bromomethane		100 U	200 U	0.50 U	200 U	50 U	0.50 U
Carbon Disulfide		100 U	200 U	0.50 U	200 U	50 U	0.50 U

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	MW04A	MW04B	MW04C	MW05A	MW06A	MW07A
	Sample ID:	GW303-MW04A-1047	GW303-MW04B-0075	GW303-MW04C-0094	GW303-MW05A-0049	GW303-GW06A-0042	GW303-MW07A-0041
	Sample Date:	08/19/2003	08/19/2003	08/19/2003	08/25/2003	08/25/2003	08/21/2003
	Depth (feet):	48 to N/A	75 to N/A	94 to N/A	48 to N/A	43 to N/A	41 to N/A
Carbon Tetrachloride		100 U	200 U	0.50 U	200 U	50 U	0.50 U
Chlorobenzene		100 U	200 U	0.50 U	200 U	50 U	0.50 U
Chlorodibromomethane		100 U	200 U	0.50 U	200 U	50 U	0.50 U
Chloroethane		100 UJ	200 UJ	0.50 U	200 U	50 U	0.50 U
Chloroform		46 J	140 J	1.1	330	50 U	0.46 J
Chloromethane		100 U	200 U	0.50 U	200 U	50 U	0.50 U
cis-1,2-Dichloroethene		100 U	200 U	0.58	40 J	50 U	1.8
cis-1,3-Dichloropropene		100 U	200 U	0.50 U	200 U	50 U	0.50 U
Cyclohexane		100 U	200 U	0.50 U	200 U	50 U	0.50 U
Dichlorodifluoromethane		100 U	200 U	0.50 U	200 U	50 U	0.50 U
Ethylbenzene		100 U	200 U	0.50 U	200 U	50 U	0.50 U
Isopropylbenzene		100 U	200 U	0.50 U	200 U	50 U	0.50 U
Methyl Acetate		100 U	200 U	0.50 U	200 U	50 U	0.50 U
Methylcyclohexane		100 U	200 U	0.50 U	200 U	50 U	0.50 U
Methylene Chloride		160	400	0.50 U	58 J	27 J	0.50 U
Styrene		100 U	28 J	0.50 U	200 U	50 U	0.50 U
tert-Butyl Methyl Ether		100 U	25 J	0.50 U	200 U	50 U	0.50 U
Tetrachloroethene		580	1200	16	1800	390	32
Toluene		100 U	200 U	0.50 U	200 U	50 U	0.50 U
trans-1,2-Dichloroethene		100 U	200 U	0.50 U	200 UJ	50 UJ	0.50 U
trans-1,3-Dichloropropene		100 U	200 U	0.50 U	200 U	50 U	0.50 U
Trichloroethene		350	320	68	1500	6 J	3.5
Trichlorofluoromethane		210	400	4.1	420	50 U	0.50 U
Trichlorotrifluoroethane		570	940	11	1200	50 U	2.2 J
Vinyl Chloride		100 U	200 U	0.50 U	200 U	50 U	0.50 U

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	MW04A	MW04B	MW04C	MW05A	MW06A	MW07A
	Sample ID:	GW303-MW04A-1047	GW303-MW04B-0075	GW303-MW04C-0094	GW303-MW05A-0049	GW303-GW06A-0042	GW303-MW07A-0041
	Sample Date:	08/19/2003	08/19/2003	08/19/2003	08/25/2003	08/25/2003	08/21/2003
	Depth (feet):	48 to N/A	75 to N/A	94 to N/A	48 to N/A	43 to N/A	41 to N/A
Xylenes (total)		100 U	200 U	0.50 U	200 U	50 U	0.50 U
1,4-Dioxane		18	40		60	4.3	
Perchlorate		3.3	4.4	3.2	4.1	3.6	6.2
Inorganics (Total) (ug/l)							
Aluminum		19.0 UJ	256	184 J	19.0 UJ	19.0 UJ	19.0 UJ
Antimony		7.2 U	10.7 J	7.2 U	7.2 U	7.2 U	25.5 J
Arsenic		4.4 U	4.4 U	5.0 J	4.4 U	4.4 U	4.4 U
Barium		40.0 J	50.2 J	44.6 J	50.6 J	40.0 J	24.3 J
Beryllium		0.10 U	0.15 J	0.10 U	0.10 U	0.10 U	0.22
Cadmium		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Calcium		149000	167000	156000	152000	186000	276000
Chromium		33.6	28.0	20.9	11.6	124	11.6
Cobalt		1.4 U	4.2 U	2.6 U	1.4 U	1.8 J	7.1 J
Copper		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Cyanide		1.7 U	1.7 U	1.7 U	1.2 U	1.2 U	1.2 U
Iron		23.1 UJ	267	198	23.1 UJ	23.1 UJ	23.1 UJ
Lead		2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Magnesium		45000 J	44700 J	44100 J	42500 J	46700 J	82300 J
Manganese		1.2 J	33.9	19.8	0.30 UJ	0.30 UJ	0.30 UJ
Mercury		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nickel		1.8 U	1.8 U	2.9 J	1.8 U	1.8 U	1.8 U
Potassium		3400 J	4770 J	5380 J	5070 J	6440 J	6460 J
Selenium		11.5	5.1	6.3	1.9 UJ	12.6	19.4
Silver		1.5 UJ	1.5 UJ	5.1 U	1.5 UJ	1.5 UJ	1.5 UJ

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	MW04A	MW04B	MW04C	MW05A	MW06A	MW07A
	Sample ID:	GW303-MW04A-1047	GW303-MW04B-0075	GW303-MW04C-0094	GW303-MW05A-0049	GW303-GW06A-0042	GW303-MW07A-0041
	Sample Date:	08/19/2003	08/19/2003	08/19/2003	08/25/2003	08/25/2003	08/21/2003
	Depth (feet):	48 to N/A	75 to N/A	94 to N/A	48 to N/A	43 to N/A	41 to N/A
Sodium		137000	96400	102000	123000	176000	238000
Thallium		4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U
Vanadium		1.6 U	2.7 U	4.9 U	2.5 U	1.6 U	1.6 U
Zinc		8.4 J	17.8 J	15.3 J	10.7 J	8.0 J	7.2 J
Inorganics (Dissolved) (ug/l)							
Aluminum		19.0 U	19.0 U	19.0 U	19.0 U	19.0 U	19.0 U
Antimony		7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U
Arsenic		4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U
Barium		38.3 J	46.0 J	43.4 J	51.7 J	37.2 J	17.4 J
Beryllium		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Cadmium		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Calcium		153000	173000	158000	164000	192000	300000
Chromium		33.4	21.0	16.6	10.0 J	125	3.2 J
Cobalt		1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Copper		1.2 U	1.2 U	1.2 U	2.0	1.2 U	1.2 U
Iron		23.1 U	23.1 U	23.1 U	23.1 U	23.1 U	23.1 U
Lead		2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Magnesium		45900	46200	44400	46600	49200	92200
Manganese		0.30 UJ	2.4 J	0.52 J	1.3 J	0.30 UJ	0.38 J
Mercury		0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ
Nickel		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Potassium		3400 J	4470 J	4910 J	4700 J	5720 J	6440 J
Selenium		9.3	3.8 J	6.1	1.9 U	5.7	22.1
Silver		1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	2.9 U
Sodium		132000 J	88600 J	91100 J	119000 J	166000 J	236000 J

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

	Station ID:	MW04A	MW04B	MW04C	MW05A	MW06A	MW07A
	Sample ID:	GW303-MW04A-1047	GW303-MW04B-0075	GW303-MW04C-0094	GW303-MW05A-0049	GW303-GW06A-0042	GW303-MW07A-0041
	Sample Date:	08/19/2003	08/19/2003	08/19/2003	08/25/2003	08/25/2003	08/21/2003
Constituent	Depth (feet):	48 to N/A	75 to N/A	94 to N/A	48 to N/A	43 to N/A	41 to N/A
Thallium		4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U
Vanadium		2.0 J	1.6 U	1.6 U	4.9 U	1.6 U	1.6 U
Zinc		10.8 J	17.2 J	22.1	23.2	13.3 J	20.8

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	MW08A	MW08B	MW08C	MW08D	MW09A	MW09B
	Sample ID:	GW303-MW08A-0040	GW303-MW08B-0070	GW303-MW08C-0087	GW303-MW08D-0116	GW303-MW09A-0032	GW303-MW09B-0054
	Sample Date:	08/20/2003	08/20/2003	08/20/2003	08/20/2003	08/21/2003	08/21/2003
	Depth (feet):	38 to N/A	70 to N/A	90 to N/A	115 to N/A	30 to N/A	55 to N/A
Volatile Organic Compounds (ug/l)							
1,1,1-Trichloroethane		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene		4.3	0.50 U	1.5	0.50 U	1.1 J	0.50
1,2,3-Trichlorobenzene		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane [EDB]		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Disulfide		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

	Station ID:	MW08A	MW08B	MW08C	MW08D	MW09A	MW09B
	Sample ID:	GW303-MW08A-0040	GW303-MW08B-0070	GW303-MW08C-0087	GW303-MW08D-0116	GW303-MW09A-0032	GW303-MW09B-0054
	Sample Date:	08/20/2003	08/20/2003	08/20/2003	08/20/2003	08/21/2003	08/21/2003
Constituent	Depth (feet):	38 to N/A	70 to N/A	90 to N/A	115 to N/A	30 to N/A	55 to N/A
Carbon Tetrachloride		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorodibromomethane		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene		5.7	0.61	1.1 J	0.50 U	0.54	0.50 U
cis-1,3-Dichloropropene		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane		0.50 U	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 U
Ethylbenzene		0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U
Isopropylbenzene		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene Chloride		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butyl Methyl Ether		0.50 U	0.50 U	0.50 U	0.50 U	0.84	0.82
Tetrachloroethene		170	7.4	8.3	1.5 J	470	15
Toluene		0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U
trans-1,2-Dichloroethene		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene		27	1.6	1.7	24 J	37	1.7
Trichlorofluoromethane		0.50 U	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 U
Trichlorotrifluoroethane		0.50 U	0.50 UJ	0.50 UJ	0.50 UJ	0.46 J	0.50 U
Vinyl Chloride		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	MW08A	MW08B	MW08C	MW08D	MW09A	MW09B
	Sample ID:	GW303-MW08A-0040	GW303-MW08B-0070	GW303-MW08C-0087	GW303-MW08D-0116	GW303-MW09A-0032	GW303-MW09B-0054
	Sample Date:	08/20/2003	08/20/2003	08/20/2003	08/20/2003	08/21/2003	08/21/2003
	Depth (feet):	38 to N/A	70 to N/A	90 to N/A	115 to N/A	30 to N/A	55 to N/A
Xylenes (total)		0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U
1,4-Dioxane		1.6					
Perchlorate		4.4	3.9	3.4	1.8 J	1.7 J	3.8
Inorganics (Total) (ug/l)							
Aluminum		19.0 UJ	19.0 UJ	19.0 UJ	19.0 UJ	19.0 UJ	19.0 UJ
Antimony		7.2 U	10.9 J	7.2 U	7.2 U	15.9 J	7.2 U
Arsenic		4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U
Barium		65.0 J	34.9 J	23.6 J	81.9 J	32.9 J	31.5 J
Beryllium		0.10 U	0.16 J	0.10 U	0.10 U	0.14 J	0.10 U
Cadmium		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Calcium		209000	210000	202000	132000	185000	220000
Chromium		80.7	13.0	5.6 U	1.8 U	5.9 U	9.8 U
Cobalt		1.4 U	5.0 U	1.4 U	1.4 U	5.3 J	3.3 J
Copper		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Cyanide		1.2 U	1.7 U	1.2 U	1.2 U	1.2 U	1.2 U
Iron		23.1 UJ	23.1 UJ	23.1 UJ	23.1 UJ	23.1 UJ	23.1 UJ
Lead		2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Magnesium		56300 J	55000 J	54100 J	37200 J	53600 J	52500 J
Manganese		0.30 UJ	2.5 J	112	147	320	0.30 UJ
Mercury		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nickel		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Potassium		6860 J	5840 J	6370 J	4770 J	7990 J	7210 J
Selenium		51.2	5.1	4.5 J	14.5	4.0 J	1.9 UJ
Silver		1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	MW08A	MW08B	MW08C	MW08D	MW09A	MW09B
	Sample ID:	GW303-MW08A-0040	GW303-MW08B-0070	GW303-MW08C-0087	GW303-MW08D-0116	GW303-MW09A-0032	GW303-MW09B-0054
	Sample Date:	08/20/2003	08/20/2003	08/20/2003	08/20/2003	08/21/2003	08/21/2003
	Depth (feet):	38 to N/A	70 to N/A	90 to N/A	115 to N/A	30 to N/A	55 to N/A
Sodium		190000	119000	140000	66900	152000	139000
Thallium		4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U
Vanadium		1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Zinc		9.6 J	7.7 J	21.8	9.0 J	10.5 J	11.1 J
Inorganics (Dissolved) (ug/l)							
Aluminum		19.0 U	19.0 U	19.0 U	19.0 U	19.0 U	19.0 U
Antimony		7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U
Arsenic		4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U
Barium		71.8 J	28.4 J	25.3	95.0	28.5	26.2
Beryllium		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Cadmium		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Calcium		217000	219000	224000	153000	201000	209000
Chromium		81.1	6.7 J	5.9	1.1 U	1.1 U	4.3
Cobalt		1.4 UJ	1.4 UJ	1.4 U	1.4 U	1.4 U	1.4 U
Copper		6.6	1.2 U	1.2 U	2.3	1.6	1.2 U
Iron		23.1 U	23.1 U	23.1 U	23.1 U	23.1 U	23.1 U
Lead		2.6 U	2.9 U	2.6 U	2.6 U	2.6 U	2.6 U
Magnesium		57600	58800	59200	43100	57700	49800
Manganese		0.70 J	0.64 J	131	171	311	0.94
Mercury		0.10 UJ	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Nickel		3.0 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Potassium		6260 J	5840 J	6220 J	4620 J	9220 J	6600 J
Selenium		60.2	8.2	5.5	19.0	8.3	7.8
Silver		1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ
Sodium		168000 J	117000 J	133000 J	64000 J	175000 J	128000 J

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

	Station ID:	MW08A	MW08B	MW08C	MW08D	MW09A	MW09B
	Sample ID:	GW303-MW08A-0040	GW303-MW08B-0070	GW303-MW08C-0087	GW303-MW08D-0116	GW303-MW09A-0032	GW303-MW09B-0054
	Sample Date:	08/20/2003	08/20/2003	08/20/2003	08/20/2003	08/21/2003	08/21/2003
Constituent	Depth (feet):	38 to N/A	70 to N/A	90 to N/A	115 to N/A	30 to N/A	55 to N/A
Thallium		4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U
Vanadium		1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Zinc		28.4	15.7 J	22.2	28.2	22.2	11.1

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	MW10A	MW11A	N/A	N/A	N/A	N/A
	Sample ID:	GW303-MW10A-0057	GW303-MW11A-0045	GW303-MW01A-2003	GW303-MW02A-2005	GW303-MW03A-2004	GW303-MW04B-2001
	Sample Date:	08/19/2003	08/22/2003	08/21/2003	08/25/2003	08/22/2003	08/19/2003
	Depth (feet):	57 to N/A	45 to N/A	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A
Volatile Organic Compounds (ug/l)							
1,1,1-Trichloroethane		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
1,1,2,2-Tetrachloroethane		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
1,1,2-Trichloroethane		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
1,1-Dichloroethane		0.50 U	0.39 J	10 U	10 U	0.50 U	10 U
1,1-Dichloroethene		11	0.54 J	10 U	10 U	0.50 U	10 U
1,2,3-Trichlorobenzene		0.50 U	0.50 U			0.50 U	
1,2,4-Trichlorobenzene		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
1,2-Dibromo-3-chloropropane		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
1,2-Dibromoethane [EDB]		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
1,2-Dichlorobenzene		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
1,2-Dichloroethane		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
1,2-Dichloropropane		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
1,3-Dichlorobenzene		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
1,4-Dichlorobenzene		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
2-Butanone		5.0 U	5.0 U	10 U	10 U	5.0 U	10 U
2-Hexanone		5.0 U	5.0 U	10 U	10 U	5.0 U	10 U
4-Methyl-2-pentanone		5.0 U	5.0 U	10 U	10 U	5.0 U	10 U
Acetone		5.0 U	5.0 U	10 U	10 U	5.0 U	10 U
Benzene		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
Bromochloromethane		0.50 U	0.50 U			0.50 U	
Bromodichloromethane		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
Bromoform		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
Bromomethane		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
Carbon Disulfide		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	MW10A	MW11A	N/A	N/A	N/A	N/A
	Sample ID:	GW303-MW10A-0057	GW303-MW11A-0045	GW303-MW01A-2003	GW303-MW02A-2005	GW303-MW03A-2004	GW303-MW04B-2001
	Sample Date:	08/19/2003	08/22/2003	08/21/2003	08/25/2003	08/22/2003	08/19/2003
	Depth (feet):	57 to N/A	45 to N/A	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A
Carbon Tetrachloride		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
Chlorobenzene		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
Chlorodibromomethane		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
Chloroethane		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
Chloroform		0.85	0.70	10 U	10 U	0.47 J	10 U
Chloromethane		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
cis-1,2-Dichloroethene		0.76 J	1.7	10 U	10 U	0.50 U	10 U
cis-1,3-Dichloropropene		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
Cyclohexane		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
Dichlorodifluoromethane		0.50 U	0.50 U	10 U	10 UJ	0.50 U	10 U
Ethylbenzene		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
Isopropylbenzene		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
Methyl Acetate		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
Methylcyclohexane		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
Methylene Chloride		0.50 U	0.50 U	20 U	10 U	0.50 U	12 U
Styrene		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
tert-Butyl Methyl Ether		1.8	0.34 J	10 U	10 U	0.50 U	10 U
Tetrachloroethene		27	12	10 U	10 U	0.50 U	10 U
Toluene		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
trans-1,2-Dichloroethene		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
trans-1,3-Dichloropropene		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
Trichloroethene		21	2.1	10 U	10 U	0.50 U	10 U
Trichlorofluoromethane		8.5	0.50 U	10 U	10 U	0.50 U	10 U
Trichlorotrifluoroethane		14	0.50 U	10 U	10 U	0.50 U	10 U
Vinyl Chloride		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	MW10A	MW11A	N/A	N/A	N/A	N/A
	Sample ID:	GW303-MW10A-0057	GW303-MW11A-0045	GW303-MW01A-2003	GW303-MW02A-2005	GW303-MW03A-2004	GW303-MW04B-2001
	Sample Date:	08/19/2003	08/22/2003	08/21/2003	08/25/2003	08/22/2003	08/19/2003
	Depth (feet):	57 to N/A	45 to N/A	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A
Xylenes (total)		0.50 U	0.50 U	10 U	10 U	0.50 U	10 U
1,4-Dioxane		5.4					
Perchlorate		3.1	4.7				
Inorganics (Total) (ug/l)							
Aluminum		19.0 UJ	19.0 UJ				
Antimony		10.7 J	7.2 U				
Arsenic		4.4 U	4.4 U				
Barium		29.8 J	23.1 J				
Beryllium		0.10 J	0.10 U				
Cadmium		0.50 U	0.50 U				
Calcium		214000	23800 J				
Chromium		10.2 U	2.5 U				
Cobalt		4.4 U	1.4 U				
Copper		1.2 U	1.2 U				
Cyanide		1.2 U	1.2 U				
Iron		23.1 UJ	23.1 UJ				
Lead		2.6 U	2.6 U				
Magnesium		60800 J	67500 J				
Manganese		4.9 J	0.30 UJ				
Mercury		0.10 U	0.10 U				
Nickel		1.8 U	1.8 U				
Potassium		7850 J	8030 J				
Selenium		8.9	21.7				
Silver		1.5 UJ	1.5 UJ				

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	MW10A	MW11A	N/A	N/A	N/A	N/A
	Sample ID:	GW303-MW10A-0057	GW303-MW11A-0045	GW303-MW01A-2003	GW303-MW02A-2005	GW303-MW03A-2004	GW303-MW04B-2001
	Sample Date:	08/19/2003	08/22/2003	08/21/2003	08/25/2003	08/22/2003	08/19/2003
	Depth (feet):	57 to N/A	45 to N/A	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A
Sodium		184000	189000				
Thallium		4.2 U	4.2 U				
Vanadium		1.6 U	1.6 U				
Zinc		7.6 J	14.5 J				
Inorganics (Dissolved) (ug/l)							
Aluminum		19.0 U	19.0 U				
Antimony		7.2 U	7.2 U				
Arsenic		4.4 U	4.4 U				
Barium		26.3	21.0				
Beryllium		0.10 U	0.10 U				
Cadmium		0.50 U	0.50 U				
Calcium		218000	242000				
Chromium		3.9	1.1 U				
Cobalt		1.4 U	1.4 U				
Copper		1.2 U	1.2 U				
Iron		23.1 U	23.1 U				
Lead		2.6 U	2.6 U				
Magnesium		61600	69200				
Manganese		0.30 U	0.30 U				
Mercury		0.10 U	0.10 U				
Nickel		2.1	1.8 U				
Potassium		7240 J	7690 J				
Selenium		10.7	21.7				
Silver		1.5 UJ	1.5 UJ				
Sodium		165000 J	186000 J				

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

	Station ID:	MW10A	MW11A	N/A	N/A	N/A	N/A
	Sample ID:	GW303-MW10A-0057	GW303-MW11A-0045	GW303-MW01A-2003	GW303-MW02A-2005	GW303-MW03A-2004	GW303-MW04B-2001
	Sample Date:	08/19/2003	08/22/2003	08/21/2003	08/25/2003	08/22/2003	08/19/2003
Constituent	Depth (feet):	57 to N/A	45 to N/A	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A
Thallium		4.2 U	4.2 U				
Vanadium		1.6 U	1.6 U				
Zinc		10.8	16.9				

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	N/A	N/A	N/A	N/A	N/A	N/A
	Sample ID:	GW303-MW08A-2002	GW303-MW09A-2009	GW303-OW1A-2008	GW303-OW4A-2007	GW303-OW6-2008	GW303-OW7-4001
	Sample Date:	08/20/2003	08/21/2003	08/26/2003	08/27/2003	08/28/2003	08/26/2003
	Depth (feet):	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A
Volatile Organic Compounds (ug/l)							
1,1,1-Trichloroethane		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
1,1,2,2-Tetrachloroethane		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
1,1,2-Trichloroethane		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
1,1-Dichloroethane		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
1,1-Dichloroethene		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
1,2,3-Trichlorobenzene		0.50 UJ	0.50 UJ		0.50 U		0.50 U
1,2,4-Trichlorobenzene		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
1,2-Dibromo-3-chloropropane		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
1,2-Dibromoethane [EDB]		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
1,2-Dichlorobenzene		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
1,2-Dichloroethane		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
1,2-Dichloropropane		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
1,3-Dichlorobenzene		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
1,4-Dichlorobenzene		0.50 UJ	0.35 J	10 U	0.50 U	10 UJ	0.50 U
2-Butanone		5.0 UJ	5.0 UJ	10 U	5.0 U	10 UJ	5.0 U
2-Hexanone		5.0 UJ	5.0 UJ	10 U	5.0 U	10 UJ	5.0 U
4-Methyl-2-pentanone		5.0 UJ	5.0 UJ	10 U	5.0 U	10 UJ	5.0 U
Acetone		5.0 UJ	5.0 UJ	10 U	5.0 U	10 UJ	9.4
Benzene		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Bromochloromethane		0.50 UJ	0.50 UJ		0.50 U		0.50 U
Bromodichloromethane		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Bromoform		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Bromomethane		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Carbon Disulfide		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

	Station ID:	N/A	N/A	N/A	N/A	N/A	N/A
	Sample ID:	GW303-MW08A-2002	GW303-MW09A-2009	GW303-OW1A-2008	GW303-OW4A-2007	GW303-OW6-2008	GW303-OW7-4001
	Sample Date:	08/20/2003	08/21/2003	08/26/2003	08/27/2003	08/28/2003	08/26/2003
Constituent	Depth (feet):	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A
Carbon Tetrachloride		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Chlorobenzene		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Chlorodibromomethane		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Chloroethane		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Chloroform		0.50 UJ	0.39 J	10 U	0.90	1 J	0.50 U
Chloromethane		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.31 J
cis-1,2-Dichloroethene		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
cis-1,3-Dichloropropene		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Cyclohexane		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Dichlorodifluoromethane		0.50 UJ	0.50 UJ	10 UJ	0.50 U	10 UJ	0.50 U
Ethylbenzene		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Isopropylbenzene		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Methyl Acetate		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Methylcyclohexane		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Methylene Chloride		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Styrene		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
tert-Butyl Methyl Ether		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Tetrachloroethene		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Toluene		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
trans-1,2-Dichloroethene		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
trans-1,3-Dichloropropene		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Trichloroethene		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Trichlorofluoromethane		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Trichlorotrifluoroethane		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U
Vinyl Chloride		0.50 UJ	0.50 UJ	10 U	0.50 U	10 UJ	0.50 U

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

	Station ID:	N/A	N/A	N/A	N/A	N/A	N/A
	Sample ID:	GW303-MW08A-2002	GW303-MW09A-2009	GW303-OW1A-2008	GW303-OW4A-2007	GW303-OW6-2008	GW303-OW7-4001
	Sample Date:	08/20/2003	08/21/2003	08/26/2003	08/27/2003	08/28/2003	08/26/2003
Constituent	Depth (feet):	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A
Xylenes (total)		*0.50 UJ*	*0.50 UJ*	*10 U*	*0.50 U*	*10 UJ*	*0.50 U*
1,4-Dioxane							
Perchlorate							
Inorganics (Total) (ug/l)							
Aluminum							
Antimony							
Arsenic							
Barium							
Beryllium							
Cadmium							
Calcium							
Chromium							
Cobalt							
Copper							
Cyanide							
Iron							
Lead							
Magnesium							
Manganese							
Mercury							
Nickel							
Potassium							
Selenium							
Silver							

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	N/A	N/A	N/A	N/A	N/A	N/A
	Sample ID:	GW303-MW08A-2002	GW303-MW09A-2009	GW303-OW1A-2008	GW303-OW4A-2007	GW303-OW6-2008	GW303-OW7-4001
	Sample Date:	08/20/2003	08/21/2003	08/26/2003	08/27/2003	08/28/2003	08/26/2003
	Depth (feet):	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A
Sodium							
Thallium							
Vanadium							
Zinc							
Inorganics (Dissolved) (ug/l)							
Aluminum							
Antimony							
Arsenic							
Barium							
Beryllium							
Cadmium							
Calcium							
Chromium							
Cobalt							
Copper							
Iron							
Lead							
Magnesium							
Manganese							
Mercury							
Nickel							
Potassium							
Selenium							
Silver							
Sodium							

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

	Station ID:	N/A	N/A	N/A	N/A	N/A	N/A
	Sample ID:	GW303-MW08A-2002	GW303-MW09A-2009	GW303-OW1A-2008	GW303-OW4A-2007	GW303-OW6-2008	GW303-OW7-4001
	Sample Date:	08/20/2003	08/21/2003	08/26/2003	08/27/2003	08/28/2003	08/26/2003
Constituent	Depth (feet):	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A	N/A to N/A
Thallium							
Vanadium							
Zinc							

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	OW01A	OW01B	OW02	OW03	OW04A	OW04B
	Sample ID:	GW303-OW1A-0080	GW303-OW1B-0116	GW303-OW2-0078	GW303-OW3-0080	GW303-OW4A-0073	GW303-OW4B-0125
	Sample Date:	08/26/2003	08/26/2003	08/27/2003	08/26/2003	08/27/2003	08/27/2003
	Depth (feet):	71 to N/A	115 to N/A	70 to N/A	73 to N/A	60 to N/A	117 to N/A
Volatile Organic Compounds (ug/l)							
1,1,1-Trichloroethane		4700 J	1.5	250 U	250 U	0.58	10 U
1,1,2,2-Tetrachloroethane		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
1,1,2-Trichloroethane		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
1,1-Dichloroethane		10000 U	0.66	250 U	250 U	0.50 U	10 U
1,1-Dichloroethene		2000 J	3.2	1000	1400	110	20
1,2,3-Trichlorobenzene			0.50 U			0.50 U	
1,2,4-Trichlorobenzene		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
1,2-Dibromo-3-chloropropane		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
1,2-Dibromoethane [EDB]		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
1,2-Dichlorobenzene		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
1,2-Dichloroethane		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
1,2-Dichloropropane		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
1,3-Dichlorobenzene		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
1,4-Dichlorobenzene		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
2-Butanone		10000 U	5.0 U	250 U	250 U	5.0 U	10 U
2-Hexanone		10000 U	5.0 U	250 U	250 U	5.0 U	10 U
4-Methyl-2-pentanone		10000 U	5.0 U	250 U	250 U	5.0 U	10 U
Acetone		6100 J	5.0 U	250 U	250 U	15	43
Benzene		10000 U	1.1	250 U	250 U	0.50 UJ	10 U
Bromochloromethane			0.50 U			0.50 U	
Bromodichloromethane		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
Bromoform		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
Bromomethane		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
Carbon Disulfide		10000 U	0.50 U	250 U	250 U	0.50 U	10 U

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	OW01A	OW01B	OW02	OW03	OW04A	OW04B
	Sample ID:	GW303-OW1A-0080	GW303-OW1B-0116	GW303-OW2-0078	GW303-OW3-0080	GW303-OW4A-0073	GW303-OW4B-0125
	Sample Date:	08/26/2003	08/26/2003	08/27/2003	08/26/2003	08/27/2003	08/27/2003
	Depth (feet):	71 to N/A	115 to N/A	70 to N/A	73 to N/A	60 to N/A	117 to N/A
Carbon Tetrachloride		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
Chlorobenzene		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
Chlorodibromomethane		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
Chloroethane		10000 UJ	0.50 U	250 U	250 U	0.50 U	10 U
Chloroform		10000 U	0.65	250 U	250 U	24	10 U
Chloromethane		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
cis-1,2-Dichloroethene		10000 U	0.69	250 U	250 U	0.50 U	10 U
cis-1,3-Dichloropropene		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
Cyclohexane		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
Dichlorodifluoromethane		10000 UJ	0.50 U	250 U	250 U	0.50 U	10 U
Ethylbenzene		10000 U	0.50 U	250 U	250 U	0.50 UJ	10 U
Isopropylbenzene		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
Methyl Acetate		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
Methylcyclohexane		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
Methylene Chloride		20000	0.84 U	110 J	95 J	0.50 U	10 U
Styrene		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
tert-Butyl Methyl Ether		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
Tetrachloroethene		110000	130	1900	2000	64 J	36
Toluene		10000 U	0.50 U	250 U	250 U	0.50 UJ	10 U
trans-1,2-Dichloroethene		10000 U	0.50 U	250 UJ	250 UJ	0.50 U	10 UJ
trans-1,3-Dichloropropene		10000 U	0.50 U	250 U	250 U	0.50 U	10 U
Trichloroethene		2000 J	3.9	170 J	200 J	32 J	3 J
Trichlorofluoromethane		10000 U	0.78	190 J	200 J	34	3 J
Trichlorotrifluoroethane		10000 U	3.3	550	350	73	37
Vinyl Chloride		10000 U	0.54	250 U	250 U	0.50 U	10 U

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	OW01A	OW01B	OW02	OW03	OW04A	OW04B
	Sample ID:	GW303-OW1A-0080	GW303-OW1B-0116	GW303-OW2-0078	GW303-OW3-0080	GW303-OW4A-0073	GW303-OW4B-0125
	Sample Date:	08/26/2003	08/26/2003	08/27/2003	08/26/2003	08/27/2003	08/27/2003
	Depth (feet):	71 to N/A	115 to N/A	70 to N/A	73 to N/A	60 to N/A	117 to N/A
Xylenes (total)		10000 U	0.50 U	250 U	250 U	0.50 UJ	10 U
1,4-Dioxane		8300 J	39 J			6.1 J	
Perchlorate		2.4	2.0 U	3.1	2.8	2.2	2.4
Inorganics (Total) (ug/l)							
Aluminum		276	230	19.0 UJ	99.7 U	19.0 UJ	19.0 UJ
Antimony		7.2 U	19.6	7.2 U	7.2 U	7.2 U	7.2 U
Arsenic		4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U
Barium		64.4 J	15.1 J	36.2 J	24.6 J	42.3 J	24.2 J
Beryllium		0.11 J	0.22 J	0.10 U	0.10 U	0.10 U	0.10 U
Cadmium		0.73 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Calcium		170000	33500	151000	187000	150000	101000
Chromium		2.9 J	8.1 J	11.3	15.0	12.8	4.9 J
Cobalt		3.5 J	5.6 J	1.4 U	1.4 U	1.4 U	1.4 U
Copper		2.0 U	1.2 U	1.2 U	5.4 U	1.7 U	1.2 U
Cyanide		2.3 U	3.0 U	2.7 U	2.7 U	2.8 U	2.7 U
Iron		1460	4690	23.1 U	2160	23.1 U	23.1 U
Lead		2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Magnesium		43500	34500	57000	62700	50300	61800
Manganese		523	226	1.9 J	12.8 J	1.7 J	2.6 J
Mercury		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nickel		15.5 J	1.8 U	3.5 J	6.8 J	1.8 U	1.8 U
Potassium		4170 J	6280 J	2670 J	2880 J	3530 J	3350 J
Selenium		12.5 U	1.9 UJ	10.7 U	9.2 U	9.5 U	13.3 U
Silver		1.5 UJ	1.5 UJ	1.8 U	1.5 UJ	2.0 U	1.5 UJ

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	OW01A	OW01B	OW02	OW03	OW04A	OW04B
	Sample ID:	GW303-OW1A-0080	GW303-OW1B-0116	GW303-OW2-0078	GW303-OW3-0080	GW303-OW4A-0073	GW303-OW4B-0125
	Sample Date:	08/26/2003	08/26/2003	08/27/2003	08/26/2003	08/27/2003	08/27/2003
	Depth (feet):	71 to N/A	115 to N/A	70 to N/A	73 to N/A	60 to N/A	117 to N/A
Sodium		117000	3220000	72100	75600	105000	123000
Thallium		4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U
Vanadium		5.2 J	1.6 U	5.2 J	5.4 J	4.5 J	3.8 J
Zinc		28.0	48.3	23.5	17.8 J	44.9	12.8 J
Inorganics (Dissolved) (ug/l)							
Aluminum				19.0 UJ	19.0 UJ	19.0 UJ	19.0 UJ
Antimony				7.2 U	7.2 U	7.3 J	7.2 U
Arsenic				4.4 U	4.4 U	4.4 U	4.4 U
Barium				40.0 J	23.7 J	47.7 J	23.8 J
Beryllium				0.10 U	0.10 U	0.12 J	0.10 U
Cadmium				0.50 U	0.50 U	0.50 U	0.69 J
Calcium				146000	174000	149000	102000
Chromium				4.6 J	6.6 J	13.2	4.8 J
Cobalt				1.4 J	1.7 J	1.6 J	2.1 J
Copper				1.2 U	1.2 U	1.2 U	1.3 U
Iron				23.1 U	23.1 U	23.1 U	23.1 U
Lead				2.6 U	2.6 U	2.6 U	2.6 U
Magnesium				53500	57300	49800	62900
Manganese				0.84 U	3.0 J	0.94 U	4.3 J
Mercury				0.10 U	0.10 U	0.10 U	0.10 U
Nickel				1.8 U	1.8 U	1.8 U	1.8 U
Potassium				2620 J	2770 J	3740 J	3390 J
Selenium				14.0 J	8.3 U	7.7 U	11.0 J
Silver				1.5 UJ	1.5 UJ	1.5 UJ	2.4 U
Sodium				69800	71300	109000	128000

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

	Station ID:	OW01A	OW01B	OW02	OW03	OW04A	OW04B
	Sample ID:	GW303-OW1A-0080	GW303-OW1B-0116	GW303-OW2-0078	GW303-OW3-0080	GW303-OW4A-0073	GW303-OW4B-0125
	Sample Date:	08/26/2003	08/26/2003	08/27/2003	08/26/2003	08/27/2003	08/27/2003
Constituent	Depth (feet):	71 to N/A	115 to N/A	70 to N/A	73 to N/A	60 to N/A	117 to N/A
Thallium				4.2 U	4.2 U	4.2 U	4.2 U
Vanadium				3.4 U	3.2 J	2.9 U	6.7 U
Zinc				19.9 J	12.9 J	31.8	32.2

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	OW05	OW05	OW06	OW07	OW08
	Sample ID:	GW303-OW5-0048	GW303-OW5-1048	GW303-OW6-0048	GW303-OW7-0081	GW303-OW8-0075
	Sample Date:	08/28/2003	08/28/2003	08/28/2003	08/26/2003	08/27/2003
	Depth (feet):	40 to N/A	40 to N/A	48 to N/A	81 to N/A	70 to N/A
Volatile Organic Compounds (ug/l)						
1,1,1-Trichloroethane		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
1,1,2,2-Tetrachloroethane		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
1,1,2-Trichloroethane		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
1,1-Dichloroethane		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
1,1-Dichloroethene		10 UJ	10 UJ	10 UJ	0.65	1900
1,2,3-Trichlorobenzene					0.50 U	
1,2,4-Trichlorobenzene		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
1,2-Dibromo-3-chloropropane		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
1,2-Dibromoethane [EDB]		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
1,2-Dichlorobenzene		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
1,2-Dichloroethane		10 UJ	10 UJ	10 UJ	0.50 U	120 J
1,2-Dichloropropane		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
1,3-Dichlorobenzene		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
1,4-Dichlorobenzene		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
2-Butanone		10 UJ	10 UJ	10 UJ	5.0 U	1000 U
2-Hexanone		10 UJ	10 UJ	10 UJ	5.0 U	1000 U
4-Methyl-2-pentanone		10 UJ	10 UJ	10 UJ	5.0 U	1000 U
Acetone		10 UJ	10 UJ	10 UJ	17	1000 U
Benzene		10 UJ	10 UJ	10 UJ	0.50 UJ	1000 U
Bromochloromethane					0.50 U	
Bromodichloromethane		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
Bromoform		10 UJ	10 UJ	10 UJ	0.35 J	1000 U
Bromomethane		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
Carbon Disulfide		10 UJ	10 UJ	10 UJ	0.50 U	1000 U

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	OW05	OW05	OW06	OW07	OW08
	Sample ID:	GW303-OW5-0048	GW303-OW5-1048	GW303-OW6-0048	GW303-OW7-0081	GW303-OW8-0075
	Sample Date:	08/28/2003	08/28/2003	08/28/2003	08/26/2003	08/27/2003
	Depth (feet):	40 to N/A	40 to N/A	48 to N/A	81 to N/A	70 to N/A
Carbon Tetrachloride		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
Chlorobenzene		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
Chlorodibromomethane		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
Chloroethane		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
Chloroform		1 J	1 J	10 UJ	0.50 U	350 J
Chloromethane		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
cis-1,2-Dichloroethene		3 J	3 J	10 UJ	0.50 U	1000 U
cis-1,3-Dichloropropene		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
Cyclohexane		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
Dichlorodifluoromethane		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
Ethylbenzene		10 UJ	10 UJ	10 UJ	0.50 UJ	1000 U
Isopropylbenzene		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
Methyl Acetate		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
Methylcyclohexane		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
Methylene Chloride		10 UJ	10 UJ	10 UJ	0.50 U	320 J
Styrene		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
tert-Butyl Methyl Ether		10 UJ	10 UJ	61 J	0.50 U	1000 U
Tetrachloroethene		25 J	23 J	20 J	12 J	11000
Toluene		10 UJ	10 UJ	10 UJ	0.50 UJ	1000 U
trans-1,2-Dichloroethene		10 UJ	10 UJ	10 UJ	0.50 U	1000 UJ
trans-1,3-Dichloropropene		10 UJ	10 UJ	10 UJ	0.50 U	1000 U
Trichloroethene		33 J	31 J	3 J	0.53 J	760 J
Trichlorofluoromethane		3 J	3 J	89 J	39	470 J
Trichlorotrifluoroethane		10 J	9 J	210 J	46	1500
Vinyl Chloride		10 UJ	10 UJ	10 UJ	0.50 U	1000 U

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	OW05	OW05	OW06	OW07	OW08
	Sample ID:	GW303-OW5-0048	GW303-OW5-1048	GW303-OW6-0048	GW303-OW7-0081	GW303-OW8-0075
	Sample Date:	08/28/2003	08/28/2003	08/28/2003	08/26/2003	08/27/2003
	Depth (feet):	40 to N/A	40 to N/A	48 to N/A	81 to N/A	70 to N/A
Xylenes (total)		10 UJ	10 UJ	10 UJ	0.50 UJ	1000 U
1,4-Dioxane		14	9.7	0.5 J		1200 J
Perchlorate		2.0	2.4	2.0 U	2.6	2.4
Inorganics (Total) (ug/l)						
Aluminum		49.2 U	49.2 U	49.2 U	19.0 UJ	19.0 UJ
Antimony		4.2 U	4.2 U	4.2 U	7.2 U	7.2 U
Arsenic		2.9 U	2.9 U	2.9 U	4.4 U	4.4 U
Barium		52.5 J	84.1 J	21.2	21.0 J	39.1 J
Beryllium		0.50 U	0.50 U	0.50 U	0.10 U	0.10 U
Cadmium		2.9 U	2.9 U	2.9 U	0.50 U	0.50 U
Calcium		66300	134000	120000	193000	180000
Chromium		26.7	27.3	3.1 J	6.5 J	4.6 J
Cobalt		3.2 U	3.2 U	3.2 U	1.4 U	1.6 J
Copper		2.5 U	2.5 U	2.5 U	1.2 U	1.2 U
Cyanide		3.0 U	3.0 U	3.0 U	2.7 U	2.1 U
Iron		192 U	218	27.4 U	23.1 U	448
Lead		1.8 U	1.8 U	1.8 U	2.6 U	2.6 U
Magnesium		19900	35500	43500	65900	63800
Manganese		7.7 J	10.3 J	0.80 U	1.1 U	871
Mercury		0.10 U	0.10 U	0.44	0.10 U	0.10 U
Nickel		29.5 J	40.0 J	3.4 U	1.8 U	1.8 U
Potassium		6400 J	2690 J	7260 J	2230 J	2640 J
Selenium		4.2 J	3.6 U	3.6 U	8.5 U	8.2 U
Silver		2.4 U	2.4 U	2.4 U	2.0 U	1.5 UJ

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Station ID:	OW05	OW05	OW06	OW07	OW08
	Sample ID:	GW303-OW5-0048	GW303-OW5-1048	GW303-OW6-0048	GW303-OW7-0081	GW303-OW8-0075
	Sample Date:	08/28/2003	08/28/2003	08/28/2003	08/26/2003	08/27/2003
	Depth (feet):	40 to N/A	40 to N/A	48 to N/A	81 to N/A	70 to N/A
Sodium		3590000 J	93800 J	3060000 J	70000	81200
Thallium		5.6 U	5.6 U	5.6 U	4.2 U	4.2 U
Vanadium		4.8 J	4.9 J	4.2 J	5.4 J	1.6 U
Zinc		31.2	14.8 J	18.8 J	31.7	11.0 J
Inorganics (Dissolved) (ug/l)						
Aluminum		49.2 U	49.2 U	49.2 U	19.0 UJ	19.0 UJ
Antimony		4.2 U	4.2 U	4.2 U	7.2 U	7.2 U
Arsenic		2.9 U	2.9 U	2.9 U	4.4 U	4.4 U
Barium		92.4 J	87.6 J	31.8 J	21.9 J	39.8 J
Beryllium		0.50 U	0.50 U	0.50 U	0.10 U	0.10 U
Cadmium		2.9 U	2.9 U	2.9 U	0.50 U	0.50 U
Calcium		149000	142000	196000	184000	196000
Chromium		15.4	13.9	2.9 J	6.3 J	2.0 J
Cobalt		3.2 U	3.2 U	3.2 U	1.5 J	1.4 U
Copper		2.5 U	2.5 U	2.5 U	1.2 U	1.2 U
Iron		27.4 U	27.4 U	27.4 U	23.1 U	507
Lead		1.8 U	2.7 U	1.8 U	2.6 U	2.6 U
Magnesium		39700	37600	61400	62300	71100
Manganese		9.8 J	9.1 J	3.2 J	1.7 J	1040
Mercury		0.10 U	0.10 U	0.28	0.10 U	0.10 U
Nickel		40.8	35.6 J	3.4 U	1.8 U	1.8 U
Potassium		2980 J	2800 J	3940 J	2240 J	2940 J
Selenium		3.6 U	3.6 U	3.6 U	9.5 U	12.3 J
Silver		2.4 U	2.4 U	2.4 U	1.5 UJ	1.5 UJ
Sodium		104000 J	98100 J	127000 J	67400	92200

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Third Quarter 2003, Whittier, CA

	Station ID:	OW05	OW05	OW06	OW07	OW08
	Sample ID:	GW303-OW5-0048	GW303-OW5-1048	GW303-OW6-0048	GW303-OW7-0081	GW303-OW8-0075
	Sample Date:	*08/28/2003*	*08/28/2003*	*08/28/2003*	*08/26/2003*	*08/27/2003*
Constituent	**Depth (feet):**	40 to N/A	40 to N/A	48 to N/A	81 to N/A	70 to N/A
Thallium		5.6 U	5.6 U	5.6 U	4.2 U	4.2 U
Vanadium		4.8 J	4.9 J	5.0 J	4.8 J	1.7 U
Zinc		22.0	23.3	20.7	28.5	24.0

A blank cell indicates analysis was not performed or the result was rejected during analysis.

APPENDIX B
STATISTICAL SUMMARY TABLE

Omega Comprehensive Statistical Data Summary - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Number of Samples Analyzed	Number of Detections	Detection Frequency (%)	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Value	Maximum Detected Value	Sample Number of Maximum Detected Value	Arithmetic Mean	Median Value	Upper 95% Confidence Limit
Volatile Organic Compounds (ug/l)											
1,1,1-Trichloroethane	**31**	**3**	**9.7**	**0.5**	**1000**	**0.58**	**4700**	**GW303-OW1A-0080**	**191.62**	**5**	**448.28**
1,1,2,2-Tetrachloroethane	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
1,1,2-Trichloroethane	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
1,1-Dichloroethane	**31**	**2**	**6.5**	**0.5**	**10000**	**0.39**	**0.66**	**GW303-OW1B-0116**	**201.26**	**5**	**474.25**
1,1-Dichloroethene	**31**	**25**	**80.6**	**0.5**	**10**	**0.5**	**2000**	**GW303-OW1A-0080**	**410.67**	**5**	**623.03**
1,2,3-Trichlorobenzene	14	0	0 0	0 5	0 5	n/a	n/a		0 25	0.25	0.25
1,2,4-Trichlorobenzene	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
1,2-Dibromo-3-chloropropane	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
1,2-Dibromoethane [EDB]	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
1,2-Dichlorobenzene	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
1,2-Dichloroethane	**31**	**3**	**9.7**	**0.5**	**10000**	**26**	**120**	**GW303-OW8-0075**	**183.89**	**5**	**456.59**
1,2-Dichloropropane	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
1,3-Dichlorobenzene	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
1,4-Dichlorobenzene	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
2-Butanone	31	0	0 0	5	10000	n/a	n/a		202 26	5	475 18
2-Hexanone	31	0	0 0	5	10000	n/a	n/a		202 26	5	475 18
4-Methyl-2-pentanone	31	0	0 0	5	10000	n/a	n/a		202 26	5	475 18
Acetone	**31**	**7**	**22.6**	**5**	**1000**	**15**	**6100**	**GW303-OW1A-0080**	**243.71**	**5**	**576.26**
Benzene	**31**	**1**	**3.2**	**0.5**	**10000**	**1.1**	**1.1**	**GW303-OW1B-0116**	**201.27**	**5**	**474.26**
Bromochloromethane	14	0	0 0	0 5	0 5	n/a	n/a		0 25	0 25	0 25
Bromodichloromethane	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
Bromoform	**31**	**1**	**3.2**	**0.5**	**10000**	**0.35**	**0.35**	**GW303-OW7-0081**	**201.25**	**5**	**474.24**
Bromomethane	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
Carbon Disulfide	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
Carbon Tetrachloride	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
Chlorobenzene	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
Chlorodibromomethane	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
Chloroethane	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
Chloroform	**31**	**14**	**45.2**	**0.5**	**10000**	**0.46**	**380**	**GW303-MW02A-0055**	**213.93**	**5**	**486.62**
Chloromethane	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
cis-1,2-Dichloroethene	**31**	**12**	**38.7**	**0 5**	**10000**	**0.54**	**40**	**GW303-MW05A-0049**	**199.54**	**5**	**472.61**
cis-1,3-Dichloropropene	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
Cyclohexane	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24
Dichlorodifluoromethane	31	0	0 0	0 5	10000	n/a	n/a		201 24	5	474 24

n/a - Criteria not available
Half undetect weighting used for statistical calculations

Omega Comprehensive Statistical Data Summary - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Number of Samples Analyzed	Number of Detections	Detection Frequency (%)	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Value	Maximum Detected Value	Sample Number of Maximum Detected Value	Arithmetic Mean	Median Value	Upper 95% Confidence Limit
Volatile Organic Compounds (ug/l)											
Ethylbenzene	31	0	0 0	0.5	10000	n/a	n/a		201.24	5	474.24
Isopropylbenzene	31	0	0.0	0.5	10000	n/a	n/a		201.24	5	474.24
Methyl Acetate	31	2	6.5	0.5	10000	1	1	GW303-MW01B-0080	200.98	1	474
Methylcyclohexane	31	0	0.0	0.5	10000	n/a	n/a		201.24	5	474.24
Methylene Chloride	31	10	32.3	0.5	11	27	20000	GW303-OW1A-0080	690.04	5	1782.72
Styrene	31	1	3.2	0.5	10000	28	28	GW303-MW04B-0075	198.92	5	472.02
tert-Butyl Methyl Ether	31	6	19.4	0.5	10000	0.34	61	GW303-OW6-0048	200.72	5	473.72
Tetrachloroethene	31	30	96.8	0.5	0.5	1.5	110000	GW303-OW1A-0080	4281.56	32	10293.21
Toluene	31	0	0.0	0.5	10000	n/a	n/a		201 24	5	474.24
trans-1,2-Dichloroethene	31	0	0.0	0.5	10000	n/a	n/a		201.24	5	474.24
trans-1,3-Dichloropropene	31	0	0.0	0.5	10000	n/a	n/a		201.24	5	474.24
Trichloroethene	31	30	96.8	0.5	0.5	0.53	2000	GW303-OW1A-0080	204.94	27	341.97
Trichlorofluoromethane	31	17	54.8	0.5	10000	0.78	470	GW303-OW6-0075	249.89	5	522.38
Trichlorotrifluoroethane	31	19	61.3	0.5	10000	0.46	1500	GW303-OW6-0075	394.76	11	685.02
Vinyl Chloride	31	1	3.2	0.5	10000	0.54	0.54	GW303-OW1B-0116	201.25	5	474.24
Xylenes (total)	31	0	0.0	0.5	10000	n/a	n/a		201.24	5	474.24
1,4-Dioxane	15	15	100.0	n/a	n/a	0.5	8300	GW303-OW1A-0080	654.24	18	1625.85
Perchlorate	31	29	93.5	2	2	1.2	6.2	GW303-MW07A-0041	2.98	3.1	3.34
Inorganics (Total) (ug/l)											
Aluminum	31	4	12.9	19	99.7	184	276	GW303-OW1A-0080	41.55	9.5	65.25
Antimony	31	7	22.6	4.2	7.2	10.7	25.5	GW303-MW07A-0041	6.21	3.6	7.99
Arsenic	31	3	9.7	2.9	4.4	4.8	6.6	GW303-MW01B-0080	2.44	2.2	2.77
Barium	31	31	100.0	n/a	n/a	15.1	84.1	GW303-OW5-1048	41.79	40	47.24
Beryllium	31	8	25.8	0.1	0.5	0.1	0.22	GW303-MW07A-0041	0.1	0.05	0.12
Cadmium	31	1	3.2	0.5	2.9	0.73	0.73	GW303-OW1A-0080	0.38	0.25	0.49
Calcium	31	31	100.0	n/a	n/a	33500	276000	GW303-MW07A-0041	161154.84	156000	176152.11
Chromium	31	23	74.2	1.8	10.2	2.9	124	GW303-GW06A-0042	22.34	11.6	31.9
Cobalt	31	8	25.8	1.4	5	1.6	7.1	GW303-MW07A-0041	1.78	1.3	2.27
Copper	31	0	0 0	1.2	5.4	n/a	n/a		0.75	0.6	0.88
Cyanide	31	0	0 0	1.2	3	n/a	n/a		0.91	0.85	1.02
Iron	31	7	22.6	23.1	192	198	4690	GW303-OW1B-0116	316.28	11.55	600.37
Lead	31	0	0.0	1.8	2.6	n/a	n/a		1.26	1.3	1.3

n/a - Criteria not available
Half undetect weighting used for statistical calculations.

Omega Comprehensive Statistical Data Summary - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Number of Samples Analyzed	Number of Detections	Detection Frequency (%)	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Value	Maximum Detected Value	Sample Number of Maximum Detected Value	Arithmetic Mean	Median Value	Upper 95% Confidence Limit
Inorganics (Total) (ug/l)											
Magnesium	31	31	100.0	n/a	n/a	19900	82300	GW303-MW07A-0041	49603.23	45900	53316.95
Manganese	31	22	71.0	0.3	1 1	1.2	871	GW303-OW8-0075	80.36	4.1	136.96
Mercury	31	1	3.2	0.1	0.1	0.44	0.44	GW303-OW6-0048	0.06	0.05	0.08
Nickel	31	7	22.6	1.8	3.4	2.5	40	GW303-OW5-1048	3.97	0.9	6.65
Potassium	31	31	100.0	n/a	n/a	2230	8030	GW303-MW11A-0045	5050	5070	5585.58
Selenium	31	16	51.6	1.9	13.3	3.4	51.2	GW303-MW08A-0040	7.29	4.5	10.23
Silver	31	0	0 0	1 5	5 1	n/a	n/a		0 87	0 75	0 98
Sodium	31	31	100.0	n/a	n/a	66900	3590000	GW303-OW5-0048	431851.61	123000	722786.05
Thallium	31	0	0 0	4 2	5 6	n/a	n/a		2 17	2 1	2.23
Vanadium	31	9	29.0	1.6	5.2	3.8	5.4	GW303-OW7-0081	2.22	1.25	2.77
Zinc	31	31	100.0	n/a	n/a	4.2	48.3	GW303-OW1B-0116	16.12	12.8	19.41
Inorganics (Dissolved) (ug/l)											
Aluminum	29	1	3.4	19	49.2	102	102	GW303-MW04A-0047	14.25	9.5	19.78
Antimony	29	1	3.4	4.2	7.2	7.3	7.3	GW303-OW4A-0073	3.57	3.6	3.84
Arsenic	29	1	3.4	2.9	4.4	9.2	9.2	GW303-MW01B-0080	2.36	2.2	2.79
Barium	29	29	100.0	n/a	n/a	17.4	95	GW303-MW08D-0116	42.56	38.7	49.24
Beryllium	29	1	3.4	0.1	0.5	0 12	0.12	GW303-OW4A-0073	0.07	0.05	0.09
Cadmium	29	2	6.9	0.5	2.9	0.56	0.69	GW303-OW4B-0125	0.4	0.25	0.52
Calcium	29	29	100.0	n/a	n/a	102000	300000	GW303-MW07A-0041	175827.59	167000	189197.86
Chromium	29	25	86.2	1.1	1.1	2	125	GW303-GW06A-0042	20.46	6 6	30.46
Cobalt	29	5	17.2	1.4	3.2	1.4	2.1	GW303-OW4B-0125	0.96	0.7	1.1
Copper	29	5	17.2	1.2	2.5	1.6	6.6	GW303-MW08A-0040	1.15	0.6	1.57
Iron	29	1	3.4	23.1	27.4	507	507	GW303-OW8-0075	28.86	11.55	57.9
Lead	29	0	0 0	1 8	2 9	n/a	n/a		1 28	1 3	1 31
Magnesium	29	29	100.0	n/a	n/a	37600	92200	GW303-MW07A-0041	53227.59	49800	56930.35
Manganese	29	21	72.4	0.3	0.94	0.38	1040	GW303-OW8-0075	63.91	1.3	126.97
Mercury	29	1	3.4	0.1	0.1	0.28	0.28	GW303-OW6-0048	0.06	0.05	0.07
Nickel	29	7	24.1	1.8	3.4	2.1	40.8	GW303-OW5-0048	3.94	0 9	6.97
Potassium	29	29	100.0	n/a	n/a	2240	9220	GW303-MW09A-0032	4651.03	4440	5194.42
Selenium	29	22	75.9	1.9	9.5	3.2	60.2	GW303-MW08A-0040	9.41	5.7	12.98
Silver	29	1	3.4	1.5	7.5	1 8	1.8	GW303-MW04A-0047	0.98	0.75	1.16
Sodium	29	29	100.0	n/a	n/a	64000	236000	GW303-MW07A-0041	121527.59	117000	135331.21
Thallium	29	0	0 0	4.2	5 6	n/a	n/a		2 17	2 1	2.24

n/a - Criteria not available
Half undetect weighting used for statistical calculations

Omega Comprehensive Statistical Data Summary - Groundwater Sampling: Third Quarter 2003, Whittier, CA

Constituent	Number of Samples Analyzed	Number of Detections	Detection Frequency (%)	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Value	Maximum Detected Value	Sample Number of Maximum Detected Value	Arithmetic Mean	Median Value	Upper 95% Confidence Limit
Inorganics (Dissolved) (ug/l)											
Vanadium	29	7	24.1	1.6	9.7	2	5	GW303-OW6-0048	2.09	1.3	2.61
Zinc	29	29	100.0	n/a	n/a	10.8	32.2	GW303-OW4B-0125	20.59	20.8	22.67

n/a - Criteria not available
Half undetect weighting used for statistical calculations.

APPENDIX C
QUALIFIED DATA REPORTS

ICF Consulting / Laboratory Data Consultants
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300 Fax: (510) 412-2304

MEMORANDUM

TO: Chris Lichens, Remedial Project Manager
Site Cleanup Section 4, SFD-7-4

THROUGH: Rose Fong, ESAT Project Officer RF
Quality Assurance (QA) Office, PMD-3

FROM: Doug Lindelof, Data Review and QA Document Review Task Manager
Environmental Services Assistance Team (ESAT)

ESAT Contract No.: 68-W-01-028
Task Order: 005
Technical Direction No.: 00505002

DATE: October 21, 2003

SUBJECT: Review of Analytical Data, Tier 2

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

SITE:	Omega Chem OU-2
SITE ACCOUNT NO.:	09 BC LA02
CERCLIS ID NO.:	CAD042245001
CASE NO.:	32073
SDG NO.:	Y0ZP5
LABORATORY:	CEIMIC Corporation (CEIMIC)
ANALYSIS:	Volatiles
SAMPLES:	18 Water Samples
COLLECTION DATE:	August 19, 21, 25, 26, and 27, 2003
REVIEWER:	Santiago Lee, ESAT/Laboratory Data Consultants (LDC)

This report has been reviewed by the EPA Task Order Project Officer (TOPO) for the ESAT Contract, whose signature appears above.

If there are any questions, please contact Rose Fong (QA Program/EPA) at (415) 972-3812.

Attachment

cc: Jennie Han-Liu, CLP PO USEPA Region 1
Steve Remaley, CLP PO USEPA Region 9
ESAT File

CLP PO: [ ] FYI [X] Attention [ ] Action

SAMPLING ISSUES: [ ] Yes. [X] No

Data Validation Report - Tier 2

Case No.:	32073	SDG No.:	Y0ZP5
Site:	Omega Chem OU-2		
Laboratory:	CEIMIC Corporation		
Reviewer:	Santiago Lee, ESAT/LDC		
Date:	October 21, 2003		

I. Case Summary

SAMPLE INFORMATION:

Samples:	Y0ZP0 through Y0ZP3, Y0ZP5, Y0ZP6, Y0ZP7, Y0ZP9, Y0ZQ0, Y0ZR0, Y0ZR2, Y0ZR3, Y0ZR5, Y0ZS0, Y0ZS1, Y0ZS3, Y0ZS5, and Y0ZS6
Concentration and Matrix:	Low Concentration Water
Analysis:	Volatiles
SOW:	OLM04.3
Collection Date:	August 19, 21, 25, 26, and 27, 2003
Sample Receipt Date:	August 21 , 22, 26, and 28, 2003
Extraction Date:	Not Applicable
Analysis Date:	August 27, 28, and 29, 2003 and September 2 and 4, 2003

FIELD QC:

Trip Blanks (TB):	Y0ZS1, Y0ZS3, Y0ZS5, and Y0ZS6
Field Blanks (FB):	Not Provided
Equipment Blanks (EB):	Not Provided
Background Samples (BG):	Not Provided
Field Duplicates (D1):	Y0ZP1 and Y0ZP2
Field Duplicates (D2):	Y0ZP5 and Y0ZP6

METHOD BLANKS AND ASSOCIATED SAMPLES:

VBLKPE:	Y0ZS1 and Y0ZS3
VBLKPF:	Y0ZP5, Y0ZP6, and Y0ZP7
VBLKPG:	Y0ZP0, Y0ZP1, and Y0ZP2
VBLKPL:	Y0ZS5 and Y0ZS6
VBLKPO:	Y0ZR0
VBLKQC:	Y0ZP3
VBLKQD:	Y0ZP9, Y0ZQ0, Y0ZR2, Y0ZR3, Y0ZR5, Y0ZR5MS, Y0ZR5MSD, Y0ZS0 and VHBLK01

TABLES:

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review
2:	Calibration Summary

CLP PO ACTION:

None.

CLP PO ATTENTION:

Detected results and quantitation limits for some analytes are qualified as estimated (J) due to continuing calibration problems.

SAMPLING ISSUES:

None.

MS - Matrix Spike, MSD - Matrix Spike Duplicate, VHBLK - Storage Blank

ADDITIONAL COMMENTS:

As directed by the EPA Task Order Project Officer (TOPO), a Tier 2 review (Tier 3-level review of tetrachloroethene and its degradation products [i.e., trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, 1,1-dichloroethene, 1,2-dichloroethane, chloroethane, and vinyl chloride], freons, and benzene, toluene, ethylbenzene, and xylenes [BTEX]) was performed.

Relative response factors (RRFs) reported on Forms 7A and 7B for the 8/27/03 continuing calibration were incorrect. The laboratory has corrected the RRFs and submitted revised Forms 7A and 7B (attached).

Standard preparation logs are missing in the data package and cannot be evaluated. This information was requested from the laboratory but has not been received to date. Data are not qualified in this report due to missing standard preparation logs. Refer to the attached telephone record log for details.

This report was prepared in accordance with the following documents:

- ESAT Region 9 Standard Operating Procedure 901, *Guidelines for Data Review of Contract Laboratory Program Analytical Services (CLPAS) Volatile and Semivolatile Data Packages*;
- *USEPA Contract Laboratory Program Statement of Work for Organics Analysis,* OLM04.3, 1999; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October 1999.

II. Validation Summary

	Acceptable/Comment	
HOLDING TIMES/PRESERVATION	YES	
GC/MS TUNE/GC PERFORMANCE	YES	
INITIAL CALIBRATIONS	YES	
CONTINUING CALIBRATIONS	NO	B
LABORATORY BLANKS	YES	
FIELD BLANKS	YES	
SURROGATES	YES	
MATRIX SPIKE/DUPLICATES	YES	
LABORATORY CONTROL SAMPLE/DUPLICATES	N/A	
INTERNAL STANDARDS	YES	
COMPOUND IDENTIFICATION	YES	
COMPOUND QUANTITATION	YES	A, C
SYSTEM PERFORMANCE	YES	
FIELD DUPLICATE SAMPLE ANALYSIS	YES	

N/A = Not Applicable

III. Validity and Comments

A. The following results, denoted with an "L" qualifier, are estimated and flagged "J" in Table 1A.

- All results below the contract required quantitation limits

Results below the contract required quantitation limits (CRQLs) are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection.

B. Detected results and quantitation limits for the following analytes are qualified as estimated due to large percent differences (%Ds) in the continuing calibration, and are flagged "J" in Table 1A.

- Chloroethane in samples Y0ZP5, Y0ZP6, and Y0ZP7 and method blank VBLKPF
- Dichlorodifluoromethane in samples Y0ZS5 and Y0ZS6 and method blank VBLKPL
- Dichlorodifluoromethane, chloroethane, and 1,1-dichloroethene in sample Y0ZR0 and method blank VBLKPO
- trans-1,2-Dichloroethene in samples Y0ZP9, Y0ZQ0, Y0ZR2, Y0ZR3, Y0ZR5, and Y0ZS0, storage blank VHBLK01, and method blank VBLKQD

Percent differences exceeding the ±25.0% validation criterion were observed for the analytes listed above in the continuing calibrations performed on August 28, 2003 and September 2, 4, and 5, 2003 (see Table 2).

The continuing calibration checks the instrument performance daily and produces the relative response factors (RRFs) for target analytes that are used for quantitation.

C. Samples Y0ZP3, Y0ZP5, Y0ZP6, Y0ZP7, Y0ZP9, Y0ZQ0, Y0ZR0, Y0ZR2, Y0ZR3 and Y0ZS0 were analyzed at 25-fold, 10-fold, 10-fold, 20-fold, 20-fold, 5-fold, 1000-fold, 25-fold, 25-fold, and 100-fold dilutions, respectively, due to high levels of target analytes. The CRQLs listed for these samples in Table 1A have been multiplied by the dilution factor.

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No.: 32073 SDG No.: Y0ZP5
Site: OMEGA CHEM OU-2
Lab: CEIMIC CORPORATION
Reviewer: Santiago Lee, ESAT/LDC
Date: October 21, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type: Low Level Water Samples For Volatiles

Station Location:	GW303-MW01A-0055			GW303-MW01B-0080			GW303-MW01B-1080			GW303-MW02A-0055			GW303-MW04A-0047			GW303-MW04A-1047			GW303-MW04B-0075		
Sample ID:	Y0ZP0			Y0ZP1		D1	Y0ZP2		D1	Y0ZP3			Y0ZP5		D2	Y0ZP6		D2	Y0ZP7		
Collection Date:	08/21/2003			08/21/2003			08/21/2003			08/25/2003			08/19/2003			08/19/2003			08/19/2003		
Dilution Factor:	1 0			1 0			1.0			25.0			10.0			10 0			20 0		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
DICHLORODIFLUOROMETHANE	10U			10U			10U			250U		C	100U		C	100U		C	200U		C
CHLOROMETHANE	10U			10U			10U			250U			100U			100U			200U		
VINYL CHLORIDE	10U			10U			10U			250U		C	100U		C	100U		C	200U		C
BROMOMETHANE	10U			10U			10U			250U			100U			100U			200U		
CHLOROETHANE	10U			10U			10U			250U		C	100U	J	BC	100U	J	BC	200U	J	BC
TRICHLOROFLUOROMETHANE	10U			10U			10U			430		C	200		C	210		C	400		C
1,1-DICHLOROETHENE	2L	J	A	2L	J	A	2L	J	A	1800		C	610		C	630		C	1400		C
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	10U			10U			10U			1200		C	470		C	570		C	940		C
ACETONE	10JB			10JB			10JB			250U			100JB			100JB			120JB		
CARBON DISULFIDE	10U			10U			10U			250U			100U			100U			200U		
METHYL ACETATE	1J			1J			10U			250U			100U			100U			200U		
METHYLENE CHLORIDE	10JB			10JB			11B			110JB			72JB			160B			400B		
TRANS-1,2-DICHLOROETHENE	10U			10U			10U			250U		C	100U		C	100U		C	200U		C
METHYL TERT-BUTYL ETHER	10U			10U			10U			250U			100U			100U			25J		
1,1-DICHLOROETHANE	10U			10U			10U			250U			100U			100U			200U		
CIS-1,2-DICHLOROETHENE	10U			10U			10U			250U		C	100U		C	100U		C	200U		C
2-BUTANONE	10U			10U			10U			250U			100U			100U			200U		
CHLOROFORM	10U			10U			10U			380			54J			46J			140J		
1,1,1-TRICHLOROETHANE	10U			10U			10U			250U			100U			100U			200U		
CYCLOHEXANE	10U			10U			10U			250U			100U			100U			200U		
CARBON TETRACHLORIDE	10U			10U			10U			250U			100U			100U			200U		
BENZENE	10U			10U			10U			250U		C	100U		C	100U		C	200U		C
1,2-DICHLOROETHANE	10U			10U			10U			41L	J	AC	100U		C	100U		C	200U		C
TRICHLOROETHENE	28			21			24			330		C	350		C	350		C	320		C
METHYLCYCLOHEXANE	10U			10U			10U			250U			100U			100U			200U		
1,2-DICHLOROPROPANE	10U			10U			10U			250U			100U			100U			200U		
BROMODICHLOROMETHANE	10U			10U			10U			250U			100U			100U			200U		
CIS-1,3-DICHLOROPROPENE	10U			10U			10U			250U			100U			100U			200U		
4-METHYL-2-PENTANONE	10U			10U			10U			250U			100U			100U			200U		
TOLUENE	10U			10U			10U			250U		C	100U		C	100U		C	200U		C
TRANS-1,3-DICHLOROPROPENE	10U			10U			10U			250U			100U			100U			200U		
1,1,2-TRICHLOROETHANE	10U			10U			10U			250U			100U			100U			200U		
TETRACHLOROETHENE	3L	J	A	3L	J	A	3L	J	A	2200		C	580		C	580		C	1200		C
2-HEXANONE	10U			10U			10U			250U			100U			100U			200U		
DIBROMOCHLOROMETHANE	10U			10U			10U			250U			100U			100U			200U		
1,2-DIBROMOETHANE	10U			10U			10U			250U			100U			100U			200U		
CHLOROBENZENE	10U			10U			10U			250U			100U			100U			200U		

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No. . 32073 SDG No. Y0ZP5
Site . OMEGA CHEM OU-2
Lab CEIMIC CORPORATION
Reviewer · Santiago Lee, ESAT/LDC
Date October 21, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location	GW303-MW01A-0055			GW303-MW01B-0080			GW303-MW01B-1080			GW303-MW02A-0055			GW303-MW04A-0047			GW303-MW04A-1047			GW303-MW04B-0075		
Sample ID	Y0ZP0			Y0ZP1		D1	Y0ZP2		D1	Y0ZP3			Y0ZP5		D2	Y0ZP6		D2	Y0ZP7		
Collection Date	08/21/2003			08/21/2003			08/21/2003			08/25/2003			08/19/2003			08/19/2003			08/19/2003		
Dilution Factor	1 0			1 0			1 0			25 0			10 0			10 0			20 0		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
ETHYLBENZENE	***10U***			***10U***			***10U***			***250U***		***C***	***100U***		***C***	***100U***		***C***	***200U***		***C***
XYLENES (TOTAL)	***10U***			***10U***			***10U***			***250U***		***C***	***100U***		***C***	***100U***		***C***	***200U***		***C***
STYRENE	10U			10U			10U			250U			100U			100U			28JB		
BROMOFORM	10U			10U			10U			250U			100U			100U			200U		
ISOPROPYLBENZENE	10U			10U			10U			250U			100U			100U			200U		
1,1,2,2-TETRACHLOROETHANE	10U			10U			10U			250U			100U			100U			200U		
1,3-DICHLOROBENZENE	10U			10U			10U			250U			100U			100U			200U		
1,4-DICHLOROBENZENE	10U			10U			10U			250U			100U			100U			200U		
1,2-DICHLOROBENZENE	10U			10U			10U			250U			100U			100U			200U		
1,2-DIBROMO-3-CHLOROPROPANE	10U			10U			10U			250U			100U			100U			200U		
1,2,4-TRICHLOROBENZENE	10U			10U			10U			250U			100U			100U			200U		

Val - Validity Refer to Data Qualifiers in Table 1B
Com - Comments Refer to the Corresponding Section in the Narrative for each letter
CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed
Validated results are presented in bold and italic.

D1, D2, etc - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No. : 32073 SDG No. : Y0ZP5
Site : OMEGA CHEM OU-2
Lab : CEIMIC CORPORATION
Reviewer : Santiago Lee, ESAT/LDC
Date : October 21, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location :	GW303-MW05A-0049			GW303-GW06A-0042			GW303-OW1A-0080			GW303-OW2-0078			GW303-OW3-0080			GW303-OW4B-0125			GW03-OW8-0075		
Sample ID :	Y0ZP9			Y0ZQ0			Y0ZR0			Y0ZR2			Y0ZR3			Y0ZR5			Y0ZS0		
Collection Date :	08/25/2003			08/25/2003			08/26/2003			08/27/2003			08/26/2003			08/27/2003			08/27/2003		
Dilution Factor :	20.0			5.0			1000.0			25.0			25.0			1.0			100.0		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
DICHLORODIFLUOROMETHANE	*200U*		*C*	*50U*		*C*	*10000U*	*J*	*BC*	*250U*		*C*	*250U*		*C*	*10U*			*1000U*		*C*
CHLOROMETHANE	200U			50U			10000U			250U			250U			10U			1000U		
VINYL CHLORIDE	*200U*		*C*	*50U*		*C*	*10000U*		*C*	*250U*		*C*	*250U*		*C*	*10U*			*1000U*		*C*
BROMOMETHANE	200U			50U			10000U			250U			250U			10U			1000U		
CHLOROETHANE	*200U*		*C*	*50U*		*C*	*10000U*	*J*	*BC*	*250U*		*C*	*250U*		*C*	*10U*			*1000U*		*C*
TRICHLOROFLUOROMETHANE	*420*		*C*	*50U*		*C*	*10000U*		*C*	*190L*	*J*	*AC*	*200L*	*J*	*AC*	*3L*	*J*	*A*	*470L*	*J*	*AC*
1,1-DICHLOROETHENE	*1800*		*C*	*12L*	*J*	*AC*	*2000L*	*J*	*ABC*	*1000*		*C*	*1400*		*C*	*20*			*1900*		*C*
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	*1200*		*C*	*50U*		*C*	*10000U*		*C*	*550*		*C*	*350*		*C*	*37*			*1500*		*C*
ACETONE	200U			50U			6100J			250U			250U			43			1000U		
CARBON DISULFIDE	200U			50U			10000U			250U			250U			10U			1000U		
METHYL ACETATE	200U			50U			10000U			250U			250U			10U			1000U		
METHYLENE CHLORIDE	58JB			27JB			20000B			110JB			95JB			10JB			320JB		
TRANS-1,2-DICHLOROETHENE	*200U*	*J*	*BC*	*50U*	*J*	*BC*	*10000U*		*C*	*250U*	*J*	*BC*	*250U*	*J*	*BC*	*10U*	*J*	*B*	*1000U*	*J*	*BC*
METHYL TERT-BUTYL ETHER	200U			50U			10000U			250U			250U			10U			1000U		
1,1-DICHLOROETHANE	200U			50U			10000U			250U			250U			10U			1000U		
CIS-1,2-DICHLOROETHENE	*40L*	*J*	*AC*	*50U*		*C*	*10000U*		*C*	*250U*		*C*	*250U*		*C*	*10U*			*1000U*		*C*
2-BUTANONE	200U			50U			10000U			250U			250U			10U			1000U		
CHLOROFORM	330			50U			10000U			250U			250U			10U			350J		
1,1,1-TRICHLOROETHANE	200U			50U			4700J			250U			250U			10U			1000U		
CYCLOHEXANE	200U			50U			10000U			250U			250U			10U			1000U		
CARBON TETRACHLORIDE	200U			50U			10000U			250U			250U			10U			1000U		
BENZENE	*200U*		*C*	*50U*		*C*	*10000U*		*C*	*250U*		*C*	*250U*		*C*	*10U*			*1000U*		*C*
1,2-DICHLOROETHANE	*26L*	*J*	*AC*	*50U*		*C*	*10000U*		*C*	*250U*		*C*	*250U*		*C*	*10U*			*120L*	*J*	*AC*
TRICHLOROETHENE	*1500*		*C*	*6L*	*J*	*AC*	*2000L*	*J*	*AC*	*170L*	*J*	*AC*	*200L*	*J*	*AC*	*3L*	*J*	*A*	*760L*	*J*	*AC*
METHYLCYCLOHEXANE	200U			50U			10000U			250U			250U			10U			1000U		
1,2-DICHLOROPROPANE	200U			50U			10000U			250U			250U			10U			1000U		
BROMODICHLOROMETHANE	200U			50U			10000U			250U			250U			10U			1000U		
CIS-1,3-DICHLOROPROPENE	200U			50U			10000U			250U			250U			10U			1000U		
4-METHYL-2-PENTANONE	200U			50U			10000U			250U			250U			10U			1000U		
TOLUENE	*200U*		*C*	*50U*		*C*	*10000U*		*C*	*250U*		*C*	*250U*		*C*	*10U*			*1000U*		*C*
TRANS-1,3-DICHLOROPROPENE	200U			50U			10000U			250U			250U			10U			1000U		
1,1,2-TRICHLOROETHANE	200U			50U			10000U			250U			250U			10U			1000U		
TETRACHLOROETHENE	*1800*		*C*	*390*		*C*	*110000*		*C*	*1900*		*C*	*2000*		*C*	*36*			*11000*		*C*
2-HEXANONE	200U			50U			10000U			250U			250U			10U			1000U		
DIBROMOCHLOROMETHANE	200U			50U			10000U			250U			250U			10U			1000U		
1,2-DIBROMOETHANE	200U			50U			10000U			250U			250U			10U			1000U		
CHLOROBENZENE	200U			50U			10000U			250U			250U			10U			1000U		

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No : 32073 SDG No . Y0ZP5
Site : OMEGA CHEM OU-2
Lab . CEIMIC CORPORATION
Reviewer : Santiago Lee, ESAT/LDC
Date : October 21, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location :	GW303-MW05A-0049			GW303-GW06A-0042			GW303-OW1A-0080			GW303-OW2-0078			GW303-OW3-0080			GW303-OW4B-0125			GW03-OW8-0075		
Sample ID :	Y0ZP9			Y0ZQ0			Y0ZR0			Y0ZR2			Y0ZR3			Y0ZR5			Y0ZS0		
Collection Date :	08/25/2003			08/25/2003			08/26/2003			08/27/2003			08/26/2003			08/27/2003			08/27/2003		
Dilution Factor :	20 0			5 0			1000.0			25.0			25.0			1 0			100 0		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
ETHYLBENZENE	***200U***		C	***50U***		C	***10000U***		C	***250U***		C	***250U***		C	***10U***			***1000U***		C
XYLENES (TOTAL)	***200U***		C	***50U***		C	***10000U***		C	***250U***		C	***250U***		C	***10U***			***1000U***		C
STYRENE	200U			50U			10000U			250U			250U			10U			1000U		
BROMOFORM	200U			50U			10000U			250U			250U			10U			1000U		
ISOPROPYLBENZENE	200U			50U			10000U			250U			250U			10U			1000U		
1,1,2,2-TETRACHLOROETHANE	200U			50U			10000U			250U			250U			10U			1000U		
1,3-DICHLOROBENZENE	200U			50U			10000U			250U			250U			10U			1000U		
1,4-DICHLOROBENZENE	200U			50U			10000U			250U			250U			10U			1000U		
1,2-DICHLOROBENZENE	200U			50U			10000U			250U			250U			10U			1000U		
1,2-DIBROMO-3-CHLOROPROPANE	200U			50U			10000U			250U			250U			10U			1000U		
1,2,4-TRICHLOROBENZENE	200U			50U			10000U			250U			250U			10U			1000U		

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed
Validated results are presented in bold and italic.

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No. : 32073 SDG No. : Y0ZP5
Site : OMEGA CHEM OU-2
Lab : CEIMIC CORPORATION
Reviewer : Santiago Lee, ESAT/LDC
Date : October 21, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location :	GW303-MW04B-2001			GW303-MW01A-2003			GW303-MW02A-2005			GW303-OW1A-2006			Method Blank			Method Blank			Method Blank		
Sample ID :	Y0ZS1		TB	Y0ZS3		TB	Y0ZS5		TB	Y0ZS6		TB	VBLKPE			VBLKPF			VBLKPG		
Collection Date :	08/19/2003			08/21/2003			08/25/2003			08/26/2003											
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
DICHLORODIFLUOROMETHANE	***10U***			***10U***			***10U***	***J***	***B***	***10U***	***J***	***B***	***2L***	***J***	***A***	***10U***			***10U***		
CHLOROMETHANE	10U			10U			10U			10U			10U			10U			10U		
VINYL CHLORIDE	***10U***			***10U***			***10U***			***10U***			***10U***			***10U***			***10U***		
BROMOMETHANE	10U			10U			10U			10U			10U			10U			10U		
CHLOROETHANE	***10U***			***10U***			***10U***			***10U***			***10U***			***10U***	***J***	***B***	***10U***		
TRICHLOROFLUOROMETHANE	***10U***			***10U***			***10U***			***10U***			***10U***			***10U***			***10U***		
1,1-DICHLOROETHENE	***10U***			***10U***			***10U***			***10U***			***1L***	***J***	***A***	***10U***			***10U***		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	***10U***			***10U***			***10U***			***10U***			***10U***			***10U***			***10U***		
ACETONE	10JB			10JB			10JB			10JB			4J			5J			7J		
CARBON DISULFIDE	10U			10U			10U			10U			1J			10U			10U		
METHYL ACETATE	10U			10U			10U			10U			10U			10U			10U		
METHYLENE CHLORIDE	12B			20B			10JB			10JB			12			7J			3J		
TRANS-1,2-DICHLOROETHENE	***10U***			***10U***			***10U***			***10U***			***1L***	***J***	***A***	***10U***			***10U***		
METHYL TERT-BUTYL ETHER	10U			10U			10U			10U			10U			10U			10U		
1,1-DICHLOROETHANE	10U			10U			10U			10U			1J			10U			10U		
CIS-1,2-DICHLOROETHENE	***10U***			***10U***			***10U***			***10U***			***1L***	***J***	***A***	***10U***			***10U***		
2-BUTANONE	10U			10U			10U			10U			10U			10U			10U		
CHLOROFORM	10JB			10U			10U			10U			1J			10U			10U		
1,1,1-TRICHLOROETHANE	10U			10U			10U			10U			2J			10U			10U		
CYCLOHEXANE	10U			10U			10U			10U			2J			1J			10U		
CARBON TETRACHLORIDE	10U			10U			10U			10U			2J			1J			10U		
BENZENE	***10U***			***10U***			***10U***			***10U***			***2L***	***J***	***A***	***10U***			***10U***		
1,2-DICHLOROETHANE	***10U***			***10U***			***10U***			***10U***			***10U***			***10U***			***10U***		
TRICHLOROETHENE	***10U***			***10U***			***10U***			***10U***			***2L***	***J***	***A***	***10U***			***10U***		
METHYLCYCLOHEXANE	10U			10U			10U			10U			2J			1J			1J		
1,2-DICHLOROPROPANE	10U			10U			10U			10U			10U			10U			10U		
BROMODICHLOROMETHANE	10U			10U			10U			10U			10U			10U			10U		
CIS-1,3-DICHLOROPROPENE	10U			10U			10U			10U			10U			10U			10U		
4-METHYL-2-PENTANONE	10U			10U			10U			10U			10U			10U			10U		
TOLUENE	***10U***			***10U***			***10U***			***10U***			***2L***	***J***	***A***	***10U***			***10U***		
TRANS-1,3-DICHLOROPROPENE	10U			10U			10U			10U			10U			10U			10U		
1,1,2-TRICHLOROETHANE	10U			10U			10U			10U			10U			10U			10U		
TETRACHLOROETHENE	***10U***			***10U***			***10U***			***10U***			***2L***	***J***	***A***	***10U***			***10U***		
2-HEXANONE	10U			10U			10U			10U			10U			10U			10U		
DIBROMOCHLOROMETHANE	10U			10U			10U			10U			10U			10U			10U		
1,2-DIBROMOETHANE	10U			10U			10U			10U			10U			10U			10U		
CHLOROBENZENE	10U			10U			10U			10U			2J			10U			10U		

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No.: 32073 SDG No.: Y0ZP5
Site: OMEGA CHEM OU-2
Lab: CEIMIC CORPORATION
Reviewer: Santiago Lee, ESAT/LDC
Date: October 21, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type: Low Level Water Samples For Volatiles

Station Location:	GW303-MW04B-2001			GW303-MW01A-2003			GW303-MW02A-2005			GW303-OW1A-2006			Method Blank			Method Blank			Method Blank		
Sample ID:	Y0ZS1		TB	Y0ZS3		TB	Y0ZS5		TB	Y0ZS6		TB	VBLKPE			VBLKPF			VBLKPG		
Collection Date:	08/19/2003			08/21/2003			08/25/2003			08/26/2003											
Dilution Factor:	1.0			1.0			1.0			1.0			1.0			1.0			1 0		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
ETHYLBENZENE	***10U***			***10U***			***10U***			***10U***			***1L***	***J***	***A***	***10U***			***10U***		
XYLENES (TOTAL)	***10U***			***10U***			***10U***			***10U***			***4L***	***J***	***A***	***2L***	***J***	***A***	***1L***	***J***	***A***
STYRENE	10U			10U			10U			10U			2J			2J			1J		
BROMOFORM	10U			10U			10U			10U			10U			10U			10U		
ISOPROPYLBENZENE	10U			10U			10U			10U			2J			10U			10U		
1,1,2,2-TETRACHLOROETHANE	10U			10U			10U			10U			10U			10U			10U		
1,3-DICHLOROBENZENE	10U			10U			10U			10U			1J			10U			10U		
1,4-DICHLOROBENZENE	10U			10U			10U			10U			1J			10U			10U		
1,2-DICHLOROBENZENE	10U			10U			10U			10U			10U			10U			10U		
1,2-DIBROMO-3-CHLOROPROPANE	10U			10U			10U			10U			10U			10U			10U		
1,2,4-TRICHLOROBENZENE	10U			10U			10U			10U			1J			10U			10U		

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed
Validated results are presented in bold and italic.

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No. : 32073 SDG No. : Y0ZP5
Site : OMEGA CHEM OU-2
Lab : CEIMIC CORPORATION
Reviewer : Santiago Lee, ESAT/LDC
Date : October 21, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location :	Method Blank			Method Blank			Method Blank			Method Blank			Storage Blank								
Sample ID :	VBLKPL			VBLKPO			VBLKQC			VBLKQD			VHBLK01			CRQL					
Collection Date .																					
Dilution Factor :	1.0			1.0			1.0			1.0			1 0								
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
DICHLORODIFLUOROMETHANE	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*			*10U*			*10U*			*10*					
CHLOROMETHANE	10U			10U			10U			10U			10U			10					
VINYL CHLORIDE	*10U*			*10U*			*10U*			*10U*			*10U*			*10*					
BROMOMETHANE	10U			10U			10U			10U			10U			10					
CHLOROETHANE	*10U*			*10U*	*J*	*B*	*10U*			*10U*			*10U*			*10*					
TRICHLOROFLUOROMETHANE	*10U*			*10U*			*10U*			*10U*			*10U*			*10*					
1,1-DICHLOROETHENE	*10U*			*10U*	*J*	*B*	*10U*			*10U*			*10U*			*10*					
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	*10U*			*10U*			*10U*			*10U*			*10U*			*10*					
ACETONE	4J			10U			10U			10U			10U			10					
CARBON DISULFIDE	10U			10U			10U			10U			10U			10					
METHYL ACETATE	10U			10U			10U			10U			10U			10					
METHYLENE CHLORIDE	11			2J			1J			1J			2JB			10					
TRANS-1,2-DICHLOROETHENE	*10U*			*10U*			*10U*			*10U*	*J*	*B*	*10U*	*J*	*B*	*10*					
METHYL TERT-BUTYL ETHER	10U			10U			10U			10U			10U			10					
1,1-DICHLOROETHANE	10U			10U			10U			10U			10U			10					
CIS-1,2-DICHLOROETHENE	*10U*			*10U*			*10U*			*10U*			*10U*			*10*					
2-BUTANONE	10U			10U			10U			10U			10U			10					
CHLOROFORM	10U			10U			10U			10U			10U			10					
1,1,1-TRICHLOROETHANE	10U			10U			10U			10U			10U			10					
CYCLOHEXANE	10U			10U			10U			10U			10U			10					
CARBON TETRACHLORIDE	10U			10U			10U			10U			10U			10					
BENZENE	*10U*			*10U*			*10U*			*10U*			*10U*			*10*					
1,2-DICHLOROETHANE	*10U*			*10U*			*10U*			*10U*			*10U*			*10*					
TRICHLOROETHENE	*10U*			*10U*			*10U*			*10U*			*10U*			*10*					
METHYLCYCLOHEXANE	10U			10U			10U			10U			10U			10					
1,2-DICHLOROPROPANE	10U			10U			10U			10U			10U			10					
BROMODICHLOROMETHANE	10U			10U			10U			10U			10U			10					
CIS-1,3-DICHLOROPROPENE	10U			10U			10U			10U			10U			10					
4-METHYL-2-PENTANONE	10U			10U			10U			10U			10U			10					
TOLUENE	*10U*			*10U*			*10U*			*10U*			*10U*			*10*					
TRANS-1,3-DICHLOROPROPENE	10U			10U			10U			10U			10U			10					
1,1,2-TRICHLOROETHANE	10U			10U			10U			10U			10U			10					
TETRACHLOROETHENE	*10U*			*10U*			*10U*			*10U*			*10U*			*10*					
2-HEXANONE	10U			10U			10U			10U			10U			10					
DIBROMOCHLOROMETHANE	10U			10U			10U			10U			10U			10					
1,2-DIBROMOETHANE	10U			10U			10U			10U			10U			10					
CHLOROBENZENE	10U			10U			10U			10U			10U			10					

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No.: 32073 SDG No.: Y0ZP5
Site: OMEGA CHEM OU-2
Lab: CEIMIC CORPORATION
Reviewer: Santiago Lee, ESAT/LDC
Date: October 21, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type: Low Level Water Samples For Volatiles

Station Location:	Method Blank			Method Blank			Method Blank			Method Blank			Storage Blank								
Sample ID:	VBLKPL			VBLKPO			VBLKQC			VBLKQD			VHBLK01			CRQL					
Collection Date:																					
Dilution Factor:	1.0			1.0			1.0			1.0			1.0								
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
ETHYLBENZENE	***10U***			***10U***			***10U***			***10U***			***10U***			***10***					
XYLENES (TOTAL)	***10U***			***10U***			***10U***			***10U***			***10U***			***10***					
STYRENE	10U			10U			10U			10U			10U			10					
BROMOFORM	10U			10U			10U			10U			10U			10					
ISOPROPYLBENZENE	10U			10U			10U			10U			10U			10					
1,1,2,2-TETRACHLOROETHANE	10U			10U			10U			10U			10U			10					
1,3-DICHLOROBENZENE	10U			10U			10U			10U			10U			10					
1,4-DICHLOROBENZENE	10U			10U			10U			10U			10U			10					
1,2-DICHLOROBENZENE	10U			10U			10U			10U			10U			10					
1,2-DIBROMO-3-CHLOROPROPANE	10U			10U			10U			10U			10U			10					
1,2,4-TRICHLOROBENZENE	10U			10U			10U			10U			10U			10					

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed
Validated results are presented in bold and italic.

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October 1999.

U	The analyte was analyzed for but was not detected above the reported sample quantitation limit.
L	Indicates results which fall below the Contract Required Quantitation Limit. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 2
Calibration Summary

Case No.: 32073 SDG No.: Y0ZP5
Site: Omega Chem OU-2
Laboratory: CEIMIC Corporation
Reviewer: Santiago Lee, ESAT/LDC
Date: October 21, 2003

PERCENT DIFFERENCES

	%D	%D	%D	%D
Analysis Date:	08/28/03	09/02/03	09/04/03	09/05/03
Analysis Time:	17:16	17:06	09:09	09:52
GC/MS I.D.:	MS16	MS16	MS16	MS17
Analyte	Cont.	Cont.	Cont.	Cont.
Dichlorodifluoromethane	------	-29.4	-34.6	-----
Chloroethane	-26.0	-----	-25.2	-----
1,1-Dichloroethene	-----	-----	-25.6	-----
trans-1,2-Dichloroethene	-----	-----	-----	-26.1

- = RRF biased low; + = RRF biased high.

ASSOCIATED SAMPLES AND METHOD BLANKS

Continuing, 08/28/03 (17:16): Y0ZP5, Y0ZP6, Y0ZP7; VBLKPF
Continuing, 09/02/03 (17:06): Y0ZS5, Y0ZS6; VBLKPL
Continuing, 09/04/03 (09:09): Y0ZR0; VBLKPO
Continuing, 09/05/03 (09:52): Y0ZP9, Y0ZQ0, Y0ZR2, Y0ZR3, Y0ZR5, Y0ZS0; VHBLK01; VBLKQD

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32073 SAS No.: SDG No.: Y0ZP5

Instrument ID: MS16 Calibration Date: 08/27/03 Time: 2225

Lab File ID: P9436 Init. Calib. Date(s): 08/26/03 08/26/03

EPA Sample No.(VSTD050##): VSTD050PD Init. Calib. Times: 1100 1347

Heated Purge: (Y/N) N

GC Column: RTX-624 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	1.276	1.161		-9.0	
Chloromethane	2.569	2.189		-14.8	
Vinyl Chloride	2.080	1.907	0.100	-8.3	25.0
Bromomethane	1.098	0.724	0.100	-34.1	25.0
Chloroethane	1.271	1.054		-17.1	
Trichlorofluoromethane	1.443	1.263		-12.5	
1,1-Dichloroethene	1.261	1.377	0.100	9.2	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.378	1.191		-13.6	
Acetone	1.213	1.058		-12.8	
Carbon Disulfide	4.444	4.295		-3.4	
Methyl Acetate	1.815	1.444		-20.4	
Methylene Chloride	2.842	2.267		-20.2	
trans-1,2-Dichloroethene	1.677	1.619		-3.5	
Methyl tert-Butyl Ether	4.010	3.870		-3.5	
1,1-Dichloroethane	3.125	2.863	0.200	-8.4	25.0
cis-1,2-Dichloroethene	1.931	1.956		1.3	
2-Butanone	1.443	1.482		2.7	
Chloroform	2.734	2.678	0.200	-2.0	25.0
1,1,1-Trichloroethane	0.285	0.265	0.100	-7.0	25.0
Cyclohexane	0.550	0.543		-1.3	
Carbon Tetrachloride	0.250	0.230	0.100	-8.0	25.0
Benzene	1.227	1.348	0.500	9.9	25.0
1,2-Dichloroethane	1.912	1.699	0.100	-11.1	25.0
Trichloroethene	0.306	0.342	0.300	11.8	25.0
Methylcyclohexane	0.504	0.489		-3.0	

All other compounds must meet a minimum RRF of 0.010.

Amended AF 10/13/03

321

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32073 SAS No.: SDG No.: Y0ZP5

Instrument ID: MS16 Calibration Date: 08/27/03 Time: 2225

Lab File ID: P9436 Init. Calib. Date(s): 08/26/03 08/26/03

EPA Sample No.(VSTD050##): VSTD050PD Init. Calib. Times: 1100 1347

Heated Purge: (Y/N) N

GC Column: RTX-624 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.324	0.313		-3.4	
Bromodichloromethane	0.357	0.332	0.200	-7.0	25.0
cis-1,3-Dichloropropene	0.478	0.473	0.200	-1.0	25.0
4-Methyl-2-Pentanone	0.428	0.397		-7.2	
Toluene	1.344	1.481	0.400	10.2	25.0
trans-1,3-Dichloropropene	0.410	0.385	0.100	-6.1	25.0
1,1,2-Trichloroethane	0.273	0.250	0.100	-8.4	25.0
Tetrachloroethene	0.259	0.269	0.200	3.9	25.0
2-Hexanone	0.334	0.350		4.8	
Dibromochloromethane	0.272	0.259	0.100	-4.8	25.0
1,2-Dibromoethane	0.310	0.280		-9.7	
Chlorobenzene	0.931	0.984	0.500	5.7	25.0
Ethylbenzene	0.485	0.477	0.100	-1.6	25.0
Xylene (Total)	0.624	0.617		-1.1	
Styrene	1.096	1.049	0.300	-4.3	25.0
Bromoform	0.193	0.174	0.100	-9.8	25.0
Isopropylbenzene	1.488	1.369		-8.0	
1,1,2,2-Tetrachloroethane	0.419	0.377	0.300	-10.0	25.0
1,3-Dichlorobenzene	0.741	0.684	0.600	-7.7	25.0
1,4-Dichlorobenzene	0.756	0.689	0.500	-8.9	25.0
1,2-Dichlorobenzene	0.698	0.638	0.400	-8.6	25.0
1,2-Dibromo-3-chloropropane	0.057	0.046		-19.3	
1,2,4-Trichlorobenzene	0.434	0.414	0.200	-4.6	25.0
Toluene-d8	1.011	1.081		6.9	
Bromofluorobenzene	0.414	0.418	0.200	1.0	25.0
1,2-Dichloroethane-d4	1.616	1.424		-11.9	

All other compounds must meet a minimum RRF of 0.010.

Amended 8/13/0

322

In Reference to
Case 32073, SDG# Y0ZP5 and Y0ZR6

Contract Laboratory program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: October 13, 2003

Laboratory Name: CEIMIC

Lab Contact: Henry Leibovitz

Region: 9

Regional Contact: Steve Remaley, CLP PO

ESAT Reviewer: Santiago Lee, ESAT/Laboratory Data Consultants

Call Initiated By: _____ Laboratory ___X___ Region

In reference to data for the following sample(s):

SDG No.: Y0ZP5 and Y0ZR6 (VOA)

Summary of Questions/issues Discussed:

The following item was noted during the review of this sample delivery group (SDG). Please respond within 7 days as specified in Section 2.2 of Exhibit B of the OLM04.2 Statement of Work (SOW). Send response and resubmissions to ICF Consulting/Laboratory Data Consultants, Environmental Services Assistance Team, USEPA Region 9 Laboratory, 1337 S. 46th Street, Building 201, Richmond, CA 94804, FAX 510 412-2304.

1) Y0ZP5: Relative response factors (RRFs) on Forms 7A and 7B for the 8/27/03 continuing calibration (Lab File ID = P9436) are incorrect (see pages 312 and 322 of data package); RRFs for the 50 ug/L standard in 8/26/03 initial calibration (Lab File ID = P9387) are mistakenly reported. Please submit revised Form 7 and electronic data deliverable for the 8/27/03 continuing calibration.

2) In order to fully validate the data packages, Region 9 requests the following information for all standards (calibration and QC): expiration date of standard, preparation date, lot number, standard sources, concentration and volume of spiking and LCS Solutions. Please provide the above listed data.

Summary of Resolution: To be determined.

_____ _____
Regional Contact Signature Date of Resolution

Distribution: (original)ESAT; (1)Lab copy, (2)Regional Copy, (3)CLASS copy

ICF Consulting / Laboratory Data Consultants
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300 Fax: (510) 412-2304

MEMORANDUM

TO: Chris Lichens, Remedial Project Manager
Site Cleanup Section 4, SFD-7-4

THROUGH: Rose Fong, ESAT Project Officer
Quality Assurance (QA) Office, PMD-3

FROM: Doug Lindelof, Data Review and QA Document Review Task Manager
Environmental Services Assistance Team (ESAT)

ESAT Contract No.: 68-W-01-028
Task Order: 005
Technical Direction No.: 00505002

DATE: October 27, 2003

SUBJECT: Review of Analytical Data, Tier 2

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

SITE:	Omega Chem OU-2
SITE ACCOUNT NO.:	09 BC LA02
CERCLIS ID NO.:	CAD042245001
CASE NO.:	32073
SDG NO.:	Y0ZP8
LABORATORY:	Mitkem Corporation (MITKEM)
ANALYSIS:	Volatiles
SAMPLES:	19 Water Samples
COLLECTION DATE:	August 19, 20, 21, 22, 26, and 27, 2003
REVIEWER:	Santiago Lee, ESAT/Laboratory Data Consultants (LDC)

This report has been reviewed by the EPA Task Order Project Officer (TOPO) for the ESAT Contract, whose signature appears above.

If there are any questions, please contact Rose Fong (QA Program/EPA) at (415) 972-3812.

Attachment

cc: Jennie Han-Liu, CLP PO USEPA Region 1
Steve Remaley, CLP PO USEPA Region 9
ESAT File

CLP PO: [ ] FYI [X] Attention [ ] Action

SAMPLING ISSUES: [X] Yes [ ] No

Data Validation Report - Tier 2

Case No.:	32073	SDG No.:	Y0ZP8
Site:	Omega Chem OU-2		
Laboratory:	Mitkem Corporation (MITKEM)		
Reviewer:	Santiago Lee, ESAT/LDC		
Date:	October 27, 2003		

I. Case Summary

SAMPLE INFORMATION:

Samples:	Y0XT0, Y0ZP4, Y0ZP8, Y0ZQ1 through Y0ZQ9, Y0ZR1, Y0ZR4, Y0ZR9, Y0ZS2, Y0ZS4, Y0ZS7, and Y0ZS9
Concentration and Matrix:	Low Concentration Water
Analysis:	Volatiles
SOW:	OLC03.2
Collection Date:	August 19, 20, 21, 22, 26, and 27, 2003
Sample Receipt Date:	August 21, 22, 23, and 28, 2003
Extraction Date:	Not Applicable
Analysis Date:	August 25, 26, and 28, 2003 and September 4, 5, and 6, 2003

FIELD QC:

Trip Blanks (TB):	Y0XT0, Y0ZS2, Y0ZS4, and Y0ZS7
Field Blanks (FB):	Not Provided
Equipment Blanks (EB):	Y0ZS9
Background Samples (BG):	Not Provided
Field Duplicates (D1):	Not Provided

METHOD BLANKS AND ASSOCIATED SAMPLES:

VBLK1R:	Y0ZP8, Y0ZQ2, and Y0ZQ8
VBLK1S:	Y0ZQ3, Y0ZQ4, Y0ZQ5, Y0ZS2, Y0ZQ8DL, Y0ZP8DL, and Y0ZQ2DL
VBLK1T:	Y0ZQ5DL, Y0XT0, Y0ZP4, Y0ZQ1, Y0ZQ6, Y0ZQ7, Y0ZQ9, Y0ZS4, Y0ZQ1DL, and Y0ZQ6DL
VBLK5N:	Y0ZR1
VBLK5P:	Y0ZR1DL, Y0ZR4, and Y0ZR9
VBLK5Q:	Y0ZS7, Y0ZS9, YZR4DL, Y0ZR9DL, and VHBLK5Q

TABLES:

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review

CLP PO ACTION:

None.

CLP PO ATTENTION:

1) Detected results and quantitation limits for some analytes are qualified as estimated (J) due to continuing calibration problems.

2) Detected results and quantitation limits for some analytes are qualified as estimated (J) due to deuterated monitoring compound (DMC) recovery problems.

3) Detected results and quantitation limits for some analytes are qualified as estimated (J) due to internal standard (IS) area problems.

SAMPLING ISSUES:

Sample Y0ZQ3 was designated for "laboratory QC" on the Traffic Report and Chain of Custody Record (TR/COC). The Sample Management Office (SMO) informed the laboratory that no MS/MSD was required for Region 9 volatile OLC03.2 analysis.

ADDITIONAL COMMENTS:

1,1-Dichloroethene (0.65 μg/L) and trichloroethene (0.53 μg/L) detected in sample Y0ZR9 may be due to carry-over from sample Y0ZR4 (110 μg/L and 32 μg/L, respectively) because no instrument blank separated these consecutively analyzed samples.

As directed by the EPA Task Order Project Officer (TOPO), a Tier 2 review (Tier 3-level review of tetrachloroethene and its degradation products [i.e., trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, 1,1-dichloroethene, 1,2-dichloroethane, chloroethane, and vinyl chloride], Freons, and benzene, toluene, ethylbenzene, and xylenes [BTEX]) was performed.

This report was prepared in accordance with the following documents:

- ESAT Region 9 Standard Operating Procedure 901, *Guidelines for Data Review of Contract Laboratory Program Analytical Services (CLPAS) Volatile and Semivolatile Data Packages*;
- *USEPA Contract Laboratory Program Statement of Work for Analysis of Low Concentration Organic,* OLC03.2, December 2000; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Low Concentration Organic Data Review*, June 2001.

II. Validation Summary

	Acceptable/Comment	
HOLDING TIMES/PRESERVATION	NO	E
GC/MS TUNE/GC PERFORMANCE	YES	
INITIAL CALIBRATIONS	YES	
CONTINUING CALIBRATIONS	NO	B
LABORATORY BLANKS	YES	
FIELD BLANKS	YES	
DEUTERATED MONITORING COMPOUNDS	NO	C
MATRIX SPIKE/DUPLICATES	N/A	
LABORATORY CONTROL SAMPLE/DUPLICATES	N/A	
INTERNAL STANDARDS	NO	D
COMPOUND IDENTIFICATION	YES	
COMPOUND QUANTITATION	YES	A, F
SYSTEM PERFORMANCE	YES	
FIELD DUPLICATE SAMPLE ANALYSIS	N/A	

N/A = Not Applicable

III. Validity and Comments

A. The following results, denoted with an "L" qualifier, are estimated and flagged "J" in Table 1A.

- All results below the contract required quantitation limits

Results below the contract required quantitation limits (CRQLs) are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection.

B. Detected results and quantitation limits for the following analytes are qualified as estimated due to large percent differences (%Ds) in the continuing calibration, and are flagged "J" in Table 1A.

- Dichlorodifluoromethane, trichlorofluoromethane, 1,1,2-trichloro-1,2,2-trifluoroethane in samples Y0ZQ3, Y0ZQ4, Y0ZQ5, and Y0ZS2 and method blank VBLK1S

Percent differences of +31.4%, +42.7%, and -35.6% were observed for dichlorodifluoromethane, trichlorofluoromethane, 1,1,2-trichloro-1,2,2-trifluoroethane, respectively, in the continuing calibration performed on August 26, 2003. These values exceed the ±30.0% validation criterion.

The DMC 1,1-dichloroethene-d2 (-46.8%) also had a %D that exceeded the ±30.0% validation criterion in the continuing calibration performed on August 26, 2003. Quantitation of the analytes associated with this DMC (trans-1,2-dichloroethene and cis-1,2-dichloroethene) may have been affected by the high %D.

The continuing calibration checks the instrument performance daily and produces the relative response factors (RRFs) for target analytes that are used for quantitation.

C. Detected results and quantitation limits for the following analytes are qualified as estimated due to DMC recoveries outside QC limits, and are flagged "J" in Table 1A.

{1,1-Dichloroethene-d2}
- cis-1,2-Dichloroethene in samples Y0ZQ4 and Y0ZQ8

{1,2-Dichloroethane-d4}
- 1,1-Dichloroethene and 1,1,2-trichloro-1,2,2-trifluoroethane in samples Y0ZQ1 and Y0ZQ6
- 1,1-Dichloroethene in sample Y0ZQ9

{Toluene-d8}
- Trichloroethene, toluene, tetrachloroethene, ethylbenzene, and xylenes (total) in sample Y0ZQ5
- Trichloroethene and tetrachloroethene in samples Y0ZR4 and Y0ZR9

DMC recoveries outside QC limits for the analytes listed above are shown below.

Sample	DMC	% Recovery	QC Limits
Y0ZQ4	1,1-Dichloroethene-d2	146	65-130
Y0ZQ8	1,1-Dichloroethene-d2	180	65-130
Y0ZQ1	1,2-Dichloroethane-d4	136	78-129
Y0ZQ6	1,2-Dichloroethane-d4	138	78-129
Y0ZQ9	1,2-Dichloroethane-d4	134	78-129
Y0ZQ5	Toluene-d8	74	77-120
Y0ZR4	Toluene-d8	124	77-120
Y0ZR9	Toluene-d8	132	77-120

Detected results for affected analytes where DMC recoveries fell below QC limits may be biased low; where results are nondetected, false negatives may exist. Detected results for affected analytes where DMC recoveries exceeded QC limits may be biased high. For DMC recoveries that exceeded QC limits, only detected results for associated analytes are qualified. The samples were not reanalyzed.

Surrogates (e.g., deuterated monitoring compounds (DMCs)) are organic compounds which are similar to the target analytes in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. All samples are spiked with DMCs prior to purging. DMCs provide information about both the laboratory performance on individual samples and the possible effects of the sample matrix on the analytical results.

D. Detected results and quantitation limits for the following analytes are qualified as estimated due to low internal standard areas, and are flagged "J" in Table 1A.

{Chlorobenzene-d5}

- Benzene, trichloroethene, toluene, tetrachloroethene, ethylbenzene, and xylenes (total) in samples Y0ZR4 and Y0ZR9

Internal standard areas outside QC limit for the analytes listed above are shown below.

Sample	Internal Standard	Area	QC Limits
Y0ZR4	1,4-Dichlorobenzene-d_4	555,415	597,206-1,393,481
Y0ZR9	1,4-Dichlorobenzene-d_4	545,797	597,206-1,393,481

Detected results and quantitaion limits for the affected analytes are considered quantitatively questionable. Where results are nondetected, false negatives may exist. The samples were not reanalyzed.

Internal standards, introduced into every calibration standard, blank, sample, and QC sample, monitor changes in analyte response due to matrix effects and fluctuations in instrument sensitivity throughout the analytical sequence. Internal standards are used to quantitate the concentration of target analytes and surrogate standards.

E. Detected results and quantitation limits for the following analytes are qualified as estimated due to an air bubble in the samples, and are flagged "J" in Table 1A.

- All analytes in samples Y0XT0 and Y0ZS2

Samples Y0ZS2 and Y0XT0 (trip blanks) were received with an air bubble, about the size of a quarter, in all of the vials. Detected results for the samples listed above may be biased low. Where the results are nondetected, false negatives may exist.

F. Samples Y0ZP8 and Y0ZQ5 were reanalyzed at 6-fold and 2-fold dilution, respectively, due to high levels of trichloroethene that exceeded the calibration range. Results for trichloroethene are reported from the diluted samples in Table 1A; results for all other analytes are reported from the undiluted samples.

Samples Y0ZQ1, Y0ZQ8, and Y0ZR1 were reanalyzed at 2-fold, 3-fold, and 10-fold dilution, respectively, due to high levels of tetrachloroethene that exceeded the calibration range. Results for tetrachloroethene are reported from the diluted samples in Table 1A; results for all other analytes are reported from the undiluted samples.

Samples Y0ZQ2 and Y0ZQ6 were reanalyzed at 20-fold dilutions due to high levels of trichloroethene and tetrachloroethene that exceeded the calibration range. Results for these analytes are reported from the diluted samples in Table 1A; results for all other analytes are reported from the undiluted samples.

Sample Y0ZR4 was reanalyzed at a 10-fold dilution due to high levels of trichlorofluoromethane, 1,1-dichloroethene, 1,1,2-trichloro-1,2,2-trifluoroethane, trichloroethene, and tetrachloroethene that exceeded the calibration range. Results for these analytes are reported from the diluted sample in Table 1A; results for all other analytes are reported from the undiluted sample.

Sample Y0ZR9 was reanalyzed at a 5-fold dilution due to high levels of trichlorofluoromethane and 1,1,2-trichloro-1,2,2-trifluoroethane that exceeded the calibration range. Results for these analytes are reported from the diluted sample in Table 1A; results for all other analytes are reported from the undiluted sample.

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No : 32073 SDG No : Y0ZP8
Site . OMEGA CHEM OU-2
Lab . MITKEM CORPORATION
Reviewer . Santiago Lee, ESAT/LDC
Date : October 27, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location .	GW303-MW09A-2009			GW303-MW03A-0042			GW303-MW04C-0094			GW303-MW07A-0041			GW303-MW08A-0040			GW303-MW08B-0070			GW303-MW08C-0087		
Sample ID .	Y0XT0		TB	Y0ZP4			Y0ZP8			Y0ZQ1			Y0ZQ2			Y0ZQ3			Y0ZQ4		
Collection Date :	08/21/2003			08/22/2003			08/19/2003			08/21/2003			08/20/2003			08/20/2003			08/20/2003		
Dilution Factor ·	1 0			1 0			1 0			1 0			1 0			1 0			1 0		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Dichlorodifluoromethane	*0.50U*	*J*	*E*	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*	*J*	*B*	*0.50U*	*J*	*B*
Chloromethane	0 50U	J	E	0 50U			0.50U			0.50U			0.50U			0.50U			0 50U		
Vinyl Chloride	*0.50U*	*J*	*E*	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*		
Bromomethane	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
Chloroethane	*0.50U*	*J*	*E*	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*		
Trichlorofluoromethane	*0.50U*	*J*	*E*	*0.50U*			*4.1*			*0.50U*			*0.50U*			*0.50U*	*J*	*B*	*0.50U*	*J*	*B*
1,1-Dichloroethene	*0.50U*	*J*	*E*	*0.50U*			*3.6*			*0.65*	*J*	*C*	*4.3*			*0.50U*			*1.5*		
1,1,2-Trichloro-1,2,2-trifluoroethane	*0.50U*	*J*	*E*	*0.50U*			*11*			*2.2*	*J*	*C*	*0.50U*			*0.50U*	*J*	*B*	*0.50U*	*J*	*B*
Acetone	5 0U	J	E	5 0U			5 0U			5 0U			5 0U			5 0U			5 0U		
Carbon Disulfide	0 50U	J	E	0.50U			0.50U			0 50U			0.50U			0 50U			0.50U		
Methyl Acetate	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
Methylene Chloride	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0.50U		
trans-1,2-Dichloroethene	*0.50U*	*J*	*E*	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*		
Methyl tert-Butyl Ether	0.50U	J	E	0 50U			0.50U			0 50U			0 50U			0 50U			0 50U		
1,1-Dichloroethane	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
cis-1,2-Dichloroethene	*0.50U*	*J*	*E*	*0.50U*			*0.58*			*1.8*			*5.7*			*0.61*			*1.1*	*J*	*C*
2-Butanone	5 0U	J	E	5 0U			5 0U			5 0U			5 0U			5 0U			5 0U		
Bromochloromethane	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
Chloroform	0 39J	J	E	0 50U			1.1			0 46J			0 50U			0 50U			0 50U		
1,1,1-Trichloroethane	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
Cyclohexane	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
Carbon Tetrachloride	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
Benzene	*0.50U*	*J*	*E*	*0 50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*		
1,2-Dichloroethane	*0.50U*	*J*	*E*	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*		
Trichloroethene	*0.50U*	*J*	*E*	*0.50U*			*68*		*F*	*3.5*			*27*		*F*	*1 6*			*1.7*		
Methylcyclohexane	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1,2-Dichloropropane	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
Bromodichloromethane	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
cis-1,3-Dichloropropene	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
4-Methyl-2-pentanone	5 0U	J	E	5 0U			5 0U			5 0U			5 0U			5 0U			5 0U		
Toluene	*0.50U*	*J*	*E*	*0.50U*			*0.50U*			*0.50U*			*0 50U*			*0.50U*			*0.50U*		
trans-1,3-Dichloropropene	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1,1,2-Trichloroethane	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
Tetrachloroethene	*0.50U*	*J*	*E*	*0.50U*			*16*			*32*		*F*	*170*		*F*	*7.4*			*8.3*		
2-Hexanone	5 0U	J	E	5 0U			5 0U			5 0U			5 0U			5 0U			5 0U		
Dibromochloromethane	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1,2-Dibromoethane	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No 32073 SDG No Y0ZP8
Site OMEGA CHEM OU-2
Lab MITKEM CORPORATION
Reviewer Santiago Lee, ESAT/LDC
Date October 27, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location	GW303-MW09A-2009			GW303-MW03A-0042			GW303-MW04C-0094			GW303-MW07A-0041			GW303-MW08A-0040			GW303-MW08B-0070			GW303-MW08C-0087		
Sample ID	Y0XT0		TB	Y0ZP4			Y0ZP8			Y0ZQ1			Y0ZQ2			Y0ZQ3			Y0ZQ4		
Collection Date	08/21/2003			08/22/2003			08/19/2003			08/21/2003			08/20/2003			08/20/2003			08/20/2003		
Dilution Factor	1 0			1 0			1 0			1 0			1 0			1 0			1 0		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Chlorobenzene	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
Ethylbenzene	***0.50U***	***J***	***E***	***0.50U***			***0.50U***			***0.50U***			***0.50U***			***0.50U***			***0.50U***		
Xylenes (total)	***0 50U***	***J***	***E***	***0.50U***			***0.50U***			***0.50U***			***0.50U***			***0.50U***			***0 50U***		
Styrene	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
Bromoform	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
Isopropylbenzene	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1,1,2,2-Tetrachloroethane	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1,3-Dichlorobenzene	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1,4-Dichlorobenzene	0 35J	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1,2-Dichlorobenzene	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1,2-Dibromo-3-chloropropane	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1,2,4-Trichlorobenzene	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1,2,3-Trichlorobenzene	0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		

Val - Validity Refer to Data Qualifiers in Table 1B
Com - Comments Refer to the Corresponding Section in the Narrative for each letter
CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed
Validated results are presented in bold and italic.

D1, D2, etc - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No. : 32073 SDG No : Y0ZP8
Site . OMEGA CHEM OU-2
Lab : MITKEM CORPORATION
Reviewer : Santiago Lee, ESAT/LDC
Date : October 27, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples
For Volatiles

Station Location :	GW303-MW08D-0116			GW303-MW09A-0032			GW303-MW09B-0054			GW303-MW10A-0057			GW303-MW11A-0045			GW303-OW1B-0116			GW303-OW4A-0073		
Sample ID :	Y0ZQ5			Y0ZQ6			Y0ZQ7			Y0ZQ8			Y0ZQ9			Y0ZR1			Y0ZR4		
Collection Date :	08/20/2003			08/21/2003			08/21/2003			08/19/2003			08/22/2003			08/26/2003			08/27/2003		
Dilution Factor :	1 0			1 0			1.0			1.0			1 0			1 0			1 0		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Dichlorodifluoromethane	*0.50U*	*J*	*B*	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*		
Chloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Vinyl Chloride	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.54*			*0.50U*		
Bromomethane	0 50U			0.50U			0.50U			0.50U			0 50U			0.50U			0.50U		
Chloroethane	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*		
Trichlorofluoromethane	*0.50U*	*J*	*B*	*0.50U*			*0.50U*			*8.5*			*0.50U*			*0.78*			*34*		*F*
1,1-Dichloroethene	*0.50U*			*1.1*	*J*	*C*	*0.50*			*11*			*0.54*	*J*	*C*	*3.2*			*110*		*F*
1,1,2-Trichloro-1,2,2-trifluoroethane	*0.50U*	*J*	*B*	*0.46L*	*J*	*AC*	*0.50U*			*14*			*0.50U*			*3.3*			*73*		*F*
Acetone	5 0U			5.0U			5 0U			5.0U			5.0U			5 0U			15		
Carbon Disulfide	0.50U			0 50U			0.50U			0.50U			0.50U			0 50U			0.50U		
Methyl Acetate	0.50U			0 50U			0 50U			0 50U			0.50U			0.50U			0 50U		
Methylene Chloride	0 50U			0.50U			0.50U			0.50U			0.50U			0.84B			0.50U		
trans-1,2-Dichloroethene	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*		
Methyl tert-Butyl Ether	0.50U			0 84			0.82			1.8			0.34J			0 50U			0 50U		
1,1-Dichloroethane	0 50U			0 50U			0.50U			0.50U			0 39J			0 66			0 50U		
cis-1,2-Dichloroethene	*0.50U*			*0.54*			*0.50U*			*0.76*	*J*	*C*	*1.7*			*0.69*			*0.50U*		
2-Butanone	5 0U			5 0U			5 0U			5 0U			5 0U			5 0U			5 0U		
Bromochloromethane	0 50U			0 50U			0 50U			0.50U			0 50U			0.50U			0.50U		
Chloroform	0 50U			0 50U			0.50U			0.85			0 70			0 65			24		
1,1,1-Trichloroethane	0 50U			0.50U			0.50U			0.50U			0 50U			1 5			0 58		
Cyclohexane	0.50U			0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
Carbon Tetrachloride	0 50U			0 50U			0 50U			0.50U			0.50U			0 50U			0.50U		
Benzene	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*1.1*			*0.50U*	*J*	*D*
1,2-Dichloroethane	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*		
Trichloroethene	*24*	*J*	*CF*	*37*		*F*	*1.7*			*21*			*2.1*			*3.9*			*32*	*J*	*CDF*
Methylcyclohexane	0 50U			0.50U			0.50U			0 50U			0 50U			0 50U			0 50U		
1,2-Dichloropropane	0 50U			0 50U			0 50U			0 50U			0.50U			0 50U			0 50U		
Bromodichloromethane	0 50U			0.50U			0 50U			0 50U			0 50U			0 50U			0 50U		
cis-1,3-Dichloropropene	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
4-Methyl-2-pentanone	5 0U			5 0U			5 0U			5.0U			5 0U			5 0U			5 0U		
Toluene	*0.50U*	*J*	*C*	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*	*J*	*D*
trans-1,3-Dichloropropene	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1,1,2-Trichloroethane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
Tetrachloroethene	*1.5*	*J*	*C*	*470*		*F*	*15*			*27*		*F*	*12*			*130*		*F*	*64*	*J*	*CDF*
2-Hexanone	5 0U			5 0U			5 0U			5 0U			5 0U			5 0U			5 0U		
Dibromochloromethane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1,2-Dibromoethane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No 32073 SDG No Y0ZP8
Site OMEGA CHEM OU-2
Lab MITKEM CORPORATION
Reviewer Santiago Lee, ESAT/LDC
Date October 27, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location	GW303-MW08D-0116			GW303-MW09A-0032			GW303-MW09B-0054			GW303-MW10A-0057			GW303-MW11A-0045			GW303-OW1B-0116			GW303-OW4A-0073		
Sample ID	Y0ZQ5			Y0ZQ6			Y0ZQ7			Y0ZQ8			Y0ZQ9			Y0ZR1			Y0ZR4		
Collection Date	08/20/2003			08/21/2003			08/21/2003			08/19/2003			08/22/2003			08/26/2003			08/27/2003		
Dilution Factor	1 0			1 0			1 0			1 0			1 0			1 0			1 0		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Chlorobenzene	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
Ethylbenzene	***0.50U***	***J***	***C***	***0.50U***			***0.50U***			***0.50U***			***0.50U***			***0.50U***			***0.50U***	***J***	***D***
Xylenes (total)	***0.50U***	***J***	***C***	***0 50U***			***0.50U***			***0.50U***			***0.50U***			***0.50U***			***0.50U***	***J***	***D***
Styrene	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
Bromoform	0 50U			0 50U			0 50U			0 50U			0 50U			0 50BJ			0 50U		
Isopropylbenzene	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1 1,2,2-Tetrachloroethane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1,3-Dichlorobenzene	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1,4-Dichlorobenzene	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1,2-Dichlorobenzene	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1,2-Dibromo-3-chloropropane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1,2,4-Trichlorobenzene	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		
1,2,3-Trichlorobenzene	0 50U			0 50U			0 50U			0 50U			0 50U			0 50U			0 50U		

Val - Validity Refer to Data Qualifiers in Table 1B
Com - Comments Refer to the Corresponding Section in the Narrative for each letter
CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed
Validated results are presented in bold and italic.

D1, D2, etc - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No 32073 SDG No Y0ZP8
Site . OMEGA CHEM OU-2
Lab MITKEM CORPORATION
Reviewer Santiago Lee, ESAT/LDC
Date October 27, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples
For Volatiles

Station Location	GW303-OW7-0081			GW303-MW08A-2002			GW303-MW03A-2004			GW303-OW4A-2007			GW303-OW7-4001			Method Blank			Method Blank		
Sample ID	Y0ZR9			Y0ZS2		TB	Y0ZS4		TB	Y0ZS7		TB	Y0ZS9		EB	VBLK1R			VBLK1S		
Collection Date	08/26/2003			08/20/2003			08/22/2003			08/27/2003			08/26/2003								
Dilution Factor	1 0			1 0			1 0			1 0			1 0			1 0			1 0		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Dichlorodifluoromethane	*0.50U*			*0.50U*	*J*	*BE*	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*	*J*	*B*
Chloromethane	0 50U			0 50U	J	E	0 50U			0 50U			0 31J			0 50U			0 50U		
Vinyl Chloride	*0.50U*			*0.50U*	*J*	*E*	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*		
Bromomethane	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
Chloroethane	*0.50U*			*0.50U*	*J*	*E*	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*		
Trichlorofluoromethane	*39*		*F*	*0.50U*	*J*	*BE*	*0.50U*			*0.50U*			*0 50U*			*0.50U*			*0.50U*	*J*	*B*
1,1-Dichloroethene	*0.65*			*0.50U*	*J*	*E*	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*		
1,1,2-Trichloro-1,2,2-trifluoroethane	*46*		*F*	*0.50U*	*J*	*BE*	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*	*J*	*B*
Acetone	17			5 0U	J	E	5 0U			5 0U			9 4			5 0U			5 0U		
Carbon Disulfide	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 60U		
Methyl Acetate	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
Methylene Chloride	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 59			0 50U		
trans-1,2-Dichloroethene	*0.50U*			*0.50U*	*J*	*E*	*0.50U*			*0.50U*			*0.50U*			*0 50U*			*0.50U*		
Methyl tert-Butyl Ether	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
1,1-Dichloroethane	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
cis-1,2-Dichloroethene	*0.50U*			*0.50U*	*J*	*E*	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*		
2-Butanone	5 0U			5 0U	J	E	5 0U			5 0U			5 0U			5 0U			5 0U		
Bromochloromethane	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
Chloroform	0 50U			0 50U	J	E	0 47J			0 90			0 50U			0 50U			0 50U		
1,1,1-Trichloroethane	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
Cyclohexane	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
Carbon Tetrachloride	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
Benzene	*0 50U*	*J*	*D*	*0 50U*	*J*	*E*	*0.50U*			*0.50U*			*0 50U*			*0.50U*			*0 50U*		
1,2-Dichloroethane	*0 50U*			*0.50U*	*J*	*E*	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*		
Trichloroethene	*0.53*	*J*	*CD*	*0 50U*	*J*	*E*	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*		
Methylcyclohexane	0 50U			0.50U	J	E	0 50U			0.50U			0 50U			0 50U			0 50U		
1,2-Dichloropropane	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
Bromodichloromethane	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
cis-1,3-Dichloropropene	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
4-Methyl-2-pentanone	5 0U			5 0U	J	E	5 0U			5 0U			5 0U			5 0U			5 0U		
Toluene	*0.50U*	*J*	*D*	*0 50U*	*J*	*E*	*0.50U*			*0.50U*			*0 50U*			*0 50U*			*0.50U*		
trans-1,3-Dichloropropene	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
1,1,2-Trichloroethane	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
Tetrachloroethene	*12*	*J*	*CD*	*0 50U*	*J*	*E*	*0.50U*			*0 50U*			*0 50U*			*0 50U*			*0 50U*		
2 Hexanone	5 0U			5 0U	J	E	5 0U			5 0U			5 0U			5 0U			5 0U		
Dibromochloromethane	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
1,2-Dibromoethane	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No 32073 SDG No Y0ZP8
Site OMEGA CHEM OU-2
Lab MITKEM CORPORATION
Reviewer Santiago Lee, ESAT/LDC
Date October 27, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location	GW303-OW7-0081			GW303-MW08A-2002			GW303-MW03A-2004			GW303-OW4A-2007			GW303-OW7-4001			Method Blank			Method Blank		
Sample ID	Y0ZR9			Y0ZS2		TB	Y0ZS4		TB	Y0ZS7		TB	Y0ZS9		EB	VBLK1R			VBLK1S		
Collection Date	08/26/2003			08/20/2003			08/22/2003			08/27/2003			08/26/2003								
Dilution Factor	1 0			1 0			1 0			1 0			1 0			1 0			1 0		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Chlorobenzene	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
Ethylbenzene	***0.50U***	***J***	***D***	***0.50U***	***J***	***E***	***0.50U***			***0.50U***			***0.50U***			***0.50U***			***0 50U***		
Xylenes (total)	***0.50U***	***J***	***D***	***0.50U***	***J***	***E***	***0 50U***			***0.50U***			***0.50U***			***0.50U***			***0 50U***		
Styrene	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
Bromoform	0 35J			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
Isopropylbenzene	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
1,1,2,2-Tetrachloroethane	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
1,3-Dichlorobenzene	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
1,4-Dichlorobenzene	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
1,2-Dichlorobenzene	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
1,2-Dibromo-3-chloropropane	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
1,2,4-Trichlorobenzene	0 50U			0.50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		
1,2,3-Trichlorobenzene	0 50U			0 50U	J	E	0 50U			0 50U			0 50U			0 50U			0 50U		

Val - Validity Refer to Data Qualifiers in Table 1B
Com - Comments Refer to the Corresponding Section in the Narrative for each letter
CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed
Validated results are presented in bold and italic.

D1, D2, etc - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No 32073 SDG No Y0ZP8
Site OMEGA CHEM OU-2
Lab MITKEM CORPORATION
Reviewer Santiago Lee, ESAT/LDC
Date October 27, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location	Method Blank			Method Blank			Method Blank			Method Blank			Storage Blank								
Sample ID	VBLK1T			VBLK5N			VBLK5P			VBLK5Q			VHBLK5Q			CRQL					
Collection Date																					
Dilution Factor	1 0			1 0			1 0			1 0			1 0								
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Dichlorodifluoromethane	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50*					
Chloromethane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
Vinyl Chloride	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50*					
Bromomethane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
Chloroethane	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50*					
Trichlorofluoromethane	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50*					
1,1-Dichloroethene	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50*					
1,1,2-Trichloro-1,2,2-trifluoroethane	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50*					
Acetone	5 0U			5 0U			5 0U			5 0U			5 0U			5 0					
Carbon Disulfide	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
Methyl Acetate	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
Methylene Chloride	0 69			0 95			0 72			0 66			0 67B			0 50					
trans-1,2-Dichloroethene	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50*					
Methyl tert-Butyl Ether	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
1,1-Dichloroethane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
cis-1,2-Dichloroethene	*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50U*			*0.50*					
2-Butanone	5 0U			5 0U			5 0U			5 0U			5 0U			5 0					
Bromochloromethane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
Chloroform	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
1,1,1-Trichloroethane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
Cyclohexane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
Carbon Tetrachloride	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
Benzene	*0.50U*			*0 50U*			*0 50U*			*0.50U*			*0 50U*			*0.50*					
1,2-Dichloroethane	*0.50U*			*0 50U*			*0.50U*			*0.50U*			*0.50U*			*0.50*					
Trichloroethene	*0.50U*			*0.50U*			*0.50U*			*0 50U*			*0.50U*			*0.50*					
Methylcyclohexane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
1,2-Dichloropropane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
Bromodichloromethane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
cis-1,3-Dichloropropene	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
4-Methyl-2-pentanone	5 0U			5 0U			5 0U			5 0U			5 0U			5 0					
Toluene	*0 50U*			*0 50U*			*0.50U*			*0.50U*			*0 50U*			*0 50*					
trans-1,3-Dichloropropene	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
1,1,2-Trichloroethane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
Tetrachloroethene	*0 50U*			*0.50U*			*0 50U*			*0.50U*			*0 50U*			*0.50*					
2-Hexanone	5 0U			5 0U			5 0U			5 0U			5 0U			5 0					
Dibromochloromethane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
1,2-Dibromoethane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No 32073 SDG No Y0ZP8
Site OMEGA CHEM OU-2
Lab MITKEM CORPORATION
Reviewer Santiago Lee, ESAT/LDC
Date October 27, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location	Method Blank			Method Blank			Method Blank			Method Blank			Storage Blank								
Sample ID	VBLK1T			VBLK5N			VBLK5P			VBLK5Q			VHBLK5Q			CRQL					
Collection Date																					
Dilution Factor	1 0			1 0			1 0			1 0			1 0								
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Chlorobenzene	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
Ethylbenzene	***0.50U***			***0.50U***			***0.50U***			***0.50U***			***0.50U***			***0.50***					
Xylenes (total)	***0.50U***			***0.50U***			***0.50U***			***0.50U***			***0.50U***			***0.50***					
Styrene	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
Bromoform	0 50U			0 52			0 50U			0 50U			0 38J			0 50					
Isopropylbenzene	0 50U			0.50U			0 50U			0 50U			0 50U			0 50					
1,1,2,2-Tetrachloroethane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
1,3-Dichlorobenzene	0 50U			0.50U			0 50U			0 50U			0.50U			0 50					
1,4-Dichlorobenzene	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
1,2-Dichlorobenzene	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
1,2-Dibromo-3-chloropropane	0 50U			0 50U			0 50U			0 50U			0 50U			0 50					
1,2,4-Trichlorobenzene	0 50U			0.50U			0 50U			0 50U			0 50U			0 50					
1,2,3-Trichlorobenzene	0 50U			0 50U			0 31J			0 50U			0 50U			0 50					

Val - Validity Refer to Data Qualifiers in Table 1B
Com - Comments Refer to the Corresponding Section in the Narrative for each letter
CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed
Validated results are presented in bold and italic.

D1, D2, etc - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October 1999.

U	The analyte was analyzed for but was not detected above the reported sample quantitation limit.
L	Indicates results which fall below the Contract Required Quantitation Limit. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ICF Consulting / Laboratory Data Consultants
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300 Fax: (510) 412-2304

MEMORANDUM

TO: Chris Lichens, Remedial Project Manager
Site Cleanup Section 4, SFD-7-4

THROUGH: Rose Fong, ESAT Project Officer
Quality Assurance (QA) Office, PMD-3

FROM: Doug Lindelof, Data Review and QA Document Review Task Manager
Environmental Services Assistance Team (ESAT)

ESAT Contract No.: 68-W-01-028
Task Order: 005
Technical Direction No.: 00505002

DATE: October 22, 2003

SUBJECT: Review of Analytical Data, Tier 2

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

SITE:	Omega Chem OU-2
SITE ACCOUNT NO.:	09 BC LA02
CERCLIS ID NO.:	CAD042245001
CASE NO.:	32073
SDG NO.:	Y0ZR6
LABORATORY:	Ceimic Corporation (CEIMIC)
ANALYSIS:	Volatiles
SAMPLES:	4 Water Samples
COLLECTION DATE:	August 28, 2003
REVIEWER:	Stan Kott, ESAT/Laboratory Data Consultants (LDC)

This report has been reviewed by the EPA Task Order Project Officer (TOPO) for the ESAT Contract, whose signature appears above.

If there are any questions, please contact Rose Fong (QA Program/EPA) at (415) 972-3812.

Attachment

cc: Jennie Han-Liu, CLP PO USEPA Region 1
Steve Remaley, CLP PO USEPA Region 9
ESAT File

CLP PO: [ ] FYI [X] Attention [ ] Action

SAMPLING ISSUES: [X] Yes [ ] No

Data Validation Report - Tier 2

Case No.:	32073	SDG No.:	Y0ZR6
Site:	Omega Chem OU-2		
Laboratory:	Ceimic Corporation (CEIMIC)		
Reviewer:	Stan Kott, ESAT/LDC		
Date:	October 22, 2003		

I. Case Summary

SAMPLE INFORMATION:

Samples:	Y0ZR6, Y0ZR7, Y0ZR8, and Y0ZS8
Concentration and Matrix:	Low Concentration Water
Analysis:	Volatiles
SOW:	OLM04.3
Collection Date:	August 28, 2003
Sample Receipt Date:	September 2, 2003
Extraction Date:	Not Applicable
Analysis Date:	September 6 and 8, 2003

FIELD QC:

Trip Blanks (TB):	Y0ZS8
Field Blanks (FB):	Not Provided
Equipment Blanks (EB):	Not Provided
Background Samples (BG):	Not Provided
Field Duplicates (D1):	Y0ZR6 and Y0ZR7

METHOD BLANKS AND ASSOCIATED SAMPLES:

VBLKQE:	Y0ZR6, Y0ZR7, and Y0ZR8
VBLKQF:	Y0ZS8, Y0ZR8DL, Y0ZR6MS, Y0ZR6MSD, and storage blankVHBLK01

TABLES:

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review

CLP PO ACTION:

None.

CLP PO ATTENTION:

Detected results and quantitation limits for dichlorodifluoromethane are qualified as estimated (J) due to continuing calibration problems.

SAMPLING ISSUES:

The sample cooler arrived at the laboratory at a temperature of 13.0°C. Since this temperature exceeds the 4.0° ±2.0°C statement of work (SOW) criterion, results for all samples are estimated (J) due to possible low bias.

There was no sample designated for laboratory QC on the Traffic Report/Chain of Custody Record (TR/COC) form. The laboratory informed Region 9 that sample Y0ZR6 was used as the laboratory QC sample.

ADDITIONAL COMMENTS:

As directed by the EPA Task Order Project Officer (TOPO), a Tier 2 review (Tier 3-level review of tetrachloroethene and its degradation products [i.e., trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, 1,1-dichloroethene, 1,2-dichloroethane, chloroethane, and vinyl chloride], freons, and benzene, toluene, ethylbenzene, and xylenes [BTEX]) was performed.

Standard preparation logs are missing in the data package and cannot be evaluated. This information was requested from the laboratory but has not been received to date. Data are not qualified in this report due to missing standard preparation logs. Refer to the attached telephone record log for details.

This report was prepared in accordance with the following documents:

- ESAT Region 9 Standard Operating Procedure 901, *Guidelines for Data Review of Contract Laboratory Program Analytical Services (CLPAS) Volatile and Semivolatile Data Packages*;
- *USEPA Contract Laboratory Program Statement of Work for Organics Analysis,* OLM04.3, 1999; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* October 1999.

II. Validation Summary

	Acceptable/Comment	
HOLDING TIMES/PRESERVATION	NO	B
GC/MS TUNE/GC PERFORMANCE	YES	
INITIAL CALIBRATIONS	YES	
CONTINUING CALIBRATIONS	NO	C
LABORATORY BLANKS	YES	
FIELD BLANKS	YES	
SURROGATES	YES	
MATRIX SPIKE/DUPLICATES	YES	
LABORATORY CONTROL SAMPLE/DUPLICATES	N/A	
INTERNAL STANDARDS	YES	
COMPOUND IDENTIFICATION	YES	
COMPOUND QUANTITATION	YES	A, D
SYSTEM PERFORMANCE	YES	
FIELD DUPLICATE SAMPLE ANALYSIS	YES	

N/A = Not Applicable

III. Validity and Comments

A. The following results, denoted with an "L" qualifier, are estimated and flagged "J" in Table 1A.

- All results below the contract required quantitation limits

Results below the contract required quantitation limits (CRQLs) are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection.

B. Detected results and quantitation limits for the following analytes are qualified as estimated due to a cooler temperature that exceeds the SOW criterion, and are flagged "J" in Table 1A.

- All analytes in all samples

The sample cooler arrived at the laboratory at a temperature of 13.0°C. This temperature exceeds the 4.0° ±2.0°C SOW criterion. Analytical results for all the samples may be biased low. Where the results are nondetected, false negatives may exist.

C. Detected results and quantitation limits for the following analytes are qualified as estimated due to large percent differences (%Ds) in the continuing calibrations, and are flagged "J" in Table 1A.

- Dichlorodifluoromethane in all samples and all blanks

Percent differences of 50.6% and 53.9% for dichlorodifluoromethane in the continuing calibrations performed on September 6, 2003 and September 8, 2003, respectively, exceeded the ±25.0% validation criterion.

The continuing calibration checks the instrument performance daily and produces the relative response factors (RRFs) for target analytes that are used for quantitation.

D. Sample Y0ZR8 was reanalyzed at a 2-fold dilution due to a high level of 1,1,2-trichloro-1,2,2-trifluoroethane that exceeded the calibration range. The result for this analyte is reported from the diluted sample in Table 1A; results for all other analytes are reported from the undiluted sample.

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No 32073 SDG No Y0ZR6
Site OMEGA CHEM OU-2
Lab CEIMIC CORPORATION
Reviewer Stan Kott, ESAT/LDC
Date October 22, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location	GW303-OW5-0048			GW303-OW5-1048			GW303-OW6-0048			GW303-OW6-2008			Method Blank			Method Blank			Storage Blank		
Sample ID	Y0ZR6		D1	Y0ZR7		D1	Y0ZR8			Y0ZS8		TB	VBLKQE			VBLKQF			VHBLK01		
Collection Date	08/28/2003			08/28/2003			08/28/2003			08/28/2003											
Dilution Factor	1 0			1 0			1 0			1 0			1 0			1 0			1 0		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
DICHLORODIFLUOROMETHANE	*10U*	*J*	*BC*	*10U*	*J*	*BC*	*10U*	*J*	*BC*	*10U*	*J*	*BC*	*10U*	*J*	*C*	*10U*	*J*	*C*	*10U*	*J*	*C*
CHLOROMETHANE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
VINYL CHLORIDE	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*			*10U*			*10U*		
BROMOMETHANE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
CHLOROETHANE	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*			*10U*			*10U*		
TRICHLOROFLUOROMETHANE	*3L*	*J*	*AB*	*3L*	*J*	*AB*	*89*	*J*	*B*	*10U*	*J*	*B*	*10U*			*10U*			*10U*		
1,1-DICHLOROETHENE	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*			*10U*			*10U*		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	*10*	*J*	*B*	*9L*	*J*	*AB*	*210*	*J*	*BD*	*10U*	*J*	*B*	*10U*			*10U*			*10U*		
ACETONE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
CARBON DISULFIDE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
METHYL ACETATE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
METHYLENE CHLORIDE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			2L		
TRANS-1,2-DICHLOROETHENE	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*			*10U*			*10U*		
METHYL TERT-BUTYL ETHER	10U	J	B	10U	J	B	61	J	B	10U	J	B	10U			10U			10U		
1,1-DICHLOROETHANE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
CIS-1,2-DICHLOROETHENE	*3L*	*J*	*AB*	*3L*	*J*	*AB*	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*			*10U*			*10U*		
2-BUTANONE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
CHLOROFORM	1J	J	B	1J	J	B	10U	J	B	1J	J	B	10U			10U			10U		
1,1,1-TRICHLOROETHANE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
CYCLOHEXANE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
CARBON TETRACHLORIDE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
BENZENE	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*			*10U*			*10U*		
1,2-DICHLOROETHANE	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*			*10U*			*10U*		
TRICHLOROETHENE	*33*	*J*	*B*	*31*	*J*	*B*	*3L*	*J*	*AB*	*10U*	*J*	*B*	*10U*			*10U*			*10U*		
METHYLCYCLOHEXANE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
1,2-DICHLOROPROPANE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
BROMODICHLOROMETHANE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
CIS-1,3-DICHLOROPROPENE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
4-METHYL-2-PENTANONE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
TOLUENE	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*	*J*	*B*	*10U*			*10U*			*10U*		
TRANS-1 3-DICHLOROPROPENE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
1,1,2-TRICHLOROETHANE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
TETRACHLOROETHENE	*25*	*J*	*B*	*23*	*J*	*B*	*20*	*J*	*B*	*10U*	*J*	*B*	*10U*			*10U*			*10U*		
2-HEXANONE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
DIBROMOCHLOROMETHANE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
1,2-DIBROMOETHANE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
CHLOROBENZENE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No 32073 SDG No Y0ZR6
Site OMEGA CHEM OU-2
Lab CEIMIC CORPORATION
Reviewer Stan Kott, ESAT/LDC
Date October 22, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location	GW303-OW5-0048			GW303-OW5-1048			GW303-OW6-0048			GW303-OW6-2008			Method Blank			Method Blank			Storage Blank		
Sample ID	Y0ZR6		D1	Y0ZR7		D1	Y0ZR8			Y0ZS8		TB	VBLKQE			VBLKQF			VHBLK01		
Collection Date	08/28/2003			08/28/2003			08/28/2003			08/28/2003											
Dilution Factor	1 0			1 0			1 0			1 0			1 0			1 0			1 0		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
ETHYLBENZENE	***10U***	***J***	***B***	***10U***	***J***	***B***	***10U***	***J***	***B***	***10U***	***J***	***B***	***10U***			***10U***			***10U***		
XYLENES (TOTAL)	***10U***	***J***	***B***	***10U***	***J***	***B***	***10U***	***J***	***B***	***10U***	***J***	***B***	***10U***			***10U***			***10U***		
STYRENE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
BROMOFORM	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
ISOPROPYLBENZENE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
1,1,2,2-TETRACHLOROETHANE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
1,3-DICHLOROBENZENE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
1,4-DICHLOROBENZENE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
1,2-DICHLOROBENZENE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
1,2-DIBROMO-3-CHLOROPROPANE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		
1,2,4-TRICHLOROBENZENE	10U	J	B	10U	J	B	10U	J	B	10U	J	B	10U			10U			10U		

Val - Validity Refer to Data Qualifiers in Table 1B
Com - Comments Refer to the Corresponding Section in the Narrative for each letter
CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed
Validated results are presented in bold and italic.

D1, D2, etc - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No : 32073 SDG No. : Y0ZR6
Site : OMEGA RECOVERY SERV.
Lab : CEIMIC CORPORATION
Reviewer : Stan Kott, ESAT/LDC
Date : October 22, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Sample ID :	CRQL																				
Volatile Compound	Result	Val	Com		Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
DICHLORODIFLUOROMETHANE	*10*																				
CHLOROMETHANE	10																				
VINYL CHLORIDE	*10*																				
BROMOMETHANE	10																				
CHLOROETHANE	*10*																				
TRICHLOROFLUOROMETHANE	*10*																				
1,1-DICHLOROETHENE	*10*																				
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	*10*																				
ACETONE	10																				
CARBON DISULFIDE	10																				
METHYL ACETATE	10																				
METHYLENE CHLORIDE	10																				
TRANS-1,2-DICHLOROETHENE	*10*																				
METHYL TERT-BUTYL ETHER	10																				
1,1-DICHLOROETHANE	10																				
CIS-1,2-DICHLOROETHENE	*10*																				
2-BUTANONE	10																				
CHLOROFORM	10																				
1,1,1-TRICHLOROETHANE	10																				
CYCLOHEXANE	10																				
CARBON TETRACHLORIDE	10																				
BENZENE	*10*																				
1,2-DICHLOROETHANE	*10*																				
TRICHLOROETHENE	*10*																				
METHYLCYCLOHEXANE	10																				
1,2-DICHLOROPROPANE	10																				
BROMODICHLOROMETHANE	10																				
CIS-1,3-DICHLOROPROPENE	10																				
4-METHYL-2-PENTANONE	10																				
TOLUENE	*10*																				
TRANS-1,3-DICHLOROPROPENE	10																				
1,1,2-TRICHLOROETHANE	10																				
TETRACHLOROETHENE	*10*																				
2-HEXANONE	10																				
DIBROMOCHLOROMETHANE	10																				
1,2-DIBROMOETHANE	10																				
CHLOROBENZENE	10																				

ANALYTICAL RESULTS
Tier 2 Table 1A

Case No. : 32073 SDG No. : Y0ZR6
Site : OMEGA RECOVERY SERV.
Lab : CEIMIC CORPORATION
Reviewer : Stan Kott, ESAT/LDC
Date : October 22, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Sample ID :	CRQL																				
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
ETHYLBENZENE	***10***																				
XYLENES (TOTAL)	***10***																				
STYRENE	10																				
BROMOFORM	10																				
ISOPROPYLBENZENE	10																				
1,1,2,2-TETRACHLOROETHANE	10																				
1,3-DICHLOROBENZENE	10																				
1,4-DICHLOROBENZENE	10																				
1,2-DICHLOROBENZENE	10																				
1,2-DIBROMO-3-CHLOROPROPANE	10																				
1,2,4-TRICHLOROBENZENE	10																				

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed
Validated results are presented in bold and italic.

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October 1999.

U	The analyte was analyzed for but was not detected above the reported sample quantitation limit.
L	Indicates results which fall below the Contract Required Quantitation Limit. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

In Reference to
Case 32073, SDG# Y0ZP5 and Y0ZR6

Contract Laboratory program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: October 13, 2003

Laboratory Name: CEIMIC

Lab Contact: Henry Leibovitz

Region: 9

Regional Contact: Steve Remaley, CLP PO

ESAT Reviewer: Santiago Lee, ESAT/Laboratory Data Consultants

Call Initiated By: _____ Laboratory X Region

In reference to data for the following sample(s):

SDG No.: Y0ZP5 and Y0ZR6 (VOA)

Summary of Questions/issues Discussed:

The following item was noted during the review of this sample delivery group (SDG). Please respond within 7 days as specified in Section 2.2 of Exhibit B of the OLM04.2 Statement of Work (SOW). Send response and resubmissions to ICF Consulting/Laboratory Data Consultants, Environmental Services Assistance Team, USEPA Region 9 Laboratory, 1337 S. 46th Street, Building 201, Richmond, CA 94804, FAX 510 412-2304.

1) Y0ZP5: Relative response factors (RRFs) on Forms 7A and 7B for the 8/27/03 continuing calibration (Lab File ID = P9436) are incorrect (see pages 312 and 322 of data package); RRFs for the 50 ug/L standard in 8/26/03 initial calibration (Lab File ID = P9387) are mistakenly reported. Please submit revised Form 7 and electronic data deliverable for the 8/27/03 continuing calibration.

2) In order to fully validate the data packages, Region 9 requests the following information for all standards (calibration and QC): expiration date of standard, preparation date, lot number, standard sources, concentration and volume of spiking and LCS Solutions. Please provide the above listed data.

Summary of Resolution: To be determined.

_____ _____
Regional Contact Signature Date of Resolution

Distribution: (original)ESAT; (1)Lab copy, (2)Regional Copy, (3)CLASS copy

ANALYTICAL RESULTS
Table 1A

Case No. : 32073 SDG No. : MY0ZP5
Site : OMEGA RECOVERY SERV.
Lab : CHEMTECH CONSULTING GROUP INC.
Reviewer :
Date :

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Concentration Water Samples For Total Metals and Cyanide

Station Location :	GW303-MW01A-0055			GW303-MW01B-0080			GW303-MW01B-1080			GW303-MW02A-0055			GW303-MW03A-0042			GW303-MW04A-0047			GW303-MW04A-1047		
Sample ID :	MY0ZP0			MY0ZP1			MY0ZP2			MY0ZP3			MY0ZP4			MY0ZP5			MY0ZP6		
Collection Date :	08/21/2003			08/21/2003			08/21/2003			08/25/2003			08/22/2003			08/19/2003			08/19/2003		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
PARAMETER	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
ALUMINUM	19.0U	U		19.0U	U		19.0U	U		19.0U	U		19.0U	U		19.0U	U		19.0U	U	
ANTIMONY	17.2B			7.2U	U		7.2U	U		7.2U	U		7.2U	U		7.2U	U		7.2U	U	
ARSENIC	4.4U	U		6.6B			4.4U	U		4.4U	U		4.8B			4.4U	U		4.4U	U	
BARIUM	75.9B			44.8B			44.9B			50.7B			40.7B			41.5B			40.0B		
BERYLLIUM	0.11B			0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U	
CADMIUM	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U	
CALCIUM	139000			123000			123000			157000			125000			147000			149000		
CHROMIUM	121			32.4			34.6			9.7B	U		2.0B	U		34.2			33.6		
COBALT	3.9B	U		1.4U	U		1.4U	U		1.6B			1.4U	U		1.4U	U		1.4U	U	
COPPER	1.2U	U		1.2U	U		1.2U	U		1.2U	U		1.2U	U		1.2U	U		1.2U	U	
IRON	23.1U	U		23.1U	U		23.1U	U		23.1U	U		23.1U	U		23.1U	U		23.1U	U	
LEAD	2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U	
MAGNESIUM	45100			40800			40900			45900			40200			44100			45000		
MANGANESE	0.30U	U		82.0			75.6			4.1B			26.0			3.1B			1.2B		
MERCURY	0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U	
NICKEL	1.8U	U		1.8U	U		1.8U	U		1.8U	U		2.5B			1.8U	U		1.8U	U	
POTASSIUM	3630B	J		5090	J		5320	J		4460B	J		4180B	J		3330B	J		3400B	J	
SELENIUM	1.9U	U		4.3B			1.9U	U		1.9U	U		3.4B			4.1B			11.5		
SILVER	1.5U	UJ		1.5U	UJ		1.5U	UJ		1.5U	UJ		1.5U	UJ		1.5U	UJ		1.5U	UJ	
SODIUM	103000			85900			88500			117000			199000			134000			137000		
THALLIUM	4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U	
VANADIUM	2.5B	U		5.2B	U		1.6U	U		4.2B	U		4.8B	U		1.6U	U		1.6U	U	
ZINC	6.0B			13.5B			8.6B			14.5B			11.0B			4.2B			8.4B		
CYANIDE	1.2U	U		1.2U	U		1.2U	U		1.2U	U		1.2U	U		1.7B	U		1.7B	U	

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
IDL - Instrument Detection Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample
CRQL - Contract Required Detection Limit

ANALYTICAL RESULTS
Table 1A

Case No. : 32073 SDG No. : MY0ZP5
Site : OMEGA RECOVERY SERV.
Lab . CHEMTECH CONSULTING GROUP INC.
Reviewer :
Date :

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Concentration Water Samples For Total Metals and Cyanide

Station Location :	GW303-MW04B-0075			GW303-MW04C-0094			GW303-MW05A-0049			GW303-GW06A-0042			GW303-MW07A-0041			GW303-MW08A-0040			GW303-MW08B-0070		
Sample ID :	MY0ZP7			MY0ZP8			MY0ZP9			MY0ZQ0			MY0ZQ1			MY0ZQ2			MY0ZQ3		
Collection Date :	08/19/2003			08/19/2003			08/25/2003			08/25/2003			08/21/2003			08/20/2003			08/20/2003		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
PARAMETER	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
ALUMINUM	256			184B			19.0U	U		19.0U	U		19.0U	U		19.0U	U		19.0U	U	
ANTIMONY	10.7B			7.2U	U		7.2U	U		7.2U	U		25.5B			7.2U	U		10.9B		
ARSENIC	4.4U	U		5.0B			4.4U	U		4.4U	U		4.4U	U		4.4U	U		4.4U	U	
BARIUM	50.2B			44.6B			50.6B			40.0B			24.3B			65.0B			34.9B		
BERYLLIUM	0.15B			0.10U	U		0.10U	U		0.10U	U		0.22B			0.10U	U		0.16B		
CADMIUM	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U	
CALCIUM	167000			156000			152000			186000			276000			209000			210000		
CHROMIUM	28.0			20.9			11.6			124			11.6			80.7			13.0		
COBALT	4.2B	U		2.6B	U		1.4U	U		1.8B			7.1B			1.4U	U		5.0B	U	
COPPER	1.2U	U		1.2U	U		1.2U	U		1.2U	U		1.2U	U		1.2U	U		1.2U	U	
IRON	267			198			23.1U	U		23.1U	U		23.1U	U		23.1U	U		23.1U	U	
LEAD	2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U	
MAGNESIUM	44700			44100			42500			46700			82300			56300			55000		
MANGANESE	33.9			19.8			0.30U	U		0.30U	U		0.30U	U		0.30U	U		2.5B		
MERCURY	0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U	
NICKEL	1.8U	U		2.9B			1.8U	U		1.8U	U		1.8U	U		1.8U	U		1.8U	U	
POTASSIUM	4770B	J		5380	J		5070	J		6440	J		6460	J		6860	J		5840	J	
SELENIUM	5.1			6.3			1.9U	U		12.6			19.4			51.2			5.1		
SILVER	1.5U	UJ		5.1B	U		1.5U	UJ		1.5U	UJ		1.5U	UJ		1.5U	UJ		1.5U	UJ	
SODIUM	96400			102000			123000			176000			238000			190000			119000		
THALLIUM	4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U	
VANADIUM	2.7B	U		4.9B	U		2.5B	U		1.6U	U		1.6U	U		1.6U	U		1.6U	U	
ZINC	17.8B			15.3B			10.7B			8.0B			7.2B			9.6B			7.7B		
CYANIDE	1.7B	U		1.7B	U		1.2U	U		1.2U	U		1.2U	U		1.2U	U		1.7B	U	

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
IDL - Instrument Detection Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample
CRQL - Contract Required Detection Limit

ANALYTICAL RESULTS
Table 1A

Case No. : 32073 SDG No. : MY0ZP5
Site : OMEGA RECOVERY SERV.
Lab : CHEMTECH CONSULTING GROUP INC.
Reviewer :
Date :

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Concentration Water Samples For Total Metals and Cyanide

Station Location :	GW303-MW08C-0087			GW303-MW08D-0116			GW303-MW09A-0032			GW303-MW09B-0054			GW303-MW10A-0057			GW303-MW11A-0045			Lab Blank		
Sample ID :	MY0ZQ4			MY0ZQ5			MY0ZQ6			MY0ZQ7			MY0ZQ8			MY0ZQ9			PBW		
Collection Date :	08/20/2003			08/20/2003			08/21/2003			08/21/2003			08/19/2003			08/22/2003					
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
PARAMETER	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
ALUMINUM	19.0U	U		19.0U	U		19.0U	U		19.0U	U		19.0U	U		19.0U	U		19.0U		
ANTIMONY	7.2U	U		7.2U	U		15.9B			7.2U	U		10.7B			7.2U	U		7.2U		
ARSENIC	4.4U	U		4.4U	U		4.4U	U		4.4U	U		4.4U	U		4.4U	U		4.4U		
BARIUM	23.6B			81.9B			32.9B			31.5B			29.8B			23.1B			1.3U		
BERYLLIUM	0.10U	U		0.10U	U		0.14B			0.10U	U		0.10B			0.10U	U		0.10U		
CADMIUM	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U		
CALCIUM	202000			132000			185000			220000			214000			238000			47.1U		
CHROMIUM	5.6B	U		1.8B	U		5.9B	U		9.8B	U		10.2	U		2.5B	U		2.0B		
COBALT	1.4U	U		1.4U	U		5.3B			3.3B			4.4B	U		1.4U	U		1.4U		
COPPER	1.2U	U		1.2U	U		1.2U	U		1.2U	U		1.2U	U		1.2U	U		1.2U		
IRON	23.1U	U		23.1U	U		23.1U	U		23.1U	U		23.1U	U		23.1U	U		30.3B		
LEAD	2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U		
MAGNESIUM	54100			37200			53600			52500			60800			67500			19.2U		
MANGANESE	112			147			320			0.30U	U		4.9B			0.30U	U		0.30U		
MERCURY	0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U		
NICKEL	1.8U	U		1.8U	U		1.8U	U		1.8U	U		1.8U	U		1.8U	U		1.8U		
POTASSIUM	6370	J		4770B	J		7990	J		7210	J		7850	J		8030	J		25.3U		
SELENIUM	4.5B			14.5			4.0B			1.9U	U		8.9			21.7			1.9U		
SILVER	1.5U	UJ		1.5U	UJ		1.5U	UJ		1.5U	UJ		1.5U	UJ		1.5U	UJ		2.4B		
SODIUM	140000			66900			152000			139000			184000			189000			842B		
THALLIUM	4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U		
VANADIUM	1.6U	U		1.6U	U		1.6U	U		1.6U	U		1.6U	U		1.6U	U		1.9B		
ZINC	21.8			9.0B			10.5B			11.1B			7.6B			14.5B			-1.90000B		
CYANIDE	1.2U	U		1.2U	U		1.2U	U		1.2U	U		1.2U	U		1.2U	U		2.4B		

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
IDL - Instrument Detection Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample
CRQL - Contract Required Detection Limit

ANALYTICAL RESULTS
Table 1A

Case No. : 32073 SDG No. : MY0ZP5
Site : OMEGA RECOVERY SERV.
Lab : CHEMTECH CONSULTING GROUP INC.
Reviewer :
Date :

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Concentration Water Samples For Total Metals and Cyanide

Station Location :																						
Sample ID :	IDL			CRDL																		
Collection Date :																						
Dilution Factor :	1.0																					
PARAMETER	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
ALUMINUM	19.0			200																	
ANTIMONY	7.2			60.0																	
ARSENIC	4.4			10.0																	
BARIUM	1.3			200																	
BERYLLIUM	0.10			5.0																	
CADMIUM	0.50			5.0																	
CALCIUM	47.1			5000																	
CHROMIUM	1.1			10.0																	
COBALT	1.4			50.0																	
COPPER	1.2			25.0																	
IRON	23.1			100																	
LEAD	2.6			3.0																	
MAGNESIUM	19.2			5000																	
MANGANESE	0.30			15.0																	
MERCURY	0.10			0.20																	
NICKEL	1.8			40.0																	
POTASSIUM	25.3			5000																	
SELENIUM	1.9			5.0																	
SILVER	1.5			10.0																	
SODIUM	547			5000																	
THALLIUM	4.2			10.0																	
VANADIUM	1.6			50.0																	
ZINC	1.0			20.0																	
CYANIDE	1.2			10.0																	

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
IDL - Instrument Detection Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample
CRQL - Contract Required Detection Limit

ANALYTICAL RESULTS
Table 1A

Case No. : 32073 SDG No. : MY0ZR0
Site : OMEGA RECOVERY SERV.
Lab : CHEMTECH CONSULTING GROUP INC.
Reviewer :
Date :

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Concentration Water Samples For Total Metals and Cyanide

Station Location :	GW303-0W1A-0080			GW303-0W1B-0116			GW303-0W2-0078			GW303-0W3-0080			GW303-0W4A-0073			GW303-0W4B-0125			GW303-0W7-0081		
Sample ID :	MY0ZR0			MY0ZR1			MY0ZR2			MY0ZR3			MY0ZR4			MY0ZR5			MY0ZR9		
Collection Date :	08/26/2003			08/26/2003			08/27/2003			08/26/2003			08/27/2003			08/27/2003			08/26/2003		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
PARAMETER	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
ALUMINUM	276			230			19.0U	U		99.7B	U		19.0U	U		19.0U	U		19.0U	U	
ANTIMONY	7.2U	U		19.6B			7.2U	U		7.2U	U		7.2U	U		7.2U	U		7.2U	U	
ARSENIC	4.4U	U		4.4U	U		4.4U	U		4.4U	U		4.4U	U		4.4U	U		4.4U	U	
BARIUM	64.4B			15.1B			36.2B			24.6B			42.3B			24.2B			21.0B		
BERYLLIUM	0.11B			0.22B			0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U	
CADMIUM	0.73B			0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U	
CALCIUM	170000			33500			151000			187000			150000			101000			193000		
CHROMIUM	2.9B			8.1B			11.3			15.0			12.8			4.9B			6.5B		
COBALT	3.5B			5.6B			1.4U	U		1.4U	U		1.4U	U		1.4U	U		1.4U	U	
COPPER	2.0B	U		1.2U	U		1.2U	U		5.4B	U		1.7B	U		1.2U	U		1.2U	U	
IRON	1460			4690			23.1U	U		2160			23.1U	U		23.1U	U		23.1U	U	
LEAD	2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U	
MAGNESIUM	43500			34500			57000			62700			50300			61800			65900		
MANGANESE	523			226			1.9B			12.8B			1.7B			2.6B			1.1B	U	
MERCURY	0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U	
NICKEL	15.5B			1.8U	U		3.5B			6.8B			1.8U	U		1.8U	U		1.8U	U	
POTASSIUM	4170B	J		6280	J		2670B	J		2880B	J		3530B	J		3350B	J		2230B	J	
SELENIUM	12.5	U		1.9U	UJ		10.7	U		9.2	U		9.5	U		13.3	U		8.5	U	
SILVER	1.5U	UJ		1.5U	UJ		1.8B	U		1.5U	UJ		2.0B	U		1.5U	UJ		2.0B	U	
SODIUM	117000			3220000			72100			75600			105000			123000			70000		
THALLIUM	4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U	
VANADIUM	5.2B			1.6U	U		5.2B			5.4B			4.5B			3.8B			5.4B		
ZINC	28.0			48.3			23.5			17.8B			44.9			12.8B			31.7		
CYANIDE	2.3B	U		3.0B	U		2.7B	U		2.7B	U		2.8B	U		2.7B	U		2.7B	U	

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
IDL - Instrument Detection Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample
CRQL - Contract Required Detection Limit

ANALYTICAL RESULTS
Table 1A

Case No. : 32073 SDG No. : MY0ZR0
Site : OMEGA RECOVERY SERV.
Lab : CHEMTECH CONSULTING GROUP INC.
Reviewer :
Date :

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Concentration Water Samples For Total Metals and Cyanide

Station Location :	GW303-0W8-0075			GW303-0W2-0078			GW303-0W3-0080			GW303-0W4A-0073			GW303-0W4B-0125			GW303-0W7-0081			GW303-0W8-0075		
Sample ID :	MY0ZS0			MY0ZX2			MY0ZX3			MY0ZX4			MY0ZX5			MY0ZX9			MY0ZY0		
Collection Date :	08/27/2003			08/27/2003			08/26/2003			08/27/2003			08/27/2003			08/26/2003			08/27/2003		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
PARAMETER	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
ALUMINUM	19.0U	U		19.0U	U		19.0U	U		19.0U	U		19.0U	U		19.0U	U		19.0U	U	
ANTIMONY	7.2U	U		7.2U	U		7.2U	U		7.3B			7.2U	U		7.2U	U		7.2U	U	
ARSENIC	4.4U	U		4.4U	U		4.4U	U		4.4U	U		4.4U	U		4.4U	U		4.4U	U	
BARIUM	39.1B			40.0B			23.7B			47.7B			23.8B			21.9B			39.8B		
BERYLLIUM	0.10U	U		0.10U	U		0.10U	U		0.12B			0.10U	U		0.10U	U		0.10U	U	
CADMIUM	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.69B			0.50U	U		0.50U	U	
CALCIUM	180000			146000			174000			149000			102000			184000			196000		
CHROMIUM	4.6B			4.6B			6.6B			13.2			4.8B			6.3B			2.0B		
COBALT	1.6B			1.4B			1.7B			1.6B			2.1B			1.5B			1.4U	U	
COPPER	1.2U	U		1.2U	U		1.2U	U		1.2U	U		1.3B	U		1.2U	U		1.2U	U	
IRON	448			23.1U	U		23.1U	U		23.1U	U		23.1U	U		23.1U	U		507		
LEAD	2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U	
MAGNESIUM	63800			53500			57300			49800			62900			62300			71100		
MANGANESE	871			0.84B	U		3.0B			0.94B	U		4.3B			1.7B			1040		
MERCURY	0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U	
NICKEL	1.8U	U		1.8U	U		1.8U	U		1.8U	U		1.8U	U		1.8U	U		1.8U	U	
POTASSIUM	2640B	J		2620B	J		2770B	J		3740B	J		3390B	J		2240B	J		2940B	J	
SELENIUM	8.2	U		14.0	J		8.3	U		7.7	U		11.0	J		9.5	U		12.3	J	
SILVER	1.5U	UJ		1.5U	UJ		1.5U	UJ		1.5U	UJ		2.4B	U		1.5U	UJ		1.5U	UJ	
SODIUM	81200			69800			71300			109000			128000			67400			92200		
THALLIUM	4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U	
VANADIUM	1.6U	U		3.4B	U		3.2B			2.9B	U		6.7B	U		4.8B			1.7B	U	
ZINC	11.0B			19.9B			12.9B			31.8			32.2			28.5			24.0		
CYANIDE	2.1B	U		NA			NA			NA			NA			NA			NA		

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
IDL - Instrument Detection Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample
CRQL - Contract Required Detection Limit

ANALYTICAL RESULTS
Table 1A

Page ____ of ____

Case No. : 32073 SDG No. : MY0ZR0
Site : OMEGA RECOVERY SERV.
Lab : CHEMTECH CONSULTING GROUP INC.
Reviewer :
Date :

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Concentration Water Samples For Total Metals and Cyanide

Station Location :	Lab Blank																				
Sample ID :	PBW			IDL			CRDL														
Collection Date :																					
Dilution Factor :	1.0			1.0																	
PARAMETER	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
ALUMINUM	27.3B			19.0			200														
ANTIMONY	7.2U			7.2			60.0														
ARSENIC	4.4U			4.4			10.0														
BARIUM	1.3U			1.3			200														
BERYLLIUM	0.10U			0.10			5.0														
CADMIUM	0.50U			0.50			5.0														
CALCIUM	47.1U			47.1			5000														
CHROMIUM	1.1U			1.1			10.0														
COBALT	1.4U			1.4			50.0														
COPPER	1.7B			1.2			25.0														
IRON	30.9B			23.1			100														
LEAD	2.6U			2.6			3.0														
MAGNESIUM	19.2U			19.2			5000														
MANGANESE	0.30B			0.30			15.0														
MERCURY	0.10U			0.10			0.20														
NICKEL	1.8U			1.8			40.0														
POTASSIUM	25.3U			25.3			5000														
SELENIUM	2.1B			1.9			5.0														
SILVER	2.6B			1.5			10.0														
SODIUM	547U			547			5000														
THALLIUM	4.2U			4.2			10.0														
VANADIUM	1.6U			1.6			50.0														
ZINC	1.5B			1.0			20.0														
CYANIDE	2.2B			1.2			10.0														

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Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
IDL - Instrument Detection Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample
CRQL - Contract Required Detection Limit

ANALYTICAL RESULTS
Table 1A

Case No. : 32073 SDG No. : MY0ZR6
Site : OMEGA RECOVERY SERV.
Lab : CHEMTECH CONSULTING GROUP INC.
Reviewer :
Date :

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Concentration Water Samples For Total Metals and Cyanide

Station Location :	GW303-OW5-0048			GW303-OW5-1048			GW303-OW6-0048			GW303-OW5-0048			GW303-OW5-1048			GW303-OW6-0048			Lab Blank		
Sample ID :	MY0ZR6			MY0ZR7			MY0ZR8			MY0ZX6			MY0ZX7			MY0ZX8			PBW		
Collection Date :	08/28/2003			08/28/2003			08/28/2003			08/28/2003			08/28/2003			08/28/2003					
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
PARAMETER	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
ALUMINUM	49.2U	U		49.2U	U		49.2U	U		49.2U	U		49.2U	U		49.2U	U		49.2U		
ANTIMONY	4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U		
ARSENIC	2.9U	U		2.9U	U		2.9U	U		2.9U	U		2.9U	U		2.9U	U		2.9U		
BARIUM	52.5B			84.1B			21.2B			92.4B			87.6B			31.8B			8.8U		
BERYLLIUM	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U		
CADMIUM	2.9U	U		2.9U	U		2.9U	U		2.9U	U		2.9U	U		2.9U	U		2.9U		
CALCIUM	66300			134000			120000			149000			142000			196000			20.9U		
CHROMIUM	26.7			27.3			3.1B			15.4			13.9			2.9B			1.5U		
COBALT	3.2U	U		3.2U	U		3.2U	U		3.2U	U		3.2U	U		3.2U	U		3.2U		
COPPER	2.5U	U		2.5U	U		2.5U	U		2.5U	U		2.5U	U		2.5U	U		2.5U		
IRON	192	U		218			27.4U	U		27.4U	U		27.4U	U		27.4U	U		30.4B		
LEAD	1.8U	U		1.8U	U		1.8U	U		1.8U	U		2.7B	U		1.8U	U		1.8U		
MAGNESIUM	19900			35500			43500			39700			37600			61400			22.1B		
MANGANESE	7.7B			10.3B			0.80U	U		9.8B			9.1B			3.2B			0.80U		
MERCURY	0.10U	U		0.10U	U		0.44			0.10U	U		0.10U	U		0.28			0.10U		
NICKEL	29.5B			40.0B			3.4U	U		40.8			35.6B			3.4U	U		3.4U		
POTASSIUM	6400	J		2690B	J		7260	J		2980B	J		2800B	J		3940B	J		91.6U		
SELENIUM	4.2B			3.6U	U		3.6U	U		3.6U	U		3.6U	U		3.6U	U		3.6U		
SILVER	2.4U	U		2.4U	U		2.4U	U		2.4U	U		2.4U	U		2.4U	U		2.4U		
SODIUM	590000	J		93800	J		3060000	J		104000	J		98100	J		127000	J		535U		
THALLIUM	5.6U	U		5.6U	U		5.6U	U		5.6U	U		5.6U	U		5.6U	U		5.6U		
VANADIUM	4.8B			4.9B			4.2B			4.8B			4.9B			5.0B			1.4U		
ZINC	31.2			14.8B			18.8B			22.0			23.3			20.7			1.3U		
CYANIDE	3.0U	U		3.0U	U		3.0U	U		NA			NA			NA			-7.60000B		

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IDL - Instrument Detection Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample
CRQL - Contract Required Detection Limit

ANALYTICAL RESULTS
Table 1A

Case No 32073 SDG No MY0ZR6
Site OMEGA RECOVERY SERV
Lab CHEMTECH CONSULTING GROUP INC
Reviewer
Date

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Concentration Water Samples For Total Metals and Cyanide

Station Location																						
Sample ID	IDL			CRDL																		
Collection Date																						
Dilution Factor	1 0																					
PARAMETER	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
ALUMINUM	49 2			200																	
ANTIMONY	4 2			60 0																	
ARSENIC	2 9			10 0																	
BARIUM	8 8			200																	
BERYLLIUM	0 50			5 0																	
CADMIUM	2 9			5 0																	
CALCIUM	20 9			5000																	
CHROMIUM	1 5			10 0																	
COBALT	3 2			50 0																	
COPPER	2 5			25 0																	
IRON	27 4			100																	
LEAD	1 8			3 0																	
MAGNESIUM	20 8			5000																	
MANGANESE	0 80			15 0																	
MERCURY	0 10			0 20																	
NICKEL	3 4			40 0																	
POTASSIUM	91 6			5000																	
SELENIUM	3 6			5 0																	
SILVER	2 4			10 0																	
SODIUM	535			5000																	
THALLIUM	5 6			10 0																	
VANADIUM	1 4			50 0																	
ZINC	1 3			20 0																	
CYANIDE	3 0			10 0																	

Val - Validity Refer to Data Qualifiers in Table 1B
Com - Comments Refer to the Corresponding Section in the Narrative for each letter
IDL - Instrument Detection Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample
CRQL - Contract Required Detection Limit

ANALYTICAL RESULTS
Table 1A

Case No. : 32073 SDG No. : MY0ZT5
Site : OMEGA RECOVERY SERV.
Lab : CHEMTECH CONSULTING GROUP INC.
Reviewer :
Date :

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Concentration Water Samples For Total Metals

Station Location :	GW303-MW01A-0055			GW303-MW01B-0080			GW303-MW01B-1080			GW303-MW02A-0055			GW303-MW03A-0042			GW303-MW04A-0047			GW303-MW04A-1047		
Sample ID :	MY0ZT0			MY0ZT1			MY0ZT2			MY0ZT3			MY0ZT4			MY0ZT5			MY0ZT6		
Collection Date :	08/21/2003			08/21/2003			08/21/2003			08/25/2003			08/22/2003			08/19/2003			08/19/2003		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
PARAMETER	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
ALUMINUM	19.0U	U		19.0U	U		19.0U	U		19.0U	U		19.0U	U		102B			19.0U	U	
ANTIMONY	7.2U	U		7.2U	U		7.2U	U		7.2U	U		7.2U	U		7.2U	U		7.2U	U	
ARSENIC	4.4U	U		9.2B			4.4U	U		4.4U	U		4.4U	U		4.4U	U		4.4U	U	
BARIUM	65.3B			36.1B			38.7B			49.9B			39.6B			39.4B			38.3B		
BERYLLIUM	0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U	
CADMIUM	0.50U	U		0.56B			0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U	
CALCIUM	141000			121000			126000			167000			130000			153000			153000		
CHROMIUM	110			30.2			35.4			3.6B			1.1U	U		31.0			33.4		
COBALT	1.4U	U		1.4U	U		1.4U	U		1.4U	U		1.4U	U		1.4U	U		1.4U	U	
COPPER	1.2U	U		4.4B			1.2U	U		1.2U	U		1.2U	U		1.2U	U		1.2U	U	
IRON	23.1U	U		23.1U	U		23.1U	U		23.1U	U		23.1U	U		23.1U	U		23.1U	U	
LEAD	2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U	
MAGNESIUM	46300			40500			42200			49500			41900			46100			45900		
MANGANESE	0.90B			67.0			65.5			0.30U	U		27.3			0.30U	U		0.30U	U	
MERCURY	0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U	
NICKEL	1.8U	U		5.6B			1.8U	U		1.8U	U		4.2B			2.5B			1.8U	U	
POTASSIUM	3260B	J		4440B	J		4830B	J		3860B	J		4300B	J		3440B	J		3400B	J	
SELENIUM	3.2B			3.6B			4.3B			3.7B			4.2B			9.2			9.3		
SILVER	1.5U	UJ		7.5B	U		1.5U	UJ		1.5U	UJ		1.5U	UJ		1.8B	J		1.5U	UJ	
SODIUM	91400	J		73900	J		79500	J		108000	J		201000	J		135000	J		132000	J	
THALLIUM	4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U	
VANADIUM	4.0B	U		9.7B	U		1.6U	U		2.6B	U		6.2B	U		4.6B			2.0B		
ZINC	19.8B			31.7			24.4			19.2B			12.9B			11.0B			10.8B		
CYANIDE	NA			NA			NA			NA			NA			NA			NA		

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
IDL - Instrument Detection Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample
CRQL - Contract Required Detection Limit

ANALYTICAL RESULTS
Table 1A

Case No 32073 SDG No MY0ZT5
Site OMEGA RECOVERY SERV
Lab CHEMTECH CONSULTING GROUP INC
Reviewer
Date

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Concentration Water Samples For Total Metals

Station Location	GW303-MW04B-0075			GW303-MW04C-0094			GW303-MW05A-0049			GW303-GW06A-0042			GW303-MW07A-0041			GW303-MW08A-0040			GW303-MW08B-0070		
Sample ID	MY0ZT7			MY0ZT8			MY0ZT9			MY0ZW0			MY0ZW1			MY0ZW2			MY0ZW3		
Collection Date	08/19/2003			08/19/2003			08/25/2003			08/25/2003			08/21/2003			08/20/2003			08/20/2003		
Dilution Factor	1 0			1 0			1 0			1 0			1 0			1 0			1 0		
PARAMETER	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
ALUMINUM	19 0U	U		19 0U	U		19 0U	U		19 0U	U		19 0U	U		19 0U	U		19 0U	U	
ANTIMONY	7 2U	U		7 2U	U		7 2U	U		7 2U	U		7 2U	U		7 2U	U		7 2U	U	
ARSENIC	4 4U	U		4 4U	U		4 4U	U		4 4U	U		4 4U	U		4 4U	U		4 4U	U	
BARIUM	46 0B			43 4B			51 7B			37 2B			17 4B			71 8B			28 4B		
BERYLLIUM	0 10U	U		0 10U	U		0 10U	U		0 10U	U		0 10U	U		0 10U	U		0 10U	U	
CADMIUM	0 50U	U		0 50U	U		0 50U	U		0 50U	U		0 50U	U		0 50U	U		0 50U	U	
CALCIUM	173000			158000			164000			192000			300000			217000			219000		
CHROMIUM	21 0			16 6			10 0B			125			3 2B			81 1			6 7B		
COBALT	1 4U	U		1 4U	U		1 4U	U		1 4U	U		1 4U	U		1 4U	U		1 4U	U	
COPPER	1 2U	U		1 2U	U		2 0B			1 2U	U		1 2U	U		6 6B			1 2U	U	
IRON	23 1U	U		23 1U	U		23 1U	U		23 1U	U		23 1U	U		23 1U	U		23 1U	U	
LEAD	2 6U	U		2 6U	U		2 6U	U		2 6U	U		2 6U	U		2 6U	U		2 9B	U	
MAGNESIUM	46200			44400			46600			49200			92200			57600			58800		
MANGANESE	2 4B			0 52B			1 3B			0 30U	U		0 38B			0 70B			0 64B		
MERCURY	0 10U	U		0 10U	U		0 10U	U		0 10U	U		0 10U	U		0 10U	U		0 10U	U	
NICKEL	1 8U	U		1 8U	U		1 8U	U		1 8U	U		1 8U	U		3 0B			1 8U	U	
POTASSIUM	4470B	J		4910B	J		4700B	J		5720	J		6440	J		6260	J		5840	J	
SELENIUM	3 8B			6 1			1 9U	U		5 7			22 1			60 2			8 2		
SILVER	1 5U	UJ		1 5U	UJ		1 5U	UJ		1 5U	UJ		2 9B	U		1 5U	UJ		1 5U	UJ	
SODIUM	88600	J		91100	J		119000	J		166000	J		236000	J		168000	J		117000	J	
THALLIUM	4 2U	U		4 2U	U		4 2U	U		4 2U	U		4 2U	U		4 2U	U		4 2U	U	
VANADIUM	1 6U	U		1 6U	U		4 9B	U		1 6U	U		1 6U	U		1 6U	U		1 6U	U	
ZINC	17 2B			22 1			23 2			13 3B			20 8			28 4			15 7B		
CYANIDE	NA			NA			NA			NA			NA			NA			NA		

Val - Validity Refer to Data Qualifiers in Table 1B
Com - Comments Refer to the Corresponding Section in the Narrative for each letter
IDL - Instrument Detection Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2 etc - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample
CRQL - Contract Required Detection Limit

ANALYTICAL RESULTS
Table 1A

Case No. : 32073 SDG No. : MY0ZT5
Site : OMEGA RECOVERY SERV.
Lab : CHEMTECH CONSULTING GROUP INC.
Reviewer :
Date :

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Concentration Water Samples For Total Metals

Station Location :	GW303-MW08C-0087			GW303-MW08D-0116			GW303-MW09A-0032			GW303-MW09B-0054			GW303-MW10A-0057			GW303-MW11A-0045			Lab Blank		
Sample ID :	MY0ZW4			MY0ZW5			MY0ZW6			MY0ZW7			MY0ZW8			MY0ZW9			PBW		
Collection Date :	08/20/2003			08/20/2003			08/21/2003			08/21/2003			08/19/2003			08/22/2003					
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
PARAMETER	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
ALUMINUM	19.0U	U		19.0U	U		19.0U	U		19.0U	U		19.0U	U		19.0U	U		19.0U		
ANTIMONY	7.2U	U		7.2U	U		7.2U	U		7.2U	U		7.2U	U		7.2U	U		7.2U		
ARSENIC	4.4U	U		4.4U	U		4.4U	U		4.4U	U		4.4U	U		4.4U	U		4.4U		
BARIUM	25.3B			95.0B			28.5B			26.2B			26.3B			21.0B			-2.40000B		
BERYLLIUM	0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U		
CADMIUM	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U		
CALCIUM	224000			153000			201000			209000			218000			242000			47.1U		
CHROMIUM	5.9B			1.1U	U		1.1U	U		4.3B			3.9B			1.1U	U		-1.70000B		
COBALT	1.4U	U		1.4U	U		1.4U	U		1.4U	U		1.4U	U		1.4U	U		-1.60000B		
COPPER	1.2U	U		2.3B			1.6B			1.2U	U		1.2U	U		1.2U	U		1.2U		
IRON	23.1U	U		23.1U	U		23.1U	U		23.1U	U		23.1U	U		23.1U	U		23.1U		
LEAD	2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U	U		2.6U		
MAGNESIUM	59200			43100			57700			49800			61600			69200			19.2U		
MANGANESE	131			171			311			0.94B			0.30U	U		0.30U	U		-0.34000B		
MERCURY	0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		0.10U	U		-0.17000B		
NICKEL	1.8U	U		1.8U	U		1.8U	U		1.8U	U		2.1B			1.8U	U		1.8U		
POTASSIUM	6220	J		4620B	J		9220	J		6600	J		7240	J		7690	J		25.3U		
SELENIUM	5.5			19.0			8.3			7.8			10.7			21.7			1.9U		
SILVER	1.5U	UJ		1.5U	UJ		1.5U	UJ		1.5U	UJ		1.5U	UJ		1.5U	UJ		1.5U		
SODIUM	133000	J		64000	J		175000	J		128000	J		165000	J		186000	J		547U		
THALLIUM	4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U	U		4.2U		
VANADIUM	1.6U	U		1.6U	U		1.6U	U		1.6U	U		1.6U	U		1.6U	U		1.6U		
ZINC	22.2			28.2			22.2			11.1B			10.8B			16.9B			1.0U		
CYANIDE	NA			NA			NA			NA			NA			NA			NA		

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
IDL - Instrument Detection Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample
CRQL - Contract Required Detection Limit

ANALYTICAL RESULTS
Table 1A

Case No. : 32073 SDG No. : MY0ZT5
Site : OMEGA RECOVERY SERV.
Lab : CHEMTECH CONSULTING GROUP INC.
Reviewer :
Date :

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Concentration Water Samples For Total Metals

Station Location :																						
Sample ID :	IDL			CRDL																		
Collection Date :																						
Dilution Factor :	1.0																					
PARAMETER	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
ALUMINUM	19.0			200																	
ANTIMONY	7.2			60.0																	
ARSENIC	4.4			10.0																	
BARIUM	1.3			200																	
BERYLLIUM	0.10			5.0																	
CADMIUM	0.50			5.0																	
CALCIUM	47.1			5000																	
CHROMIUM	1.1			10.0																	
COBALT	1.4			50.0																	
COPPER	1.2			25.0																	
IRON	23.1			100																	
LEAD	2.6			3.0																	
MAGNESIUM	19.2			5000																	
MANGANESE	0.30			15.0																	
MERCURY	0.10			0.20																	
NICKEL	1.8			40.0																	
POTASSIUM	25.3			5000																	
SELENIUM	1.9			5.0																	
SILVER	1.5			10.0																	
SODIUM	547			5000																	
THALLIUM	4.2			10.0																	
VANADIUM	1.6			50.0																	
ZINC	1.0			20.0																	
CYANIDE	NA			10.0																	

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
IDL - Instrument Detection Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample
CRQL - Contract Required Detection Limit

United States Environmental Protection Agency
Region 9 Laboratory
1337 S. 46th Street Building 201

Richmond, CA 94804

Subject:	**Analytical Testing Results - Project R03S75** **SDG: 03240B**
From:	**Brenda Bettencourt, Director** **EPA Region 9 Laboratory** **PMD-2**
To:	**Chris Lichens** **Site Cleanup Section 4** **SFD-7-4**

Attached are the results from the analysis of samples from the **Omega Chemical August 2003 Sampling** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Vance Fong at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Analyses included in this report:

1,4-Dioxane

United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Site Cleanup Section 4	**Project:** Omega Chemical August 2003 Sampling	
75 Hawthorne Street	**Project Number:** R03S75	**SDG:**03240B
San Francisco CA, 94105	**Project Manager:** Chris Lichens	**Reported:**09/24/03 15:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
GW303-OW1A-0080	0308045-01	Water	08/26/03 14:20	08/28/03 10:09
GW303-OW1B-0116	0308045-02	Water	08/26/03 15:00	08/28/03 10:09
GW303-OW4A-0073	0308045-05	Water	08/27/03 15:30	08/28/03 10:09
GW303-OW8-0075	0308045-08	Water	08/27/03 08:45	08/28/03 10:09
GW303-OW5-0048	0308049-01	Water	08/28/03 08:45	08/29/03 10:00
GW303-OW5-1048	0308049-02	Water	08/28/03 08:50	08/29/03 10:00
GW303-OW6-0048	0308049-03	Water	08/28/03 10:15	08/29/03 10:00

United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Site Cleanup Section 4	**Project:** Omega Chemical August 2003 Sampling	
75 Hawthorne Street	**Project Number:** R03S75	**SDG:**03240B
San Francisco CA, 94105	**Project Manager:** Chris Lichens	**Reported:**09/24/03 15:53

Semivolatile Organic Compounds by EPA Method 8270C
EPA Region 9 Laboratory

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
0308045-01 : GW303-OW1A-0080 Water Sampled: 08/26/03 14:20 Received: 08/28/03 10:09								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	8300	Q2, J	200	ug/L	B3H0089	08/28/03	09/03/03	8270C/SOP315
Surrogate. 1,4-Dioxane-d8	*2.90*		*61 %*		*50-130*	"	"	*09/03/03*
0308045-02 : GW303-OW1B-0116 Water Sampled: 08/26/03 15:00 Received: 08/28/03 10:09								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	39	Q2, J	1.0	ug/L	B3H0089	08/28/03	09/03/03	8270C/SOP315
Surrogate. 1,4-Dioxane-d8	*3.25*		*66 %*		*50-130*	"	"	"
0308045-05 : GW303-OW4A-0073 Water Sampled: 08/27/03 15:30 Received: 08/28/03 10:09								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	6 1	Q2, J	1.0	ug/L	B3H0089	08/28/03	09/03/03	8270C/SOP315
Surrogate. 1,4-Dioxane-d8	*4.03*		*85 %*		*50-130*	"	"	"
0308045-08 : GW303-OW8-0075 Water Sampled: 08/27/03 08:45 Received: 08/28/03 10:09								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	1200	Q2, J	50	ug/L	B3H0089	08/28/03	09/03/03	8270C/SOP315
Surrogate: 1,4-Dioxane-d8	*3.44*		*72 %*		*50-130*	"	"	*09/03/03*
0308049-01 : GW303-OW5-0048 Water Sampled: 08/28/03 08:45 Received: 08/29/03 10:00								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	14		1.0	ug/L	B3I0001	09/02/03	09/04/03	8270C/SOP315
Surrogate: 1,4-Dioxane-d8	*4.03*		*84 %*		*50-130*	"	"	"
0308049-02 : GW303-OW5-1048 Water Sampled: 08/28/03 08:50 Received: 08/29/03 10:00								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	9.7		1.0	ug/L	B3I0001	09/02/03	09/04/03	8270C/SOP315
Surrogate: 1,4-Dioxane-d8	*3.93*		*82 %*		*50-130*	"	"	"
0308049-03 : GW303-OW6-0048 Water Sampled: 08/28/03 10:15 Received: 08/29/03 10:00								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	0.5	J, C1	1.0	ug/L	B3I0001	09/02/03	09/04/03	8270C/SOP315
Surrogate: 1,4-Dioxane-d8	*3.58*		*75 %*		*50-130*	"	"	"

United States Environmental Protection Agency
Region 9 Laboratory

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Site Cleanup Section 4	**Project:** Omega Chemical August 2003 Sampling	
75 Hawthorne Street	**Project Number:** R03S75	**SDG:**03240B
San Francisco CA, 94105	**Project Manager:** Chris Lichens	**Reported:**09/24/03 15:53

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
EPA Region 9 Laboratory

Batch B3H0089 - 3520B CLLE

Blank (B3H0089-BLK1) Prepared: 08/28/03 Analyzed: 09/03/03

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	ND	U	1.0	ug/L						
Surrogate: 1,4-Dioxane-d8	*3.42*			"	*4.78*		*72*	*50-130*		

LCS (B3H0089-BS1) Prepared: 08/28/03 Analyzed: 09/03/03

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	19		1.0	ug/L	9.53		199	50-130		
Surrogate: 1,4-Dioxane-d8	*3.64*			"	*4.76*		*76*	*50-130*		

Matrix Spike (B3H0089-MS1) Source: 0308045-05 Prepared: 08/28/03 Analyzed: 09/03/03

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	25		1.9	ug/L	19.0	6.1	99	50-130		
Surrogate: 1,4-Dioxane-d8	*8.06*			"	*9.51*		*85*	*50-130*		

Matrix Spike Dup (B3H0089-MSD1) Source: 0308045-05 Prepared: 08/28/03 Analyzed: 09/03/03

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	25		1.9	ug/L	19.0	6.1	99	50-130	0	30
Surrogate: 1,4-Dioxane-d8	*7.83*			"	*9.48*		*83*	*50-130*		

Batch B3I0001 - 3520B CLLE

Blank (B3I0001-BLK1) Prepared: 09/02/03 Analyzed: 09/03/03

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	ND	U	1.0	ug/L						
Surrogate: 1,4-Dioxane-d8	*2.42*	*Q7*		"	*4.92*		*49*	*50-130*		

LCS (B3I0001-BS1) Prepared: 09/02/03 Analyzed: 09/03/03

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	11		1.0	ug/L	9.66		114	50-130		
Surrogate: 1,4-Dioxane-d8	*3.64*			"	*4.83*		*75*	*50-130*		

United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Site Cleanup Section 4	**Project:** Omega Chemical August 2003 Sampling	
75 Hawthorne Street	**Project Number:** R03S75	**SDG:**03240B
San Francisco CA, 94105	**Project Manager:** Chris Lichens	**Reported:**09/24/03 15:53

Qualifiers and Comments

C1	The reported concentration for this analyte is below the quantitation limit.
J	The reported result for this analyte should be considered an estimated value.
Q2	The laboratory control standard associated with this sample did not meet recovery criteria for this analyte (see LCS results for this batch in QC summary).
Q7	Surrogate spike recoveries for this sample were outside control limits.
U	Not Detected
NR	Not Reported

United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street Building 201

Richmond, CA 94804

Subject: **Analytical Testing Results - Project R03S75**
SDG: 03232A

From: **Brenda Bettencourt, Director**
EPA Region 9 Laboratory
PMD-2

To: **Chris Lichens**
Site Cleanup Section 4
SFD-7-4

Attached are the results from the analysis of samples from the **Omega Chemical August 2003 Sampling** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Vance Fong at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Analyses included in this report:

1,4-Dioxane

United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Site Cleanup Section 4	**Project:** Omega Chemical August 2003 Sampling	
75 Hawthorne Street	**Project Number:** R03S75	**SDG:**03232A
San Francisco CA, 94105	**Project Manager:** Chris Lichens	**Reported:**09/22/03 11:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
GW303-MW04A-0047	0308028-01	Water	08/19/03 09:40	08/20/03 09:30
GW303-MW04A-1047	0308028-02	Water	08/19/03 09:50	08/20/03 09:30
GW303-MW04B-0075	0308028-03	Water	08/19/03 11:40	08/20/03 09:30
GW303-MW10A-0057	0308028-05	Water	08/19/03 14:15	08/20/03 09:30
GW303-MW08A-0040	0308032-01	Water	08/20/03 10:00	08/21/03 11:05
GW303-GW06A-0042	0308041-01	Water	08/25/03 09:20	08/26/03 09:30
GW303-MW02A-0055	0308041-02	Water	08/25/03 10:30	08/26/03 09:30
GW303-MW05A-0049	0308041-03	Water	08/25/03 08:40	08/26/03 09:30

United States Environmental Protection Agency
Region 9 Laboratory

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Site Cleanup Section 4	**Project:** Omega Chemical August 2003 Sampling	
75 Hawthorne Street	**Project Number:** R03S75	**SDG:**03232A
San Francisco CA, 94105	**Project Manager:** Chris Lichens	**Reported:**09/22/03 11:53

Semivolatile Organic Compounds by EPA Method 8270C
EPA Region 9 Laboratory

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
0308028-01 : GW303-MW04A-0047 Water Sampled: 08/19/03 09:40 Received: 08/20/03 09:30								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	18		1.0	ug/L	B3H0067	08/21/03	08/25/03	8270C/SOP315
Surrogate: 1,4-Dioxane-d8	*3.52*		*73 %*		*50-130*	"	"	"
0308028-02 : GW303-MW04A-1047 Water Sampled: 08/19/03 09:50 Received: 08/20/03 09:30								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	18		1.0	ug/L	B3H0067	08/21/03	08/25/03	8270C/SOP315
Surrogate: 1,4-Dioxane-d8	*3.89*		*80 %*		*50-130*	"	"	"
0308028-03 : GW303-MW04B-0075 Water Sampled: 08/19/03 11:40 Received: 08/20/03 09:30								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	40		1.0	ug/L	B3H0067	08/21/03	08/25/03	8270C/SOP315
Surrogate: 1,4-Dioxane-d8	*3.71*		*78 %*		*50-130*	"	"	"
0308028-05 : GW303-MW10A-0057 Water Sampled: 08/19/03 14:15 Received: 08/20/03 09:30								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	5.4		1.0	ug/L	B3H0067	08/21/03	08/25/03	8270C/SOP315
Surrogate: 1,4-Dioxane-d8	*3.18*		*66 %*		*50-130*	"	"	"
0308032-01 : GW303-MW08A-0040 Water Sampled: 08/20/03 10:00 Received: 08/21/03 11:05								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	1.6		1.0	ug/L	B3H0067	08/21/03	08/25/03	8270C/SOP315
Surrogate: 1,4-Dioxane-d8	*4.09*		*80 %*		*50-130*	"	"	"
0308041-01 : GW303-GW06A-0042 Water Sampled: 08/25/03 09:20 Received: 08/26/03 09:30								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	4.3		1.0	ug/L	B3H0082	08/26/03	08/27/03	8270C/SOP315
Surrogate: 1,4-Dioxane-d8	*3.46*		*71 %*		*50-130*	"	"	"
0308041-02 : GW303-MW02A-0055 Water Sampled: 08/25/03 10:30 Received: 08/26/03 09:30								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	97		20	ug/L	B3H0082	08/26/03	09/02/03	8270C/SOP315
Surrogate: 1,4-Dioxane-d8	*3.76*		*68 %*		*50-130*	"	"	*08/27/03*

United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Site Cleanup Section 4	**Project:** Omega Chemical August 2003 Sampling	
75 Hawthorne Street	**Project Number:** R03S75	**SDG:**03232A
San Francisco CA, 94105	**Project Manager:** Chris Lichens	**Reported:**09/22/03 11:53

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
0308041-03 : GW303-MW05A-0049 Water Sampled: 08/25/03 08:40 Received: 08/26/03 09:30								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	60		20	ug/L	B3H0082	08/26/03	09/02/03	8270C/SOP315
Surrogate: 1,4-Dioxane-d8	*3.91*		*81 %*		*50-130*	*"*	*"*	*08/27/03*

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Site Cleanup Section 4	**Project:** Omega Chemical August 2003 Sampling	
75 Hawthorne Street	**Project Number:** R03S75	**SDG:**03232A
San Francisco CA, 94105	**Project Manager:** Chris Lichens	**Reported:**09/22/03 11.53

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
EPA Region 9 Laboratory

Batch B3H0067 - 3520B CLLE

Blank (B3H0067-BLK1) Prepared 08/21/03 Analyzed 08/25/03

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	ND	U	1 0	ug/L						
Surrogate 1,4-Dioxane-d8	*3 62*			"	*4 98*		*73*	*50-130*		

LCS (B3H0067-BS1) Prepared 08/21/03 Analyzed 08/25/03

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	10		1 0	ug/L	10 0		100	50-130		
Surrogate 1,4-Dioxane-d8	*4 12*			"	*5 02*		*82*	*50-130*		

Matrix Spike (B3H0067-MS1) Source 0308028-05 Prepared 08/21/03 Analyzed 08/25/03

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	25		1 8	ug/L	17 8	5 4	110	50-130		
Surrogate 1,4-Dioxane-d8	*5 17*			"	*8 91*		*58*	*50-130*		

Matrix Spike Dup (B3H0067-MSD1) Source 0308028-05 Prepared 08/21/03 Analyzed 08/25/03

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	27		2 1	ug/L	20 6	5 4	105	50-130	8	30
Surrogate 1,4-Dioxane-d8	*7 57*			"	*10 3*		*73*	*50-130*		

Batch B3H0082 - 3520B CLLE

Blank (B3H0082-BLK1) Prepared 08/26/03 Analyzed 08/27/03

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	ND	U	1 0	ug/L						
Surrogate 1 4-Dioxane-d8	*3 68*			"	*5 02*		*73*	*50-130*		

LCS (B3H0082-BS1) Prepared 08/26/03 Analyzed 08/27/03

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	10		1 0	ug/L	10 0		100	50-130		
Surrogate 1,4-Dioxane-d8	*3 21*			"	*5 02*		*64*	*50-130*		

United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804
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Site Cleanup Section 4	**Project:** Omega Chemical August 2003 Sampling	
75 Hawthorne Street	**Project Number:** R03S75	**SDG:**03232A
San Francisco CA, 94105	**Project Manager:** Chris Lichens	**Reported:**09/22/03 11:53

Qualifiers and Comments

U	Not Detected
NR	Not Reported

United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street Building 201
Richmond, CA 94804

Subject: **Analytical Testing Results - Project R03S75**

SDG: 03232A

From: **Brenda Bettencourt, Director**

EPA Region 9 Laboratory
PMD-2

To: **Loren Henning**
Site Cleanup Section 4
SFD-7-4

Attached are the results from the analysis of samples from the **Omega Chemical August 2003 Sampling** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Vance Fong at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Analyses included in this report:

Perchlorate

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
GW303-MW04A-0047	0308028-01	Water	08/19/03 09:40	08/20/03 09:30
GW303-MW04A-1047	0308028-02	Water	08/19/03 09:50	08/20/03 09:30
GW303-MW04B-0075	0308028-03	Water	08/19/03 11:40	08/20/03 09:30
GW303-MW04C-0094	0308028-04	Water	08/19/03 13:10	08/20/03 09:30
GW303-MW10A-0057	0308028-05	Water	08/19/03 14:15	08/20/03 09:30
GW303-MW08A-0040	0308032-01	Water	08/20/03 10:00	08/21/03 11:05
GW303-MW08B-0070	0308032-02	Water	08/20/03 08:30	08/21/03 11:05
GW303-MW08C-0087	0308032-03	Water	08/20/03 09:15	08/21/03 11:05
GW303-MW08D-0116	0308032-04	Water	08/20/03 11:00	08/21/03 11:05
GW303-MW01A-0055	0308039-01	Water	08/21/03 10:30	08/23/03 10:30
GW303-MW01B-0080	0308039-02	Water	08/21/03 11:10	08/23/03 10:30
GW303-MW01B-1080	0308039-03	Water	08/21/03 11:15	08/23/03 10:30
GW303-MW03A-0042	0308039-04	Water	08/22/03 10:15	08/23/03 10:30
GW303-MW07A-0041	0308039-05	Water	08/21/03 12:30	08/23/03 10:30
GW303-MW09A-0032	0308039-06	Water	08/21/03 08:30	08/23/03 10:30
GW303-MW09B-0054	0308039-07	Water	08/21/03 09:15	08/23/03 10:30
GW303-MW11A-0045	0308039-08	Water	08/22/03 09:10	08/23/03 10:30
GW303-GW06A-0042	0308041-01	Water	08/25/03 09:20	08/26/03 09:30
GW303-MW02A-0055	0308041-02	Water	08/25/03 10:30	08/26/03 09:30
GW303-MW05A-0049	0308041-03	Water	08/25/03 08:40	08/26/03 09:30

Conventional Chemistry Parameters by APHA/EPA Methods
EPA Region 9 Laboratory

Analyte	Result	Qualifiers /	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
0308028-01 : GW303-MW04A-0047 Water Sampled: 08/19/03 09:40 Received: 08/20/03 09:30								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	3.2		2.0	ug/L	B3H0078	09/08/03	09/08/03	314.0/SOP531
0308028-02 : GW303-MW04A-1047 Water Sampled: 08/19/03 09:50 Received: 08/20/03 09:30								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	3.3		2.0	ug/L	B3H0078	09/08/03	09/08/03	314.0/SOP531
0308028-03 : GW303-MW04B-0075 Water Sampled: 08/19/03 11:40 Received: 08/20/03 09:30								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	4.4		2.0	ug/L	B3H0078	09/08/03	09/08/03	314.0/SOP531
0308028-04 : GW303-MW04C-0094 Water Sampled: 08/19/03 13:10 Received: 08/20/03 09:30								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	3.2		2.0	ug/L	B3H0078	09/08/03	09/08/03	314.0/SOP531
0308028-05 : GW303-MW10A-0057 Water Sampled: 08/19/03 14:15 Received: 08/20/03 09:30								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	3.1		2.0	ug/L	B3H0078	09/08/03	09/08/03	314.0/SOP531
0308032-01 : GW303-MW08A-0040 Water Sampled: 08/20/03 10:00 Received: 08/21/03 11:05								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	4.4		2.0	ug/L	B3H0078	09/08/03	09/08/03	314.0/SOP531
0308032-02 : GW303-MW08B-0070 Water Sampled: 08/20/03 08:30 Received: 08/21/03 11:05								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	3.9		2.0	ug/L	B3H0078	09/08/03	09/08/03	314.0/SOP531
0308032-03 : GW303-MW08C-0087 Water Sampled: 08/20/03 09:15 Received: 08/21/03 11:05								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	3.4		2.0	ug/L	B3H0078	09/08/03	09/08/03	314.0/SOP531
0308032-04 : GW303-MW08D-0116 Water Sampled: 08/20/03 11:00 Received: 08/21/03 11:05								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	1.8	C1, J	2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531

0308039-01 : GW303-MW01A-0055 Water Sampled: 08/21/03 10:30 Received: 08/23/03 10:30
Conventional Chemistry Parameters by APHA/EPA Methods

Perchlorate	3.5		2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531

0308039-02 : GW303-MW01B-0080 Water Sampled: 08/21/03 11:10 Received: 08/23/03 10:30
Conventional Chemistry Parameters by APHA/EPA Methods

Perchlorate	1.9	Cl, J	2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531

0308039-03 : GW303-MW01B-1080 Water Sampled: 08/21/03 11:15 Received: 08/23/03 10:30
Conventional Chemistry Parameters by APHA/EPA Methods

Perchlorate	2.5		2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531

0308039-04 : GW303-MW03A-0042 Water Sampled: 08/22/03 10:15 Received: 08/23/03 10:30
Conventional Chemistry Parameters by APHA/EPA Methods

Perchlorate	1.2	Cl, J	2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531

0308039-05 : GW303-MW07A-0041 Water Sampled: 08/21/03 12:30 Received: 08/23/03 10:30
Conventional Chemistry Parameters by APHA/EPA Methods

Perchlorate	6.2		2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531

0308039-06 : GW303-MW09A-0032 Water Sampled: 08/21/03 08:30 Received: 08/23/03 10:30
Conventional Chemistry Parameters by APHA/EPA Methods

Perchlorate	1.7	Cl, J	2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531

0308039-07 : GW303-MW09B-0054 Water Sampled: 08/21/03 09:15 Received: 08/23/03 10:30
Conventional Chemistry Parameters by APHA/EPA Methods

Perchlorate	3.8		2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531

0308039-08 : GW303-MW11A-0045 Water Sampled: 08/22/03 09:10 Received: 08/23/03 10:30
Conventional Chemistry Parameters by APHA/EPA Methods

Perchlorate	4.7		2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531

0308041-01 : GW303-GW06A-0042 Water Sampled: 08/25/03 09:20 Received: 08/26/03 09:30
Conventional Chemistry Parameters by APHA/EPA Methods

Perchlorate	3.6		2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531

0308041-02 : GW303-MW02A-0055 Water Sampled: 08/25/03 10:30 Received: 08/26/03 09:30
Conventional Chemistry Parameters by APHA/EPA Methods

Perchlorate	4.2		2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531

0308041-03 : GW303-MW05A-0049 Water Sampled: 08/25/03 08:40 Received: 08/26/03 09:30
Conventional Chemistry Parameters by APHA/EPA Methods

Perchlorate	4.1		2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
EPA Region 9 Laboratory

Batch B3H0078 - - General Inorganic

Blank (B3H0078-BLK2) Prepared & Analyzed: 09/08/03

Analyte	Result	Qualifiers /	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Perchlorate	ND	U	2.0	ug/L						

Blank (B3H0078-BLK4) Prepared: 09/08/03 Analyzed: 09/09/03

Analyte	Result	Qualifiers /	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Perchlorate	ND	U	2.0	ug/L						

LCS (B3H0078-BS2) Prepared & Analyzed: 09/08/03

Analyte	Result	Qualifiers /	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Perchlorate	9.7		2.0	ug/L	10.0		97	85-115		

LCS (B3H0078-BS4) Prepared: 09/08/03 Analyzed: 09/09/03

Analyte	Result	Qualifiers /	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Analyte	Result	Qualifiers /	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Perchlorate	10		2.0	ug/L	10.0		100	85-115		

Matrix Spike (B3H0078-MS4) Source: 0308045-06 Prepared: 09/08/03 Analyzed: 09/09/03

Analyte	Result	Qualifiers /	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Perchlorate	12		2.0	ug/L	10.0	2.4	96	80-120		

Matrix Spike Dup (B3H0078-MSD4) Source: 0308045-06 Prepared: 09/08/03 Analyzed: 09/09/03

Analyte	Result	Qualifiers /	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Perchlorate	12		2.0	ug/L	10.0	2.4	96	80-120	0	15

Qualifiers and Comments

C1	The reported concentration for this analyte is below the quantitation limit.
J	The reported result for this analyte should be considered an estimated value.
U	Not Detected
NR	Not Reported

United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street Building 201
Richmond, CA 94804

Subject: **Analytical Testing Results - Project R03S75**

SDG: 03240B

From: **Brenda Bettencourt, Director**
EPA Region 9 Laboratory
PMD-2

To: **Chirs Lichens**
Site Cleanup Section 4
SFD-7-4

Attached are the results from the analysis of samples from the **Omega Chemical August 2003 Sampling** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Vance Fong at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Analyses included in this report:

Perchlorate

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
GW303-OW1A-0080	0308045-01	Water	08/26/03 14:20	08/28/03 10:09
GW303-OW1B-0116	0308045-02	Water	08/26/03 15:00	08/28/03 10:09
GW303-OW2-0078	0308045-03	Water	08/27/03 11:15	08/28/03 10:09
GW303-OW3-0080	0308045-04	Water	08/26/03 13:00	08/28/03 10:09
GW303-OW4A-0073	0308045-05	Water	08/27/03 15:30	08/28/03 10:09
GW303-OW4B-0125	0308045-06	Water	08/27/03 14:20	08/28/03 10:09
GW303-OW7-0081	0308045-07	Water	08/26/03 16:10	08/28/03 10:09
GW303-OW8-0075	0308045-08	Water	08/27/03 08:45	08/28/03 10:09
GW303-OW5-0048	0308049-01	Water	08/28/03 08:45	08/29/03 10:00
GW303-OW5-1048	0308049-02	Water	08/28/03 08:50	08/29/03 10:00
GW303-OW6-0048	0308049-03	Water	08/28/03 10:15	08/29/03 10:00

Conventional Chemistry Parameters by APHA/EPA Methods
EPA Region 9 Laboratory

Analyte	Result	Qualifiers /	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
0308045-01 : GW303-OW1A-0080 Water Sampled: 08/26/03 14:20 Received: 08/28/03 10:09								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	2.4		2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531
0308045-02 : GW303-OW1B-0116 Water Sampled: 08/26/03 15:00 Received: 08/28/03 10:09								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	ND	U	2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531
0308045-03 : GW303-OW2-0078 Water Sampled: 08/27/03 11:15 Received: 08/28/03 10:09								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	3.1		2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531
0308045-04 : GW303-OW3-0080 Water Sampled: 08/26/03 13:00 Received: 08/28/03 10:09								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	2.8		2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531
0308045-05 : GW303-OW4A-0073 Water Sampled: 08/27/03 15:30 Received: 08/28/03 10:09								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	2.2		2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531
0308045-06 : GW303-OW4B-0125 Water Sampled: 08/27/03 14:20 Received: 08/28/03 10:09								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	2.4		2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531
0308045-07 : GW303-OW7-0081 Water Sampled: 08/26/03 16:10 Received: 08/28/03 10:09								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	2.6		2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531
0308045-08 : GW303-OW8-0075 Water Sampled: 08/27/03 08:45 Received: 08/28/03 10:09								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	2.4		2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531
0308049-01 : GW303-OW5-0048 Water Sampled: 08/28/03 08:45 Received: 08/29/03 10:00								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	2.0		2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531
0308049-02 : GW303-OW5-1048 Water Sampled: 08/28/03 08:50 Received: 08/29/03 10:00								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	2.4		2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531
0308049-03 : GW303-OW6-0048 Water Sampled: 08/28/03 10:15 Received: 08/29/03 10:00								
Conventional Chemistry Parameters by APHA/EPA Methods								
Perchlorate	ND	U	2.0	ug/L	B3H0078	09/08/03	09/09/03	314.0/SOP531

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
EPA Region 9 Laboratory

Batch B3H0078 - - General Inorganic

Blank (B3H0078-BLK2) Prepared & Analyzed: 09/08/03

Analyte	Result	Qualifiers /	Quantitation Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit
Perchlorate	ND	U	2.0	ug/L				

Blank (B3H0078-BLK4) Prepared: 09/08/03 Analyzed: 09/09/03

Analyte	Result	Qualifiers /	Quantitation Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit
Perchlorate	ND	U	2.0	ug/L				

LCS (B3H0078-BS2) Prepared & Analyzed: 09/08/03

Analyte	Result	Qualifiers /	Quantitation Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit
Perchlorate	9.7		2.0	ug/L	10.0		97	85-115

Mon, Oct 6, 2003

LCS (B3H0078-BS4) Prepared: 09/08/03 Analyzed: 09/09/03

Analyte	Result	Qualifiers /	Quantitation Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit
Perchlorate	10		2.0	ug/L	10.0		100	85-115

Matrix Spike (B3H0078-MS4) Source: 0308045-06 Prepared: 09/08/03 Analyzed: 09/09/03

Analyte	Result	Qualifiers / Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Perchlorate	12	2.0	ug/L	10.0	2.4	96	80-120		

Matrix Spike Dup (B3H0078-MSD4) Source: 0308045-06 Prepared: 09/08/03 Analyzed: 09/09/03

Analyte	Result	Qualifiers / Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Perchlorate	12	2.0	ug/L	10.0	2.4	96	80-120	0	15

Qualifiers and Comments

U Not Detected

NR Not Reported

APPENDIX D
CHAINS OF CUSTODY

EPA USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	32073	R
DAS No:	R03S75	

Region:	9	Date Shipped:	8/19/2003	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	835859426571	1 8/19/03 1630	Fed. Express 8/19/03 1630
CERCLIS ID:	CAD042245001	Shipped to:	ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MY0ZP5	Ground Water/ Anitra Rice	L/G	CN (21), TM (21)	(NaOH) (2) 1 HNO3	GW303-MW04A-0047	S: 8/19/2003 9:40	Y0ZP5	--
MY0ZP6	Ground Water/ Anitra Rice	L/G	CN (21), TM (21)	(HNO3) (2) 1 NaOH	GW303-MW04A-1047	S: 8/19/2003 9:50	Y0ZP6	Field Duplicate
MY0ZP7	Ground Water/ Anitra Rice	L/G	CN (21), TM (21)	(NaOH) (2) 1 HNO3	GW303-MW04B-0075	S: 8/19/2003 11:40	Y0ZP7	--
MY0ZP8	Ground Water/ Anitra Rice	L/G	CN (21), TM (21)	(HNO3) (2) 1 NaOH	GW303-MW04C-0094	S: 8/19/2003 13:10	Y0ZP8	--
MY0ZQ8	Ground Water/ Bill Clarke	L/G	CN (21), TM (21)	(NaOH) (2) 1 HNO3	GW303-MW10A-0057	S: 8/19/2003 14:15	Y0ZQ8	--
MY0ZT5	Ground Water/ Anitra Rice	L/G	DM (21)	(HNO3) (1)	GW303-MW04A-0047	S: 8/19/2003 9:40	Y0ZP5	--
MY0ZT6	Ground Water/ Anitra Rice	L/G	DM (21)	(HNO3) (1)	GW303-MW04A-1047	S: 8/19/2003 9:50	Y0ZP6	Field Duplicate
MY0ZT7	Ground Water/ Anitra Rice	L/G	DM (21)	(HNO3) (1)	GW303-MW04B-0075	S: 8/19/2003 11:40	Y0ZP7	--
MY0ZT8	Ground Water/ Anitra Rice	L/G	DM (21)	(HNO3) (1)	GW303-MW04C-0094	S: 8/19/2003 13:10	Y0ZP8	--
MY0ZW8	Ground Water/ Bill Clarke	L/G	DM (21)	(HNO3) (1)	GW303-MW10A-0057	S: 8/19/2003 14:15	Y0ZQ8	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____
CN = Cyanide, DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals			

TR Number: 9-200434794-081803-0002

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USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: 32073
Client No: R03S75

R

Region:	9	**Date Shipped:**	8/19/2003	**Chain of Custody Record**	**Sampler Signature:**
Project Code:		**Carrier Name:**	FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:		**Airbill:**	835859426582	1 8/19/03 1630	Fed. Express 8/19/03 1630
CERCLIS ID:	CAD042245001	**Shipped to:**	USEPA Region 9 Laboratory 1337 S. 46th Street, Building 201 Richmond CA 94804 (510) 412-2300	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
GW303-MW04A-0047	Ground Water/ Anitra Rice	L/G	1,4-Diox (21), Perch (21)	(Ice Only) (3)	GW303-MW04A-0047	S: 8/19/2003 9:40	–
GW303-MW04A-1047	Ground Water/ Anitra Rice	L/G	1,4-Diox (21), Perch (21)	(Ice Only) (3)	GW303-MW04A-1047	S: 8/19/2003 9:50	Field Duplicate
GW303-MW04B-0075	Ground Water/ Anitra Rice	L/G	1,4-Diox (21), Perch (21)	(Ice Only) (3)	GW303-MW04B-0075	S: 8/19/2003 11:40	–
GW303-MW04C-0094	Ground Water/ Anitra Rice	L/G	Perch (21)	(Ice Only) (1)	GW303-MW04C-0094	S: 8/19/2003 13:10	–
GW303-MW10A-0057	Ground Water/ Bill Clarke	L/G	1,4-Diox (21), Perch (21)	(Ice Only) (3)	GW303-MW10A-0057	S: 8/19/2003 14:15	–

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key: 1,4-Diox = 1,4-Dioxane, Perch = Perchlorate	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: 9-200434794-081803-0003

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(3)

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	32073	R
DAS No:	R03S75	

Region:	9	Date Shipped:	8/20/2003	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	835859426593	1 [illegible] 8/20/03 1600	Fed. Express 8/20/03 1600
CERCLIS ID:	CAD042245001	Shipped to:	Ceimic Corporation 10 Dean Knauss Drive Narragansett RI 02882 (401) 782-8900	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
Y0ZP5	Ground Water/ Anitra Rice	(1) H/G	VOA (21)	(HCL) (3)	GW303-MW04A-0047	S: 8/19/2003 9:40	MY0ZP5, MY0ZT5	--
Y0ZP6	Ground Water/ Anitra Rice	(1) H/G	VOA (21)	(HCL) (3)	GW303-MW04A-1047	S: 8/19/2003 9:50	MY0ZP6, MY0ZT6	Field Duplicate
Y0ZP7	Ground Water/ Anitra Rice	(1) H/G	VOA (21)	(HCL) (3)	GW303-MW04B-0075	S: 8/19/2003 11:40	MY0ZP7, MY0ZT7	--
Y0ZS1	Ground Water/ Amanda Cohan	L/G	VOA (21)	(HCL) (3)	GW303-MW04B-2001	S: 8/19/2003 11:45		Trip Blank

Estimated concentrations:
(1) - > 200 ppb PCE

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TR Number: 9-200434794-081903-0003

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	32073	R
DAS No:	R03S75	

Region:	9	Date Shipped:	8/20/2003	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	835859426608	1 8/20/03 1600	Fed. Express 8/20/03 1600
CERCLIS ID:	CAD042245001	Shipped to:	Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
Y0ZP8	Ground Water/ Anitra Rice	L/G	VOA (21)	(HCL) (3)	GW303-MW04C-0094	S: 8/19/2003 13:10	MY0ZP8, MY0ZT8	--
Y0ZQ2	Ground Water/ Bill Clarke	L/G	VOA (21)	(HCL) (3)	GW303-MW08A-0040	S: 8/20/2003 10:00	MY0ZQ2, MY0ZW2	--
Y0ZQ3	Ground Water/ Bill Clarke	L/G	VOA (21)	(HCL) (6)	GW303-MW08B-0070	S: 8/20/2003 8:30	MY0ZQ3, MY0ZW3	--
Y0ZQ4	Ground Water/ Bill Clarke	L/G	VOA (21)	(HCL) (3)	GW303-MW08C-0087	S: 8/20/2003 9:15	MY0ZQ4, MY0ZW4	--
Y0ZQ5	Ground Water/ Bill Clarke	L/G	VOA (21)	(HCL) (3)	GW303-MW08D-0116	S: 8/20/2003 11:00	MY0ZQ5, MY0ZW5	--
Y0ZQ8	Ground Water/ Bill Clarke	L/G	VOA (21)	(HCL) (3)	GW303-MW10A-0057	S: 8/19/2003 14:15	MY0ZQ8, MY0ZW8	--
Y0ZS2	Ground Water/ Bill Clarke	L/G	VOA (21)	(HCL) (3)	GW303-MW08A-2002	S: 8/20/2003 10:05		Trip Blank

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: Y0ZQ3	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TR Number: 9-200434794-081903-0004

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	32073
DAS No:	R03S75

R

Region:	9	Date Shipped:	8/20/2003	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	835859426619	1 [illegible] 8/20/03 1600	Fed. Express 8/20/03 1600
CERCLIS ID:	CAD042245001	Shipped to:	ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
MY0ZQ2	Ground Water/ Bill Clarke	L/G	CN (21), TM (21)	(HNO3) (2) ; NaOH	GW303-MW08A-0040	S: 8/20/2003	10:00	Y0ZQ2	–
MY0ZQ3	Ground Water/ Bill Clarke	L/G	CN (21), TM (21)	(HNO3) (4) ; NaOH	GW303-MW08B-0070	S: 8/20/2003	8:30	Y0ZQ3	–
MY0ZQ4	Ground Water/ Bill Clarke	L/G	CN (21), TM (21)	(HNO3) (2) ; NaOH	GW303-MW08C-0087	S: 8/20/2003	9:15	Y0ZQ4	–
MY0ZQ5	Ground Water/ Bill Clarke	L/G	CN (21), TM (21)	(NaOH) (2) ; HNO3	GW303-MW08D-0116	S: 8/20/2003	11:00	Y0ZQ5	–
MY0ZW2	Ground Water/ Bill Clarke	L/G	DM (21)	100 (HNO3) (1)	GW303-MW08A-0040	S: 8/20/2003	10:00	Y0ZQ2	–
MY0ZW3	Ground Water/ Bill Clarke	L/G	DM (21)	(HNO3), 100 (HNO3) (2)	GW303-MW08B-0070	S: 8/20/2003	8:30	Y0ZQ3	–
MY0ZW4	Ground Water/ Bill Clarke	L/G	DM (21)	(HNO3) (1)	GW303-MW08C-0087	S: 8/20/2003	9:15	Y0ZQ4	–
MY0ZW5	Ground Water/ Bill Clarke	L/G	DM (21)	(HNO3) (1)	GW303-MW08D-0116	S: 8/20/2003	11:00	Y0ZQ5	–

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MY0ZQ3, MY0ZW3	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key: CN = Cyanide, DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TR Number: 9-200434794-081903-0002

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USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: 32073
Client No: R03S75

R

Region:	9	**Date Shipped:**	8/20/2003	**Chain of Custody Record**	**Sampler Signature:**
Project Code:		**Carrier Name:**	FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:		**Airbill:**	837031307012	1 [illegible] 8/20/03 1600	Fed. Express 8/20/03 1600
CERCLIS ID:	CAD042245001	**Shipped to:**	USEPA Region 9 Laboratory 1337 S. 46th Street, Building 201 Richmond CA 94804 (510) 412-2300	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
GW303-MW08A-0040	Ground Water/ Bill Clarke	L/G	1,4-Diox (21), Perch (21)	(Ice Only) (3)	GW303-MW08A-0040	S: 8/20/2003 10:00	–
GW303-MW08B-0070	Ground Water/ Bill Clarke	L/G	Perch (21)	(Ice Only) (2)	GW303-MW08B-0070	S: 8/20/2003 8:30	–
GW303-MW08C-0087	Ground Water/ Bill Clarke	L/G	Perch (21)	(Ice Only) (1)	GW303-MW08C-0087	S: 8/20/2003 9:15	–
GW303-MW08D-0116	Ground Water/ Bill Clarke	L/G	Perch (21)	(Ice Only) (1)	GW303-MW08D-0116	S: 8/20/2003 11:00	–

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** GW303-MW08B-0070	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key: 1,4-Diox = 1,4-Dioxane, Perch = Perchlorate	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: 9-200434794-081903-0001

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	32073	R
DAS No:	R03S75	

Region:	9	Date Shipped:	8/21/2003	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	835859426620	1 [illegible] 8/21/03 1600	Fed. Express 8/21/03 1600
CERCLIS ID:	CAD042245001	Shipped to:	Ceimic Corporation 10 Dean Knauss Drive Narragansett RI 02882 (401) 782-8900	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
Y0ZP0	Ground Water/ Amanda Cohan	①H/G	VOA (21)	(HCL) (3)	GW303-MW01A-0055	S: 8/21/2003 10:30	MY0ZP0, MY0ZT0	--
Y0ZP1	Ground Water/ Amanda Cohan	①H/G	VOA (21)	(HCL) (3)	GW303-MW01B-0080	S: 8/21/2003 11:10	MY0ZP1, MY0ZT1	--
Y0ZP2	Ground Water/ Amanda Cohan	①H/G	VOA (21)	(HCL) (3)	GW303-MW01B-1080	S: 8/21/2003 11:15	MY0ZP2, MY0ZT2	Field Duplicate
Y0ZS3	Ground Water/ Amanda Cohan	L/G	VOA (21)	(HCL) (3)	GW303-MW01A-2003	S: 8/21/2003 10:35		Trip Blank

① Estimated Concentration
> 200 ppb TCE

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TR Number: 9-200434794-082003-0002

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 32073
DAS No: R03S75
R

Region: 9	**Date Shipped:** 8/21/2003	**Chain of Custody Record**	**Sampler Signature:**
Project Code:	**Carrier Name:** FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:	**Airbill:** 835859426630	1 8/21/03 1600	Fed Express 8/21/03 1600
CERCLIS ID: CAD042245001	**Shipped to:** Mitkem Corporation, 175 Metro Center Blvd., Warwick RI 02886, (401) 732-3400	2	
Spill ID:		3	
Site Name/State: Omega Chemical, 3Q03/CA		4	
Project Leader: Bill Clarke			
Action: Combined RI/FS			
Sampling Co: Weston Solutions, Inc.			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
Y0XT0	Ground Water/ Amanda Cohan	L/G	VOA (21)	(HCL) (3)	GW303-MW09A-2009	S: 8/21/2003 8:35		Trip Blank
Y0ZQ1	Ground Water/ Bill Clarke	L/G	VOA (21)	(HCL) (3)	GW303-MW07A-0041	S: 8/21/2003 12:30	MY0ZQ1, MY0ZW1	–
Y0ZQ6	Ground Water/ Bill Clarke	L/G	VOA (21)	(HCL) (3)	GW303-MW09A-0032	S: 8/21/2003 8:30	MY0ZQ6, MY0ZW6	–
Y0ZQ7	Ground Water/ Bill Clarke	L/G	VOA (21)	(HCL) (3)	GW303-MW09B-0054	S: 8/21/2003 9:15	MY0ZQ7, MY0ZW7	–

Shipment for Case Complete? Y / N	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key: VOA = CLP TCL Volatiles	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: 9-200434794-082003-0003

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	32073
DAS No:	R03S75

R

Region:	9	Date Shipped:	8/21/2003	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	835859426641	1 4/21/03 1600	Fed. Express 8/21/03 1600
CERCLIS ID:	CAD042245001	Shipped to:	ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MY0ZP0	Ground Water/ Amanda Cohan	L/G	CN (21), TM (21)	(NaOH) (2) ; HNO3	GW303-MW01A-0055	S: 8/21/2003 10:30	Y0ZP0	–
MY0ZP1	Ground Water/ Amanda Cohan	L/G	CN (21), TM (21)	(NaOH) (2) ; HNO3	GW303-MW01B-0080	S: 8/21/2003 11:10	Y0ZP1	–
MY0ZP2	Ground Water/ Amanda Cohan	L/G	CN (21), TM (21)	(NaOH) (2) ; HNO3	GW303-MW01B-1080	S: 8/21/2003 11:15	Y0ZP2	Field Duplicate
MY0ZQ1	Ground Water/ Bill Clarke	L/G	CN (21), TM (21)	(HNO3) (2) ; NaOH	GW303-MW07A-0041	S: 8/21/2003 12:30	Y0ZQ1	–
MY0ZQ6	Ground Water/ Bill Clarke	L/G	CN (21), TM (21)	(NaOH) (2) ; HNO3	GW303-MW09A-0032	S: 8/21/2003 8:30	Y0ZQ6	–
MY0ZQ7	Ground Water/ Bill Clarke	L/G	CN (21), TM (21)	(HNO3) (2) ; NaOH	GW303-MW09B-0054	S: 8/21/2003 9:15	Y0ZQ7	–
MY0ZT0	Ground Water/ Amanda Cohan	L/G	DM (21)	(HNO3) (1)	GW303-MW01A-0055	S: 8/21/2003 10:30	Y0ZP0	–
MY0ZT1	Ground Water/ Amanda Cohan	L/G	DM (21)	(HNO3) (1)	GW303-MW01B-0080	S: 8/21/2003 11:10	Y0ZP1	–
MY0ZT2	Ground Water/ Amanda Cohan	L/G	DM (21)	(HNO3) (1)	GW303-MW01B-1080	S: 8/21/2003 11:15	Y0ZP2	Field Duplicate
MY0ZW1	Ground Water/ Bill Clarke	L/G	DM (21)	100 (HNO3) (1)	GW303-MW07A-0041	S: 8/21/2003 12:30	Y0ZQ1	–
MY0ZW6	Ground Water/ Bill Clarke	L/G	DM (21)	(HNO3) (1)	GW303-MW09A-0032	S: 8/21/2003 8:30	Y0ZQ6	–

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

CN = Cyanide, DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals

TR Number: 9-200434794-082003-0001

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	32073	R
DAS No:	R03S75	

Region:	9	Date Shipped:	8/21/2003	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	835859426641	1	
CERCLIS ID:	CAD042245001	Shipped to:	ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MY0ZW7	Ground Water/ Bill Clarke	L/G	DM (21)	(HNO3) (1)	GW303-MW09B-0054	S: 8/21/2003 9:15	Y0ZQ7	–

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

CN = Cyanide, DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals

TR Number: 9-200434794-082003-0001

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USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: 32073
Client No: R03S75

R

Region:	9	**Date Shipped:**	8/22/2003	**Chain of Custody Record**	**Sampler Signature:**
Project Code:		**Carrier Name:**	FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:		**Airbill:**	835859426652	1 8/22/03 1400	Fed. Express 8/22/03 1400
CERCLIS ID:	CAD042245001	**Shipped to:**	USEPA Region 9 Laboratory 1337 S. 46th Street, Building 201 Richmond CA 94804 (510) 412-2300	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
GW303-MW01A-0055	Ground Water/ Amanda Cohan	L/G	Perch (21)	(Ice Only) (1)	GW303-MW01A-0055	S: 8/21/2003 10:30	–
GW303-MW01B-0080	Ground Water/ Amanda Cohan	L/G	Perch (21)	(Ice Only) (1)	GW303-MW01B-0080	S: 8/21/2003 11:10	–
GW303-MW01B-1080	Ground Water/ Amanda Cohan	L/G	Perch (21)	(Ice Only) (1)	GW303-MW01B-1080	S: 8/21/2003 11:15	Field Duplicate
GW303-MW03A-0042	Ground Water/ Amanda Cohan	L/G	Perch (21)	(Ice Only) (1)	GW303-MW03A-0042	S: 8/22/2003 10:15	–
GW303-MW07A-0041	Ground Water/ Bill Clarke	L/G	Perch (21)	(Ice Only) (1)	GW303-MW07A-0041	S: 8/21/2003 12:30	–
GW303-MW09A-0032	Ground Water/ Bill Clarke	L/G	Perch (21)	(Ice Only) (1)	GW303-MW09A-0032	S: 8/21/2003 8:30	–
GW303-MW09B-0054	Ground Water/ Bill Clarke	L/G	Perch (21)	(Ice Only) (1)	GW303-MW09B-0054	S: 8/21/2003 9:15	–
GW303-MW11A-0045	Ground Water/ Bill Clarke	L/G	Perch (21)	(Ice Only) (1)	GW303-MW11A-0045	S: 8/22/2003 9:10	–

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key: Perch = Perchlorate	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: 9-200434794-082103-0001

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 32073
DAS No: R03S75

R

Region:	9	**Date Shipped:**	8/22/2003	**Chain of Custody Record**	**Sampler Signature:**
Project Code:		**Carrier Name:**	FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:		**Airbill:**	835859426663	1 8/22/03 1600	Fed. Express 8/22/03 1600
CERCLIS ID:	CAD042245001	**Shipped to:**	Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
Y0ZP4	Ground Water/ Amanda Cohan	L/G	VOA (21)	(HCL) (3)	GW303-MW03A-0042	S: 8/22/2003 10:15	MY0ZP4, MY0ZT4	--
Y0ZQ9	Ground Water/ Bill Clarke	L/G	VOA (21)	(HCL) (3)	GW303-MW11A-0045	S: 8/22/2003 9:10	MY0ZQ9, MY0ZW9	--
Y0ZS4	Ground Water/ Amanda Cohan	L/G	VOA (21)	(HCL) (3)	GW303-MW03A-2004	S: 8/22/2003 10:20		Trip Blank

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key: VOA = CLP TCL Volatiles	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: 9-200434794-082103-0003

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(12)

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	32073
DAS No:	R03S75

R

Region:	9	Date Shipped:	8/22/2003	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	835859426674	1 8/22/03 1400	Fed. Express 8/22/03 1400
CERCLIS ID:	CAD042245001	Shipped to:	ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
MY0ZP4	Ground Water/ Amanda Cohan	L/G	CN (21), TM (21)	(NaOH) (2) +HNO3	GW303-MW03A-0042	S: 8/22/2003	10:15	Y0ZP4	–
MY0ZQ9	Ground Water/ Bill Clarke	L/G	CN (21), TM (21)	(NaOH) (2) +HNO3	GW303-MW11A-0045	S: 8/22/2003	9:10	Y0ZQ9	–
MY0ZT4	Ground Water/ Amanda Cohan	L/G	DM (21)	(HNO3) (1)	GW303-MW03A-0042	S: 8/22/2003	10:15	Y0ZP4	–
MY0ZW9	Ground Water/ Bill Clarke	L/G	DM (21)	(HNO3) (1)	GW303-MW11A-0045	S: 8/22/2003	9:10	Y0ZQ9	–

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____
CN = Cyanide, DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals			

TR Number: 9-200434794-082103-0002

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(13)

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	32073	R
DAS No:	R03S75	

Region:	9	Date Shipped:	8/25/2003	Chain of Custody Record	Sampler Signature: [signature]
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	835859426685	1 [signature] 8/25/03 1400	Fed. Express 8/25/03 1400
CERCLIS ID:	CAD042245001	Shipped to:	Ceimic Corporation 10 Dean Knauss Drive Narragansett RI 02882 (401) 782-8900	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
Y0ZP3	Ground Water/ Amanda Cohan	(1) H/G	VOA (21)	(HCL) (3)	GW303-MW02A-0055	S: 8/25/2003 10:30	MY0ZP3, MY0ZT3	--
Y0ZP9	Ground Water/ Amanda Cohan	(1) H/G	VOA (21)	(HCL) (3)	GW303-MW05A-0049	S: 8/25/2003 8:40	MY0ZP9, MY0ZT9	--
Y0ZQ0	Ground Water/ Amanda Cohan	(2) H/G	VOA (21)	(HCL) (3)	GW303-GW06A-0042	S: 8/25/2003 9:20	MY0ZQ0, MY0ZW0	--
Y0ZS5	Ground Water/ Amanda Cohan	L/G	VOA (21)	(HCL) (3)	GW303-MW02A-2005	S: 8/25/2003 10:35		Trip Blank

Estimated concentrations:
(1) > 1000 ppb PCE
(2) > 200 ppb PCE

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TR Number: 9-200434794-082403-0003

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	32073
DAS No:	R03S75

R

Region:	9	Date Shipped:	8/25/2003	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	835859426696	1 [illegible] 8/25/03 1400	Fed. Express 8/25/03 1400
CERCLIS ID:	CAD042245001	Shipped to:	ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MY0ZP3	Ground Water/ Amanda Cohan	L/G	CN (21), TM (21)	(NaOH) (2) HNO3	GW303-MW02A-0055	S: 8/25/2003 10:30	Y0ZP3	--
MY0ZP9	Ground Water/ Amanda Cohan	L/G	CN (21), TM (21)	(NaOH) (2) HNO3	GW303-MW05A-0049	S: 8/25/2003 8:40	Y0ZP9	--
MY0ZQ0	Ground Water/ Amanda Cohan	L/G	CN (21), TM (21)	(NaOH) (2) HNO3	GW303-GW06A-0042	S: 8/25/2003 9:20	Y0ZQ0	--
MY0ZT3	Ground Water/ Amanda Cohan	L/G	DM (21)	(HNO3) (1)	GW303-MW02A-0055	S: 8/25/2003 10:30	Y0ZP3	--
MY0ZT9	Ground Water/ Amanda Cohan	L/G	DM (21)	(HNO3) (1)	GW303-MW05A-0049	S: 8/25/2003 8:40	Y0ZP9	--
MY0ZW0	Ground Water/ Amanda Cohan	L/G	DM (21)	100 (HNO3) (1)	GW303-GW06A-0042	S: 8/25/2003 9:20	Y0ZQ0	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____
CN = Cyanide, DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals			

TR Number: 9-200434794-082403-0002

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(15)

USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: 32073
Client No: R03S75

R

Region:	9	**Date Shipped:**	8/25/2003	**Chain of Custody Record**	**Sampler Signature:**
Project Code:		**Carrier Name:**	FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:		**Airbill:**	833686155369	1 [signature] 8/25/03 1400	Fed. Express 8/25/03 1400
CERCLIS ID:	CAD042245001	**Shipped to:**	USEPA Region 9 Laboratory 1337 S. 46th Street, Building 201 Richmond CA 94804 (510) 412-2300	2	
Split ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
GW303-GW06A-0042	Ground Water/ Amanda Cohan	L/G	1,4-Diox (21), Perch (21)	(Ice Only) (3)	GW303-GW06A-0042	S: 8/25/2003 9:20	--
GW303-MW02A-0055	Ground Water/ Amanda Cohan	L/G	1,4-Diox (21), Perch (21)	(Ice Only) (3)	GW303-MW02A-0055	S: 8/25/2003 10:30	--
GW303-MW05A-0049	Ground Water/ Amanda Cohan	L/G	1,4-Diox (21), Perch (21)	(Ice Only) (3)	GW303-MW05A-0049	S: 8/25/2003 8:40	--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key: 1,4-Diox = 1,4-Dioxane, Perch = Perchlorate	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: 9-200434794-082403-0001

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	32073
DAS No:	R03S75

R

Region:	9	Date Shipped:	8/27/2003	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	835859426700	1 8/27/03 1600	Fed. Express 8/27/03 1600
CERCLIS ID:	CAD042245001	Shipped to:	ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MY0ZR0	Ground Water/ Zuniga Gerardo	L/G	CN (21), TM (21)	(HNO3) (2) · NaOH	GW303-OW1A-0080	S: 8/26/2003 14:20	Y0ZR0	--
MY0ZR1	Ground Water/ Zuniga Gerardo	L/G	CN (21), TM (21)	(NaOH) (2) · HNO_3	GW303-OW1B-0116	S: 8/26/2003 15:00	Y0ZR1	--
MY0ZR3	Ground Water/ Zuniga Gerardo	L/G	CN (21), TM (21)	(NaOH) (2) · HNO_3	GW303-OW3-0080	S: 8/26/2003 13:00	Y0ZR3	--
MY0ZR9	Ground Water/ Zuniga Gerardo	L/G	CN (21), TM (21)	(HNO3) (2) · NaOH	GW303-OW7-0081	S: 8/26/2003 16:10	Y0ZR9	--
MY0ZX3	Ground Water/ Zuniga Gerardo	L/G	DM (21)	(HNO3) (1)	GW303-OW3-0080	S: 8/26/2003 13:00	Y0ZR3	--
MY0ZX9	Ground Water/ Zuniga Gerardo	L/G	DM (21)	(HNO3) (1)	GW303-OW7-0081	S: 8/26/2003 16:10	Y0ZR9	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____
CN = Cyanide, DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals			

TR Number: 9-200434794-082603-0002

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	32073	R
DAS No:	R03S75	

Region:	9	Date Shipped:	8/27/2003	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	835859426711	1 8/27/03 1600	Fed Ex 8/27/03 1600
CERCLIS ID:	CAD042245001	Shipped to:	ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
MY0ZR2	Ground Water/ Zuniga Gerardo	L/G	CN (21), TM (21)	(HNO3) (2) ; NaOH	GW303-OW2-0078	S: 8/27/2003	11:15	Y0ZR2	–
MY0ZR4	Ground Water/ Zuniga Gerardo	L/G	CN (21), TM (21)	(NaOH) (2) ; HNO3	GW303-OW4A-0073	S: 8/27/2003	15:30	Y0ZR4	–
MY0ZR5	Ground Water/ Zuniga Gerardo	L/G	CN (21), TM (21)	(NaOH) (4) ; HNO3	GW303-OW4B-0125	S: 8/27/2003	14:20	Y0ZR5	–
MY0ZS0	Ground Water/ Zuniga Gerardo	L/G	CN (21), TM (21)	(HNO3) (2) ; NaOH	GW303-OW8-0075	S: 8/27/2003	8:45	Y0ZS0	–
MY0ZX2	Ground Water/ Zuniga Gerardo	L/G	DM (21)	(HNO3) (1)	GW303-OW2-0078	S: 8/27/2003	11:15	Y0ZR2	–
MY0ZX4	Ground Water/ Zuniga Gerardo	L/G	DM (21)	(HNO3) (1)	GW303-OW4A-0073	S: 8/27/2003	15:30	Y0ZR4	–
MY0ZX5	Ground Water/ Zuniga Gerardo	L/G	DM (21)	(HNO3) (2)	GW303-OW4B-0125	S: 8/27/2003	14:20	Y0ZR5	–
MY0ZY0	Ground Water/ Zuniga Gerardo	L/G	DM (21)	100 (HNO3) (1)	GW303-OW8-0075	S: 8/27/2003	8:45	Y0ZS0	–

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MY0ZR5, MY0ZX5	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____
CN = Cyanide, DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals			

TR Number: 9-200434794-082603-0003

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USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: 32073
Client No: R03S75

Region:	9	**Date Shipped:**	8/27/2003	**Chain of Custody Record**	**Sampler Signature:**
Project Code:		**Carrier Name:**	FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:		**Airbill:**	833686155358	1 8/27/03 1600	Fed. Express 8/27/03 1600
CERCLIS ID:	CAD042245001	**Shipped to:**	USEPA Region 9 Laboratory 1337 S. 46th Street, Building 201 Richmond CA 94804 (510) 412-2300	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
GW303-OW1 A-0080	Ground Water/ Zuniga Gerardo	L/G	1,4-Diox (21), Perch (21)	(Ice Only) (3)	GW303-OW1A-0080	S: 8/26/2003 14:20	–
GW303-OW1 B-0116	Ground Water/ Zuniga Gerardo	L/G	1,4-Diox (21), Perch (21)	(Ice Only) (3)	GW303-OW1B-0116	S: 8/26/2003 15:00	–
GW303-OW2-0078	Ground Water/ Zuniga Gerardo	L/G	Perch (21)	(Ice Only) (1)	GW303-OW2-0078	S: 8/27/2003 11:15	–
GW303-OW3-0080	Ground Water/ Zuniga Gerardo	L/G	Perch (21)	(Ice Only) (1)	GW303-OW3-0080	S: 8/26/2003 13:00	–
GW303-OW4 A-0073	Ground Water/ Zuniga Gerardo	L/G	1,4-Diox (21), Perch (21)	(Ice Only) (3)	GW303-OW4A-0073	S: 8/27/2003 15:30	–
GW303-OW4 B-0125	Ground Water/ Zuniga Gerardo	L/G	Perch (21)	(Ice Only) (2)	GW303-OW4B-0125	S: 8/27/2003 14:20	–
GW303-OW7-0081	Ground Water/ Zuniga Gerardo	L/G	Perch (21)	(Ice Only) (1)	GW303-OW7-0081	S: 8/26/2003 16:10	–
GW303-OW8-0075	Ground Water/ Zuniga Gerardo	L/G	1,4-Diox (21), Perch (21)	(Ice Only) (3)	GW303-OW8-0075	S: 8/27/2003 8:45	–

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** GW303-OW4B-0125	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key: 1,4-Diox = 1,4-Dioxane, Perch = Perchlorate	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: 9-200434794-082603-0001

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	32073
DAS No:	R03S75

R

Region:	9	Date Shipped:	8/27/2003	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	835859426722	1 8/27/03 1600	Fed. Express 8/27/03 1600
CERCLIS ID:	CAD042245001	Shipped to:	Ceimic Corporation 10 Dean Knauss Drive Narragansett RI 02882 (401) 782-8900	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
Y0ZR0	Ground Water/ Zuniga Gerardo	(1) H/G	VOA (21)	(HCL) (3)	GW303-OW1A-0080	S: 8/26/2003 14:20	MY0ZR0, MY0ZX0	--
Y0ZR2	Ground Water/ Zuniga Gerardo	(2) H/G	VOA (21)	(HCL) (3)	GW303-OW2-0078	S: 8/27/2003 11:15	MY0ZR2, MY0ZX2	--
Y0ZR3	Ground Water/ Zuniga Gerardo	(2) H/G	VOA (21)	(HCL) (3)	GW303-OW3-0080	S: 8/26/2003 13:00	MY0ZR3, MY0ZX3	--
Y0ZR5	Ground Water/ Zuniga Gerardo	(3) H/G	VOA (21)	(HCL) (6)	GW303-OW4B-0125	S: 8/27/2003 14:20	MY0ZR5, MY0ZX5	--
Y0ZS0	Ground Water/ Zuniga Gerardo	(1) H/G	VOA (21)	(HCL) (3)	GW303-OW8-0075	S: 8/27/2003 8:45	MY0ZS0, MY0ZY0	--
Y0ZS6	Ground Water/ Zuniga Gerardo	L/G	VOA (21)	(HCL) (3)	GW303-OW1A-2006	S: 8/26/2003 14:25		Trip Blank

Estimated concentrations:
(1) > 10,000 ppb PCE
(2) > 1,000 ppb PCE
(3) > 200 ppb Acetone

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: Y0ZR5	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TR Number: 9-200434794-082603-0004

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	32073
DAS No:	R03S75

R

Region:	9	Date Shipped:	8/27/2003	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	835859426733	1 4/27/03 1600	Fed. Exp. 8/27/03 1600
CERCLIS ID:	CAD042245001	Shipped to:	Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
Y0ZR1	Ground Water/ Zuniga Gerardo	L/G	VOA (21)	(HCL) (3)	GW303-OW1B-0116	S: 8/26/2003 15:00	MY0ZR1, MY0ZX1	--
Y0ZR4	Ground Water/ Zuniga Gerardo	L/G	VOA (21)	(HCL) (3)	GW303-OW4A-0073	S: 8/27/2003 15:30	MY0ZR4, MY0ZX4	--
Y0ZR9	Ground Water/ Zuniga Gerardo	L/G	VOA (21)	(HCL) (3)	GW303-OW7-0081	S: 8/26/2003 16:10	MY0ZR9, MY0ZX9	--
Y0ZS7	Ground Water/ Zuniga Gerardo	L/G	VOA (21)	(HCL) (3)	GW303-OW4A-2007	S: 8/27/2003 15:35		Trip Blank
Y0ZS9	Ground Water/ Zuniga Gerardo	L/G	VOA (21)	(HCL) (3)	GW303-OW7-4001	S: 8/26/2003 16:15		Rinsate

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TR Number: 9-200434794-082603-0005

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(2)

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	32073
DAS No:	R03S75

R

Region:	9	Date Shipped:	8/28/2003	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	835859426939	1 8/28/03 1400	Fed. Express 8/28/03 1400
CERCLIS ID:	CAD042245001	Shipped to:	ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
MY0ZR6	Ground Water/ Zuniga Gerardo	L/G	CN (21), TM (21)	(HNO3) (2) ; NaOH	GW303-OW5-0048	S: 8/28/2003	8:45	Y0ZR6	--
MY0ZR7	Ground Water/ Zuniga Gerardo	L/G	CN (21), TM (21)	(NaOH) (2) ; HNO3	GW303-OW5-1048	S: 8/28/2003	8:50	Y0ZR7	Field Duplicate
MY0ZR8	Ground Water/ Zuniga Gerardo	L/G	CN (21), TM (21)	(HNO3) (2) ; NaOH	GW303-OW6-0048	S: 8/28/2003	10:15	Y0ZR8	--
MY0ZX6	Ground Water/ Zuniga Gerardo	L/G	DM (21)	(HNO3) (1)	GW303-OW5-0048	S: 8/28/2003	8:45	Y0ZR6	--
MY0ZX7	Ground Water/ Zuniga Gerardo	L/G	DM (21)	(HNO3) (1)	GW303-OW5-1048	S: 8/28/2003	8:50	Y0ZR7	Field Duplicate
MY0ZX8	Ground Water/ Zuniga Gerardo	L/G	DM (21)	(HNO3) (1)	GW303-OW6-0048	S: 8/28/2003	10:15	Y0ZR8	--

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____
CN = Cyanide, DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals			

TR Number: 9-200434794-082703-0002

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USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: 32073
Client No: R03S75

Region:	9	**Date Shipped:**	8/28/2003	**Chain of Custody Record**	**Sampler Signature:**
Project Code:		**Carrier Name:**	FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:		**Airbill:**	833686155347	1 8/28/03 1400	Fed. Express 8/28/03 1400
CERCLIS ID:	CAD042245001	**Shipped to:**	USEPA Region 9 Laboratory 1337 S. 46th Street, Building 201 Richmond CA 94804 (510) 412-2300	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		QC Type
GW303-OW5-0048	Ground Water/ Zuniga Gerardo	L/G	1,4-Diox (21), Perch (21)	(Ice Only) (3)	GW303-OW5-0048	S: 8/28/2003	8:45	–
GW303-OW5-1048	Ground Water/ Zuniga Gerardo	L/G	1,4-Diox (21), Perch (21)	(Ice Only) (3)	GW303-OW5-1048	S: 8/28/2003	8:50	Field Duplicate
GW303-OW6-0048	Ground Water/ Zuniga Gerardo	L/G	1,4-Diox (21), Perch (21)	(Ice Only) (3)	GW303-OW6-0048	S: 8/28/2003	10:15	–

Shipment for Case Complete? Y	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key: 1,4-Diox = 1,4-Dioxane, Perch = Perchlorate	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: 9-200434794-082703-0001

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	32073	R
DAS No:	R03S75	

Region:	9	Date Shipped:	8/28/2003	Chain of Custody Record	Sampler Signature: [signature]
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	835859426940	1 [signature] 8/28/03 1400	Fed. Express 8/28/03 1400
CERCLIS ID:	CAD042245001	Shipped to:	Ceimic Corporation 10 Dean Knauss Drive Narragansett RI 02882 (401) 782-8900	2	
Spill ID:				3	
Site Name/State:	Omega Chemical, 3Q03/CA			4	
Project Leader:	Bill Clarke				
Action:	Combined RI/FS				
Sampling Co:	Weston Solutions, Inc.				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
Y0ZR6	Ground Water/ Zuniga Gerardo	(1) H/G	VOA (21)	(HCL) (3)	GW303-OW5-0048	S: 8/28/2003	8:45	MY0ZR6, MY0ZX6	–
Y0ZR7	Ground Water/ Zuniga Gerardo	(1) H/G	VOA (21)	(HCL) (3)	GW303-OW5-1048	S: 8/28/2003	8:50	MY0ZR7, MY0ZX7	Field Duplicate
Y0ZR8	Ground Water/ Zuniga Gerardo	(2) H/G	VOA (21)	(HCL) (3)	GW303-OW6-0048	S: 8/28/2003	10:15	MY0ZR8, MY0ZX8	–
Y0ZS8	Ground Water/ Zuniga Gerardo	L/G	VOA (21)	(HCL) (3)	GW303-OW6-2008	S: 8/28/2003	10:20		Trip Blank

Estimated concentrations:
(1) > 200 ppb TCE
(2) > 200 ppb Freon 113

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TR Number: 9-200434794-082703-0003

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APPENDIX E
PURGE RECORDS

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs

Work Order Number: 20074.515.009.0331

Date: 8/21/03

Weather Conditions: CLOUDY - WARM

Time: 0948

Well Sampled By: GZ - BL

General Information

Well ID Number: MW01A

Organic CLP ID #: ~~YOG~~ YOZPO

Inorganic CLP ID #: MYOCTO, ~~MO~~ MYOZPO RML

Initial Depth to Water (feet): 34.90

Final Depth to Water (feet): ~~34.90~~ 34.91 RML

PID Reading: 0.0

Purging Field Parameters

Time	Volume (gal)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP	Water Quality	Water Level (ft.)
0948	0.01	7.11	1236		7.08	24.2	303	CLEAR	34.93
0951	0.05	7.07	1293		6.74	23.7	300	CLEAR	34.93
0954	0.88	7.08	1295		7.01	23.5	301	CLEAR	34.93
0957	1.0	7.08	1299		6.76	23.5	314	CLEAR	34.91
10:00	1.5	7.08	1298		6.97	23.4	303	CLEAR	34.92
10:03	2.0	7.08	1296		6.73	23.6	303	CLEAR	34.92
10:06	2.5	7.08	1302		6.51	23.4	302	CLEAR	34.92
10:09	3.0	7.08	1302		6.59	23.5	301	CLEAR	34.92
10:12	3.5	7.08	1300		6.27	23.4	321	CLEAR	34.92
10:15	4.0	7.09	1300		5.91	23.3	304	CLEAR	34.92
10:18									

Sample Number: GW303-MW01A-0055

Sample Time: 10:30

Field Duplicate: ____ Yes ✓ No

Sample Time: _____

Field Duplicate Number. _____

Organic CLP ID #: _____, **Inorganic CLP ID #:** _____

MS/MSD Sample Volume: ____ Yes ✓ No

Trip Blank: X Yes ____ No

Sample Time: 10:35

Trip Blank Number: GW303-MW01A-2003

Organic CLP ID #: YOZ53

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals

(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**

(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

Field pH Verification: Metals ✓, Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs

Work Order Number: 20074.515.009.0331

Date: 8/21/03

Weather Conditions: CLOUDY - WARM

Time: 10:28

Well Sampled By: GZ - BL

General Information

Well ID Number: MW01B

Organic CLP ID #: YOZP1

Inorganic CLP ID #: MYOZP1, ~~MO~~MYOZT1 RML

Initial Depth to Water (feet): 34.79

Final Depth to Water (feet): 34.92

PID Reading: 0.0

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP	Water Quality	Water Level (ft.)
10:30	0.02	7.19	1130	—	3.30	24.1	257	CLEAR	34.97
10:33	0.7	7.22	1123	—	1.19	23.4	217	CLEAR	34.96
10:36	1.2	7.22	1117	—	1.26	23.4	229	CLEAR	34.96
10:39	2.0	7.21	1115	—	0.99	23.3	213	CLEAR	34.95
10:42	2.5	7.22	1116	—	1.09	23.5	224	CLEAR	34.93
10:45	3.0	7.26	1123	—	1.10	22.8	221	CLEAR	34.95
10:48	3.5	7.26	1127	—	1.05	23.6	232	CLEAR	34.94
10:51	4.0	7.28	1125	—	1.53	23.4	243	CLEAR	34.99
10:54	4.5	7.27	1138	—	1.38	23.5	222	CLEAR	34.93
10:57	5.0	7.26	1142	—	1.56	23.5	225	CLEAR	34.94
11:00	5.5	7.26	1144	—	1.60	23.3	238	CLEAR	34.94

Sample Number: GW303-MW01B-0080

Sample Time: 11:10

Field Duplicate: X Yes ___ No

Field Duplicate Number: GW303-MW01B-1080

Sample Time: 11:15

Organic CLP ID #: YOZP2, **Inorganic CLP ID #:** ~~MYOP~~ MYOZP2 RML MOZT2

MS/MSD Sample Volume: ___ Yes ✓ No

Trip Blank: ___ Yes ✓ No

Trip Blank Number: _____

Sample Time: _____

Organic CLP ID #: _____

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals

(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**

(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

Field pH Verification: Metals ✓, Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs

Work Order Number: 20074, 515.009, 0331

Date: 8-25-03

Weather Conditions: SUNNY, WARM

Time: 940

Well Sampled By: MS & GZ

General Information

Well ID Number: MW02A

Organic CLP ID #: Y0ZP3

Inorganic CLP ID #: MY02T3, MY02P3

Initial Depth to Water (feet): 31.40

Final Depth to Water (feet): 31.48

PID Reading: Not Measured

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP	Water Quality	Water Level (ft.)
943	0.3	7.12	1445	—	—	23.1	101	CLEAR	31.42
946	0.7	7.12	1459	—	—	23.0	76	CLEAR	31.42
949	1.3	7.10	1462	—	—	23.0	58	CLEAR	31.43
952	1.7	7.13	1462	—	—	23.0	60	CLEAR	31.43
955	2.0	7.13	1460	—	—	23.4	71	CLEAR	31.45
958	2.3	7.13	1460	—	—	23.5	134	CLEAR	31.45
1001	2.7	7.12	1459	—	—	23.7	135	CLEAR	31.45
1004	3.1	7.11	1460	—	—	23.9	137	CLEAR	31.47
1007	3.4	7.13	1461	—	—	23.9	140	CLEAR	31.47
1010	3.7	7.13	1457	—	—	23.9	140	CLEAR	31.47

Sample Number: GW303-MW02A-0055

Sample Time: 1030

Field Duplicate: ____ Yes X No

Sample Time: _____

Field Duplicate Number: _____

Organic CLP ID #: _____, **Inorganic CLP ID #:** _____

MS/MSD Sample Volume: ____ Yes X No

Trip Blank: X Yes ____ No

Sample Time: 1035.

Trip Blank Number: GW303-MW02A-2005

Organic CLP ID #: Y0ZS5

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals

(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**

(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

(2) L-Amber Bottles - 1,4-Dioxane

Field pH Verification: Metals ✓, Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs
Work Order Number: 20074.515.009.0331
Weather Conditions: SUNNY WARM
Well Sampled By: MS & GZ

Date: 8-22-03
Time: 937

General Information

Well ID Number: MW03A
Organic CLP ID #: YOZ54
Inorganic CLP ID #: MYOZP4, MYOZT4

Initial Depth to Water (feet): 29.33
PID Reading: 0.0

Final Depth to Water (feet): 29.40

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP	Water Quality	Water Level (ft.)
940	0.3	6.95	1606			22.5	174	CLEAR	29.35
943	0.7	6.92	1624			22.1	152	CLEAR	29.37
946	1.0	6.92	1628			22.0	146	CLEAR	29.36
949	1.3	6.92	1626			22.0	148	CLEAR	29.35
952	1.6	6.92	1627			22.1	146	CLEAR	29.35
955	1.9	6.92	1624			22.1	148	CLEAR	29.39
958	2.3	6.92	1625			22.2	152	CLEAR	29.39
1001	2.7	6.92	1622			22.3	154	CLEAR	29.40
1004	3.0	6.92	1621			22.3	155	CLEAR	29.40
1007	3.3	6.92	1619			22.4	156	CLEAR	29.40

Sample Number: GW303-MW03A-0042
Sample Time: 1015

Field Duplicate: ____ Yes X No
Field Duplicate Number: _____
MS/MSD Sample Volume: ____ Yes X No
Trip Blank: X Yes ~~No~~ MS
Trip Blank Number: GW303-MW03A-2004

Sample Time: _____
Organic CLP ID #: _____, **Inorganic CLP ID #:** _____

Sample Time: 1020
Organic CLP ID #: YOZP4

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals
(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**
(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate
(2) L-Amber Bottles - 1,4-Dioxane

Field pH Verification: Metals ✓, Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs
Work Order Number: 20074.515.009.0331
Weather Conditions: Partial overcast, humid
Well Sampled By: AR / BC

Date: 8-19-03
Time: 0900

General Information

Well ID Number: MW04A
Organic CLP ID #: Y0ZP5
Inorganic CLP ID #: MY0ZT5, MY0ZP5

Initial Depth to Water (feet): 26.59 8-19-03
PID Reading: 0.0

Final Depth to Water (feet): 26.60

Start Pumping: 9:10

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP mV	Water Quality	Water Level (ft.)
9:13	0.20	7.09	NM	NM	NM	23.6	211		26.59
9:16	0.25	7.09				23.7	212		26.59
9:19	0.26	7.10				23.8	215		26.59
9:22	0.28	7.10				23.8	215		26.59
9:25	0.29	7.11				23.9	216		26.61
9:28	0.31	7.11				23.9	218		26.61
9:31	0.33	7.11				23.9	219		26.61
9:34	1.50	7.11				23.9	220		26.60
9:37	1.70	7.11				23.8	222		26.60
9:40									

Sample Number: GW303-MW04A-0047
Sample Time: 0940

Field Duplicate: X Yes ___ No
Sample Time: 0950
Field Duplicate Number: GW303-MW04A-1047
Organic CLP ID #: Y0ZP6, **Inorganic CLP ID #:** MY0ZP6 MY0ZT6
MS/MSD Sample Volume: ___ Yes X No
Trip Blank: ___ Yes X No
Sample Time: _____
Trip Blank Number: _____
Organic CLP ID #: _____

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals
(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**
(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate
(2) L-Amber Bottles - 1,4-Dioxane

Field pH Verification: Metals 1-2, Total CN^- 13

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs
Work Order Number: 20074.515.009.0331
Weather Conditions: Hazy sun, 90°, wind sw@0-3
Well Sampled By: AR/BC

Date: 8-19-03
Time: 1040

General Information

Well ID Number: MW04B
Organic CLP ID #: 40287
Inorganic CLP ID #: MY0287, MY02T7

Initial Depth to Water (feet): 26.46 8-19-03
PID Reading: 0-0

Final Depth to Water (feet): 26.45

Start time: 10:52

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP mV	Water Quality	Water Level (ft.)
10:55	0.2	7.15	NM	NM	NM	23.8	271	Clear	26.48
10:58	0.4	7.10				25.6	278		26.48
11:01	1.0	7.09				26.0	280		26.47
11:04	1.20	7.09				26.1	280		26.47
11:07	1.40	7.08				26.5	281		26.47
11:10	1.60	7.08				26.7	280		26.46
11:13	1.80	7.08				26.8	281		26.46
11:16	2.00	7.09				26.9	281		26.45
11:19	2.20	7.09				25.7	281		26.45
11:22	2.40	7.10				24.7	279		26.45
11:25	2.60	7.10				24.1	277		26.45

Sample Number: GW303-MW04B-0075
Sample Time: 1140

Field Duplicate: ____ Yes X No
Field Duplicate Number: _____
MS/MSD Sample Volume: ____ Yes ____ No
Trip Blank: X Yes ____ No
Trip Blank Number: GW303-MW048-2001

Sample Time: ——
Organic CLP ID #: 40287, **Inorganic CLP ID #:** MY0287 MY02T7 (dissolved)

Sample Time: 1145
Organic CLP ID #: 40251

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals
(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**
(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate
(2) L-Amber Bottles - 1,4-Dioxane

Field pH Verification: Metals 1-2, Total CN^- 13

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs
Work Order Number: 20074 515.009.0331
Date: 8-19-03
Weather Conditions: Hazy sun, 90°+, wind SW@5
Time: 1215
Well Sampled By: AR/BC

General Information

Well ID Number: MW04C
Organic CLP ID #: Y02P8
Inorganic CLP ID #: MY02P8, MY02T8
Initial Depth to Water (feet): 28.58 8-19-03
Final Depth to Water (feet): 28.64
PID Reading: _____
Start pump: 1225

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP mV	Water Quality	Water Level (ft.)
1228	0.2	7.37	NM	NM	NM	23.8	249	Clear	28.64
1231	1.0	7.30	NM	NM	NM	22.5	243		28.64
1234	1.3	7.28	NM	NM	NM	23.0	246		28.61
1237	1.4	7.25	NM	NM	NM	24.9	248		28.61
1240	1.7	7.23	NM	NM	NM	26.5	251		28.61
1243	2.0	7.23	NM	NM	NM	26.6	255		28.62
1246	2.2	7.23	NM	NM	NM	24.9	255		28.64
1249	2.5	7.23	NM	NM	NM	24.4	246		28.64
1252	2.7	7.23	NM	NM	NM	24.2	239		28.64
1255	2.8	7.23	NM	NM	NM	24.1	242		28.64
1258	2.9	7.23	NM	NM	NM	24.0	242		28.64

Sample Number: GW303-MW04C-0094
Sample Time: 1310

Field Duplicate: ____ Yes X No
Sample Time: —
Field Duplicate Number: _____
Organic CLP ID #: _____, **Inorganic CLP ID #:** _____
MS/MSD Sample Volume: ____ Yes X No
Trip Blank: ____ Yes X No
Sample Time: —
Trip Blank Number: _____
Organic CLP ID #: _____

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals
(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**
(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

Field pH Verification: Metals ✓, Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs

Work Order Number: 20074.515.009.0331

Date: 8-25-03

Weather Conditions: Sunny, Warm

Time: 0745

Well Sampled By: MS & GZ

General Information

Well ID Number: MW05A

Organic CLP ID #: Y0ZP9

Inorganic CLP ID #: MY0ZP9, MY0ZT9

Initial Depth to Water (feet): 29.37

Final Depth to Water (feet): 29.37

PID Reading: 0.0

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP	Water Quality	Water Level (ft.)
0750	0.5	7.15	1463	—	—	22.4	114	clear	29.37
0753	1.0	7.13	1474	—	—	22.4	113	clear	29.37
0756	1.5	7.11	1477	—	—	22.4	116	clear	29.35
0759	2.0	7.12	1479	—	—	22.5	113	clear	29.35
0802	2.1	7.12	1478	—	—	22.7	114	clear	29.35
0805	2.2	7.13	1480	—	—	22.8	113	clear	29.35
0808	2.5	7.13	1479	—	—	23.0	113	CLEAR	29.35
0811	2.7	7.14	1481	—	—	23.1	117	CLEAR	29.35
0814	2.8	7.12	1477	—	—	23.2	124	CLEAR	29.35
0817	2.9	7.11	1478	—	—	23.3	124	CLEAR	29.37
0830	3.1	7.11	1477	—	—	23.3	120	CLEAR	29.37

Sample Number: GW303-MW05A-0049

Sample Time: 0830

Field Duplicate: ____ Yes ✓ No

Sample Time: _____

Field Duplicate Number: _____

Organic CLP ID #: _____, **Inorganic CLP ID #:** _____

MS/MSD Sample Volume: ____ Yes ✓ No

Trip Blank: ____ Yes ✓ No

Sample Time: _____

Trip Blank Number: _____

Organic CLP ID #: _____

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals

(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**

(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

(2) L-Amber Bottles - 1,4-Dioxane

Field pH Verification: Metals ✓, Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs

Work Order Number: 20074.515.009.0331

Date: 8-25-03

Weather Conditions SUNNY WARM

Time: 845

Well Sampled By: MS DGZ

General Information

Well ID Number: MW06A

Organic CLP ID #: Y0ZQ0

Inorganic CLP ID #: MY0ZQ0, MY0ZW0

Initial Depth to Water (feet): 29.74

Final Depth to Water (feet): 29.75

PID Reading 0.0

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP	Water Quality	Water Level (ft.)
848	0.6	7.14	1825	—	—	22.2	122	CLEAR	29.75
851	1.0	7.09	1831	—	—	22.1	116	CLEAR	29.75
854	1.4	7.09	1831	—	—	22.1	108	CLEAR	29.75
857	1.7	7.08	1834	—	—	22.0	102	CLEAR	29.75
900	2.0	7.08	1827	—	—	22.0	104	CLEAR	29.75
903	2.5	7.08	1828	—	—	22.0	101	CLEAR	29.75
906	2.7	7.08	1829	—	—	22.1	104	CLEAR	29.75
909	3.0	7.08	1826	—	—	22.2	102	CLEAR	29.75
912	3.2	7.08	1826	—	—	22.3	108	CLEAR	29.75
915	3.5	7.07	1824	—	—	22.5	105	CLEAR	29.75

Sample Number GW303-MW06A-0042

Sample Time: 920

Field Duplicate: ____ Yes X No

Sample Time: _____

Field Duplicate Number: _____

Organic CLP ID #: _____, **Inorganic CLP ID #:** _____

MS/MSD Sample Volume: ____ Yes X No

Trip Blank: ____ Yes X No

Sample Time: _____

Trip Blank Number _____

Organic CLP ID #: _____

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals

(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**

(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

(2) L-Amber Bottles - 1,4-Dioxane

Field pH Verification: Metals ✓, Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs

Work Order Number: 20074-515009-0331

Date: 8/21/03

Weather Conditions: CLOUDY - WARM

Time: 11:39

Well Sampled By: GZ - BL

General Information

Well ID Number: MW07A

Organic CLP ID #: YOZQ1

Inorganic CLP ID #: MYOZQ1, ~~MOMO~~ RMC MYOZW1

Initial Depth to Water (feet): 23.30

Final Depth to Water (feet): 23.30

PID Reading: 0 0

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP	Water Quality	Water Level (ft.)
11:46	0.01	6.99	2530		8.22	23.8	283	CLEAR	23.31
11:49	0.5	6.92	2540		5.26	23.5	293	CLEAR	23.31
11:52	1.0	6.93	2550		4.84	23.2	301	CLEAR	23.30
11:55	1.5	6.94	2570		4.56	22.9	305	CLEAR	23.32
11:58	2.0	6.96	2580		3.92	23.7	274	CLEAR	23.33
12:01	2.5	6.96	2580		3.78	23.8	268	CLEAR	23.31
12:04	3.0	6.98	2580		3.81	23.4	287	CLEAR	23.30
12:07	3.5	6.98	2590		3.84	23.4	283	CLEAR	23.31
12:10	4.0	6.97	2590		3.56	23.7	273	CLEAR	23.31
12:13	5.0	6.97	2590		3.86	23.6	272	CLEAR	23.31
12:16	5.5	6.96	2590		3.74	25.5	279	CLEAR	23.81

Sample Number: GW303-MW07A-0041

Sample Time: _____

Field Duplicate: ____ Yes ✓ No

Sample Time: _____

Field Duplicate Number: _____

Organic CLP ID #: _____, **Inorganic CLP ID #:** _____

MS/MSD Sample Volume: ✓ Yes ____ No

Trip Blank: ____ Yes ✓ No

Sample Time: _____

Trip Blank Number: _____

Organic CLP ID #: _____

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals

(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**

(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

Field pH Verification: Metals ✓, Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs
Work Order Number: 26074 515.009 033 /
Weather Conditions: SUNNY, HOT
Well Sampled By: MS & GZ

Date: 8-20-03
Time: 925

General Information

Well ID Number: MW08A
Organic CLP ID #: Y02Q2
Inorganic CLP ID #: MY02Q2, MY02W2

Initial Depth to Water (feet): 30.80
PID Reading. 0-0

Final Depth to Water (feet): 30.85

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP	Water Quality	Water Level (ft.)
928	0.4	6.97	1997	—	2.72	22.2	244	CLEAR	30.84
931	0.8	6.97	1999	—	2.49	22.2	253	CLEAR	30.84
934	1.2	6.97	1998	—	2.59	22.3	251	CLEAR	30.82
937	1.6	6.96	1997	—	2.37	22.3	243	CLEAR	30.80
940	1.9	6.96	1998	—	2.46	22.4	244	CLEAR	30.82
943	2.2	6.96	1997	—	2.60	22.3	241	CLEAR	30.80
946	2.5	6.96	1997	—	2.62	22.4	243	CLEAR	30.80
949	3.0	6.96	1998	—	2.46	22.2	242	CLEAR	30.83
952	3.5	6.96	1998	—	2.28	22.2	241	CLEAR	30.84
955	4.0	6.96	1997	—	2.33	22.2	243	CLEAR	30.86

Sample Number: GW303-MW08A-0040
Sample Time: 1000

Field Duplicate. ____ Yes X No
Sample Time: _____
Field Duplicate Number: _____
Organic CLP ID #: _____, **Inorganic CLP ID #:** _____
MS/MSD Sample Volume: ____ Yes X No
Trip Blank: X Yes ____ No MS
Sample Time: 1005
Trip Blank Number: ~~Y02S2~~ GW303-MW08A-2002
Organic CLP ID #: Y02S2

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals
(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**
(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate
(2) L-Amber Bottles - 1,4-Dioxane

Field pH Verification: Metals ✓, Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs

Work Order Number: 20074 515.009 0331

Date: 8-20-03

Weather Conditions: COOL

Time: 752

Well Sampled By: MS & GZ

General Information

Well ID Number: MW08B

Organic CLP ID #: YOZQ3

Inorganic CLP ID #: MYOZQ3 , MYOZW3

Initial Depth to Water (feet): 30.6

Final Depth to Water (feet): 30.50

PID Reading: 0.0

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP	Water Quality	Water Level (ft.)
755	0.5	7.17	1814		5.98	21.7	333	CLEAR	30.60
758	1.0	7.13	1816		5.86	21.7	332	CLEAR	30.55
801	1.4	7.12	1816		5.84	21.8	330	CLEAR	30.50
804	1.8	7.11	1818		5.89	21.9	321	CLEAR	30.50
807	2.2	7.11	1815		5.97	22.1	316	CLEAR	30.55
810	2.5	7.11	1820		5.90	22.0	317	CLEAR	30.55
813	2.8	7.11	1819		5.79	22.0	321	CLEAR	30.53
816	3.1	7.11	1818		5.87	22.0	320	CLEAR	30.50
819	3.4	7.11	1818		5.57	22.1	324	CLEAR	30.50
822	3.7	7.12	1820		5.62	22.1	325	CLEAR	30.50

Sample Number: GW303-MW08B-0070

Sample Time: 830

Field Duplicate: ____ Yes X No

Sample Time: _____

Field Duplicate Number: _____

Organic CLP ID #: _____ , **Inorganic CLP ID #:** _____

MS/MSD Sample Volume: X Yes ____ No

Trip Blank: ____ Yes X No

Sample Time: _____

Trip Blank Number: _____

Organic CLP ID #: _____

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals

(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**

(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

Field pH Verification: Metals ✓ , Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs

Work Order Number: 20074515009033 1

Date: 8-20-09

Weather Conditions: SUNNY, WARM

Time: 835

Well Sampled By: MS & GZ

General Information

Well ID Number: MW08C

Organic CLP ID #: Y0ZQ4

Inorganic CLP ID #: MY0ZQ4, MY0ZW4

Initial Depth to Water (feet): 31.70

Final Depth to Water (feet): 31.83

PID Reading: 0.0

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP	Water Quality	Water Level (ft.)
~~838~~		~~7.20~~	~~1719~~		~~4.3~~	~~22.3~~	~~4.05~~		
838	0.3	7.20	1719	—	4.05	22.3	-43	CLEAR	31.73
841	0.6	7.15	1738	—	3.41	22.2	-53	CLEAR H_2S SMELL	31.76
844	1.0	7.13	1752	—	1.82	22.2	7	-/-/-	31.76
847	1.3	7.14	1753	—	2.38	22.3	133	CLEAR H_2S SMELL	31.78
850	1.6	7.14	1746	—	2.62	22.2	190	-/-/-	31.79
853	1.9	7.14	1744	—	2.80	22.2	226	CLEAR	31.75
856	2.2	7.15	1747	—	3.13	22.1	248	CLEAR	31.80
859	2.5	7.14	1748	—	3.03	22.2	242	CLEAR	31.80
902	2.8	7.14	1743	—	3.10	22.2	246	CLEAR	31.83
905	3.2		1742	—	3.08	22.2	249	CLEAR	31.83

Sample Number: GW303-MW08C-0087

Sample Time: 915

Field Duplicate: ____ Yes X No

Sample Time: _____

Field Duplicate Number: _____

Organic CLP ID #: _____, **Inorganic CLP ID #:** _____

MS/MSD Sample Volume: ____ Yes X No

Trip Blank: ____ Yes X No

Sample Time: _____

Trip Blank Number: _____

Organic CLP ID #: _____

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals

(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**

(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

Field pH Verification: Metals ✓, Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs

Work Order Number: 20074.515 009.0331

Date: 8-20-03

Weather Conditions: SUNNY HOT

Time: 1012

Well Sampled By: MS & GZ

General Information

Well ID Number: MW08D

Organic CLP ID #: Y0Z25

Inorganic CLP ID #: MY0Z25, MY0ZW5

Initial Depth to Water (feet): 37.70

Final Depth to Water (feet): 37.74

PID Reading: 0.0

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP	Water Quality	Water Level (ft.)
1015	0.3	7.52	1200		1.04	22.0	230	CLEAR	37.73
1018	0.7	7.51	1194		0.96	21.9	226	CLEAR	37.78
1021	1.1	7.51	1194		0.96	22.0	229	CLEAR	37.79
1024	1.6	7.50	1192		0.93	22.0	228	CLEAR	37.79
1027	2.2	7.51	1192		0.94	22.0	232	CLEAR	37.77
1030	2.6	7.47	1177		2.30	22.0	238	CLEAR	37.72
1033	3.2	7.48	1178		2.39	22.1	238	CLEAR	37.74
1036	3.5	7.48	1189		1.73	22.2	230	CLEAR	37.76
1039	4.0	7.48	1194		1.38	22.2	227	CLEAR	37.75
1042	4.4	7.48	1193		1.48	22.2	225	CLEAR	37.74

Sample Number: GW303-MW08D-0116

Sample Time: 1100

Field Duplicate: ____ Yes X No

Sample Time: _____

Field Duplicate Number: _____

Organic CLP ID #: _____, **Inorganic CLP ID #:** _____

MS/MSD Sample Volume: ____ Yes X No

Trip Blank: ____ Yes X No

Sample Time: _____

Trip Blank Number: _____

Organic CLP ID #: _____

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals

(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**

(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

Field pH Verification: Metals _____, Total CN^- _____

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs

Work Order Number: 20074.515.009.0531

Date: 8/21/03

Weather Conditions: CLEAR - WARM

Time: 7:48

Well Sampled By: GZ & BL

General Information

Well ID Number: MW09A
Organic CLP ID #: YOZQ6
Inorganic CLP ID #: MYOZQ6 MYOZW6

Initial Depth to Water (feet): 29.17

Final Depth to Water (feet): 30.22

PID Reading: 0-0

Purging Field Parameters

Time	Volume (gal.)	pH 6.87 RKI	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP mV	Water Quality	Water Level (ft.)
07.54	0.05	~~6.7~~	1926	—	6.86	22.2	250	CLEAR	29.50
07:57	0.50	6.87	1888	—	1.79	21.9	245	CLEAR	29.71
0800	1.0	6.88	1859	—	1.82	21.6	241	CLEAR	29.79
0803	1.5	6.89	1855	—	1.45	21.8	236	CLEAR	30.02
0806	2.0	6.89	1847	—	1.51	21.6	235	CLEAR	30.20
0809	2.5	6.90	1843	—	1.66	21.6	239	CLEAR	30.32
0812	2.55	6.90	1841	—	1.70	22.1	237	CLEAR	30.25
0815	3.0	6.90	1859	—	1.62	21.8	238	CLEAR	30.25
0818	3.2	6.90	1862	—	1.65	22.2	237	CLEAR	30.24
0821	3.5	6.90	1862	—	1.79	21.9	238	CLEAR	30.23
0824	4.0	6.90	1869	—	1.70	22.2	236	CLEAR	30.22
0827									

Sample Number: GW303-MW09A-0032

Sample Time: 0830

Field Duplicate: ____ Yes X No

Sample Time: _____

Field Duplicate Number: _____

Organic CLP ID #: _____, **Inorganic CLP ID #:** _____

MS/MSD Sample Volume: ____ Yes X No

Trip Blank: X Yes ____ No

Sample Time: 8:35

Trip Blank Number: _____

Organic CLP ID #: _____

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals
(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**
(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

Field pH Verification: Metals ✓, Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs

Work Order Number: 20074.515.009.0331

Date: 8/21/03

Weather Conditions: CLEAR WARM

Time: 0838

Well Sampled By: GZ - BL

General Information

Well ID Number: MW09B
Organic CLP ID #: YOZQ7
Inorganic CLP ID #: MYOZO7 , MYOZW7

Initial Depth to Water (feet): 34.79

Final Depth to Water (feet): 34.87

PID Reading: 0.0

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP	Water Quality	Water Level (ft.)
0839	0.02	7.05	1804	—	5.55	21.8	321	CLEAR	34.82
0842	0.5	7.06	1811	—	6.73	21.4	331	CLEAR	34.83
0845	1.0	7.05	1811	—	6.15	21.5	318	CLEAR	34.85
0848	1.5	7.05	1813	—	6.53	21.2	324	CLEAR	34.88
0851	2.0	7.05	1811	—	5.60	21.4	311	CLEAR	34.83
0854	2.2	7.05	1813	—	6.38	21.3	318	CLEAR	34.83
0857	2.5	7.05	1812	—	6.40	21.3	316	CLEAR	34.83
0900	~~0800~~ DNL	2.8	7.05	1811	—	5.88	21.2	306	CLEAR	34.85
0903	~~0805~~ DNL	3.0	7.06	1813	—	5.87	21.3	302	CLEAR	34.86
0906	~~0806~~ DNL	4.0	7.06	1810	—	5.72	21.3	299	CLEAR	34.87
0909	~~0809~~ DNL	4.2	7.06	1813	—	5.72	21.5	302	CLEAR	34.86

Sample Number: GW303-MW09B-0054

Sample Time: 0915

Field Duplicate: ____ Yes ✓ No

Sample Time: _____

Field Duplicate Number: _____

Organic CLP ID #: _____ , **Inorganic CLP ID #:** _____

MS/MSD Sample Volume: ✓ Yes ✓ No

Trip Blank: ____ Yes ✓ No

Sample Time: _____

Trip Blank Number: _____

Organic CLP ID #: _____

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals
(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**
(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

Field pH Verification: Metals ✓ , Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs
Work Order Number: 20074.515.009.0331
Weather Conditions: Hazy sun, 90°+, wind SW 0-5
Well Sampled By: AA/BC

Date: 8-19-03
Time: 1330

General Information

Well ID Number: MW10A
Organic CLP ID #: Y0ZQ8
Inorganic CLP ID #: MY0ZQ8, MY02W8
Initial Depth to Water (feet): 33.82 8-19-03
Final Depth to Water (feet): 33.86
PID Reading: 0.0
Start pump: 1344

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP mV	Water Quality	Water Level (ft.)
1347	0.2	7.50	NM	NM	NM	24.8	197	Clear	33.82
1350	0.3	7.02	NM	NM	NM	24.8	195		33.82
1353	0.4	6.96	NM	NM	NM	24.5	193		33.84
1356	0.8	7.06	NM	NM	NM	24.2	200		33.86
1359	1.2	7.20	NM	NM	NM	23.9	201		33.83
1402	1.5	7.40	NM	NM	NM	23.7	200		33.84
1405	1.7	7.52	NM	NM	NM	23.6	199		33.84
1408	1.9	7.59	NM	NM	NM	23.5	196		33.90
1411	2.1	7.63	NM	NM	NM	23.6	194		33.92
1414	2.4	7.67	NM	NM	NM	23.4	193		33.88
1417	2.7	7.69	NM	NM	NM	23.4	192		33.86

Sample Number: GW303-MW10A-0057
Sample Time: 1415

Field Duplicate: ____ Yes ✓ No
Sample Time: _____
Field Duplicate Number: _____
Organic CLP ID #: _____, **Inorganic CLP ID #:** _____
MS/MSD Sample Volume: ____ Yes ✓ No
Trip Blank: ____ Yes ✓ No
Sample Time: _____
Trip Blank Number: _____
Organic CLP ID #: _____

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals
(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**
(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate
(2) L-Amber Bottles - 1,4-Dioxane

Field pH Verification: Metals ✓, Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs
Work Order Number: 20074 515.009 0331
Weather Conditions: SUNNY WARM
Well Sampled By: MS & GZ

Date: 8-22-03
Time: 836

General Information

Well ID Number: MW11A
Organic CLP ID #: Y02Q9
Inorganic CLP ID #: MY02Q9 , MY02W9

Initial Depth to Water (feet): 37.14
PID Reading: 0 0

Final Depth to Water (feet): 37.20

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP	Water Quality	Water Level (ft.)
~~834~~	~~0.5~~	~~4.08~~	~~2140~~	~~125.~~	—				~~37.16~~
839	0.5	6.80	2140	—	—	22.4	172	CLEAR	37.16
842	1.0	6.82	2140	—	—	22.3	174	CLEAR	37.18
845	1.5	6.85	2150	—	—	22.4	177	CLEAR	37.16
848	1.8	6.86	2150	—	—	22.5	185	CLEAR	37.19
851	2.2	6.87	2140	—	—	22.7	188	CLEAR	37.19
854	2.5	6.88	2140	—	—	22.7	190	CLEAR	37.21
857	2.9	6.87	2150	—	—	22.7	190	CLEAR	37.24
900	3.3	6.87	2150	—	—	22.8	194	CLEAR	37.21
903	3.6	6.86	2150	—	—	22.8	192	CLEAR	37.22
906	4.0	6.87	2140	—	—	22.8	191	CLEAR	37.20

Sample Number: GW303-MW11A-0045
Sample Time: 910

Field Duplicate: ____ Yes ✓ No
Sample Time: _____
Field Duplicate Number: _____
Organic CLP ID #: _____ , **Inorganic CLP ID #:** _____
MS/MSD Sample Volume: ____ Yes ✓ No
Trip Blank: ____ Yes ✓ No
Sample Time: _____
Trip Blank Number: _____
Organic CLP ID #: _____

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals
(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**
(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

Field pH Verification: Metals ✓ , Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs

Work Order Number: 20074.515.009.0331

Date: 8-26-03

Weather Conditions: Sunny, Hot

Time: 1000

Well Sampled By: M.S.

General Information

Well ID Number: OW1A

Organic CLP ID #: Y0ZR0

Inorganic CLP ID #: MY0ZR0, ~~MY0Z~~MS

Initial Depth to Water (feet): _____

Final Depth to Water (feet): 82.15

PID Reading: _____

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature ~~(°C)~~ F	ORP	Water Quality	Water Level (ft.)
1017	1	6.8	1775	12	0.46	77.8	-108	Clear	79.25
1022	3	6.8	1808	73	0.46	77.9	-83	"	80.20
1027	6	6.8	1744	38	0.46	78.5	-49	"	82.15
	~0.5 gpm								

Sample Number: GW303-OW1A-0080

Sample Time: 1420

Field Duplicate: ____ Yes X No

Sample Time: _____

Field Duplicate Number: _____

Organic CLP ID #: _____, **Inorganic CLP ID #:** _____

Equipment Blank: ____ Yes X No

Equipment Blank Number: _____

Organic CLP ID #: _____ **(VOC Only)**

MS/MSD Sample Volume: ____ Yes X No

Trip Blank: X Yes ____ No

Sample Time: 1425

Trip Blank Number: BW303-OW1A-2006

Organic CLP ID #: Y0ZS6 **(VOC Only)**

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals

X (1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**

(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

(2) L-Amber Bottles - 1,4-Dioxane

Field pH Verification: Metals ✓, Total CN^- ✓

Not sampled for Dissolved Metals

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs
Work Order Number: 20074.515.009.0331
Weather Conditions: SUNNY, WARM
Well Sampled By: MS

Date: 8-26-03
Time: 839
Pump on. 842

General Information

Well ID Number: OW1B
Organic CLP ID #: YOZR1
Inorganic CLP ID #: MYCZR1, ~~MYOZX1~~ M.S.
Initial Depth to Water (feet): 78.75
Final Depth to Water (feet): 109.40
PID Reading: _____

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature ~~(°C)~~ F	ORP	Water Quality	Water Level (ft.)
843	1	7.3	1000	77	0.31	73.6	0.159	Cloudy	93.12
852	10	7.7	955.3	98	0.22	73.4	0.201	-11-	95.66
857	15	7.8	944.3	118	0.20	73.9	0.197	-11-	96.98
903	~~20~~ 17	7.8	951	159	0.20	74.3	0.206	-11-	98.22
912	19	7.6	1055	>1000	0.26	74.7	0.158	-11-	104.00
918	21	7.8	983	396	0.17	74.5	0.188	-11-	106.59
923	23	7.7	1008	319	0.30	75.8	0.157	-11-	108.3
928	25	7.5	1023	308	0.36	76.0	0.149	-11-	109.4
	<0.4 ppm								

Sample Number: GW303-OW1B-0116
Sample Time: 1500

Field Duplicate: ____ Yes X No
Sample Time: _____
Field Duplicate Number: _____
Organic CLP ID #: _____, **Inorganic CLP ID #:** _____
Equipment Blank: ____ Yes X No
Equipment Blank Number: _____
Organic CLP ID #: _____ **(VOC Only)**
MS/MSD Sample Volume: ____ Yes X No
Trip Blank: ~~MS~~ Yes X No
Sample Time: _____
Trip Blank Number: ~~GW303~~ M.S.
Organic CLP ID #: _____ **(VOC Only)**

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals
*(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**
(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate
(2) L-Amber Bottles - 1,4-Dioxane

Field pH Verification: Metals ✓, Total CN^- ✓

* Not sampled for Dissolved Metals

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs
Work Order Number: 20074.515.009.0331
Weather Conditions: Sunny, Hot
Well Sampled By: MS.

Date: 8-27-03
Time: 959

General Information

Well ID Number: OW2
Organic CLP ID #: ~~Y0ZR0~~ M.S. Y0ZR2
Inorganic CLP ID #: MY0ZR2, MS. MY0ZX2
Initial Depth to Water (feet): 69.18
PID Reading: _____
Final Depth to Water (feet): 72.48

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature ~~°C~~ °F	ORP	Water Quality	Water Level (ft.)
1000	1	7.3	1395	10	1.13	72.7	125	CLEAR	70.03
1007	14	7.1	1378	4	2.75	72.6	82	-11-	71.85
1014	28	7.0	1375	3	3.18	72.5	96	-11-	72.00
1021	42	7.0	1370	2	3.38	72.6	76	-11-	72.00
1028	56	7.0	1371	2	3.49	72.8	100	-11-	72.14
1035	70	7.0	1368	2	3.55	72.8	163	-11-	72.20
1042	84	7.0	1371	2	3.58	72.7	122	-11-	72.25
1049	98	6.9	1370	2	3.61	73.1	207	-11-	72.35
1056	112	7.0	1373	2	3.67	73.7	138	-11-	72.45
1103	126	7.0	1373	2	3.67	73.7	130	-11-	72.46
1110	140	7.0	1370	2	3.65	73.8	145	-11-	72.48
	~2 gpm								

Sample Number: GW303-OW2-0078
Sample Time: 1115

Field Duplicate: ____ Yes X No
Sample Time: _____
Field Duplicate Number: _____
Organic CLP ID #: _____, **Inorganic CLP ID #:** _____

Equipment Blank: ____ Yes X No
Equipment Blank Number: _____
Organic CLP ID #: _____ **(VOC Only)**

MS/MSD Sample Volume: ____ Yes X No

Trip Blank: ____ Yes X No
Sample Time: _____
Trip Blank Number: _____
Organic CLP ID #: _____ **(VOC Only)**

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals
(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**
(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

Field pH Verification: Metals ✓, Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs

Work Order Number: 20074.515.009.0331

Date: 8-26-03

Weather Conditions: SUNNY, HOT

Time: 1120

Well Sampled By: MS

General Information

Well ID Number: OW3

Organic CLP ID #: Y0ZR3

Inorganic CLP ID #: MY0ZR3, MY0ZX3

Initial Depth to Water (feet): 65.54

Final Depth to Water (feet): _____

PID Reading: _____

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature ~~(°C)~~ F	ORP	Water Quality	Water Level (ft.)
1120	1	7.3	1438	49	0.62	77.0	25	Cloudy	
1125	10	7.1	1433	29	2.32	75.1	30	Clear	
1130	20	7.0	1485	12	3.49	74.9	34	"	
1135	30	7.0	1485	8	3.86	74.5	77	"	
1140	40	7.0	1483	6	4.19	73.9	101	"	70.80
1145	50	6.9	1488	8	4.43	73.8	83	"	71.19
1150	60	6.9	1482	8	4.52	73.8	82	"	71.50
1155	70	6.9	1489	6	4.55	73.6	81	"	71.85
	~ 1 gpm								

Sample Number: GW303-OW3-0080

Sample Time: 1300

Field Duplicate: ____ Yes Y No

Sample Time: _____

Field Duplicate Number: _____

Organic CLP ID #: _____, **Inorganic CLP ID #:** _____

Equipment Blank: ____ Yes X No

Equipment Blank Number: _____

Organic CLP ID #: _____ **(VOC Only)**

MS/MSD Sample Volume: ____ Yes X No

Trip Blank: ____ Yes X No

Sample Time: _____

Trip Blank Number: _____

Organic CLP ID #: _____ **(VOC Only)**

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals

(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**

(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

Field pH Verification: Metals ✓, Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs
Work Order Number: 20074.515.009.0331
Weather Conditions: HOT
Well Sampled By: MS

Date: 8-27-03
Time: 1500

General Information

Well ID Number: OW4A
Organic CLP ID #: YOZR4
Inorganic CLP ID #: MYOZR4, MYOZX4
Initial Depth to Water (feet): 58.13
PID Reading: _____

Final Depth to Water (feet): 58.78

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP	Water Quality	Water Level (ft.)
1502	10	7.8	1650	26	1.53	75.6	178	Clear	58.72
1508	40	7.0	1596	18	2.45	75.3	109	-11-	58.77
1512	60	6.8	1501	8	2.97	74.3	105	-11-	58.75
1516	80	6.9	1490	5	3.11	74.3	102	-11-	58.77
1522	110	7.0	1460	2	3.31	73.8	110	-11-	58.78

Sample Number: GW303-OW4A-0073
Sample Time: 1530

Field Duplicate: ____ Yes X No
Sample Time: _____
Field Duplicate Number: _____
Organic CLP ID #: _____, **Inorganic CLP ID #:** _____

Equipment Blank: ____ Yes X No
Equipment Blank Number: _____
Organic CLP ID #: _____ **(VOC Only)**

MS/MSD Sample Volume: ____ Yes X No

Trip Blank: X Yes ____ No
Sample Time: 1535
Trip Blank Number: GW303-OW4A-2007
Organic CLP ID #: YOZ57 **(VOC Only)**

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals
(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**
(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate
(2) L-Amber Bottles - 1,4-Dioxane

Field pH Verification: Metals ✓, Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs
Work Order Number: 20074.515.009.0331
Weather Conditions: SUNNY, HOT
Well Sampled By: MS

Date: 8-27-03
Time: 1329

General Information

Well ID Number: OW4B
Organic CLP ID #: YOZR5
Inorganic CLP ID #: MYOZR5, MYOZX5
Initial Depth to Water (feet): 65.67
PID Reading: _____

Final Depth to Water (feet): 68.94

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature ~~(°C)~~ °F	ORP	Water Quality	Water Level (ft.)
1329	1	7.3	1370	11	2.85	78.5	-41	CLOUDY	65.67
1333	20	7.1	1401	15	2.77	77.2	-21	CLEAR	68.60
1337	40	7.2	1429	8	2.91	75.0	2	-11-	68.60
1341	60	7.1	1459	3	2.98	76.1	31	-11-	68.66
1345	80	7.3	1456	3	2.99	74.7	34	-11-	68.67
1349	100	7.3	1454	3	2.99	74.5	57	-11-	68.74
1353	120	7.2	1454	2	2.99	74.7	56	-11-	68.76
1357	140	7.3	1456	2	2.99	74.8	59	-11-	68.76
1401	160	7.3	1468	2	3.01	74.8	55	-11-	68.77
1405	180	7.1	1458	2	3.02	74.4	60	-11-	68.78
1409	200	7.2	1456	1	3.02	73.9	53	-11-	68.94
1413	220								
	~5 gal								

Sample Number: GW303-OW4B-0125
Sample Time: 1420

Field Duplicate: ____ Yes X No
Sample Time: _____
Field Duplicate Number: _____
Organic CLP ID #: _____, **Inorganic CLP ID #:** _____

Equipment Blank: ____ Yes X No
Equipment Blank Number: _____
Organic CLP ID #: _____ **(VOC Only)**

MS/MSD Sample Volume: X Yes ~~MS~~ No M.S.
Trip Blank: ~~MS~~ Yes X No
Sample Time: _____
Trip Blank Number ~~GW303-0~~ M.S.
Organic CLP ID #: ~~YOZS7~~ **(VOC Only)**

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals
(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**
(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

Field pH Verification: Metals _____, Total CN^- _____

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs

Work Order Number: 20074.515009.0531

Date: 8/28/03

Weather Conditions: Sunny, Hot

Time: 0730

Well Sampled By: GDZ

General Information

Well ID Number: OW5

Organic CLP ID #: Y0ZR6

Inorganic CLP ID #: MY0ZR6, MY0ZX6

Initial Depth to Water (feet): 31.30

Final Depth to Water (feet): 31.57

PID Reading: Not Measured

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)F	ORP	Water Quality	Water Level (ft.)
0805	1	6.6	1358	265	2.95	71.9	107	clear	
0807	12	6.7	1324	120	2.33	71.8	72		31.55
0809	24	6.8	1323	74	2.47	71.8	67		31.55
0811	36	6.8	1323	60	2.56	71.8	64		31.55
0813	48	6.8	1330	31	2.69	71.7	63		31.55
0815	60	6.8	1331	15	2.82	71.6	61		31.55
0817	72	6.9	1335	10	2.95	71.7	58		31.55
0819	84	6.8	1338	8	3.01	71.6	58		31.55
0821	96	6.8	1339	6	3.09	71.7	56		31.55
0823	108	6.8	1339	3	3.18	71.7	60		31.57
0826	121	6.9	1347	2	3.21	71.7	64	✓	31.57
~5.7 gpm									

Sample Number: GW303-OW5-0048

Sample Time: 0845

Field Duplicate: ✓ Yes ___ No

Sample Time: 0850

Field Duplicate Number: GW303-OW5-1048

Organic CLP ID #: Y0ZR7, **Inorganic CLP ID #:** MY0ZR7 MY0ZX7

Equipment Blank: ___ Yes ✓ No

Equipment Blank Number: _____

Organic CLP ID #: _____ **(VOC Only)**

MS/MSD Sample Volume: ___ Yes ✓ No

Trip Blank: ___ Yes ✓ No

Sample Time: _____

Trip Blank Number: _____

Organic CLP ID #: _____ **(VOC Only)**

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals

(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**

(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

(2) L-Amber Bottles - 1,4-Dioxane

Field pH Verification: Metals ✓, Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs
Work Order Number: 20074.515.009.0331
Weather Conditions: Sunny, Hot
Well Sampled By: GDZ

Date: 8/28/03
Time: 0909

General Information

Well ID Number: OW6
Organic CLP ID #: Y0228
Inorganic CLP ID #: MY0228, MY0228

Initial Depth to Water (feet): 47.09
Final Depth to Water (feet): _____
PID Reading: _____

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C) °F	ORP	Water Quality	Water Level (ft.)
0943	1	6.9	1780	4	1.15	72.8	220	Clear	
0945	10	6.8	1781	4	0.65	72.5	207	"	47.27
0947	20	6.8	1775	2	0.62	72.3	191	"	"
0949	30	6.8	1777	2	0.62	72.2	148	"	"
0951	40	6.8	1775	2	0.61	72.2	135	"	47.27
0953	50	6.8	1776	1	0.61	72.2	112	"	"
0955	60	6.8	1776	1	0.72	72.2	112	"	"
0957	70	6.8	1776	1	0.68	72.1	115	"	"
0959	80	6.8	1777	1	0.66	72.1	117	"	"
1001	90	6.8	1777	1	0.63	72.1	124	"	"
1003	100	6.9	1778	1	0.62	72.1	125	"	"
	~5 gpm								

Sample Number: GW303-OW6-0048
Sample Time: 1015

Field Duplicate: ____ Yes ✓ No
Sample Time: _____
Field Duplicate Number: _____
Organic CLP ID #: _____, **Inorganic CLP ID #:** _____
Equipment Blank: ____ Yes ✓ No
Equipment Blank Number: _____
Organic CLP ID #: _____ **(VOC Only)**
MS/MSD Sample Volume: ____ Yes ✓ No
Trip Blank: ✓ Yes ____ No
Sample Time: 1020
Trip Blank Number: GW303-OW6-2008
Organic CLP ID #: Y0258 **(VOC Only)**

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals
(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**
(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate
(2) L-Amber Bottles - 1,4-Dioxane

Field pH Verification: Metals ✓, Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs

Work Order Number: 20074.515.009.0331

Date: 8/26/03

Weather Conditions: Hot

Time: 1400

Well Sampled By: AKC & MS

General Information

Well ID Number: OW7

Organic CLP ID #: YOZR9

Inorganic CLP ID #: MYOZR9, MYOZX9

Initial Depth to Water (feet): 76.90

Final Depth to Water (feet): _____

PID Reading: _____

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP	Water Quality	Water Level (ft.)
1409	1	7.3	1499	5	1.08	78.8	107		
1429	20	7.2	1501	3	3.26	79.6	106		
1449	40	7.0	1504	5	4.33	81.6	116		
1509	60	6.9	1542	3	4.44	78.3	136		
1529	80	7.0	1510	2	4.60	79.2	168		
1549	100	6.9	1507	2	4.65	76.3	152		
~1 gpm									

Sample Number: GW303-OW7-0081

Sample Time: 1610

Field Duplicate: ____ Yes X No

Field Duplicate Number: _____

Equipment Blank: X Yes ____ No

Equipment Blank Number: GW303-OW7-1615-0001

MS/MSD Sample Volume: ____ Yes X No

Trip Blank: ____ Yes X No

Trip Blank Number: _____

Sample Time: _____

Organic CLP ID #: ~~YOZR9~~, **Inorganic CLP ID #:** ~~MYOZR9~~ ~~MYOZX9~~

Organic CLP ID #: YOZS9 **(VOC Only)**

Sample Time: _____

Organic CLP ID #: _____ **(VOC Only)**

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals

(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**

(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

Additional Analyses:

(1) 250-mL Polyethylene Bottle - Perchlorate

Field pH Verification: Metals ✓, Total CN^- ✓

OMEGA CHEMICAL SUPERFUND SITE
GROUNDWATER MONITORING WELL PURGING/SAMPLING FORM
3RD QUARTER GROUNDWATER SAMPLING

Project Locations: Whittier and Santa Fe Springs

Work Order Number: 20074.515.009.0331

Date: 8-27-03

Weather Conditions: Sunny, Cool

Time: 758

Well Sampled By: MS

General Information

Well ID Number: OW8

Organic CLP ID #: Y0250

Inorganic CLP ID #: MY0250, MY0ZY0

Initial Depth to Water (feet): 67.35

Final Depth to Water (feet): 68.10

PID Reading: _____

Purging Field Parameters

Time	Volume (gal.)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C) F	ORP	Water Quality	Water Level (ft.)
759	1	6.5	1757	50	0.86	72.7	-61	Cloudy	67.94
803	12	6.8	1590	13	1.72	72.1	-63	Clear	67.95
807	24	6.8	1587	8	1.75	72.1	-61	-11-	67.95
811	36	6.8	1599	5	1.81	71.9	-60	-11-	67.98
815	48	6.8	1611	7	1.80	71.9	-61	-11-	67.95
819	60	6.8	1618	5	1.79	71.3	-60	-11-	68.00
823	72	6.8	1626	5	1.79	71.3	-57	-11-	68.00
827	84	6.8	1637	4	1.80	71.8	-58	-11-	68.05
831	96	6.8	1652	3	1.80	71.8	-53	-11-	68.09
	~3gpm								

Sample Number: GW303-OW8-0075

Sample Time: 845

Field Duplicate: ____ Yes X No

Sample Time: _____

Field Duplicate Number: _____

Organic CLP ID #: _____, **Inorganic CLP ID #:** _____

Equipment Blank: ____ Yes X No

Equipment Blank Number: _____

Organic CLP ID #: _____ **(VOC Only)**

MS/MSD Sample Volume: ____ Yes X No

Trip Blank: ____ Yes X No

Sample Time: _____

Trip Blank Number: _____

Organic CLP ID #: _____ **(VOC Only)**

Organic Analyses:

(3) 40-mL Glass VOA Vials w/HCl - VOCs

Inorganic Analyses:

(1) L-Polyethylene Bottle w/HNO_3 - Total TAL Metals

(1) L-Polyethylene Bottle w/HNO_3 - Dissolved TAL Metals **(Filtered)**

(1) L-Polyethylene Bottles w/NaOH - Total Cyanide

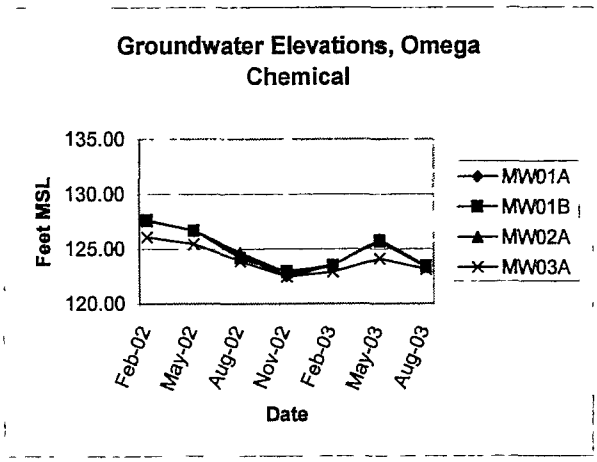
Additional Analyses:

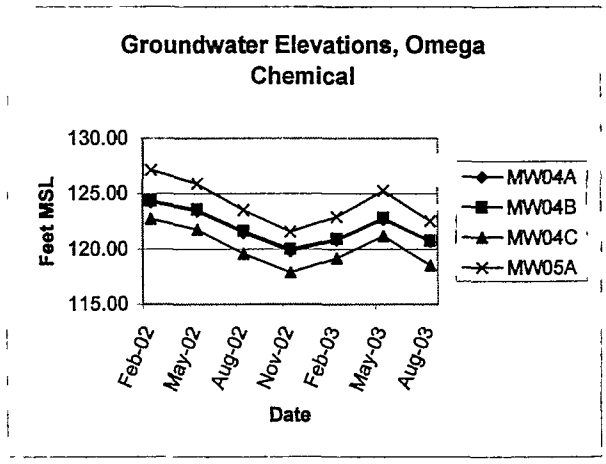
(1) 250-mL Polyethylene Bottle - Perchlorate

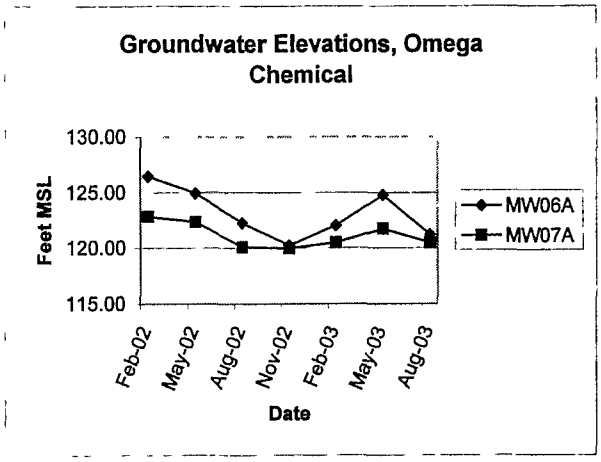
(2) L-Amber Bottles - 1,4-Dioxane

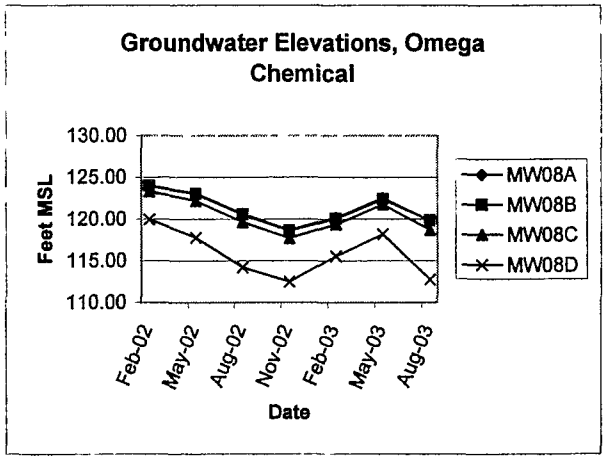
Field pH Verification: Metals ✓, Total CN^- ✓

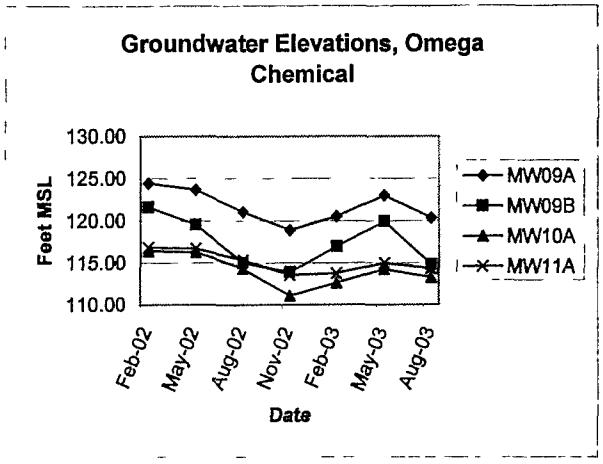
APPENDIX F
GROUNDWATER ELEVATION TREND CHARTS


Groundwater Elevations, Omega Chemical
135.00
130.00
125.00
120.00
Feet MSL
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Date
MW01A
MW01B
MW02A
MW03A

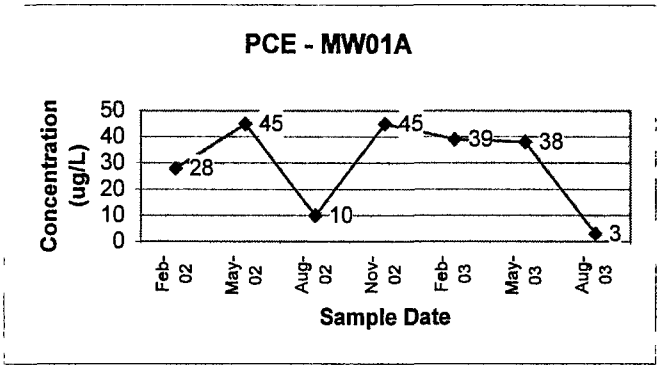

Groundwater Elevations, Omega Chemical
130.00
125.00
120.00
115.00
Feet MSL
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Date
MW04A
MW04B
MW04C
MW05A

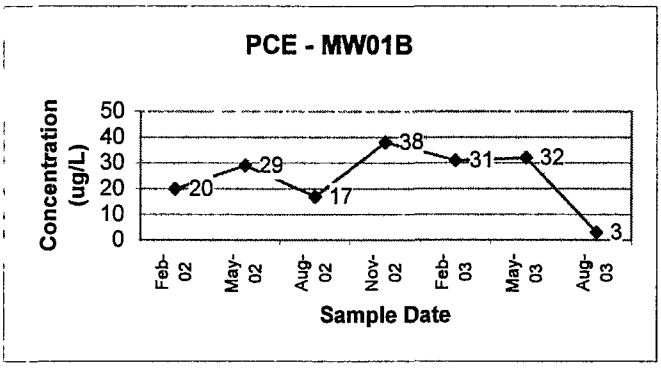

Groundwater Elevations, Omega Chemical
130.00
125.00
120.00
115.00
Feet MSL
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Date
MW06A
MW07A

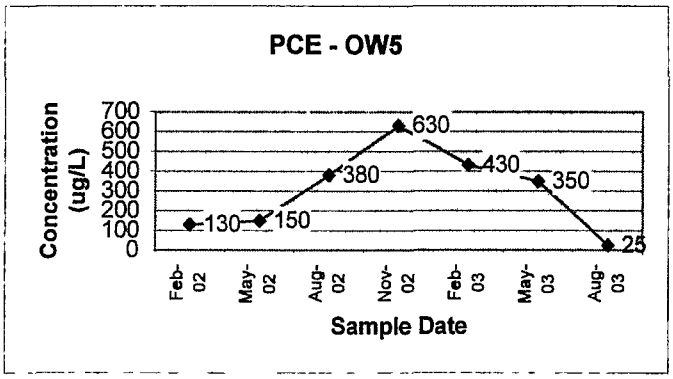

Groundwater Elevations, Omega Chemical
130.00
125.00
120.00
115.00
110.00
Feet MSL
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Date
MW08A
MW08B
MW08C
MW08D

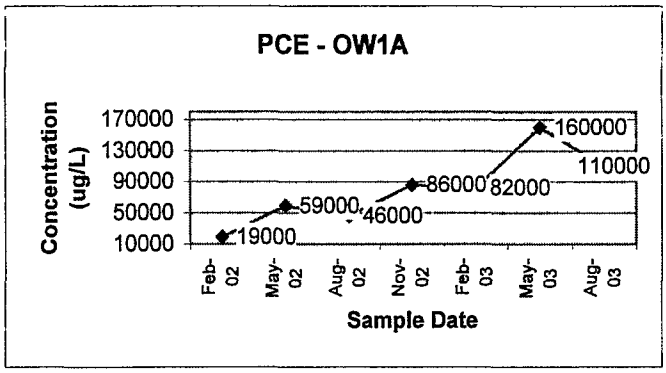

Groundwater Elevations, Omega Chemical
130.00
125.00
120.00
115.00
110.00
Feet MSL
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Date
MW09A
MW09B
MW10A
MW11A

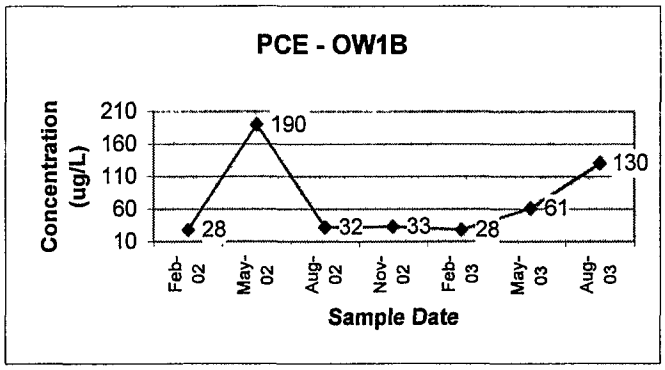
APPENDIX G
PCE AND TCE CONCENTRATION TREND CHARTS

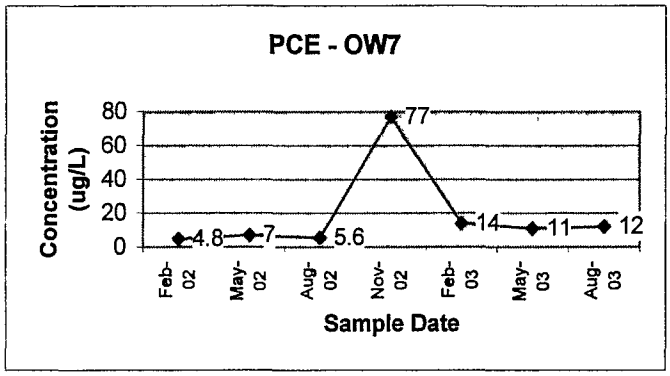

PCE - MW01A
Concentration (ug/L)
50
40
30
20
10
0
28
45
10
45
39
38
3
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

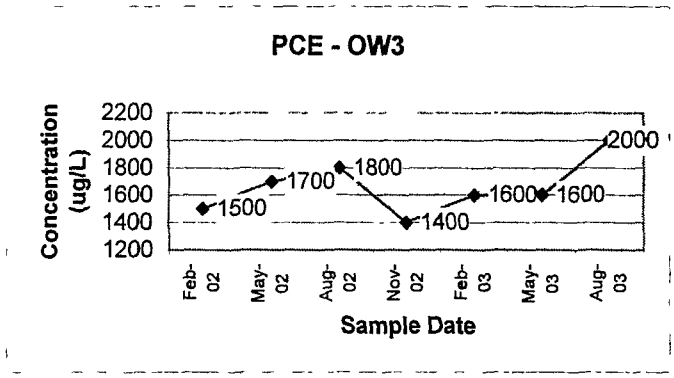

PCE - MW01B
Concentration (ug/L)
50
40
30
20
10
0
20
29
17
38
31
32
3
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

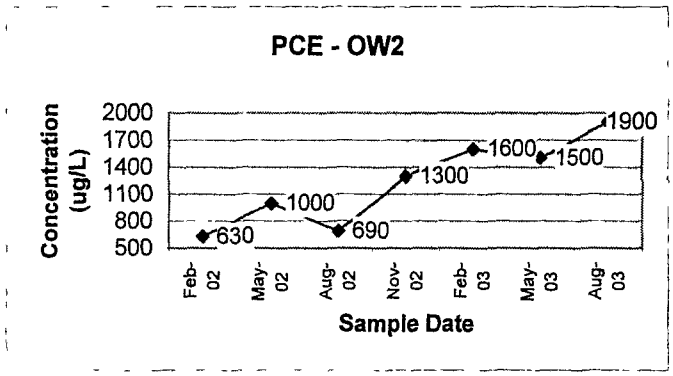

PCE - OW5
Concentration (ug/L)
700
600
500
400
300
200
100
0
130
150
380
630
430
350
25
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

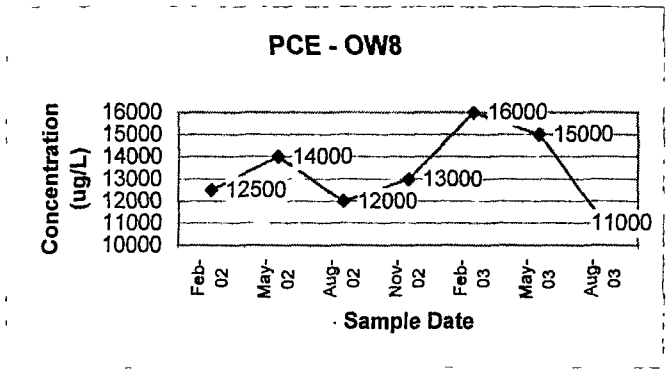

PCE - OW1A
Concentration (ug/L)
170000
130000
90000
50000
10000
19000
59000
46000
86000
82000
160000
110000
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

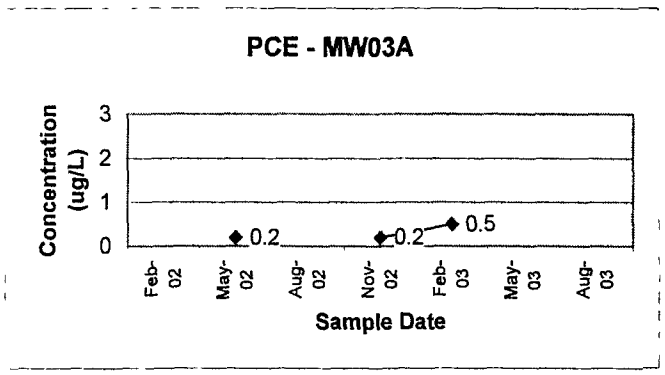

PCE - OW1B
Concentration (ug/L)
210
160
110
60
10
28
190
32
33
28
61
130
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

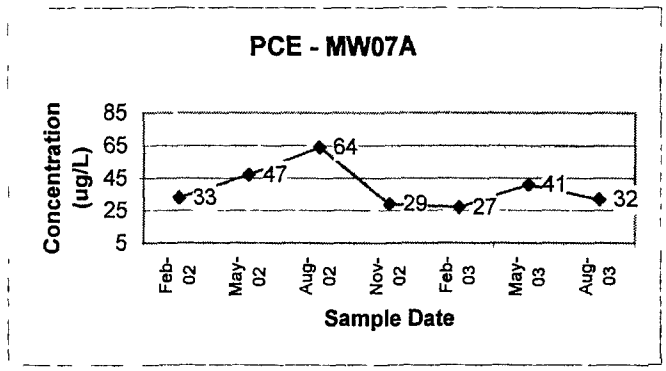

PCE - OW7
Concentration (ug/L)
80
60
40
20
0
4.8
7
5.6
77
14
11
12
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

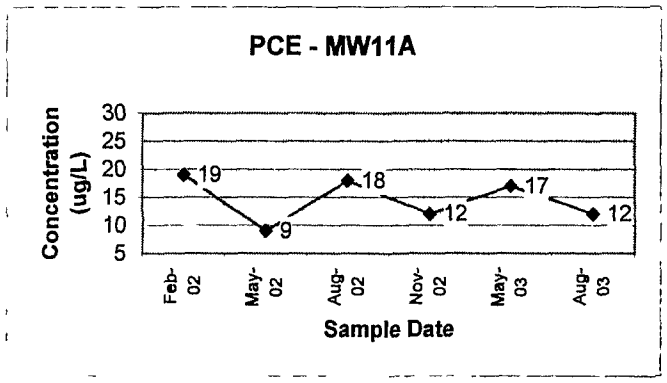

PCE - OW3
Concentration (ug/L)
2200
2000
1800
1600
1400
1200
1500
1700
1800
1400
1600
1600
2000
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

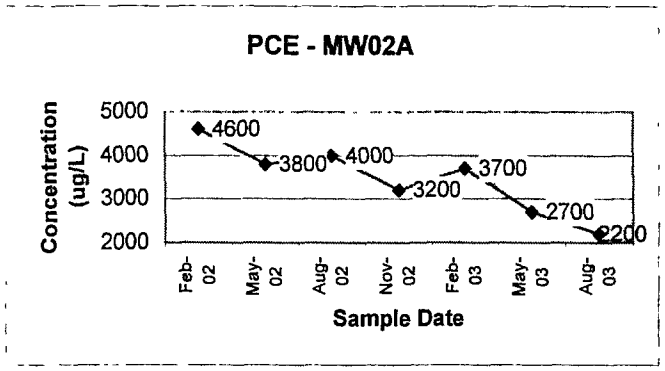

PCE - OW2
Concentration (ug/L)
2000
1700
1400
1100
800
500
630
1000
690
1300
1600
1500
1900
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

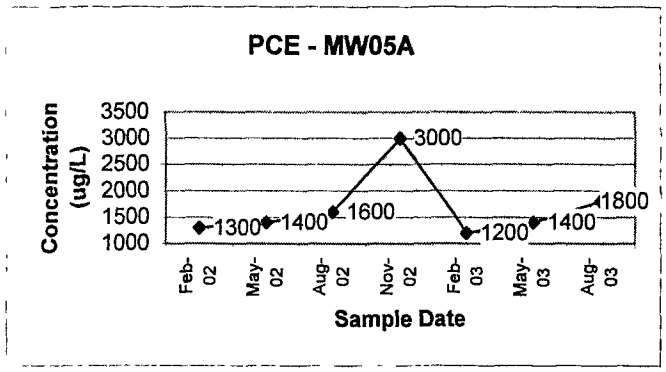

PCE - OW8
Concentration (ug/L)
16000
15000
14000
13000
12000
11000
10000
12500
14000
12000
13000
16000
15000
11000
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

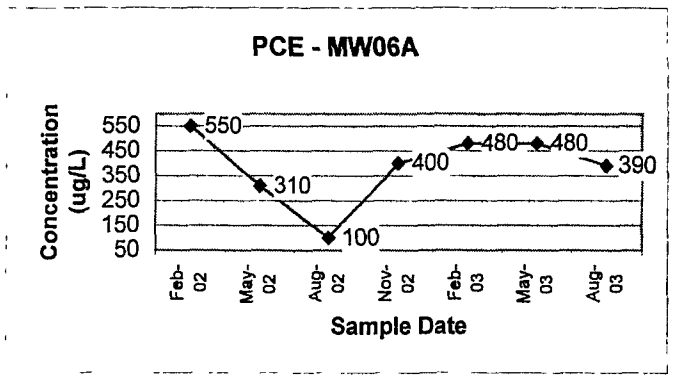

PCE - MW03A
Concentration (ug/L)
3
2
1
0
0.2
0.2
0.5
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

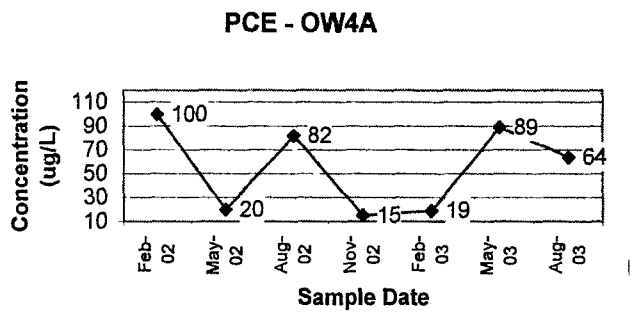

PCE - MW07A
Concentration (ug/L)
85
65
45
25
5
33
47
64
29
27
41
32
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

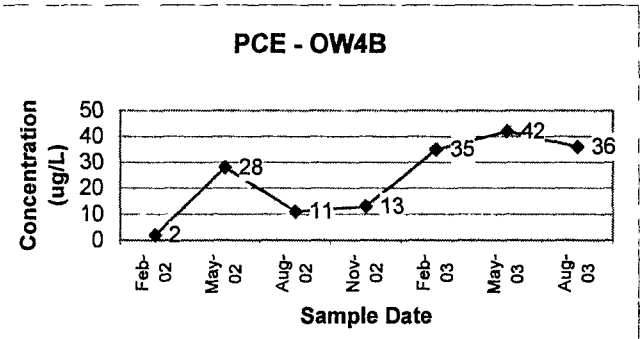

PCE - MW11A
Concentration (ug/L)
30
25
20
15
10
5
19
9
18
12
17
12
Feb-02
May-02
Aug-02
Nov-02
May-03
Aug-03
Sample Date

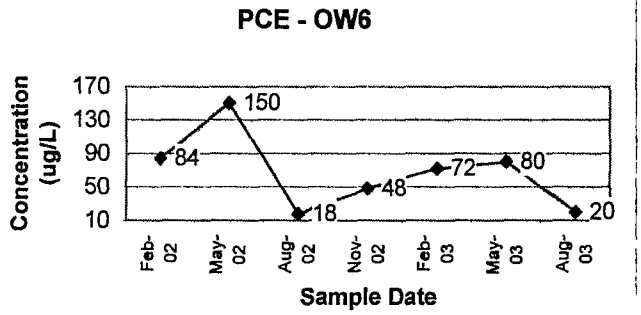

PCE - MW02A
Concentration (ug/L)
5000
4000
3000
2000
4600
3800
4000
3200
3700
2700
2200
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

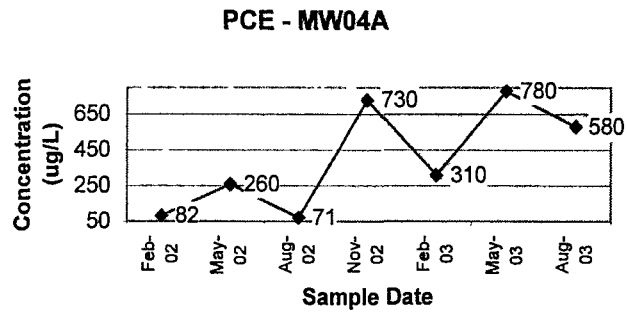

PCE - MW05A
Concentration (ug/L)
3500
3000
2500
2000
1500
1000
1300
1400
1600
3000
1200
1400
1800
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

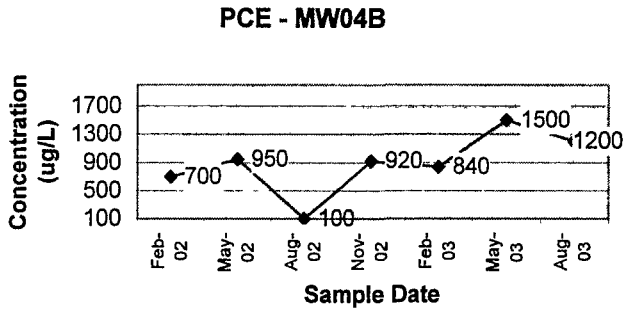

PCE - MW06A
Concentration (ug/L)
550
450
350
250
150
50
550
310
100
400
480
480
390
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

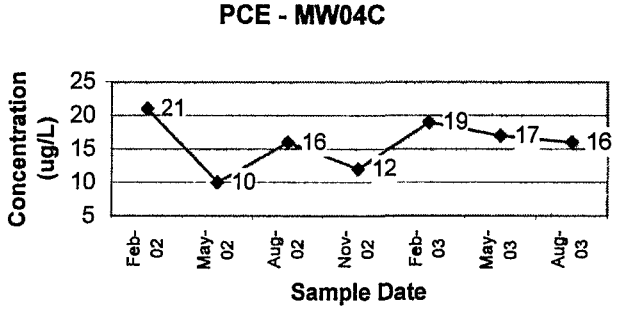

PCE - OW4A
Concentration (ug/L)
110
90
70
50
30
10
100
20
82
15
19
89
64
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

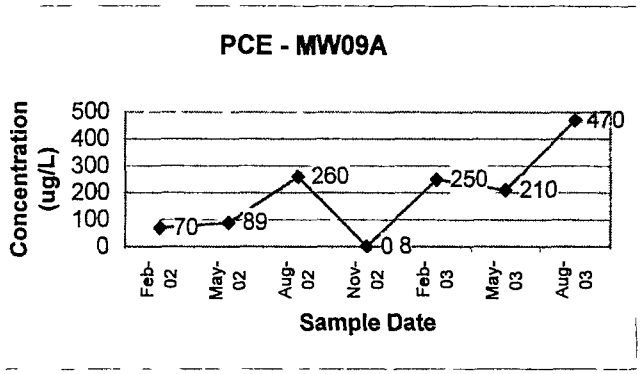

PCE - OW4B
Concentration (ug/L)
50
40
30
20
10
0
2
28
11
13
35
42
36
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

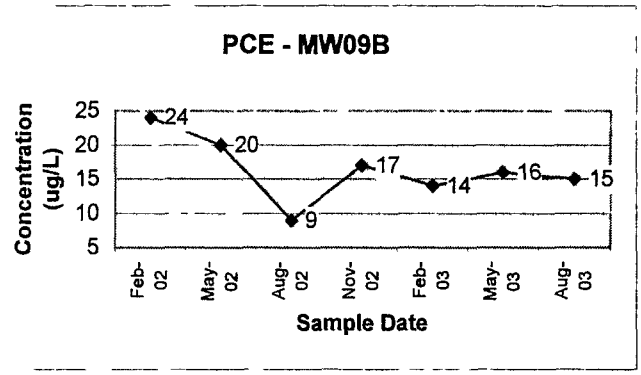

PCE - OW6
Concentration (ug/L)
170
130
90
50
10
84
150
18
48
72
80
20
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

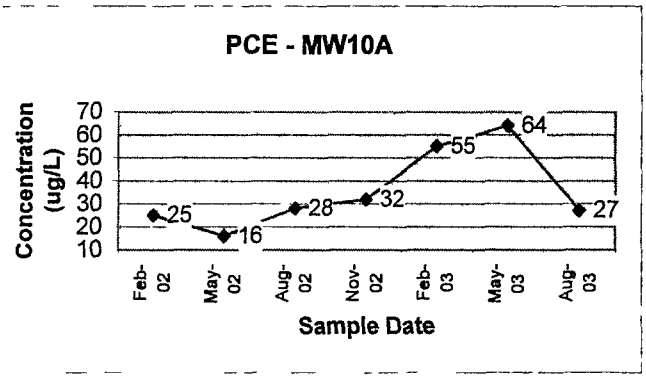

PCE - MW04A
Concentration (ug/L)
650
450
250
50
82
260
71
730
310
780
580
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

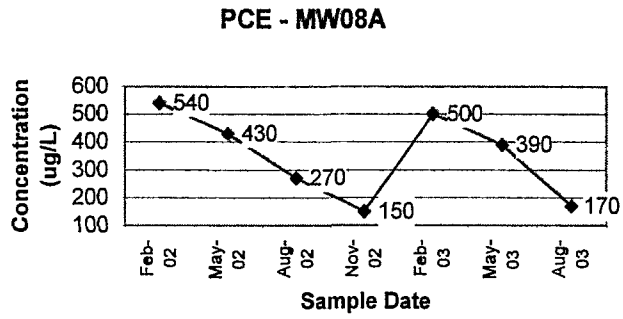

PCE - MW04B
Concentration (ug/L)
1700
1300
900
500
100
700
950
100
920
840
1500
1200
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

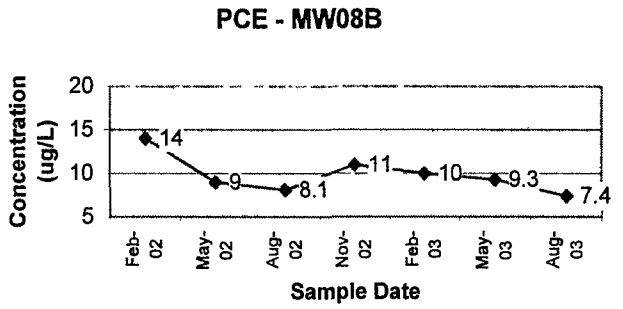

PCE - MW04C
Concentration (ug/L)
25
20
15
10
5
21
10
16
12
19
17
16
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

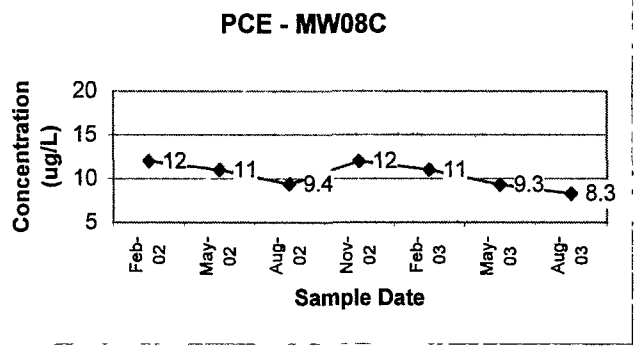

PCE - MW09A
Concentration (ug/L)
500
400
300
200
100
0
70
89
260
0 8
250
210
470
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

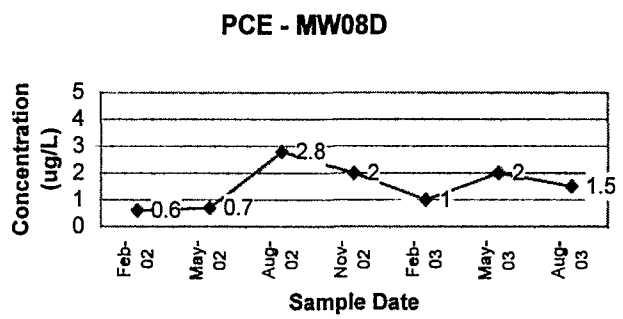

PCE - MW09B
Concentration (ug/L)
25
20
15
10
5
24
20
9
17
14
16
15
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

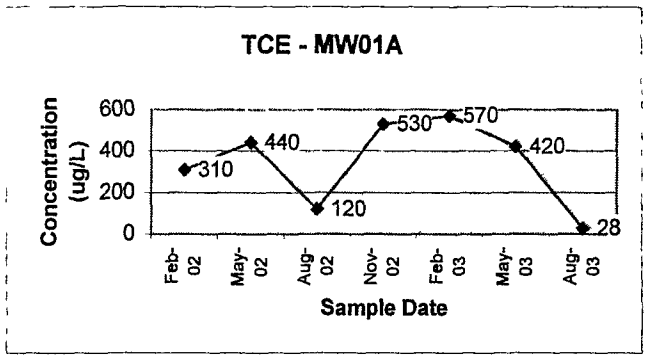

PCE - MW10A
Concentration (ug/L)
70
60
50
40
30
20
10
25
16
28
32
55
64
27
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

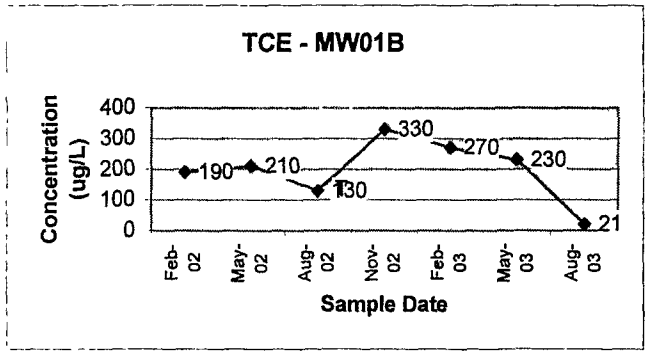

PCE - MW08A
Concentration (ug/L)
600
500
400
300
200
100
540
430
270
150
500
390
170
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

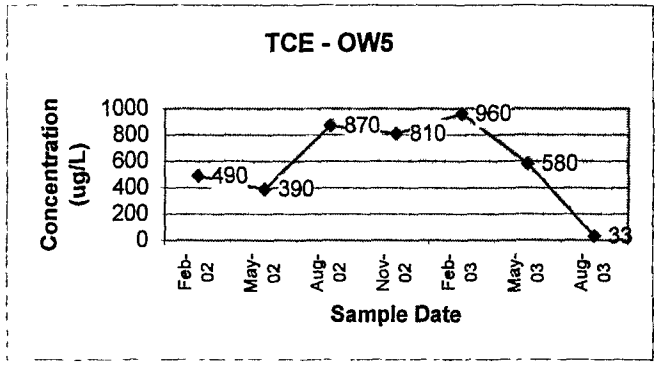

PCE - MW08B
Concentration (ug/L)
20
15
10
5
14
9
8.1
11
10
9.3
7.4
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

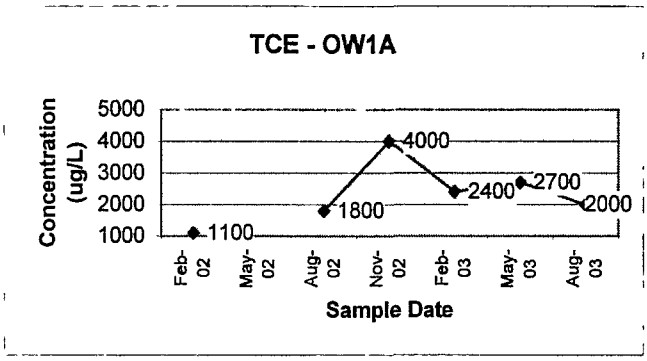

PCE - MW08C
Concentration (ug/L)
20
15
10
5
12
11
9.4
12
11
9.3
8.3
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

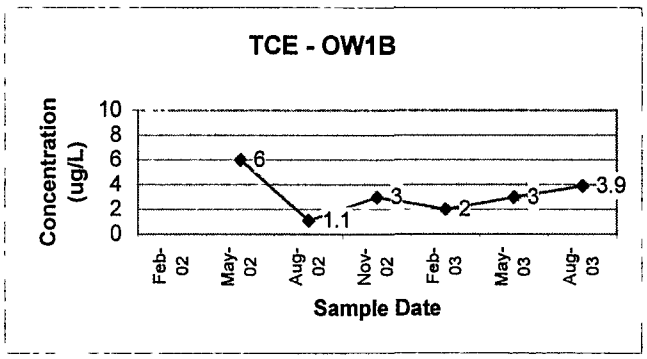

PCE - MW08D
Concentration (ug/L)
5
4
3
2
1
0
0.6
0.7
2.8
2
1
2
1.5
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

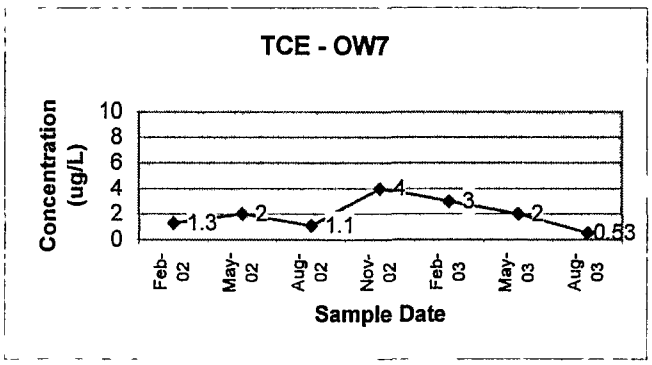

TCE - MW01A
Concentration (ug/L)
600
400
200
0
310
440
120
530
570
420
28
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

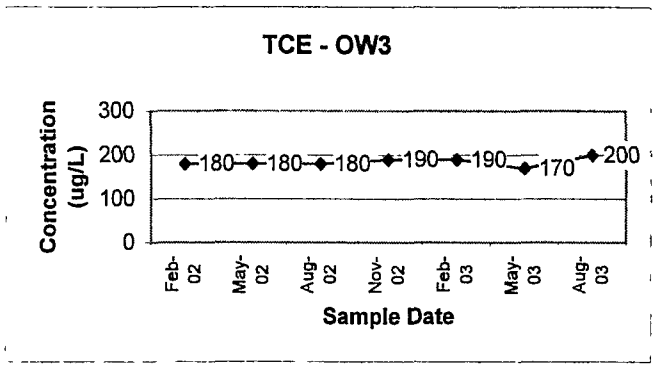

TCE - MW01B
Concentration (ug/L)
400
300
200
100
0
190
210
130
330
270
230
21
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

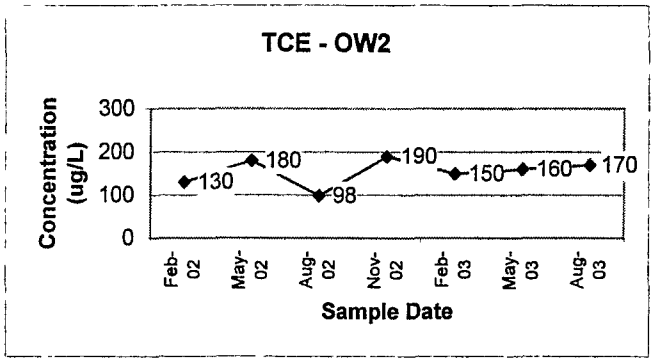

TCE - OW5
Concentration (ug/L)
1000
800
600
400
200
0
490
390
870
810
960
580
33
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

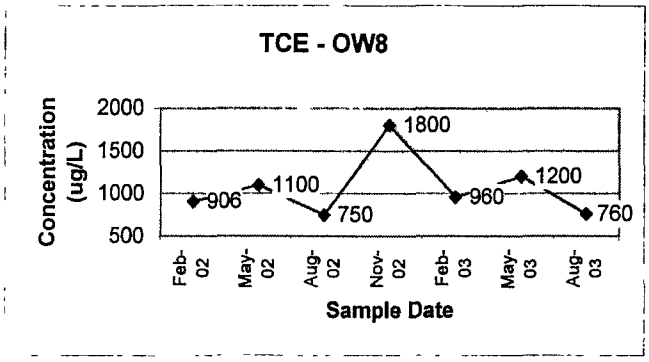

TCE - OW1A
Concentration (ug/L)
5000
4000
3000
2000
1000
1100
1800
4000
2400
2700
2000
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

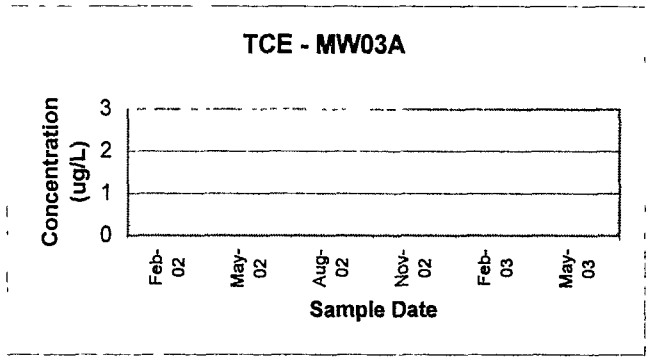

TCE - OW1B
Concentration (ug/L)
10
8
6
4
2
0
6
1.1
3
2
3
3.9
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

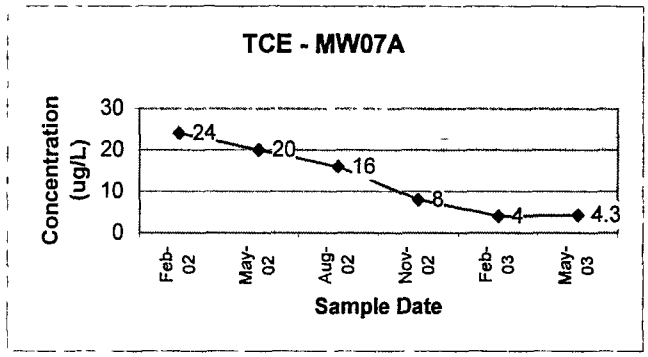

TCE - OW7
Concentration (ug/L)
10
8
6
4
2
0
1.3
2
1.1
4
3
2
0.53
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

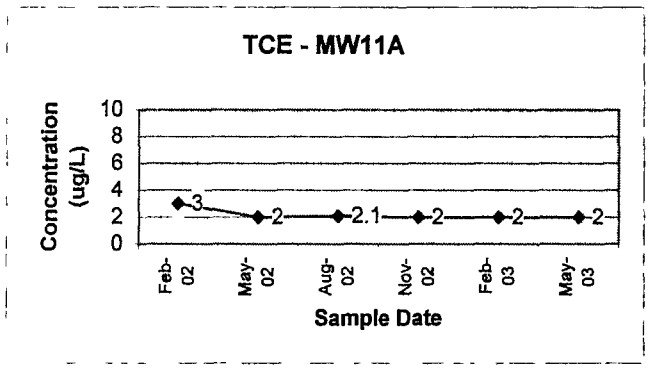

TCE - OW3
Concentration (ug/L)
300
200
100
0
180
180
180
190
190
170
200
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

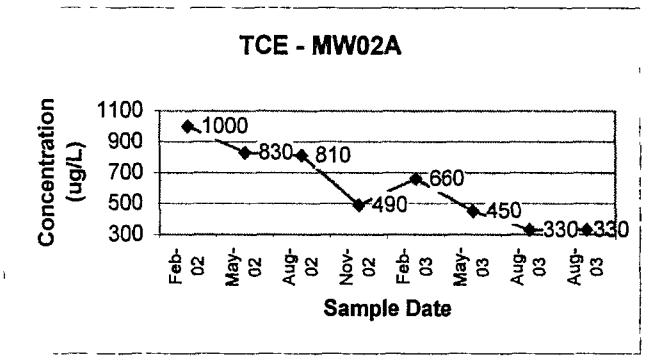

TCE - OW2
Concentration (ug/L)
300
200
100
0
130
180
98
190
150
160
170
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

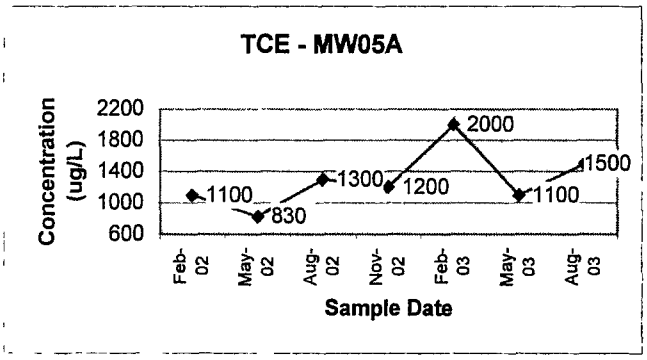

TCE - OW8
Concentration (ug/L)
2000
1500
1000
500
906
1100
750
1800
960
1200
760
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

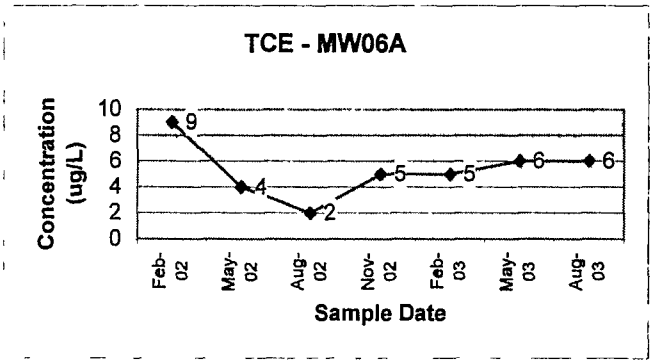

TCE - MW03A
Concentration (ug/L)
3
2
1
0
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Sample Date

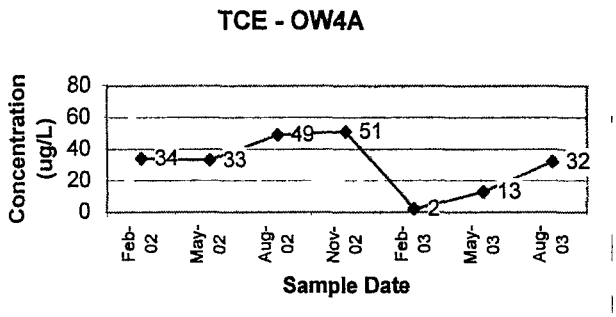

TCE - MW07A
Concentration (ug/L)
30
20
10
0
24
20
16
8
4
4.3
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Sample Date

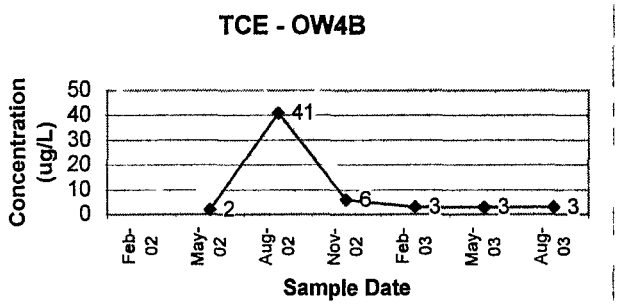

TCE - MW11A
Concentration (ug/L)
10
8
6
4
2
0
3
2
2.1
2
2
2
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Sample Date

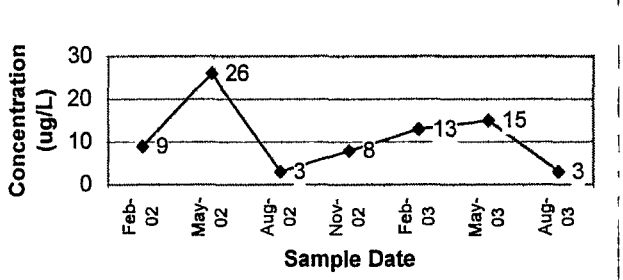

TCE - MW02A
Concentration (ug/L)
1100
900
700
500
300
1000
830
810
490
660
450
330
330
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Aug-03
Sample Date

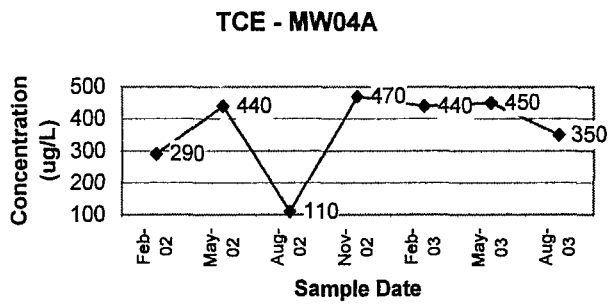

TCE - MW05A
Concentration (ug/L)
2200
1800
1400
1000
600
1100
830
1300
1200
2000
1100
1500
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

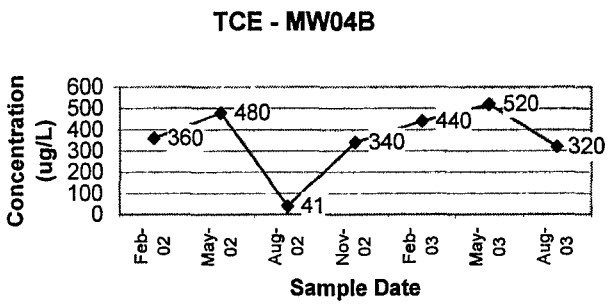

TCE - MW06A
Concentration (ug/L)
10
8
6
4
2
0
9
4
2
5
5
6
6
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

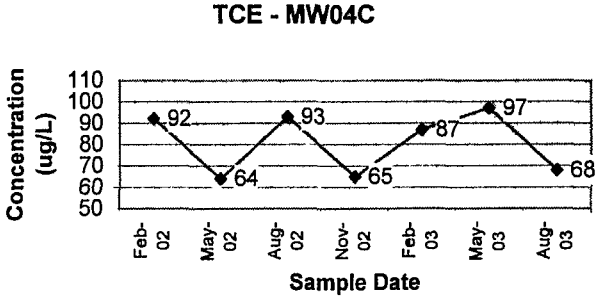

TCE - OW4A
Concentration (ug/L)
80
60
40
20
0
34
33
49
51
2
13
32
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

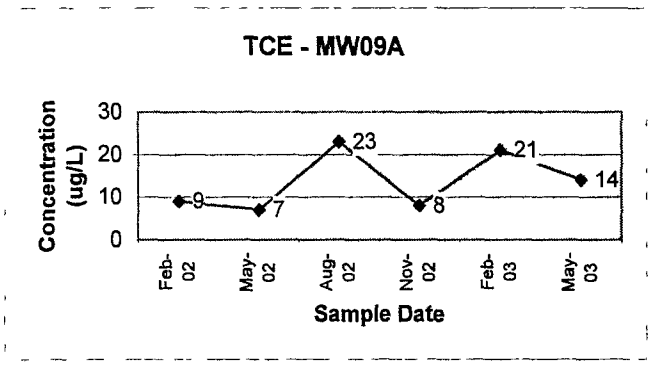

TCE - OW4B
Concentration (ug/L)
50
40
30
20
10
0
2
41
6
3
3
3
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

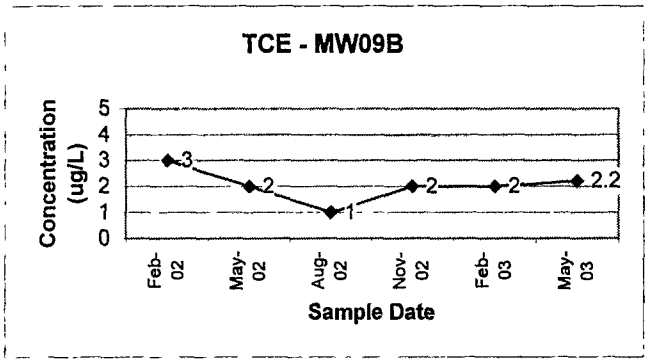

TCE - OW6
Concentration (ug/L)
30
20
10
0
9
26
3
8
13
15
3
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

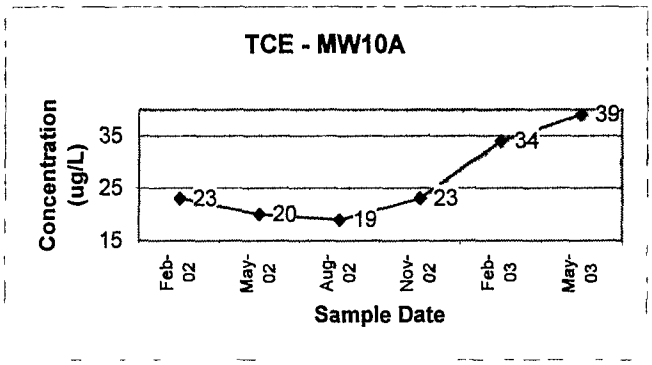

TCE - MW04A
Concentration (ug/L)
500
400
300
200
100
290
440
110
470
440
450
350
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

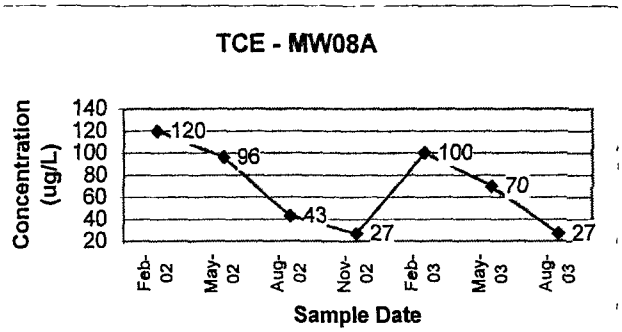

TCE - MW04B
Concentration (ug/L)
600
500
400
300
200
100
0
360
480
41
340
440
520
320
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

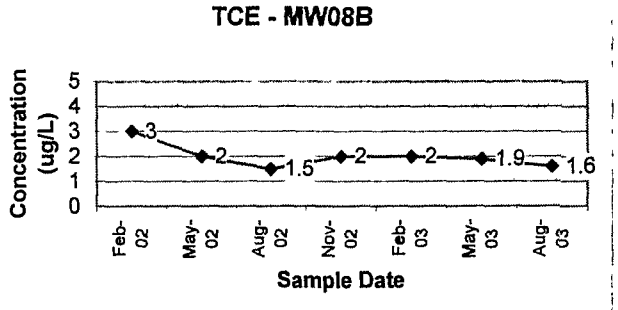

TCE - MW04C
Concentration (ug/L)
110
100
90
80
70
60
50
92
64
93
65
87
97
68
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date

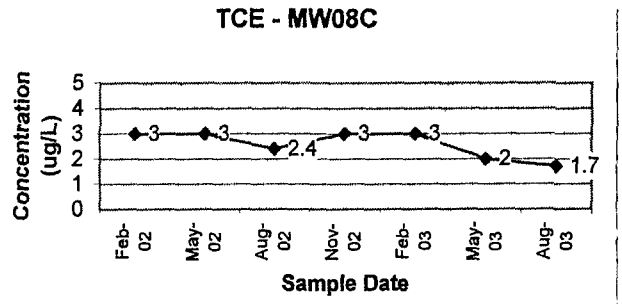

TCE - MW09A
Concentration (ug/L)
30
20
10
0
9
7
23
8
21
14
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Sample Date

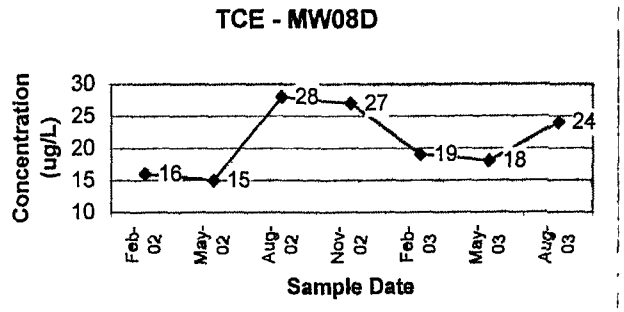

TCE - MW09B
Concentration (ug/L)
5
4
3
2
1
0
3
2
1
2
2
2.2
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Sample Date


TCE - MW10A
Concentration (ug/L)
35
25
15
23
20
19
23
34
39
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Sample Date


TCE - MW08A
Concentration (ug/L)
140
120
100
80
60
40
20
120
96
43
27
100
70
27
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date


TCE - MW08B
Concentration (ug/L)
5
4
3
2
1
0
3
2
1.5
2
2
1.9
1.6
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date


TCE - MW08C
Concentration (ug/L)
5
4
3
2
1
0
3
3
2.4
3
3
2
1.7
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date


TCE - MW08D
Concentration (ug/L)
30
25
20
15
10
16
15
28
27
19
18
24
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Sample Date