

GROUNDWATER MONITORING REPORT APRIL 2001

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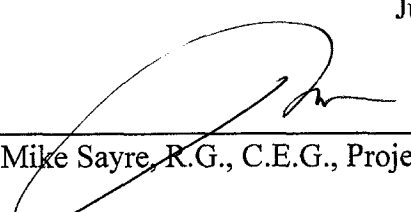
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ACRONYMS/ABBREVIATIONS

1,1-DCA	1,1-Dichloroethane
1,2-DCA	1,2-Dichloroethane
1,1-DCE	1,1-Dichloroethene
APCL	Applied Physics and Chemistry Laboratory
As	Arsenic
ASTM	American Society for Testing and Materials
bgs	Below Ground Surface
Ca	Calcium
CADHS	California Department of Health Services
CA RWQCB	California Regional Water Quality Control Board
CCl ₄	Carbon Tetrachloride
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
Cl	Chloride
ClO ₄ ⁻	Perchlorate
CO ₃ ²⁻	Carbonate
COC	Chain of Custody
Cr	Chromium
Cr(VI)	Hexavalent Chromium
DQO	Data Quality Objective
DTSC	Department of Toxic Substance Control
EPA	Environmental Protection Agency
Fe	Iron
gal/min	Gallons per minute
HCO ₃ ⁻	Bicarbonate
IAL	Interim Action Level

JPL	Jet Propulsion Laboratory
K	Potassium
L	Liter
LDC	Laboratory Data Consultants, Inc.
MCL	Maximum Contaminant Level
Mg	Magnesium
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter
mL	Milliliter
MS	Matrix Spikes
MSD	Matrix Spike Duplicates
msl	Mean Sea Level
MTBE	Methyl tertiary butyl ether
MW	Monitoring Well
Na	Sodium
NASA	National Aeronautics and Space Administration
NDMA	N-Nitrosodimethylamine
NO ₃ ⁻	Nitrate
NTU	Nephelometric Turbidity Unit
OU	Operable Unit
Pb	Lead
PCE	Tetrachloroethene
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
SO ₄ ²⁻	Sulfate
SOTA	SOTA Environmental Technology, Inc.

SVOC	Semi Volatile Organic Compound
TCE	Trichloroethene
TDS	Total Dissolved Solids
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
Westbay	Westbay Instruments, Inc.

EXECUTIVE SUMMARY

Presented in this report are the results of the April 2001 groundwater sampling event completed as part of a groundwater monitoring program at the National Aeronautics and Space Administration (NASA) Jet Propulsion Laboratory (JPL) under contract with, Naval Facilities Engineering Command. This sampling event was conducted from April 3 through May 1, 2001.

During this event, groundwater samples were collected from 19 JPL monitoring wells, both on- and off-facility, and analyzed for volatile organic compounds (VOCs), metals (total chromium and hexavalent chromium), and perchlorate. A summary of the sampling procedures is included in Section 2.0, and analytical results are presented in Section 3.0.

MW-2 has not been sampled since it was replaced with well MW-14 (Figure 1-1) as a JPL sampling point. MW-7 was also not sampled during this event because a pilot test was in progress. The pilot test report shows a summary of groundwater quality data for MW-7 collected during the April 2001 period (Foster Wheeler Pilot Study, April 2001).

The April 2001 results indicate that three VOCs (i.e., carbon tetrachloride, trichloroethene, and tetrachloroethene) were detected at concentrations above the State or Federal Maximum Contaminant Levels (MCLs) for drinking water. In addition, perchlorate concentrations exceeded the State Interim Action Level (IAL) for drinking water. Total chromium was detected in ten wells with no detections exceeding the State or Federal MCL. Hexavalent chromium was not detected in any of the wells. At this time, neither State nor Federal regulatory agencies have established MCLs for hexavalent chromium.

Water levels were measured in each well before and after sampling activities to evaluate groundwater gradients and flow directions present during sampling. Water-level measurements are discussed in Section 5.0. Groundwater flow was interpreted to be primarily to the south across JPL, turning eastward around the nearby City of Pasadena municipal production wells, which is consistent with the January-February 2001 event.

1.0 INTRODUCTION

This report summarizes the results from the April 2001 groundwater sampling event completed as part of the Groundwater Monitoring Program currently being conducted at the National Aeronautics and Space Administration (NASA) Jet Propulsion Laboratory (JPL). This work is being performed by SOTA Environmental Technology, Inc., (SOTA) under contract with Naval Facilities Engineering Command, Contract No. N68711-98-D-5537 D.O. No. 0012-01. The JPL Monitoring Program was initiated in 1996 in response to a request from the United States Environmental Protection Agency (USEPA). The program began during the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Remedial Investigation of on-facility and off-facility groundwater at JPL. The purpose of the program is to monitor the elevation, flow direction, and quality of the groundwater beneath and adjacent to the JPL site.

From April 3 to May 1, 2001, SOTA personnel collected samples from 19 on-facility and off-facility JPL monitoring wells. In addition, the water-level elevation at each well was measured on April 3, 2001 (prior to sampling) and on May 1, 2001 (after sampling) to evaluate groundwater flow directions and gradients.

The locations of the JPL groundwater monitoring wells are shown in Figure 1-1. Monitoring wells MW-3, MW-4, MW-11, MW-12, MW-14, and MW-17 through MW-24 are deep multi-port wells, each containing five screened intervals equipped with a Westbay Instruments, Inc. (Westbay) multi-port casing system. Monitoring wells MW-5, MW-6, MW-8, MW-10, MW-13, and MW-16 are relatively shallow standpipe wells, each containing a single screened interval located just below the water table. A summary of the well construction details for the JPL groundwater monitoring wells is included in Table 1-1.

MW-2 has not been sampled since it was replaced with well MW-14 (Figure 1-1) as a JPL sampling point. MW-7 was also not sampled during this event because a pilot test was in progress. MW-1, MW-3 (screen 1), MW-9, MW-11 (screen 5), MW-15, MW-17 (screen 1), MW-18 (screen 1), MW-22 (screen 5), and MW-24 (screen 5) were not sampled due to changes in the sampling program as agreed to by the Environmental Protection Agency (EPA), Department of Toxic Substance Control (DTSC), and California Regional Water Quality Control Board (CA RWQCB).

All of the JPL groundwater samples were shipped to Applied Physics and Chemistry Laboratory (APCL) in Chino, California, for chemical analysis. APCL is certified by the California Department of Health Services (CADHS) and approved for use by the Naval Facilities Engineering Command, Quality Assurance/Quality Control (QA/QC) program. Sample collection procedures and sample analysis were conducted by SOTA in accordance with the Work Plan for Performing a Remedial Investigation/Feasibility Study prepared by Ebasco (Ebasco, 1993a), which was approved by the regulatory agencies.

In addition to groundwater samples, field quality assurance/quality control (QA/QC) samples, including trip blanks, equipment blanks, duplicate samples, and a field blank were collected for laboratory analysis. Sampling records for each shallow well and field data sheets for deep multi-

port wells are included in Appendix A. Piezometric pressure profiling records for each deep multi-port well are included in Appendix B. Laboratory analytical reports and associated chain-of-custody forms are included in Appendix C and Data Validation Reports are provided in Appendix D.

2.0 FIELD SAMPLING PROCEDURES

Two different procedures were used in collection of groundwater samples at JPL, one designed for the shallow wells and the other for the deep multi-port wells. These procedures are outlined below.

2.1 Shallow Monitoring Wells

The sampling procedure described below was applied to all the shallow JPL monitoring wells: MW-5, MW-6, MW-8, MW-10, MW-13, and MW-16.

The primary equipment used to sample the shallow wells included dedicated 2-inch diameter Grundfos Redi-Flo2[®] pumps, a pump controller, and a 220-volt generator. All of the dedicated Grundfos Redi-Flo2[®] pump systems were previously decontaminated, prior to their permanent installation. Details of the decontamination procedures for the Grundfos Redi-Flo2[®] pump systems are outlined in the OU-1 Field Sampling and Analysis Plan (Ebasco, 1993b).

Prior to sample collection, the water in each shallow well casing was purged (by pumping at about 2.5 gal/min) to remove groundwater that may have been exposed to the atmosphere and thus may not be representative of undisturbed aquifer conditions. This purged groundwater was discharged into 500- or 1,000-gallon polyethylene storage tanks for subsequent disposal by SOTA personnel pursuant to USEPA guidance (EPA, 1991 and EPA, 1992).

Temperature, pH, electrical conductivity, and turbidity of the water removed from each well were monitored during purging. Pursuant to the approved workplan (Ebasco, 1993b), a minimum of three casing volumes of water was purged and temperature, pH, electrical conductivity and turbidity were monitored for stabilization. When two successive measurements made approximately 5 minutes apart were within 10 percent of each other, groundwater samples were collected using the dedicated pump. During sampling for VOCs, the pumping rate was reduced to minimize sample agitation and volatilization. All information concerning sampling was noted on the Well Development/Well Sampling Log forms included in Appendix A.

All sample bottles were filled completely (though not allowed to overflow), capped, labeled, and immediately placed in a cooler with ice. Samples collected for VOCs had zero headspace.

Calibration, or standardization of the field instruments used to measure temperature, pH, electrical conductivity, and turbidity, was performed to the manufacturer's specifications at the beginning of each sampling day.

2.2 Deep Multi-Port Monitoring Wells

Sampling of the deep multi-port monitoring wells at JPL required specialized sampling equipment manufactured by Westbay. This equipment included a pressure profiling/sampling probe with a surface control unit. Field personnel using this equipment were trained by Westbay personnel to ensure proper use. Copies of the detailed operations manuals for the Westbay

pressure profiling/sampling probe are included in the OU-1 and OU-3 Field Sampling and Analysis Plans (Ebasco, 1993b; 1994).

The Westbay sampling probe and sample-collection bottles were decontaminated prior to sampling each screened interval in the deep multi-port wells according to the following procedures:

- Each 250-mL stainless-steel sample-collection bottle was washed in a solution of non-phosphate detergent (Liquinox[®]) and distilled water followed by washing each bottle in a solution of an acidic detergent (Citranox[®]) and distilled water.
- Each bottle was rinsed with distilled water.
- The interior surfaces of the Westbay sampling probe, and the hoses and valves associated with the Westbay sample bottles, were decontaminated by forcing several volumes of a solution of Liquinox[®] and distilled water through them followed by forcing several volumes of a Citranox[®] and distilled water solution through them. A final rinse with distilled water was carried out. Each of these decontamination procedures was completed using clean plastic spray bottles used only for this purpose.

Purging before sampling is not required in the deep multi-port monitoring wells because the groundwater sample was collected directly from the aquifer, thus ensuring that the groundwater sample has not been exposed to the atmosphere. However, at each screened interval an initial sample was collected in order to check temperature, pH, electrical conductivity, and turbidity in the field. Samples for laboratory analysis were then collected and transferred to sample containers as described in Section 2.1. Results of the field analyses were recorded on groundwater sampling field data sheets, which are included in Appendix A. Calibration of field instruments was carried out according to procedures described previously.

2.3 Field Quality Assurance/Quality Control Samples

Field QA/QC samples were collected to verify the quality of sampling procedures. The field QA/QC program included the collection of duplicate samples, equipment blanks, trip blanks, and a field blank. Laboratory QA/QC samples were used by the laboratory according to analytical method requirements.

Duplicate samples for VOCs, metals, and perchlorate (ClO_4^-) analyses were collected from shallow groundwater monitoring wells MW-6, MW-10, MW-16 and deep multi-port monitoring wells MW-14 (Screen 1), MW-17 (Screen 2), and MW-22 (Screen 1).

Matrix-Spike (MS) and Matrix-Spike Duplicate (MSD) samples were collected for 10% of samples analyzed for VOCs, perchlorate, and metals. These samples were used for laboratory QA/QC requirements.

One equipment blank was collected from the Westbay sample-collection bottles during each day of sampling the deep multi-port wells. Equipment blanks consisted of distilled water, passed

through the sampling equipment after the equipment had been decontaminated. Equipment blanks were analyzed for the same constituents as the groundwater samples to identify potential cross contamination due to inadequate decontamination. Equipment blanks were not collected during sampling of the shallow wells as only dedicated sampling equipment was used.

Trip blanks were used to identify potential cross contamination of groundwater samples during transport. A trip blank, consisting of ASTM Type II water placed in two 40-mL glass vials by the laboratory, was transported with the empty sample bottles to the field and back to the laboratory with the groundwater samples. One trip blank was submitted for VOC analysis with each shipment of groundwater samples to the laboratory.

During this sampling event, a field blank was collected on April 26th. The field blank was used to evaluate whether site conditions may have effected the analytical results. The field blank, consisting of sample bottles filled with distilled water, was analyzed for VOCs.

3.0 ANALYTICAL RESULTS

JPL groundwater monitoring wells MW-3 through MW-6, MW-8, MW-10 through MW-14, and MW-16 through MW-24 were sampled from April 3 to April 30, 2001. MW-1, MW-3 (screen 1), MW-9, MW-11 (screen 5), MW-15, MW-17 (screen 1), MW-18 (screen 1), MW-22 (screen 5), and MW-24 (screen 5) were not sampled due to changes in the sampling program as agreed to by the EPA, DTSC, and RWQCB. Monitoring well MW-2 is not included in the current monitoring program, as it was replaced as a JPL monitoring point by deep multi-port monitoring well MW-14. MW-7 was also not included in this quarter's sampling because a pilot test was in progress at this time. The summary of groundwater quality data for MW-7 collected during the April 2001 event can be found in the pilot test report (Foster Wheeler Pilot Study, April 2001).

The groundwater samples collected during this sampling event were analyzed for volatile organic compounds (VOCs), total chromium (Cr), hexavalent chromium [Cr(VI)], and perchlorate (ClO₄). A summary of the samples collected and the analyses performed on each sample is presented in Table 3-1. Analytical laboratory reports and associated chain-of-custody forms are included in Appendix C.

Nine compounds of concern have been most commonly reported above the laboratory detection limits (carbon tetrachloride (CCl₄), trichloroethene (TCE), tetrachloroethene (PCE), 1,1-dichloroethane (1,1-DCA), 1,2-dichloroethane (1,2-DCA), 1,1-dichloroethene (1,1-DCE), Freon 113, Chloroform, and perchlorate). The concentrations of these compounds have been plotted if at any time they exceeded their respective MCL from August/September 1996 through April 2001. The plots are presented in Figures 3-13 through 3-54.

3.1 Volatile Organic Compounds Results

Groundwater samples collected during the April 2001 sampling event were analyzed for over 60 different VOCs in accordance with EPA Method 524.2. To present the results on concentration contour maps, the JPL aquifer was divided into four aquifer layers based primarily on correlations interpreted from lithologic cross sections. Listed in Table 3-2 are the JPL monitoring well screens and their corresponding aquifer layers. Results of the analyses for VOCs in the April 2001 samples are summarized in Table 3-3 along with the State and Federal Maximum Contaminant Levels (MCLs) for drinking water as listed in Title 22 of the California Code of Regulations and in the EPA Health Advisory Guidelines. A small number of compounds were detected in the JPL samples, and only three VOCs [carbon tetrachloride, TCE, and PCE] were found in concentrations exceeding State and/or Federal MCLs (Table 3-3).

The concentrations of carbon tetrachloride, TCE, and PCE detected in each aquifer layer have been contoured on site maps to show the spatial distribution of each constituent (Figures 3-1 through 3-9). For instances where a constituent was not detected above the MCL in a particular aquifer layer, a contour map was not prepared for that constituent in that particular layer and a map showing only detections below the MCL was prepared instead. These instances include TCE, which did not exceed the MCL in layer 2 (Figure 3-5) and PCE, which did not exceed the MCL in layers 1 and 2 (Figures 3-7 and 3-8). Carbon tetrachloride concentrations detected in aquifer layers 1, 2, and 3 are contoured in Figures 3-1, 3-2, and 3-3, respectively. Figures 3-4 and 3-6

display contours of TCE concentrations detected in layers 1 and 3, respectively, and Figures 3-9 show contours of PCE detected in aquifer layer 3. A summary of the VOC results compiled from the long-term sampling events completed to date is provided in Table 3-4.

Carbon tetrachloride in excess of the State MCL ($0.5 \mu\text{g/L}$) was found in six on-facility wells and one off-facility well (Table 3-3, Figures 3-1, 3-2, and 3-3). The Federal MCL ($5.0 \mu\text{g/L}$) was exceeded in four on-facility wells. The highest concentrations of carbon tetrachloride were found in on-facility wells MW-13, MW-16, MW-24 (Screens 1 and 2), MW-12 (Screen 3) and MW-3 (Screen 3).

TCE concentrations exceeded the State and Federal MCL ($5.0 \mu\text{g/L}$) in three on-facility wells, and one off-facility well (Table 3-3, Figures 3-4, 3-5, and 3-6). The highest levels of TCE were found in on-facility wells MW-10, MW-13, MW-24 (Screen 1), and off-facility well MW-17 (Screen 5).

PCE was detected at low levels in several on-facility and off-facility wells (Figures 3-7, 3-8, and 3-9). The State and Federal MCL ($5.0 \mu\text{g/L}$) was exceeded only in off-facility well MW-21 (Screen 5).

Additional data was obtained from the California Department of Health Services for the nearby municipal production wells owned and operated by the City of Pasadena and other water purveyors. None of the detections reported from production wells exceeded the State MCL. These additional data were used to contour carbon tetrachloride, PCE, and TCE in Figures 3-1 through 3-10.

3.2 Perchlorate Results

Perchlorate (ClO_4^-) analyses were conducted on groundwater samples from the April 2001 event using ion chromatography (EPA 314.0, modified) and the results are included in Table 3-3. No MCLs for perchlorate have been established by regulators to date. However, the California Department of Health Services has established an Interim Action Level (IAL) of $18 \mu\text{g/L}$ for perchlorate. Perchlorate was detected in a total of 10 wells (Table 3-3), with concentrations in six of the 10 wells exceeding the IAL ($18 \mu\text{g/L}$). Perchlorate concentrations are contoured in Figures 3-10, 3-11, and 3-12 for aquifer layers 1, 2, and 3, respectively. The highest perchlorate levels were observed on-facility in wells MW-13, MW-16, and MW-24 (Screens 1 and 2).

Additional data was obtained from the California Department of Health Services for the nearby municipal production wells. Only the sample from City of Pasadena Well #52 exceeded the AL of $18 \mu\text{g/L}$. The City of Pasadena Ventura well was sampled for perchlorate on May 22, 2001 and reported at concentrations of $6.99 \mu\text{g/L}$. The City of Pasadena Well #52 was sampled for perchlorate on April 4, 2001 and reported at concentrations of $26.65 \mu\text{g/L}$. The City of Pasadena Windsor well was sampled for perchlorate on April 25, 2001 and reported at concentrations of $5.65 \mu\text{g/L}$. These additional data were used to contour perchlorate in Figures 3-11 and 3-12.

3.3 Metals Results

Groundwater samples were analyzed for the following metals: total chromium and hexavalent chromium. The results of the metals analyses are presented in Table 3-5, and are summarized below.

Total chromium was detected in ten wells at concentrations below both State and Federal MCLs (0.05 and 0.10 mg/L, respectively). Hexavalent chromium was not detected in any of the samples collected during the April 2001 event. At this time, neither State nor Federal regulatory agencies have established MCLs for hexavalent chromium.

Table 3-6 presents a summary of metals data from all sampling events completed to date during the long-term monitoring program.

3.4 Quality Assurance/Quality Control Results

Review of the QA/QC data provided with the laboratory analytical results indicates that all of the analytical results obtained from April 2001 samples are acceptable for their intended use of characterizing aquifer quality. Surrogate compound, matrix and blank spike, and method blank results were used by the laboratory to determine the accuracy and precision of the analytical techniques with respect to the JPL groundwater matrix, and to identify anomalous results due to laboratory contamination or instrument malfunction.

In addition to laboratory QA/QC samples, SOTA personnel collected QA/QC samples in the field in accordance with Quality Assurance Project Plan (QAPP) (Ebasco, 1993c). These samples included duplicate samples, equipment blanks, trip blanks, and field blanks.

Duplicate samples were used to evaluate the precision of the laboratory analyses. Duplicate samples for VOCs, metals, and perchlorate (ClO_4^-) analyses were collected from shallow groundwater monitoring wells MW-6, MW-10, MW-16 and deep multi-port monitoring wells MW-14 (Screen 1), MW-17 (Screen 2), and MW-22 (Screen 1). All of the analytical results for the duplicate samples were comparable to the results of the original groundwater samples (Table 3-3 and Table 3-5).

Thirteen equipment blanks and fifteen trip blanks were submitted for analysis during the April 2001 sampling event. All equipment blanks and trip blanks were reported to be analyte free.

4.0 DATA VERIFICATION AND VALIDATION

The purpose of data verification and validation is to assure that the data collected meet the DQOs outlined in the Quality Assurance Project Plan of the Groundwater Monitoring Plan and that the data are of sufficient quality for use in meeting the objectives outlined in the Groundwater Monitoring Plan (Ebasco, 1993c).

4.1 Data Verification

All data collected were subjected to data verification. In general, verification identifies non-technical errors in the data package that can be corrected (e.g., typographical errors). Data verification included proofreading and editing hard-copy data reports to assure that data correctly represent the analytical measurement. Data verification also included verifying that the sample identifiers on laboratory reports (hard copy) match those on the chain-of-custody record.

4.2 Data Validation

Data validation was performed by an independent subcontractor, Laboratory Data Consultants, Inc., Carlsbad, CA (LDC). One hundred percent of all data analyzed by a fixed-base analytical laboratory (APCL) were validated. One hundred percent of the data were subjected to Level IV quality assurance requirements of the Navy (Navy, 1996 and Navy, 1999).

Data validation is a systematic process used to interpret, define, and document analytical data quality and determine if the data quality is sufficient to support the intended use(s) of the data. Validation of a data package includes a reconstruction of sample preparation and analysis activities from the raw data and reconciliation of the raw data with the reduced results, identification of data anomalies, and qualification of data to identify data usability limitations. The data were further evaluated to help ensure suitability and usability for the purpose of the groundwater monitoring report.

4.3 Data Validation Qualifiers

Analytical data were qualified based on data validation reviews. For chemical data, qualifiers were assigned in accordance with the applicable U.S. EPA National Functional Guidelines for Data Validation (EPA, 1994a and 1994b). Data may be rejected for non-compliance with method requirements during the course of validation. Data may also be qualified as unusable in dilutions and reanalysis to yield only one complete set of data for a given sample and eliminate redundant data. The intent of the latter classification is to guide data users in choosing the best set of sample analytical results when reanalysis and/or dilutions exist. Individual laboratory data flags can be found in Appendix D.

5.0 WATER-LEVEL MEASUREMENTS

Water-level measurements were recorded before the sampling event on April 3, 2001, and after the sampling event on May 1, 2001, to evaluate groundwater flow directions and gradients beneath and adjacent to JPL. Water levels in the shallow wells were measured using a Solinst® water level meter. In the deep multi-port wells, the hydraulic head at each sampling port was measured with a Westbay pressure-transducer probe.

Water table elevation measurements taken before sampling are provided in Table 5-1 and have been contoured in Figure 5-1. Water-table elevation measurements taken after sampling are provided in Table 5-2 and have been contoured in Figure 5-2. The hydraulic heads measured at each deep multi-port well screen before and after sampling are presented graphically in Figures 5-3 and 5-4, respectively. The pressure-profile records for the deep wells are included in Appendix B.

As indicated by Figures 5-1 and 5-2, the estimated groundwater flow direction both before and after sampling was primarily to the south through JPL and then turned east across the Arroyo and plain in the vicinity of nearby municipal production wells. Groundwater gradients ranged from about 0.15 feet per foot near MW-9, at the northern end of the Arroyo, to roughly 0.01 feet per foot across the arroyo and plain.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions are based upon interpretation of analytical data and field measurements collected during the April 2001 event of the JPL Monitoring Program:

- The groundwater contaminants and contaminant plumes beneath JPL are adequately defined and relatively stable.
- The estimated groundwater flow direction was observed to be primarily to the south and east across JPL with an eastward flow direction in the plain near the City of Pasadena municipal production wells. This observation is generally consistent with previously reported data (Foster Wheeler, 2000).

Based on the results of the JPL Monitoring Program, an evaluation of the groundwater monitoring program should be conducted to update the program, which may include a reduction in the frequency of analyte monitoring as well as the number of analytes reported.

7.0 REFERENCES

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TABLE 1-1

SUMMARY OF WELL CONSTRUCTION DETAILS FOR JPL GROUNDWATER MONITORING WELLS

Well Number	Well Type	Year Installed	Drilling Method	Depth to Bottom of Casing (feet)	Depth of Screened Interval (feet)	Elevation Top 4 inch Casing (feet above mean sea level)	Elevation of Screened Interval (feet above mean sea level)	Multi-Port Well Screen Number	Sand Pack (feet)	Screen Slot Size (inch)	Casing Material
MW-1	Shallow Standpipe	1989	Mud Rotary	120	70-110	1116.7	1006.70-1046.70	-	99		4" PVC
MW-2	Shallow Standpipe	1989	Mud Rotary	177	127-167	1168.85	1001.85-1041.85	-			
MW-3	Deep Multi-Port	1990	Mud Rotary	700	170-180	1099.82	919.82-929.82	1	37	0.010	4" low-carbon steel
					250-260		839.82-849.82	2	47	0.010	4" low-carbon steel
					344-354		745.82-755.82	3	45	0.010	4" low-carbon steel
					555-565		534.82-544.82	4	39	0.010	4" low-carbon steel
					650-660		433.82-443.82	5	64	0.010	4" low-carbon steel
MW-4	Deep Multi-Port	1990	Mud Rotary	559	147-157	1082.72	925.72-935.72	1	48	0.010	4" low-carbon steel
					237-247		835.72-845.72	2	34	0.010	4" low-carbon steel
					318-328		754.72-764.72	3	42	0.010	4" low-carbon steel
					389-399		683.72-693.72	4	54	0.010	4" low-carbon steel
					509-519		563.72-573.72	5	52	0.010	4" low-carbon steel
MW-5	Shallow Standpipe	1990	Air Percussion	140	85-135	1071.6	936.60-986.60	-	71	0.010	4" low-carbon steel
MW-6	Shallow Standpipe	1990	Air Percussion	245	195-245	1188.52	943.52-993.52	-	62	0.010	4" low-carbon steel
MW-7	Shallow Standpipe	1990	Air Percussion	275	225-275	1212.88	937.88-987.88	-	63	0.010	4" low-carbon steel
MW-8	Shallow Standpipe	1992	Air Percussion	205	155-205	1139.53	934.53-984.53	-	75	0.010	4" low-carbon steel
MW-9	Shallow Standpipe	1992	Air Percussion	68	18-68	1106.02	1038.02-1088.02	-	56	0.010	4" PVC
MW-10	Shallow Standpipe	1992	Air Percussion	155	105-155	1087.71	932.71-982.71	-	67.5	0.010	4" PVC (0-85') 4" stainless steel (85'-105')
MW-11	Deep Multi-Port	1992	Mud Rotary	680	140-150	1139.35	989.35-999.35	1	24	0.010	4" low-carbon steel
					250-260		879.35-889.35	2	22	0.010	4" low-carbon steel
					420-430		709.35-719.35	3	26	0.010	4" low-carbon steel
					515-525		614.35-624.35	4	26	0.010	4" low-carbon steel
					630-640		499.35-509.35	5	28	0.010	4" low-carbon steel
MW-12	Deep Multi-Port	1994	Mud Rotary	596	135-145	1102.14	957.14-967.14	1	22	0.010	4" low-carbon steel
					240-250		852.14-862.14	2	19	0.010	4" low-carbon steel
					315-325		777.14-787.14	3	21	0.010	4" low-carbon steel
					430-440		662.14-672.14	4	22	0.010	4" low-carbon steel
					546-556		546.14-556.14	5	21	0.010	4" low-carbon steel
MW-13	Shallow Standpipe	1994	Air Rotary	235	180-230	1183.47	953.47-1003.47	-	65	0.010	4" PVC

TABLE 1-1

SUMMARY OF WELL CONSTRUCTION DETAILS FOR JPL GROUNDWATER MONITORING WELLS

Well Number	Well Type	Year Installed	Drilling Method	Depth to Bottom of Casing (feet)	Depth of Screened Interval (feet)	Elevation Top 4 inch Casing (feet above mean sea level)	Elevation of Screened Interval (feet above mean sea level)	Multi-Port Well Screen Number	Sand Pack (feet)	Screen Slot Size (inch)	Casing Material
MW-14	Deep Multi-Port	1994	Mud Rotary	588	205-215	1173.42	958.42-968.42	1	22	0.010	4" low-carbon steel
					275-285		888.42-898.42	2	26	0.010	4" low-carbon steel
					380-390		783.42-793.42	3	22	0.010	4" low-carbon steel
					453-463		710.42-720.42	4	27	0.010	4" low-carbon steel
					538-548		625.42-635.42	5	21	0.010	4" low-carbon steel
MW-15	Shallow Standpipe	1994	Air Percussion	74	19-69	1120.66	1051.66-1101.66	-	60	0.010	4" stainless steel
MW-16	Shallow Standpipe	1994	Air Percussion	285	230-280	1236.27	956.27-1006.27	-	62	0.010	4.5" PVC
MW-17	Deep Multi-Port	1995	Mud Rotary	774	246-256	1190.99	934.99-944.99	1	24	0.010	4" low-carbon steel
					366-376		814.99-824.99	2	24	0.010	4" low-carbon steel
					466-476		714.99-724.99	3	27	0.010	4" low-carbon steel
					578-588		602.99-612.99	4	25	0.010	4" low-carbon steel
					723-733		457.99-467.99	5	22	0.010	4" low-carbon steel
MW-18	Deep Multi-Port	1995	Mud Rotary	732	266-276	1225.34	949.34-959.34	1	22	0.010	4" low-carbon steel
					326-336		889.34-899.34	2	24	0.010	4" low-carbon steel
					421-431		794.34-804.34	3	20	0.010	4" low-carbon steel
					561-571		654.34-664.34	4	22	0.010	4" low-carbon steel
					681-691		534.34-544.34	5	23	0.010	4" low-carbon steel
MW-19	Deep Multi-Port	1995	Mud Rotary	543	240-250	1143.2	893.20-903.20	1	20	0.010	4" low-carbon steel
					310-320		823.20-833.20	2	20	0.010	4" low-carbon steel
					390-400		743.20-753.20	3	17	0.010	4" low-carbon steel
					442-452		691.20-701.20	4	20	0.010	4" low-carbon steel
					492-502		641.20-651.20	5	22	0.010	4" low-carbon steel
MW-20	Deep Multi-Port	1995	Mud Rotary	948	228-238	1164.89	926.89-936.89	1	24	0.010	4" low-carbon steel
					388-398		766.89-776.89	2	23	0.010	4" low-carbon steel
					558-568		596.89-606.89	3	19	0.010	4" low-carbon steel
					698-708		456.89-466.89	4	23	0.010	4" low-carbon steel
					898-908		256.89-266.89	5	27	0.010	4" low-carbon steel
MW-21	Deep Multi-Port	1995	Mud Rotary	416	86-96	1058.99	962.99-972.99	1	26	0.010	4" low-carbon steel
					156-166		892.99-902.99	2	25	0.010	4" low-carbon steel
					236-246		812.99-822.99	3	21	0.010	4" low-carbon steel
					306-316		742.99-752.99	4	22	0.010	4" low-carbon steel
					366-376		682.99-692.99	5	22	0.010	4" low-carbon steel

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SUMMARY OF WELL CONSTRUCTION DETAILS FOR JPL GROUNDWATER MONITORING WELLS

Well Number	Well Type	Year Installed	Drilling Method	Depth to Bottom of Casing (feet)	Depth of Screened Interval (feet)	Elevation Top 4 inch Casing (feet above mean sea level)	Elevation of Screened Interval (feet above mean sea level)	Multi-Port Well Screen Number	Sand Pack (feet)	Screen Slot Size (inch)	Casing Material
MW-22	Deep Multi-Port	1997	Mud Rotary	634	239-249	1176.81	927.81-937.81	1	24	0.010	4" low-carbon steel
					324-334		842.81-852.81	2	21	0.010	4" low-carbon steel
					384-394		782.81-792.81	3	22	0.010	4" low-carbon steel
					464-474		702.81-712.81	4	23	0.010	4" low-carbon steel
					584-594		582.81-592.81	5	22	0.010	4" low-carbon steel
MW-23	Deep Multi-Port	1997	Mud Rotary	590	170-180	1108.34	928.34-938.34	1	23	0.010	4" low-carbon steel
					250-260		843.34-858.34	2	20.5	0.010	4" low-carbon steel
					315-325		783.34-793.34	3	18	0.010	4" low-carbon steel
					440-450		658.34-668.34	4	25	0.010	4" low-carbon steel
					540-550		558.34-568.34	5	22.5	0.010	4" low-carbon steel
MW-24	Deep Multi-Port	1997	Mud Rotary	725	275-285	1200.91	915.91-925.91	1	25	0.010	4" low-carbon steel
					370-380		820.91-830.91	2	50	0.010	4" low-carbon steel
					430-440		760.91-770.91	3	25	0.010	4" low-carbon steel
					550-560		640.91-650.91	4	19	0.010	4" low-carbon steel
					675-685		515.91-525.91	5	16	0.010	4" low-carbon steel

TABLE 3-1
SUMMARY OF ANALYSES PERFORMED ON GROUNDWATER SAMPLES COLLECTED FROM
JPL MONITORING WELLS,
APRIL 2001

Sample Location	VOCs (524.2)	Total Cr (200.8)	Hexavalent Cr (7196)	Perchlorate (CADHS/ EPA 314)	Lead (200.8)	Arsenic (200.9)	NDMA (1625M)	1,4-Dioxane (8270)	Major Anions and Cations	Total Dissolved Solids (2540-C)	pH (4500-H)
MW-1											
MW-3											
Screen 1											
Screen 2	X	X	X	X							
Screen 3	X	X	X	X							
Screen 4	X	X	X	X							
Screen 5				X							
MW-4											
Screen 1	X	X	X	X							
Screen 2	X	X	X	X							
Screen 3	X	X	X	X							
Screen 4		X	X								
Screen 5		X	X								
MW-5	X	X	X	X							
MW-6	X	X	X	X							
MW-7					NOT SAMPLED - PILOT TEST						
MW-8	X	X	X	X							
MW-9											
MW-10	X	X	X	X							
MW-11											
Screen 1	X	X	X	X							
Screen 2	X	X	X	X							
Screen 3	X	X	X	X							
Screen 4	X										
Screen 5											
MW-12											
Screen 1	X	X	X	X							
Screen 2	X	X	X	X							
Screen 3	X	X	X	X							
Screen 4	X										
Screen 5	X										
MW-13	X	X	X	X							
MW-14											
Screen 1	X	X	X	X							
Screen 2	X	X	X	X							
Screen 3	X	X	X	X							
Screen 4	X	X	X	X							
Screen 5	X										
MW-15											
MW-16	X	X	X	X							
MW-17											
Screen 1											
Screen 2	X	X	X	X							
Screen 3	X	X	X	X							
Screen 4	X	X	X	X							
Screen 5	X										

TABLE 3-1
SUMMARY OF ANALYSES PERFORMED ON GROUNDWATER SAMPLES COLLECTED FROM
JPL MONITORING WELLS,
APRIL 2001

Sample Location	VOCs (524.2)	Total Cr (200.8)	Hexavalent Cr (7196)	Perchlorate (CADHS/ EPA 314)	Lead (200.8)	Arsenic (200.9)	NDMA (1625M)	1,4-Dioxane (8270)	Major Anions and Cations	Total Dissolved Solids (2540-C)	pH (4500-H)
MW-18											
Screen 1											
Screen 2	X	X	X	X							
Screen 3	X	X	X	X							
Screen 4	X	X	X	X							
Screen 5	X			X							
MW-19											
Screen 1	X			X							
Screen 2	X			X							
Screen 3	X			X							
Screen 4	X			X							
Screen 5	X			X							
MW-20											
Screen 1	X	X	X	X							
Screen 2	X	X	X	X							
Screen 3	X	X	X	X							
Screen 4	X	X	X	X							
Screen 5	X	X	X	X							
MW-21											
Screen 1	X			X							
Screen 2	X			X							
Screen 3	X			X							
Screen 4	X			X							
Screen 5	X			X							
MW-22											
Screen 1	X	X	X	X							
Screen 2	X	X	X	X							
Screen 3	X			X							
Screen 4				X							
Screen 5											
MW-23											
Screen 1	X	X	X	X							
Screen 2	X	X	X	X							
Screen 3	X	X	X	X							
Screen 4		X	X	X							
Screen 5				X							
MW-24											
Screen 1	X	X	X	X							
Screen 2	X	X	X	X							
Screen 3	X	X	X	X							
Screen 4		X	X								
Screen 5											

TABLE 3-2
LOCATION OF WELL SCREENS IN AQUIFER LAYERS

Well Number	AQUIFER LAYERS			
	Layer 1	Layer 2	Layer 3	Layer 4
MW-1	X			
MW-3				
Screen 1	X			
Screen 2		X		
Screen 3		X		
Screen 4			X	
Screen 5			X	
MW-4				
Screen 1	X			
Screen 2		X		
Screen 3		X		
Screen 4		X		
Screen 5			X	
MW-5	X			
MW-6	X			
MW-7	X			
MW-8	X			
MW-9	X			
MW-10	X			
MW-11				
Screen 1	X			
Screen 2		X		
Screen 3		X		
Screen 4		X		
Screen 5			X	
MW-12				
Screen 1	X			
Screen 2		X		
Screen 3		X		
Screen 4		X		
Screen 5			X	
MW-13	X			
MW-14				
Screen 1	X			
Screen 2		X		
Screen 3		X		
Screen 4			X	
Screen 5			X	
MW-15	X			
MW-16	X			
MW-17				
Screen 1	X			
Screen 2		X		
Screen 3		X		
Screen 4			X	

TABLE 3-2
LOCATION OF WELL SCREENS IN AQUIFER LAYERS

Well Number	AQUIFER LAYERS			
	Layer 1	Layer 2	Layer 3	Layer 4
Screen 5			X	
MW-18				
Screen 1	X			
Screen 2	X			
Screen 3		X		
Screen 4			X	
Screen 5			X	
MW-19				
Screen 1	X			
Screen 2		X		
Screen 3		X		
Screen 4			X	
Screen 5			X	
MW-20				
Screen 1	X			
Screen 2		X		
Screen 3			X	
Screen 4			X	
Screen 5				X
MW-21				
Screen 1	X			
Screen 2		X		
Screen 3		X		
Screen 4			X	
Screen 5			X	
MW-22				
Screen 1	X			
Screen 2		X		
Screen 3		X		
Screen 4			X	
Screen 5			X	
MW-23				
Screen 1	X			
Screen 2		X		
Screen 3		X		
Screen 4			X	
Screen 5			X	
MW-24				
Screen 1	X			
Screen 2		X		
Screen 3		X		
Screen 4			X	
Screen 5			X	

TABLE 3-3

**SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED IN
GROUNDWATER SAMPLES COLLECTED FROM JPL MONITORING WELLS, APRIL 2001**

(concentrations in µg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sample Number	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds	Perchlorate
MW-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3											
Screen 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Screen 2	MW-3-2	--	--	--	--	--	--	--	--	--	--
Screen 3	MW-3-3	8.0	--	0.3 J	--	--	--	--	17.0	--	13
Screen 4	MW-3-4	--	--	--	--	--	--	--	--	--	--
Screen 5	MW-3-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
MW-4											
Screen 1	MW-4-1	--	--	--	--	--	--	--	--	--	--
Screen 2	MW-4-2	0.3 J	--	1.1	0.5 J	--	--	--	--	--	13
Screen 3	MW-4-3	--	--	--	--	--	--	--	--	0.6 Ethylbenzene	--
Screen 4	MW-4-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Screen 5	MW-4-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	MW-5	--	--	--	--	--	--	--	--	--	--
MW-6	MW-6	--	0.3 J	2.1	1.0	--	--	--	0.5	--	--
MW-6 (DUP)	MW-6-D	--	--	1.8	1.0	--	--	--	0.6	--	--
MW-7											420*
NOT SAMPLED – PILOT TEST											
MW-8	MW-8	--	--	--	--	--	--	--	--	--	5.0
MW-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	MW-10	0.6	20.2	--	0.4 J	--	--	--	1.9	--	36.0
MW-10 (DUP)	MW-10-D	0.5	19.1	--	0.4 J	--	--	--	1.8	--	39.0
MW-11											
Screen 1	MW-11-1	--	0.4 J	--	--	--	--	--	--	0.5 1,3-Dichloropropane	--
Screen 2	MW-11-2	0.4 J	--	--	--	--	--	--	0.6	0.6 1,3-Dichloropropane	--
Screen 3	MW-11-3	--	--	--	--	--	--	--	--	--	--
Screen 4	MW-11-4	--	--	--	--	--	--	--	--	--	--
Screen 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-3

**SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED IN
GROUNDWATER SAMPLES COLLECTED FROM JPL MONITORING WELLS, APRIL 2001**

(concentrations in µg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sample Number	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds	Perchlorate
MW-12											
Screen 1	MW-12-1	--	--	--	--	--	--	--	--	--	--
Screen 2	MW-12-2	0.3 J	--	--	--	--	--	--	--	--	--
Screen 3	MW-12-3	10.2	--	--	--	--	--	--	2.1	--	4.0
Screen 4	MW-12-4	4.2	0.6	--	--	--	--	--	1.5	--	6.0
Screen 5	MW-12-5	2.0	0.9	--	--	--	--	--	0.8	--	--
MW-13	MW-13	3.6	18.0	--	--	--	--	--	4.9	0.5 Bromodichloromethane	170
MW-14											
Screen 1	MW-14-1	--	--	0.7	0.7	--	--	--	0.4 J	--	--
Screen 1 (DUP)	MW-14-1D	--	--	0.6	0.6	--	--	--	0.4 J	--	--
Screen 2	MW-14-2	--	4.2	0.9	0.7	--	--	--	0.5	--	--
Screen 3	MW-14-3	--	0.7	0.3 J	--	--	--	--	0.4 J	--	--
Screen 4	MW-14-4	--	--	--	--	--	--	--	--	--	--
Screen 5	MW-14-5	--	--	--	--	--	--	--	--	--	--
MW-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-16	MW-16	21.0	3.6	--	--	--	1.6	--	15.3	--	1,300
MW-16 (DUP)	MW-16-D	18.4	3.3	--	--	--	1.7	--	13.7	--	1,300
MW-17											
Screen 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Screen 2	MW-17-2	--	--	--	--	--	--	--	0.4 J	--	--
Screen 2 (DUP)	MW-17-2D	--	--	--	--	--	--	--	0.4 J	--	--
Screen 3	MW-17-3	0.4 J	--	--	--	--	--	--	2.3	--	5.0
Screen 4	MW-17-4	--	3.0	--	--	--	--	--	0.8	--	12.0
Screen 5	MW-17-5	--	5.7	0.4 J	--	--	--	--	1.2	--	19.0
MW-18											
Screen 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Screen 2	MW-18-2	--	--	--	--	--	--	--	1.2	--	--
Screen 3	MW-18-3	--	0.6	--	--	--	--	--	1.9	--	--

TABLE 3-3

**SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED IN
GROUNDWATER SAMPLES COLLECTED FROM JPL MONITORING WELLS, APRIL 2001**

(concentrations in µg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sample Number	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds	Perchlorate
Screen 4	MW-18-4	2.6	1.5	1.9	--	--	--	--	1.0	--	29
Screen 5	MW-18-5	--	--	--	--	--	--	--	--	--	--
MW-19											
Screen 1	MW-19-1	--	--	--	--	--	--	--	--	--	--
Screen 2	MW-19-2	--	1.2	0.5 J	--	--	--	--	0.4 J	--	--
Screen 3	MW-19-3	--	0.5	1.2	--	--	--	--	0.3 J	--	--
Screen 4	MW-19-4	--	--	--	--	--	--	--	2.0	--	--
Screen 5	MW-19-5	--	0.4 J	2.5	--	--	--	--	--	--	--
MW-20											
Screen 1	MW-20-1	--	--	--	--	--	--	--	0.9	--	--
Screen 2	MW-20-2	--	--	--	--	--	--	--	2.9	--	--
Screen 3	MW-20-3	--	--	--	--	--	--	--	--	--	--
Screen 4	MW-20-4	--	--	--	--	--	--	--	--	--	--
Screen 5	MW-20-5	--	--	--	--	--	--	--	--	--	--
MW-21											
Screen 1	MW-21-1	--	3.3	0.6	0.7	--	--	--	1.2	--	--
Screen 2	MW-21-2	--	0.3 J	0.9	--	--	--	--	--	--	--
Screen 3	MW-21-3	--	1.8	1.4	--	--	--	--	0.8	--	--
Screen 4	MW-21-4	--	--	3.8	--	--	--	--	1.0	0.7 cis-1,2-Dichloroethene 0.7 1,2-Dichloroethene (total)	--
Screen 5	MW-21-5	--	0.7	12.4	--	--	--	--	1.4	2.3 cis-1,2-Dichloroethene 2.3 1,2-Dichloroethene (total)	--
MW-22											
Screen 1	MW-22-1	--	--	4.0	0.5	--	--	--	0.4 J	--	--
Screen 1 (DUP)	MW-22-1D	--	--	1.8	0.3 J	--	--	--	--	--	--
Screen 2	MW-22-2	--	--	--	--	--	--	--	--	--	--
Screen 3	MW-22-3	--	--	--	--	--	--	--	--	--	--
Screen 4	MW-22-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	--

TABLE 3-3

**SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED IN
GROUNDWATER SAMPLES COLLECTED FROM JPL MONITORING WELLS, APRIL 2001**

(concentrations in µg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sample Number	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds	Perchlorate
Screen 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-23											
Screen 1	MW-23-1	--	0.7	--	0.5	--	--	--	0.5 J	--	--
Screen 2	MW-23-2	--	0.4 J	--	--	--	--	--	0.5	--	--
Screen 3	MW-23-3	--	--	--	--	--	--	--	--	--	--
Screen 4	MW-23-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
Screen 5	MW-23-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
MW-24											
Screen 1	MW-24-1	12.6	6.5	--	--	0.4 J	--	--	6.0	--	430
Screen 2	MW-24-2	10.6	2.0	--	--	0.4 J	0.6	--	6.2	--	430
Screen 3	MW-24-3	--	--	--	--	--	--	--	--	--	--
Screen 4	MW-24-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Screen 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Practical Quantitation Limit		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	--	4.0
California Maximum Contaminant Level		0.5	5.0	5.0	5.0	0.5	6.0	1,200	100	--	18 ¹
EPA Region IX Maximum Contaminant Level		5.0	5.0	5.0	NE	5.0	7.0	NE	100	--	NE

--: Not detected.

DUP: Field Duplicate.

NE: Not Established.

NA: Not Analyzed for the particular constituent due to changes in the sampling program as agreed to by the EPA, DTSC, and RWQCB.

1: California Department of Health Services Interim Action Level.

J: Reported between the practical quantitation limit and the method detection limit and is an estimated value.

* Result is from pilot study – sample was collected on April 25, 2001.

TABLE 3-4
SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED
DURING THE JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY

(concentrations in µg/L)

Values above State or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
MW-1	Aug/Sep 1996	--	--	--	--	--	--	--	--	--	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	1.9 Acetone	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	1.9 Acetone	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	1.3 m,p-Xylenes	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/June 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	0.8 Benzene ⁽⁵⁾	--
	April 2001	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
MW-3											
Screen 1	Aug/Sep 1996	--	--	--	--	--	--	--	1.2	--	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	8.3	0.7(B) Naphthalene	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	2.6 Carbon Disulfide	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/June 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Screen 2	Aug/Sep 1996	--	--	--	--	--	--	--	5.5	--	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	4.8	1.9(B) Naphthalene	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	4.4	8.0 Carbon Disulfide	(1)

TABLE 3-4
SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED
DURING THE JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY

(concentrations in µg/L)

Values above State or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jun/Jul 1997	--	--	--	--	--	--	1.0	1.2	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	0.8	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/June 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	--	--	--	--	--	--	--	--	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	--	--	--	--	--	--	--	--	--	--
Screen 3	Aug/Sep 1996	0.6	0.8	--	--	--	--	--	1.6	--	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	0.7	--	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	0.8	--	(1)
	Jun/Jul 1997	1.2	0.8	0.6	--	--	--	2.8	1.8	--	21
	Sep/Oct 1997	1.2	0.5	--	--	--	--	--	1.6	--	13
	Jan/Feb 1998	1.2	--	--	--	--	--	--	2.7	--	6.5
	Apr/May 1998	3.6	0.9	--	--	--	--	--	3.9	--	6.2
	Jul/Aug 1998	2.4	0.6	--	--	--	--	--	3.6	--	10
	Oct/Nov 1998	5.8	0.7	--	--	--	--	--	21	2.7 Carbon Disulfide	--
	Feb/Mar 1999	4.5	1.3	--	--	--	--	0.9	42	--	--
	May/June 1999	42	1.3	--	--	--	--	1.0	26(EB)	--	8.9
	Aug 1999	15	1.0	--	--	--	--	0.8	37	--	--
	Nov/Dec 1999	26	1.3	--	--	--	--	0.9	43(EB)	--	5.2
	Mar/Apr 2000	42	1.9	--	--	--	--	1.1	32(EB)	--	19.4
	Jul/Aug 2000	8.6	1.4	--	--	--	--	0.7	37(EB)	--	--
	Jan/Feb 2001	2.6	0.9	--	--	--	--	--	32.9	--	--
	April 2001	8.0	--	0.3 J	--	--	--	--	17.0	--	13
Screen 4	Aug/Sep 1996	--	--	--	--	--	--	--	--	--	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	1.2 Acetone	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	1.0 Hexane	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	4.7 Carbon Disulfide ⁽³⁾	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--

TABLE 3-4
SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED
DURING THE JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY

(concentrations in µg/L)

Values above State or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	--	--	--	--	--	--	--	--	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	--	4.1 Carbonyl Sulfide	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	--	--	--	--	--	--	--	--	--	--
Screen 5	Aug/Sep 1996	--	--	--	--	--	--	--	--	2.1 Dichloromethane	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	2.1 Acetone	(1)
										1.2 Carbon Disulfide	
										1.5 Carbon Disulfide	
	Feb/Mar 1997	--	--	--	--	--	--	--	--	2.7 Sulfur Dioxide	(1)
										1.3 Unknown (RT=2.51)	
	Jun/Jul 1997	--	--	--	--	--	--	--	--	4.5 Carbon Disulfide	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	91
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	75
	Aug 1999	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	140
	Nov/Dec 1999	--	--	--	--	--	--	--	--	0.2 Carbonyl Sulfide	--
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	0.7 Carbonyl Sulfide	--
MW-4	Jan/Feb 2001	--	--	--	--	--	--	--	--	0.3 J Ethylbenzene	--
										0.5 J Styrene	--
	April 2001	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	--
Screen 1	Aug/Sep 1996	--	--	--	--	--	--	--	--	2.9(B) Acetone	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	--	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	7.4

TABLE 3-4
SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED
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JET PROPULSION LABORATORY

(concentrations in µg/L)

Values above State or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	9.6
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	3.4 Dichloromethane ⁽⁴⁾	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	0.8(B)	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	--	--	--	--	--	--	--	--	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	2.0 Methylene chloride	--
	April 2001	--	--	--	--	--	--	--	--	--	--
Screen 2	Aug/Sep 1996	5.5	19	--	--	0.9	0.7	--	6.7	3.2(B) Acetone	(1)
	Oct/Nov 1996	5.3	15	--	--	0.6	0.8	--	5.4	1.8 Acetone	(1)
	Feb/Mar 1997	7.9	19	--	--	0.8	0.8	--	7.8	--	(1)
	Jun/Jul 1997	4.0	5.7	--	--	--	0.5	--	3.4	--	51
	Sep/Oct 1997	4.0	8.0	0.5	0.6	--	0.5	--	3.5	--	34
	Jan/Feb 1998	1.9	2.7	0.6	--	--	--	--	1.8	--	30
	Apr/May 1998	2.8	4.3	0.7	0.5	--	--	--	3.1	--	41
	Jul/Aug 1998	1.5	3.0	0.8	0.5	--	--	--	2.0	--	29
	Oct/Nov 1998	0.9	2.4	0.7	--	--	--	--	1.6	--	25
	Feb/Mar 1999	1.2	4.1	0.6	0.5 ⁽⁵⁾	--	--	--	2.5	--	38
	May/Jun 1999	2.0	6.4	0.7	--	--	--	--	3.7(EB)	--	56
	Aug 1999	1.9	5.5	0.5	--	--	--	--	3.3	--	69
	Nov/Dec 1999	2.3	6.2	0.7	--	--	--	--	3.1(EB)	--	42
	Mar/Apr 2000	1.4	3.9	0.7	--	--	--	--	1.7(EB)	--	33
	Jul/Aug 2000	1.7	3.8	1.0	0.6	--	--	--	1.9(EB)	--	32
	Jan/Feb 2001	--	0.7 J	--	--	--	--	--	--	1.0 Methylene chloride	7.0
	April 2001	0.3 J	--	1.1	0.5 J	--	--	--	--	--	13.0
Screen 3	Aug/Sep 1996	--	--	--	--	--	--	--	--	3.0(B) Acetone	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	1.5 Acetone	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	1.0 Dichloromethane ⁽⁴⁾	--

TABLE 3-4
SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED
DURING THE JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY

(concentrations in µg/L)

Values above State or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	0.7 ⁽⁴⁾	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	--	--	--	--	--	--	--	--	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	0.6 Unknown (RT=4.79)	--
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	1.0 Methylene chloride 1.0 Ethylbenzene 0.6 Ethylbenzene	--
	April 2001	--	--	--	--	--	--	--	--	--	--
Screen 4	Aug/Sep 1996	--	--	--	--	--	--	--	--	3.9(B) Acetone	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	1.6 Acetone	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	0.6 ⁽⁴⁾	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
Screen 5	Jan/Feb 2001	--	--	--	--	--	--	--	--	2.0 J Methylene chloride	--
	April 2001	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	1.9 Acetone	(1)
	Aug/Sep 1996	--	--	--	--	--	--	--	--	--	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	7.4 Hexane	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	0.6 ⁽⁴⁾	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--

TABLE 3-4
SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED
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JET PROPULSION LABORATORY

(concentrations in µg/L)

Values above State or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Aug 1999	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	1.0 Methylene chloride 3.8 Methyl tertiary butyl ether	--
	April 2001	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
MW-5	Aug/Sep 1996	--	--	--	--	--	--	--	--	--	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	--	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	4.2
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	6.5 Dichloromethane ⁽⁴⁾	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	--	--	--	--	--	--	--	--	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	4.5	--	--	--	--	--	0.5 J	--	21
	April 2001	--	--	--	--	--	--	--	--	--	--
MW-6	Aug/Sep 1996	--	--	--	--	--	--	--	1.3(TB)	--	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	--	(1)
	Feb/Mar 1997	--	--	--	0.8	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	5.5
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	2.0	1.0	--	--	--	--	--	--
	Apr/May 1998	--	0.7	3.2	1.1	--	--	--	0.6	--	--
	Jul/Aug 1998	--	0.6	2.5	0.8	--	--	--	--	7.6 Dichloromethane ⁽⁴⁾	4.2
	Oct/Nov 1998	--	--	0.7	--	--	--	--	--	--	--
	Feb/Mar 1999	--	0.8	3.8	1.0	--	--	--	0.6	--	--
	May/Jun 1999	--	--	1.5	--	--	--	--	--	--	--
	Aug 1999	--	--	0.5	--	--	--	--	--	--	4.0
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Jan/Apr 2000	--	--	3.0	0.8	--	--	--	--	--	4.8

TABLE 3-4
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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	4.1
	Jan/Feb 2001	--	--	3.0	1.1	--	--	--	0.5 J	0.4 J Methylene Chloride 1.0 J Methyl tertiary butyl ether	--
	April 2001	--	0.3 J	2.1	1.0	--	--	--	0.6 ⁽⁵⁾	--	--
MW-7	Aug/Sep 1996	90	39	0.8	--	1.2	1.1	7.2	13(TB)	--	(1)
	Oct/Nov 1996	170	27	1.3	--	0.8	2.3	7.7	14	4.3(B) 1,1-Difluoroethane 2.8(B) Acetone	(1)
	Feb/Mar 1997	45	27	0.6	--	0.8	0.9	5.1	9.9	--	(1)
	Jun/Jul 1997	39	23	0.7	--	0.8	1.0	4.1	11	10 Unknown	285
	Sep/Oct 1997	93	22	1.1	--	0.9	1.3	4.7	13	--	550
	Jan/Feb 1998	150	24	3.7	--	0.8	2.1	6.4	13	--	720
	Apr/May 1998	31	13	0.5	--	--	--	3.1	6.1	--	130
	Jul/Aug 1998	43	19	0.8	--	0.6	0.9	3.4	9.0	1.0 Dichloromethane ⁽⁴⁾	190
	Oct/Nov 1998	51	18	0.9	--	0.7	1.1	3.0	9.8	3.4 Carbon Disulfide	210
	Feb/Mar 1999	49	17	0.6	--	--	0.9	2.0	7.2	--	150
	May/Jun 1999	42	14	--	--	--	--	2.2	5.7(FB)	--	120
	Aug 1999	40	16	0.5	--	--	0.8	1.9	7.8(FB)	--	210
	Nov/Dec 1999	120	19.7	3.0	--	0.7	2.2	2.4	10.8(FB)	--	460
	Mar/Apr 2000	110	18	2.7	--	0.5	2.3	2.6	8.9(FB)	--	740
	Jul/Aug 2000	50	14	1.2	--	--	0.9	2.0	7.1(FB)	--	290
	Jan/Feb 2001	NOT SAMPLED – PILOT TEST									
	April 2001	NOT SAMPLED – PILOT TEST									
MW-8	Aug/Sep 1996	4.0	4.6	--	--	--	--	--	1.3	--	(1)
	Oct/Nov 1996	2.8	2.2	--	--	--	--	0.6	0.6	1.7 Acetone	(1)
	Feb/Mar 1997	1.5	4.5	--	--	--	--	--	1.3	1.1 Freon 11 1.9 Carbon Disulfide	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	6.4
	Sep/Oct 1997	3.2	3.6	--	--	--	--	--	1.2	1.0 Freon 11	29
	Jan/Feb 1998	1.8	1.3	--	--	--	--	--	0.8	0.8 Freon 11	11
	Apr/May 1998	1.3	1.3	--	--	--	--	--	0.5	--	7.6
	Jul/Aug 1998	--	--	--	--	--	--	--	--	6.6 Dichloromethane ⁽⁴⁾	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	--	--	--	--	--	--	--	--	--	--
	Nov/Dec 1999	0.9	0.8	--	--	--	--	--	--	--	5.2
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	--

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	10
	Jan/Feb 2001	1.1	0.9	--	--	--	--	--	0.4 J	0.5 J Methyl tertiary butyl ether 1.0 Trichlorofluoromethane	5.0
	April 2001	--	--	--	--	--	--	--	--	--	--
MW-9	Aug/Sep 1996	--	--	--	--	--	--	--	--	--	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	--	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	3.9 Unknown RT=6.21	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
MW-10	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Aug/Sep 1996	0.7	18	0.5	--	--	--	1.2	1.4(TB)	--	(1)
	Oct/Nov 1996	0.6	6.6	1.0	1.9	--	--	0.8	1.1	3.0(B) Acetone 1.1 Unknown Scan #350	(1)
	Feb/Mar 1997	--	5.2	--	--	--	--	--	0.6	--	(1)
	Jun/Jul 1997	--	2.2	--	--	--	--	--	--	--	11
	Sep/Oct 1997	--	4.3	1.3	1.2	--	--	--	1.0	--	16
	Jan/Feb 1998	--	1.1	2.2	1.6	--	--	--	1.4	--	4.7
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	8.2 Dichloromethane ⁽⁴⁾	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	5.7	--	--	--	--	--	0.9	--	39
	May/Jun 1999	--	1.1	--	--	--	--	--	--	--	10
	Aug 1999	--	2.2	--	--	--	--	--	--	--	21
	Nov/Dec 1999	--	3.7	1.1	0.6	--	--	--	0.9	--	21
	Mar/Apr 2000	--	2.0	2.2	1.1	--	--	--	0.9	--	9.1
	Jul/Aug 2000	--	1.1	--	--	--	--	--	--	--	15

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jan/Feb 2001	--	0.6	1.6	0.9	--	--	--	1.0	--	5.0
	April 2001	0.6	20.2	--	0.4 J	--	--	--	1.9	--	39.0 ⁽⁵⁾
MW-11											
Screen 1	Aug/Sep 1996	--	--	--	--	--	--	--	--	2.6(B) Acetone	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	7.1 MTBE	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	1.8 Acetone	(1)
	Jun/Jul 1997	1.4	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	1.5	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	1.4	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	0.9 ⁽⁴⁾	--	--	--
	May/June 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	--	--	--	--	--	--	--	--	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	0.4 J	--	--
	April 2001	--	0.4 J	--	--	--	--	--	--	0.5 1,3-Dichloropropane	--
Screen 2	Aug/Sep 1996	2.4	--	--	--	--	--	--	1.0	--	(1)
	Oct/Nov 1996	1.1	--	--	--	--	--	--	1.2	--	(1)
	Feb/Mar 1997	1.7	--	--	--	--	--	--	1.0	--	(1)
	Jun/Jul 1997	1.2	--	--	--	--	--	--	1.0	--	--
	Sep/Oct 1997	0.6	--	--	--	--	--	--	0.6	--	--
	Jan/Feb 1998	0.7	--	--	--	--	--	--	0.7	--	--
	Apr/May 1998	1.0	--	--	--	--	--	--	0.7	--	--
	Jul/Aug 1998	0.9	--	--	--	--	--	--	0.6	--	--
	Oct/Nov 1998	0.6	--	--	--	--	--	--	0.7	--	--
	Feb/Mar 1999	--	--	--	--	--	--	0.7 ⁽⁴⁾	1.1	--	--
	May/June 1999	0.5	--	--	--	--	--	--	0.7(EB)	--	--
	Aug 1999	0.5	--	--	--	--	--	--	0.6	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	0.5(EB)	--	--
	Mar/Apr 2000	0.8	--	--	--	--	--	--	0.7(EB)	--	--
	Jul/Aug 2000	0.7	--	--	--	--	--	--	0.5(EB)	--	--

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
Screen 3	Jan/Feb 2001	--	--	--	--	--	--	--	0.7	--	--
	April 2001	0.4 J	--	--	--	--	--	--	0.6	0.6 1,3-Dichloropropane	--
	Aug/Sep 1996	0.9	--	--	--	--	--	--	1.3	2.9(B) Acetone	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	1.4	--	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	1.1	--	(1)
	Jun/Jul 1997	0.7	--	--	--	--	--	--	1.4	--	--
	Sep/Oct 1997	0.6	--	--	--	--	--	--	1.3	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	1.4	--	--
	Apr/May 1998	1.0	--	--	--	--	--	--	1.3	--	--
	Jul/Aug 1998	1.5	--	--	--	--	--	--	1.4	--	--
	Oct/Nov 1998	1.3	--	--	--	--	--	--	1.1	--	--
	Feb/Mar 1999	--	--	--	--	--	--	0.7 ⁽⁴⁾	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	0.7	--	--	--	--	--	--	0.7	--	--
	Nov/Dec 1999	0.9	--	--	--	--	--	--	0.7(EB)	--	--
	Mar/Apr 2000	2.4	--	--	--	--	--	--	1.0(EB)	--	--
	Jul/Aug 2000	0.9	--	--	--	--	--	--	0.6(EB)	--	--
Screen 4	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	--	--	--	--	--	--	--	--	--	--
	Aug/Sep 1996	--	--	--	--	--	--	--	0.5	2.4(B) Acetone	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	--	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	1.5 2-Methyl-1-Propene	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	0.5	--	--
	Apr/May 1998	--	--	--	--	--	--	--	0.5	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	0.5	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	0.6	--	--
	Feb/Mar 1999	--	--	--	--	--	--	0.7 ⁽⁴⁾	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	0.5(EB)	--	--
	Aug 1999	--	--	--	--	--	--	--	0.5	--	(2)
	Nov/Dec 1999	--	--	--	--	--	--	--	0.5(EB)	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	0.6(EB)	--	(2)
	Jul/Aug 2000	--	--	--	--	--	--	--	0.6(EB)	--	--

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jan/Feb 2001	--	--	--	--	--	--	--	0.3 J	0.6 Methylene Chloride	--
	April 2001	--	--	--	--	--	--	--	--	--	--
Screen 5	Aug/Sep 1996	--	--	--	--	--	--	--	--	2.4(B) Acetone	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	1.1 Acetone	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	44 Carbon Disulfide ⁽³⁾	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	0.7 ⁽⁴⁾	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
MW-12	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Screen 1	Aug/Sep 1996	--	--	--	--	--	--	--	4.1	--	(1)
	Oct/Nov 1996	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
	Feb/Mar 1997	--	--	--	--	--	--	--	5.8	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	0.5	--	--
	Sep/Oct 1997	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
	Jan/Feb 1998	--	--	--	--	--	--	--	0.8	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	--	--	--	--	--	--	--	--	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--

TABLE 3-4
SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED
DURING THE JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY

(concentrations in µg/L)

Values above State or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	--	--	--	--	--	--	--	--	--	--
Screen 2	Aug/Sep 1996	0.9	--	--	--	--	--	--	--	--	(1)
	Oct/Nov 1996	1.5	0.6	--	--	--	--	0.5	--	--	(1)
	Feb/Mar 1997	1.1	0.5	--	--	--	--	--	--	1.1(B) Acetone	(1)
	Jun/Jul 1997	1.0	--	--	--	--	--	--	0.8	--	6.9
	Sep/Oct 1997	0.8	--	--	--	--	--	--	0.8	--	5.8
	Jan/Feb 1998	1.1	--	--	--	--	--	--	0.6	--	6.3
	Apr/May 1998	1.2	--	--	--	--	--	--	0.9	--	6.0
	Jul/Aug 1998	1.4	--	--	--	--	--	--	0.9	--	5.1
	Oct/Nov 1998	1.3	--	--	--	--	--	--	1.0	--	4.2
	Feb/Mar 1999	1.3	--	--	--	--	--	--	0.9	--	4.1
	May/Jun 1999	0.8	--	--	--	--	--	--	0.6(EB)	0.8 Dichloromethane(EB)	5.0
	Aug 1999	0.5	--	--	--	--	--	--	--	--	--
	Nov/Dec 1999	0.5	--	--	--	--	--	--	--	0.5 Unknown (RT=4.79)	--
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
Screen 3	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	0.3 J	--	--	--	--	--	--	--	--	--
	Aug/Sep 1996	4.5	--	--	--	--	--	--	1.3	--	(1)
	Oct/Nov 1996	3.8	--	--	--	--	--	--	1.3	1.6 Acetone	(1)
	Feb/Mar 1997	6.4	--	--	--	--	--	--	1.4	1.3(B) Acetone	(1)
	Jun/Jul 1997	20	--	--	--	--	--	--	1.6	--	5.7
	Sep/Oct 1997	14	--	--	--	--	--	--	1.7	--	6.2
	Jan/Feb 1998	23 E	--	--	--	--	--	--	2.3	--	5.9
	Apr/May 1998	25	--	--	--	--	--	--	2.0	--	6.9
	Jul/Aug 1998	35	--	--	--	--	--	--	2.2	--	6.6
	Oct/Nov 1998	27	--	--	--	--	--	--	2.2	--	6.9
	Feb/Mar 1999	23	--	--	--	--	--	--	--	--	--
	May/Jun 1999	19	--	--	--	--	--	--	2.0(EB)	--	8.7
	Aug 1999	19	--	--	--	--	--	--	2.3	--	--
	Nov/Dec 1999	23	--	--	--	--	--	--	2.4(EB)	0.5 Unknown	8.5
Screen 4	Mar/Apr 2000	17	--	--	--	--	--	--	1.9(EB)	--	8.2
	Jul/Aug 2000	16	--	--	--	--	--	--	1.9(EB)	--	6.9
	Jan/Feb 2001	2.0 J	--	--	--	--	--	--	--	--	--
	April 2001	10.2	--	--	--	--	--	--	2.1	--	4.0
	Aug/Sep 1996	6.3	--	--	--	--	--	--	1.4	--	(1)

TABLE 3-4
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JET PROPULSION LABORATORY

(concentrations in µg/L)

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Oct/Nov 1996	5.1	--	--	--	--	--	--	1.4	2.5 Acetone	(1)
	Feb/Mar 1997	4.9	--	--	--	--	--	--	1.3	--	(1)
	Jun/Jul 1997	4.9	--	--	--	--	--	--	1.3	--	7.3
	Sep/Oct 1997	3.8	--	--	--	--	--	--	1.0	--	7.6
	Jan/Feb 1998	4.0	--	--	--	--	--	--	1.1	--	8.0
	Apr/May 1998	4.3	--	--	--	--	--	--	1.2	--	8.0
	Jul/Aug 1998	5.1	--	--	--	--	--	--	1.2	--	6.0
	Oct/Nov 1998	4.1	--	--	--	--	--	--	1.2	--	7.7
	Feb/Mar 1999	4.5	--	--	--	--	--	--	1.2	--	7.0
	May/Jun 1999	4.0	--	--	--	--	--	--	1.0(EB) ⁽³⁾	--	9.1
	Aug 1999	3.7	--	--	--	--	--	--	1.1	--	9.2
	Nov/Dec 1999	3.9	--	--	--	--	--	--	1.3(EB)	0.5 Unknown (RT=4.8)	8.5
	Mar/Apr 2000	5.3	0.5	--	--	--	--	--	1.3(EB)	--	8.7
	Jul/Aug 2000	4.1	--	--	--	--	--	--	1.2(EB)	--	8.1
	Jan/Feb 2001	3.0	--	--	--	--	--	--	--	--	6.0
	April 2001	4.2	0.6	--	--	--	--	--	1.5	--	6.0
Screen 5	Aug/Sep 1996	3.4	--	--	--	--	--	--	0.7	--	(1)
	Oct/Nov 1996	1.3	--	--	--	--	--	--	--	1.5 Acetone	(1)
	Feb/Mar 1997	1.7	--	--	--	--	--	--	0.5	--	(1)
	Jun/Jul 1997	1.9	--	--	--	--	--	--	0.5	--	4.1
	Sep/Oct 1997	1.3	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	1.3	--	--	--	--	--	--	--	--	--
	Apr/May 1998	1.7	--	--	--	--	--	--	0.6	--	--
	Jul/Aug 1998	2.1	--	--	--	--	--	--	0.6	--	--
	Oct/Nov 1998	2.0	--	--	--	--	--	--	0.6	--	--
	Feb/Mar 1999	1.3	--	--	--	--	--	--	0.7	--	--
	May/Jun 1999	1.6	--	--	--	--	--	--	0.5(EB)	--	--
	Aug 1999	1.9	--	--	--	--	--	--	0.6	--	--
	Nov/Dec 1999	1.4	--	--	--	--	--	--	0.5(EB)	--	--
	Mar/Apr 2000	2.0	--	--	--	--	--	--	0.6(EB)	--	4.7
	Jul/Aug 2000	1.4	--	--	--	--	--	--	0.5(EB)	--	4.0
	Jan/Feb 2001	1.0 ⁽⁵⁾	--	--	--	--	--	--	--	--	--
	April 2001	2.0	0.9	--	--	--	--	--	0.8	--	--
MW-13	Aug/Sep 1996	21	47	0.6	--	2.5	1.5	0.7	21(TB)	--	(1)
	Oct/Nov 1996	27	27	--	--	1.9	1.5	0.6	14	--	(1)
	Feb/Mar 1997	18	28	--	--	0.9	1.1	0.6	9.2	--	(1)
	Jun/Jul 1997	6.4	24 E	--	--	0.9	0.5	--	11	--	130

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Sep/Oct 1997	8.2	19	--	--	1.1	0.5	--	10	--	210
	Jan/Feb 1998	12	5.2	0.5	--	--	0.5 ⁽⁵⁾	--	2.9	1.8 Freon 11	99
	Apr/May 1998	13	17	0.6	--	--	0.9	0.6	5.7	--	100
	Jul/Aug 1998	15	29	0.6	--	--	1.2	0.7	7.7	1.0 Dichloromethane ⁽⁴⁾ 0.5 1,1,1-Trichloroethane	59
	Oct/Nov 1998	9.0	20	--	--	--	1.1	0.5	9.3	--	86
	Feb/Mar 1999	9.4	28	--	--	0.7	0.7	11	--	--	98
	May/Jun 1999	9.8	40	0.6	--	0.5	0.8	1.0	9.4	--	120
	Aug 1999	11	29	--	--	0.7	0.9	--	12	--	150
	Nov/Dec 1999	10.7	20	--	--	0.5	0.7	--	9.2	--	590
	Mar/Apr 2000	8.9	11	0.7	0.7	--	0.6	--	5.2	--	330
	Jul/Aug 2000	8.8	20	--	--	0.6	0.7	--	8.8	--	420
	Jan/Feb 2001	7.2	5.4	0.6	1.0	--	0.5 J	--	3.4	1.94 1,4-Dioxane	--
	April 2001	3.6	18.0	--	--	--	--	--	--	0.5 Bromodichloromethane	170
MW-14											
Screen 1	Aug/Sep 1996	--	--	--	2.4	--	--	--	0.6	--	(1)
	Oct/Nov 1996	--	--	--	2.9	--	--	--	--	--	(1)
	Feb/Mar 1997	--	--	0.7	1.5	--	--	--	0.7	--	(1)
	Jun/Jul 1997	--	--	--	2.0	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	1.9	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	2.1	--	--	--	0.5	--	--
	Apr/May 1998	--	--	1.2	0.8	--	--	--	0.8	--	4.4
	Jul/Aug 1998	--	--	0.8	1.7	--	--	--	0.6	--	4.4
	Oct/Nov 1998	--	--	0.5	2.4	--	--	--	0.6	--	4.2
	Feb/Mar 1999	--	--	0.8	1.2	--	--	0.6 ⁽⁴⁾	0.6	--	4.2
	May/Jun 1999	--	--	0.5	2.6	--	--	--	--	--	--
	Aug 1999	--	--	--	1.7	--	--	--	--	--	--
	Nov/Dec 1999	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)
	Mar/Apr 2000	--	--	0.8	0.8	--	--	--	0.5(EB)	--	5.3
	Jul/Aug 2000	--	--	--	1.0	--	--	--	--	--	4.2

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
Screen 2	Jan/Feb 2001	--	--	1.4	1.1	--	--	--	0.6	--	--
	April 2001	--	--	0.7	0.7	--	--	--	0.4 J	--	--
	Aug/Sep 1996	--	2.8	1.6	1.4	--	--	--	1.5	--	(1)
	Oct/Nov 1996	--	1.5	1.6	1.0	--	--	--	0.9	0.6 1,2,3-Trichlorobenzene 1.1 Acetone	(1)
	Feb/Mar 1997	--	0.9	1.9	1.3	--	--	--	0.8	0.8 1,2,3-Trichlorobenzene 1.1 Acetone	(1)
	Jun/Jul 1997	--	1.1	1.7	1.5	--	--	--	0.9	0.5 1,2,3-Trichlorobenzene	--
	Sep/Oct 1997	--	1.2	1.9	1.6	--	--	--	0.8	--	--
	Jan/Feb 1998	--	--	1.2	0.7	--	--	--	--	8.9 Carbon Disulfide ⁽³⁾	9.0
	Apr/May 1998	--	--	1.2	0.7	--	--	--	0.6	--	4.0
	Jul/Aug 1998	--	0.9	1.8	0.8	--	--	--	0.6	--	4.9
	Oct/Nov 1998	--	0.6	1.5	0.7	--	--	--	0.5	--	4.2
	Feb/Mar 1999	--	0.9	1.6	0.7	--	--	0.6 ⁽⁴⁾	0.6	--	4.2
	May/Jun 1999	--	1.0	1.2	0.8	--	--	--	0.6(EB)	--	9.6
	Aug 1999	--	--	1.0	--	--	--	--	--	--	--
	Nov/Dec 1999	--	1.0	0.8	--	--	--	--	--	--	5.2
	Mar/Apr 2000	--	2.5	0.7	--	--	--	--	0.6(EB)	--	6.0
	Jul/Aug 2000	--	1.7	0.8	--	--	--	--	0.5(EB)	--	4.9
	Jan/Feb 2001	--	2.5	0.7	0.5 J	--	--	--	0.7	--	--
	April 2001	--	4.2	0.9	0.7	--	--	--	0.5	--	--
Screen 3	Aug/Sep 1996	--	--	--	--	--	--	--	--	--	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	--	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	4.3
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	5.6
	Apr/May 1998	--	--	--	--	--	--	--	--	--	5.8
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	5.9
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	6.7
	Feb/Mar 1999	--	--	0.5	--	--	--	0.6 ⁽⁴⁾	0.5	--	5.9
	May/Jun 1999	--	--	--	--	--	--	--	--	--	7.0
	Aug 1999	--	--	--	--	--	--	--	--	--	6.6
	Nov/Dec 1999	--	0.5	--	--	--	--	--	0.5(EB)	--	6.8
	Mar/Apr 2000	--	0.8	0.5	--	--	--	--	0.6(EB)	--	7.9
	Jul/Aug 2000	--	0.7	--	--	--	--	--	0.5(EB)	--	7.5

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jan/Feb 2001	--	4.0	--	--	--	--	--	--	--	6.0
	April 2001	--	0.7	0.3 J	--	--	--	--	0.4 J	--	--
Screen 4	Aug/Sep 1996	--	--	--	--	--	--	--	--	--	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	--	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	0.6 ⁽⁴⁾	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	9.9
	Aug 1999	--	--	--	--	--	--	--	--	--	4.0
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	4.1
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	4.2
Screen 5	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	--	--	--	--	--	--	--	--	--	--
	Aug/Sep 1996	--	--	--	--	--	--	--	--	2.1(B) Acetone	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	1.6(TB) Acetone	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	1.3 Carbon Disulfide	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	4.6 Carbon Disulfide ⁽³⁾	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	--	--	--	--	--	--	--	--	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	--	--	--	--	--	--	--	--	--	--
MW-15	Aug/Sep 1996	--	--	--	--	--	--	--	--	--	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	2.6 Acetone	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
MW-16	Aug/Sep 1996	125	33	1.3	--	2.4	2.2	2.0	40(TB)	--	(1)
	Oct/Nov 1996	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
	Feb/Mar 1997	91	23	1.3	--	1.7	2.6	1.6	29	--	(1)
	Jun/Jul 1997	68	25	1.1	--	2.1	1.7	0.6	43	--	615
	Sep/Oct 1997	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
	Jan/Feb 1998	30	3.5	1.0	--	--	1.3	--	14	--	1230
	Apr/May 1998	42	12	0.8	--	1.4	1.6	1.2	20	5.0 1,4-Dioxane	640
	Jul/Aug 1998	58	19	1.3	--	0.8	2.7	1.2	23	0.6 Dichloromethane ⁽⁴⁾	420
										1.0 1,1,1-Trichloroethane	
	Oct/Nov 1998	51	18	1.0	--	1.5	1.6	1.4	29	3.7 1,4-Dioxane	220
										1.1 1,1,1-Trichloroethane	
										13 Carbon Disulfide	
	Feb/Mar 1999	67	20	1.4	--	1.1	1.8	1.1	24	3.7 1,4-Dioxane	790
	May/Jun 1999	58	15	1.0	--	0.8	1.3	1.2	23	3.4 1,4-Dioxane	650
										0.5 Fluorotrichloromethane	
	Aug 1999	70	19	1.8	--	1.1	1.9	1.1	26(EB)	0.6 1,1,1-Trichloroethane	930
	Nov/Dec 1999	80	10	3.0	--	0.7	5.3	0.7	24	--	770
	Mar/Apr 2000	24	4.3	0.9	--	--	4.0	--	17	--	1900

TABLE 3-4
SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED
DURING THE JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY

(concentrations in µg/L)

Values above State or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jul/Aug 2000	33	8.2	1.1	--	0.7	1.3	0.5	16	--	1500
	Jan/Feb 2001	14.1	2.1	0.6	--	--	2.1	--	15.5	5.51 1,4-Dioxane 0.6 J Methyl tertiary butyl ether	1780
	April 2001	21.0	3.6	--	--	--	1.7 ⁽⁵⁾	--	15.3	1.0 Trichlorofluoromethane	1300
MW-17											
Screen 1	Aug/Sep 1996	--	--	--	--	--	--	--	--	4.3(B) Acetone	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	1.4 Acetone	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	2.9	--	--
	Apr/May 1998	--	--	--	--	--	--	--	3.2	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
Screen 2	Jan/Feb 2001	--	--	--	--	--	--	--	--	0.3 J Methyl tertiary butyl ether	--
	April 2001	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Aug/Sep 1996	--	--	--	--	--	--	--	3.8	4.5(B) Acetone	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	6.0	--	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	5.2	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	4.1	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	6.1	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	5.4	--	--
	Apr/May 1998	--	--	--	--	--	--	--	3.2	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	2.4	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	3.7	--	--
	Feb/Mar 1999	--	--	--	--	--	--	1.0 ⁽⁴⁾	3.9	--	--
	May/Jun 1999	--	--	--	--	--	--	--	3.2(EB)	--	--
	Aug 1999	--	--	--	--	--	--	--	2.5	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	1.4(EB)	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	1.9(EB)	--	--

TABLE 3-4
SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED
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JET PROPULSION LABORATORY

(concentrations in µg/L)

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jul/Aug 2000	--	--	--	--	--	--	--	1.1(EB)	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	0.5 J ⁽⁵⁾	0.4 J Methyl tertiary butyl ether ⁽⁵⁾	--
	April 2001	--	--	--	--	--	--	--	0.4 J	--	--
Screen 3	Aug/Sep 1996	2.0	7.9	--	--	--	--	--	7.5	--	(1)
	Oct/Nov 1996	3.3	18	0.8	--	--	--	--	8.7	--	(1)
	Feb/Mar 1997	5.1	23	1.1	--	--	--	--	6.2	--	(1)
	Jun/Jul 1997	1.3	5.9	--	--	--	--	--	8.2	--	12
	Sep/Oct 1997	6.6	22	1.4	--	--	--	--	9.2	--	55
	Jan/Feb 1998	3.3	8.7	--	--	--	--	--	6.8	--	25
	Apr/May 1998	--	0.9	--	--	--	--	--	5.3	--	--
	Jul/Aug 1998	--	1.0	--	--	--	--	--	4.9	--	--
	Oct/Nov 1998	--	1.9	--	--	--	--	--	4.1	--	5.1
	Feb/Mar 1999	--	1.6	--	--	--	--	--	3.8	--	4.2
	May/Jun 1999	--	1.5	--	--	--	--	--	3.5(EB)	--	--
	Aug 1999	0.8	2.9	--	--	--	--	--	4.6	--	6.1
	Nov/Dec 1999	0.7	3.2	--	--	--	--	--	4.4(EB)	--	5.5
	Mar/Apr 2000	--	1.9	--	--	--	--	--	2.6(EB)	--	5.0
	Jul/Aug 2000	--	1.6	--	--	--	--	--	2.8(EB)	--	6.7
	Jan/Feb 2001	0.5	1.1	--	--	--	--	--	1.8	0.5 J Methyl tertiary butyl ether	--
	April 2001	0.4 J	--	--	--	--	--	--	2.3	--	5.0
Screen 4	Aug/Sep 1996	--	9.5	0.5	--	--	--	--	1.1	--	(1)
	Oct/Nov 1996	--	8.9	--	--	--	--	--	1.5	--	(1)
	Feb/Mar 1997	--	5.8	--	--	--	--	--	0.7	--	(1)
	Jun/Jul 1997	--	4.5	--	--	--	--	--	0.6	--	13
	Sep/Oct 1997	--	6.8	0.5	--	--	--	--	1.0	--	16
	Jan/Feb 1998	--	7.3	0.6	--	--	--	--	1.2	--	16
	Apr/May 1998	--	7.6	0.6	--	--	--	--	1.5	--	17
	Jul/Aug 1998	--	8.9	0.6	--	--	--	--	1.9	--	14
	Oct/Nov 1998	--	6.2	0.5	--	--	--	--	1.9	--	12
	Feb/Mar 1999	--	3.8	--	--	--	--	1.0 ⁽⁴⁾	1.8	--	9.8
	May/Jun 1999	--	3.2	--	--	--	--	--	1.4(EB)	--	14
	Aug 1999	--	3.5	--	--	--	--	--	1.5	--	12
	Nov/Dec 1999	--	6.8	--	--	--	--	--	2.0(EB)	--	10
	Mar/Apr 2000	--	9.9	0.6	--	--	--	--	1.8(EB)	--	15
	Jul/Aug 2000	--	6.0	--	--	--	--	--	1.4(EB)	--	13

TABLE 3-4
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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
Screen 5	Jan/Feb 2001	--	4.6	0.3 J	--	--	--	--	0.9	0.4 J Methyl tertiary butyl ether	8.0
	April 2001	--	3.0	--	--	--	--	--	0.8	--	12.0
	Aug/Sep 1996	--	13	0.6	--	--	--	--	1.7	3.4(B) Acetone	(1)
	Oct/Nov 1996	--	16	0.7	--	--	--	--	1.7	--	(1)
	Feb/Mar 1997	--	14	0.7	--	--	--	--	1.3	--	(1)
	Jun/Jul 1997	--	11	0.7	--	--	--	--	1.3	--	12
	Sep/Oct 1997	--	8.6	0.6	--	--	--	--	1.4	--	15
	Jan/Feb 1998	--	7.9	--	--	--	--	--	1.5	--	15
	Apr/May 1998	--	8.8	0.6	--	--	--	--	1.8	--	15
	Jul/Aug 1998	--	8.9	0.6	--	--	--	--	2.0	--	13
	Oct/Nov 1998	--	11	0.8	--	--	--	--	2.7	--	12
	Feb/Mar 1999	--	4.9	--	--	--	--	--	2.1	--	6.4
	May/Jun 1999	--	6.6	0.6	--	--	--	--	2.0(EB)	--	12
	Aug 1999	--	4.0	--	--	--	--	--	1.6	--	11
	Nov/Dec 1999	--	6.7	--	--	--	--	--	2.1(EB)	--	9.1
	Mar/Apr 2000	--	8.8	--	--	--	--	--	1.8(EB)	--	15
	Jul/Aug 2000	--	7.1	0.6	--	--	--	--	1.5(EB)	--	12
	Jan/Feb 2001	0.3 J	7.5	0.5 J	--	--	--	--	1.2	0.6 J Methyl tertiary butyl ether	7
	April 2001	--	5.7	0.4 J	--	--	--	--	1.2	--	19.0
MW-18											
Screen 1	Aug/Sep 1996	--	--	--	--	--	--	--	1.6	--	(1)
	Oct/Nov 1996	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
	Feb/Mar 1997	--	--	--	--	--	--	--	3.0	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	0.8	--	--
	Sep/Oct 1997	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
	Jan/Feb 1998	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
	Apr/May 1998	--	--	--	--	--	--	--	0.7	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	3.4 Unknown Hydrocarbon (RT=7.14)	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jan/Feb 2001	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
	April 2001	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Screen 2	Aug/Sep 1996	--	--	--	--	--	--	--	7.3	--	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	8.2	--	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	1.9	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	4.5	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	2.5	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	3.7	--	--
	Apr/May 1998	--	--	--	--	--	--	--	3.2	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	0.9	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	3.0	0.8 Bromodichloromethane	--
	May/Jun 1999	--	--	--	--	--	--	--	0.8(EB)	--	--
	Aug 1999	--	--	--	--	--	--	--	--	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	2.5(EB)	0.9 Bromodichloromethane	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	1.2	0.4 J Bromodichloromethane	--
	April 2001	--	--	--	--	--	--	--	1.2	--	--
Screen 3	Aug/Sep 1996	0.7	4.7	2.8	--	--	--	--	5.1	--	(1)
	Oct/Nov 1996	0.7	6.4	3.2	--	--	--	--	5.6	--	(1)
	Feb/Mar 1997	0.8	6.6	2.9	--	--	--	--	5.1	--	(1)
	Jun/Jul 1997	0.6	2.4	1.8	--	--	--	--	4.4	--	--
	Sep/Oct 1997	--	3.0	1.9	--	--	--	--	6.2	--	--
	Jan/Feb 1998	--	1.9	1.7	--	--	--	--	6.6	4.1 Unknown (RT=4.33)	--
	Apr/May 1998	0.5	1.8	1.3	--	--	--	--	5.7	--	5.0
	Jul/Aug 1998	--	1.5	0.9	--	--	--	--	4.6	--	5.2
	Oct/Nov 1998	--	1.4	0.8	--	--	--	--	4.2	--	--
	Feb/Mar 1999	--	1.0	0.5	--	--	--	--	3.5	--	--
	May/Jun 1999	--	1.1	--	--	--	--	--	2.5(EB)	0.6 Dichloromethane	--
	Aug 1999	--	1.0	--	--	--	--	--	2.8	--	--
	Nov/Dec 1999	--	0.8	--	--	--	--	--	0.8(EB)	--	--
	Mar/Apr 2000	--	1.1	0.5	--	--	--	--	3.1(EB)	--	--
	Jul/Aug 2000	--	0.6	--	--	--	--	--	2.6(EB)	--	--
	Jan/Feb 2001	--	0.5	0.3 J	--	--	--	--	2.2	--	--
	April 2001	--	0.6	--	--	--	--	--	1.9	--	--
Screen 4	Aug/Sep 1996	2.2	--	0.7	--	--	--	--	0.5	--	(1)

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Oct/Nov 1996	2.2	--	0.7	--	--	--	--	0.5	1.4(TB) Acetone	(1)
	Feb/Mar 1997	2.2	--	1.5	--	--	--	--	0.6	--	(1)
	Jun/Jul 1997	1.9	--	0.7	--	--	--	--	--	--	11
	Sep/Oct 1997	2.4	--	0.7	--	--	--	--	--	1.5 Carbon Disulfide	12
	Jan/Feb 1998	2.6	--	1.0	--	--	--	--	0.5	--	11
	Apr/May 1998	3.1	0.6	1.4	--	--	--	--	0.8	--	13
	Jul/Aug 1998	2.5	0.6	1.2	--	--	--	--	0.6	--	16
	Oct/Nov 1998	3.4	0.8	1.5	--	--	--	--	0.7	--	19
	Feb/Mar 1999	4.7	1.2	2.3	--	--	--	--	1.1	--	24
	May/June 1999	3.6	1.6	2.5	--	--	--	--	1.1(EB)	0.7 Dichloromethane	16
	Aug 1999	3.6	1.1	1.9	--	--	--	--	0.8	--	23
	Nov/Dec 1999	3.8	1.2	2.0	--	--	--	--	0.8(EB)	--	23
	Mar/Apr 2000	3.8	1.2	2.2	--	--	--	--	0.9(EB)	--	24
	Jul/Aug 2000	3.6	1.1	2.0	--	--	--	--	0.9(EB)	--	24
	Jan/Feb 2001	3.5	1.1	1.9	--	--	--	--	0.8	--	15
	April 2001	2.6	1.5	1.9	--	--	--	--	1.0	--	29
Screen 5	Aug/Sep 1996	--	--	--	--	--	--	--	--	--	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	1.6 Acetone	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	1.1 Carbon Disulfide	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	4.6 Hexane	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/June 1999	--	--	--	--	--	--	--	--	0.8 Dichloromethane	--
	Aug 1999	--	--	--	--	--	--	--	--	1.0 Unknown (RT=4.25)	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	0.6 Unknown (RT=4.82)	--
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jan/Feb 2001	--	--	--	--	--	--	--	--	1.4 Chloromethane	--
	April 2001	--	--	--	--	--	--	--	--	--	--
MW-19											
Screen 1	Aug/Sep 1996	--	--	--	--	--	--	--	0.9	3.7(B) Acetone	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	0.6	2.9 Acetone	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	0.8	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	2.5	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	1.4	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	0.8	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	--	--	--	--	--	--	--	--	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	--	--	--	--	--	--	--	--	--	--
Screen 2	Aug/Sep 1996	--	--	0.8	--	--	--	--	--	3.0(B) Acetone	(1)
	Oct/Nov 1996	--	--	1.1	--	--	--	--	--	--	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	0.6	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	0.6	0.9	--	--	--	--	--	--	--
	Apr/May 1998	--	0.9	1.2	--	--	--	--	--	--	--
	Jul/Aug 1998	--	0.6	0.7	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	0.6	--	--	--	--	--	--	--	--
	May/Jun 1999	--	1.3	1.1	--	--	--	--	--	--	4.5
	Aug 1999	--	0.7	--	--	--	--	--	--	--	--
	Nov/Dec 1999	--	0.5	--	--	--	--	--	--	--	--
	Mar/Apr 2000	--	0.6	0.5	--	--	--	--	--	--	--
	Jul/Aug 2000	--	0.6	--	--	--	--	--	--	--	--

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(concentrations in µg/L)

Values above State or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jan/Feb 2001	--	0.6 ⁽⁵⁾	--	--	--	--	--	--	--	--
	April 2001	--	1.2	0.5 J	--	--	--	--	0.4 J	--	--
Screen 3	Aug/Sep 1996	--	--	3.1	--	--	--	--	--	2.6(B) Acetone	(1)
	Oct/Nov 1996	--	--	2.5	--	--	--	--	--	--	(1)
	Feb/Mar 1997	--	--	2.1	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	2.0	--	--	--	--	--	--	4.1
	Sep/Oct 1997	--	--	1.5	--	--	--	--	--	0.6 Toluene	--
	Jan/Feb 1998	--	--	2.1	--	--	--	--	--	--	--
	Apr/May 1998	--	--	2.5	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	2.1	--	--	--	--	--	--	4.4
	Oct/Nov 1998	--	--	2.0	--	--	--	--	--	--	4.2
	Feb/Mar 1999	--	--	1.5	--	--	--	--	--	--	--
	May/Jun 1999	--	0.9	2.7	--	--	--	--	--	--	7.2
	Aug 1999	--	0.6	1.9	--	--	--	--	--	--	4.4
	Nov/Dec 1999	--	0.6	1.9	--	--	--	--	--	--	5.0
	Mar/Apr 2000	--	0.8	2.0	--	--	--	--	--	--	4.8
	Jul/Aug 2000	--	0.7	1.8	--	--	--	--	--	--	5.0
	Jan/Feb 2001	--	0.5	1.4	--	--	--	--	0.4 J	--	--
	April 2001	--	0.5	1.2	--	--	--	--	0.3 J	--	--
Screen 4	Aug/Sep 1996	0.5	1.5	--	--	--	--	--	2.1	--	(1)
	Oct/Nov 1996	--	1.5	--	--	--	--	--	1.9	--	(1)
	Feb/Mar 1997	--	1.1	0.6	--	--	--	--	1.5	--	(1)
	Jun/Jul 1997	--	0.7	--	--	--	--	--	1.3	--	--
	Sep/Oct 1997	--	0.7	0.6	--	--	--	--	1.7	--	4.9
	Jan/Feb 1998	--	0.5	0.6	--	--	--	--	1.3	--	--
	Apr/May 1998	--	0.8	1.0	--	--	--	--	1.6	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	1.4	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	2.2	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	3.0	--	--
	May/Jun 1999	--	0.7	--	--	--	--	--	2.6(EB)	--	--
	Aug 1999	--	0.5	--	--	--	--	--	2.7	--	--
	Nov/Dec 1999	--	0.5	--	--	--	--	--	2.1(EB)	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	2.0(EB)	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	3.2(EB)	--	--

TABLE 3-4
SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED
DURING THE JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY

(concentrations in µg/L)

Values above State or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jan/Feb 2001	--	--	--	--	--	--	--	2.6	--	--
	April 2001	--	--	--	--	--	--	--	2.0	--	--
Screen 5	Aug/Sep 1996	--	--	3.0	--	--	--	--	0.6	1.6(B) Unknown scan #940	(1)
	Oct/Nov 1996	--	--	2.4	--	--	--	--	--	--	(1)
	Feb/Mar 1997	--	--	1.7	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	1.5	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	2.2	--	--	--	--	0.8	--	--
	Jan/Feb 1998	--	--	1.4	--	--	--	--	--	--	--
	Apr/May 1998	--	--	0.9	--	--	--	--	0.6	--	--
	Jul/Aug 1998	--	--	1.5	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	1.5	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	1.3	--	--	--	--	--	--	--
	May/Jun 1999	--	--	2.1	--	--	--	--	--	0.7 Dichloromethane	4.4
	Aug 1999	--	--	1.5	--	--	--	--	--	--	4.2
	Nov/Dec 1999	--	--	1.5	--	--	--	--	--	--	--
	Mar/Apr 2000	--	--	1.4	--	--	--	--	0.6(EB)	--	--
	Jul/Aug 2000	--	0.5	1.7	--	--	--	--	0.5(EB)	--	4.2
	Jan/Feb 2001	--	0.4 J	2.1	--	--	--	--	--	--	--
	April 2001	--	0.4 J	2.5	--	--	--	--	--	--	--
MW-20											
Screen 1	Aug/Sep 1996	--	--	--	--	--	--	--	0.7	3.4(B) Acetone	(1)
	Oct/Nov 1996	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
	Feb/Mar 1997	--	--	--	--	--	--	--	1.4	2.4(EB) Acetone	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	0.8	--	5.7
	Sep/Oct 1997	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
	Jan/Feb 1998	--	--	--	--	--	--	--	1.4	--	6.3
	Apr/May 1998	--	--	--	--	--	--	--	2.5	--	5.5
	Jul/Aug 1998	--	--	--	--	--	--	--	1.8	--	5.9
	Oct/Nov 1998	--	--	--	--	--	--	--	0.8	--	7.8
	Feb/Mar 1999	--	--	--	--	--	--	--	2.2	--	4.9
	May/Jun 1999	--	--	--	--	--	--	--	1.9(EB)	--	4.4
	Aug 1999	--	--	--	--	--	--	--	0.6	--	7.5
	Nov/Dec 1999	--	--	--	--	--	--	--	1.3(EB)	--	7.7
	Mar/Apr 2000	--	--	--	--	--	--	--	1.1(EB)	--	7.6
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	7.5

TABLE 3-4
SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED
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JET PROPULSION LABORATORY

(concentrations in µg/L)

Values above State or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
Screen 2	Jan/Feb 2001	--	--	--	--	--	--	--	1.4	0.3 J Methyl tertiary butyl ether	5.0
	April 2001	--	--	--	--	--	--	--	0.9	--	--
	Aug/Sep 1996	--	--	--	--	--	--	--	7.7	4.0(B) Acetone	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	4.4	--	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	3.2	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	3.3	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	5.7	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	2.7	--	--
	Apr/May 1998	--	--	--	--	--	--	--	2.7	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	4.2	0.5 Dichlorobromomethane	--
	Oct/Nov 1998	--	--	--	--	--	--	--	3.6	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	4.2	--	--
	May/Jun 1999	--	--	--	--	--	--	--	4.6(EB)	0.6 Bromodichloromethane	--
	Aug 1999	--	--	--	--	--	--	--	4.8	0.6 Bromodichloromethane	--
	Nov/Dec 1999	--	--	--	--	--	--	--	3.8(EB)	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	3.8(EB)	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	4.1(EB)	0.6 Bromodichloromethane	--
	Jan/Feb 2001	--	--	--	--	--	--	--	2.8	--	--
	April 2001	--	--	--	--	--	--	--	2.9	--	--
Screen 3	Aug/Sep 1996	--	--	--	--	--	--	--	--	2.7(B) Acetone	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	0.6	2.3 Acetone	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	3.4 Unknown (RT=6.2)	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	--	--	--	--	--	--	--	--	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--

TABLE 3-4
SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED
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JET PROPULSION LABORATORY

(concentrations in µg/L)

Values above State or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
Screen 4	Jan/Feb 2001	--	--	--	--	--	--	--	--	0.4 J Methyl tertiary butyl ether	--
	April 2001	--	--	--	--	--	--	--	--	--	--
	Aug/Sep 1996	--	--	--	--	--	--	--	--	3.8(B) Acetone	(1)
	Oct/Nov 1996	--	--	--	--	--	--	--	--	--	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	20
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	--	--	--	--	--	--	--	--	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	0.8 J Methyl tertiary butyl ether (EB) ⁽⁵⁾	--
	April 2001	--	--	--	--	--	--	--	--	0.6 Styrene ⁽⁵⁾	--
	Aug/Sep 1996	--	--	--	--	--	--	--	--	4.8(B) Acetone	(1)
Screen 5	Oct/Nov 1996	--	--	--	--	--	--	--	--	--	(1)
	Feb/Mar 1997	--	--	--	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	--	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	8.2
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	--	--	--	--	--	--	--	--	0.7 Carbonyl Sulfide	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	0.4 J Styrene	--

TABLE 3-4
SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED
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JET PROPULSION LABORATORY

(concentrations in µg/L)

Values above State or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	April 2001	--	--	--	--	--	--	--	--	--	--
MW-21											
Screen 1	Aug/Sep 1996	--	33	0.7	--	--	--	--	1.8	2.3(B) Acetone	(1)
	Oct/Nov 1996	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
	Feb/Mar 1997	--	29	--	--	--	--	--	2.2	--	(1)
	Jun/Jul 1997	--	20	--	--	--	--	--	1.6	--	19
	Sep/Oct 1997	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
	Jan/Feb 1998	--	16	--	--	--	--	--	1.8	--	14
	Apr/May 1998	--	16	--	--	--	--	--	1.8	--	14
	Jul/Aug 1998	--	16	0.6	--	--	--	--	1.8	--	13
	Oct/Nov 1998	--	10	--	--	--	--	--	1.6	--	13
	Feb/Mar 1999	--	20	0.5	--	--	--	--	1.8	--	14
	May/June 1999	--	20	0.5	--	--	--	--	1.6(EB)	--	15
	Aug 1999	--	17	0.5	--	--	--	--	1.7	--	12
	Nov/Dec 1999	--	15	0.7	--	--	--	--	2.2(EB)	--	16
	Mar/Apr 2000	--	17	0.7	--	--	--	--	1.8(EB)	--	12
	Jul/Aug 2000	--	12	0.5	--	--	--	--	1.7(EB)	--	16
	Jan/Feb 2001	--	9.8	0.5	--	--	--	--	1.6	--	11
	April 2001	--	3.3	0.6	0.7	--	--	--	1.2	--	--
Screen 2	Aug/Sep 1996	--	--	0.9	--	--	--	--	0.5	--	(1)
	Oct/Nov 1996	--	0.6	2.3	--	--	--	--	0.6	1.4(TB) Acetone	(1)
	Feb/Mar 1997	--	--	1.1	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	0.7	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	1.1	--	--	--	--	--	--	--
	Apr/May 1998	--	--	1.0	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	0.7	--	--	--	--	0.7	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	0.7	--	--
	Feb/Mar 1999	--	--	0.8	--	--	--	--	--	--	--
	May/June 1999	--	--	0.6	--	--	--	--	--	--	--
	Aug 1999	--	--	0.8	--	--	--	--	--	--	--
	Nov/Dec 1999	--	--	1.2	--	--	--	--	--	--	4.6
	Mar/Apr 2000	--	--	0.9	--	--	--	--	--	1.8 Carbonyl Sulfide	4.1
	Jul/Aug 2000	--	--	0.9	--	--	--	--	--	--	--

TABLE 3-4
SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED
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(concentrations in µg/L)

Values above State or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
Screen 3	Jan/Feb 2001	--	0.3 J	1.2	--	--	--	--	0.4 J	--	--
	April 2001	--	0.3 J	0.9	--	--	--	--	--	--	--
	Aug/Sep 1996	--	0.7	1.5	--	--	--	--	0.5	--	(1)
	Oct/Nov 1996	--	0.9	1.6	--	--	--	--	--	1.2 Acetone	(1)
	Feb/Mar 1997	--	0.8	1.6	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	1.2	--	--	--	--	--	--	--
	Sep/Oct 1997	--	0.6	1.3	--	--	--	--	--	--	--
	Jan/Feb 1998	--	0.5	1.4	--	--	--	--	--	--	--
	Apr/May 1998	--	--	1.1	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	0.9	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	0.8	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	1.0	--	--	--	--	--	--	4.1
	May/Jun 1999	--	0.6	1.4	--	--	--	--	--	--	--
	Aug 1999	--	0.6	1.3	--	--	--	--	--	--	--
	Nov/Dec 1999	--	0.9	2.2	--	--	--	--	0.6(EB)	4.9 Carbonyl Sulfide	4.8
	Mar/Apr 2000	--	0.9	2.3	--	--	--	--	0.6(EB)	--	--
	Jul/Aug 2000	--	0.6	1.5	--	--	--	--	0.7(EB)	--	--
	Jan/Feb 2001	--	0.9	2.5	--	--	0.5 J	--	1.1	0.3 J cis-1,2-Dichloroethene 0.6 Bromodichloromethane 0.4 J Chlorodibromomethane 0.3 J 1,2-Dichloroethene (Total)	--
	April 2001	--	1.8	1.4	--	--	--	--	0.8	--	--
Screen 4	Aug/Sep 1996	--	0.8	4.2	--	--	--	--	--	--	(1)
	Oct/Nov 1996	--	--	2.5	--	--	--	--	--	1.6 Acetone	(1)
	Feb/Mar 1997	--	--	1.8	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	2.8	--	--	--	--	--	--	4.6
	Sep/Oct 1997	--	0.6	4.4	--	--	--	--	--	--	7.7
	Jan/Feb 1998	--	--	2.4	--	--	--	--	--	--	--
	Apr/May 1998	--	0.6	4.4	--	--	--	--	--	0.7 cis-1,2-Dichloroethene	--
	Jul/Aug 1998	--	0.8	4.3	--	--	--	--	--	0.8 cis-1,2-Dichloroethene	4.3
	Oct/Nov 1998	--	1.1	8.3	--	--	--	--	0.6	1.3 cis-1,2-Dichloroethene	--
	Feb/Mar 1999	--	--	3.8	--	--	--	--	--	0.7 cis-1,2-Dichloroethene	--
	May/Jun 1999	--	--	3.2	--	--	--	--	--	0.6 cis-1,2-Dichloroethene	4.8
	Aug 1999	--	0.7	6.1	--	--	--	--	0.6	1.2 cis-1,2-Dichloroethene	--
	Nov/Dec 1999	--	0.6	6.0	--	--	--	--	--	5.1 Carbonyl Sulfide	--
	Mar/Apr 2000	--	--	4.0	--	--	--	--	--	1.1 cis-1,2-Dichloroethene	--
	Jul/Aug 2000	--	0.5	6.2	--	--	--	--	0.7(EB)	0.9 cis-1,2-Dichloroethene 1.3 cis-1,2-Dichloroethene	--

TABLE 3-4
SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED
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(concentrations in µg/L)
 Values above State or Federal MCLs, or above/equal to action levels, are bold and shaded

Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jan/Feb 2001	--	1.2	4.3	--	--	--	--	0.7	1.0 cis-1,2-Dichloroethene 0.4 J Bromodichloromethane 1.0 J 1,2-Dichloroethene (Total)	--
	April 2001	--	--	3.8	--	--	--	--	1.0	0.7 cis-1,2-Dichloroethene 0.7 1,2-Dichloroethene (total)	--
Screen 5	Aug/Sep 1996	--	--	4.5	--	--	--	--	0.6	--	(1)
	Oct/Nov 1996	--	--	3.1	--	--	--	--	--	--	(1)
	Feb/Mar 1997	--	--	3.0	--	--	--	--	--	--	(1)
	Jun/Jul 1997	--	--	3.0	--	--	--	--	--	--	--
	Sep/Oct 1997	--	--	2.9	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	4.1	--	--	--	--	--	0.6 cis-1,2-Dichloroethene 5.0 Carbon Disulfide ⁽³⁾	5.2
	Apr/May 1998	--	--	6.5	--	--	--	--	--	1.0 cis-1,2-Dichloroethene	5.8
	Jul/Aug 1998	--	--	7.6	--	--	--	--	0.6	1.5 cis-1,2-Dichloroethene	--
	Oct/Nov 1998	--	--	6.7	--	--	--	--	0.6	1.4 cis-1,2-Dichloroethene	4.0
	Feb/Mar 1999	--	0.5	7.7	--	--	--	--	0.7	1.4 cis-1,2-Dichloroethene	4.2
	May/Jun 1999	--	--	8.2	--	--	--	--	0.7(EB) ⁽³⁾	1.5 cis-1,2-Dichloroethene	--
	Aug 1999	--	0.6	9.6	--	--	--	--	0.8	1.6 cis-1,2-Dichloroethene 1.4 Chlorodifluoromethane	--
	Nov/Dec 1999	--	0.7	11.4	--	--	--	--	1.0(EB)	2.2 cis-1,2-Dichloroethene	4.9
	Mar/Apr 2000	--	0.7	12	--	--	--	--	1.2(EB)	2.5 cis-1,2-Dichloroethene 0.6 Bromodichloromethane	4.2
	Jul/Aug 2000	--	0.6	11	--	--	--	--	1.2(EB)	2.2 cis-1,2-Dichloroethene 0.6 Bromodichloromethane 2.6 cis-1,2-Dichloroethene	--
	Jan/Feb 2001	--	0.7	15.1	--	--	--	--	1.7	0.6 Bromodichloromethane 2.6 1,2-Dichloroethene (Total)	--
	April 2001	--	0.7	12.4	--	--	--	--	1.4	0.4 J Methyl tertiary butyl ether 2.3 cis-1,2-Dichloroethene 2.3 1,2-Dichloroethene (total)	--
MW-22⁽⁸⁾											
Screen 1	Sep/Oct 1997	--	--	2.0	0.7	--	--	--	--	--	--
	Jan/Feb 1998	--	--	2.3	0.8	--	--	0.5	--	--	--
	Apr/May 1998	--	0.9	2.1	0.8	--	--	--	0.5	--	5.4
	Jul/Aug 1998	--	0.9	1.7	0.6	--	--	--	--	--	6.4
	Oct/Nov 1998	--	--	1.7	0.7	--	--	--	--	--	5.0
	Feb/Mar 1999	--	0.6	3.6	1.0	--	--	1.3 ⁽⁴⁾	0.5	--	6.4

TABLE 3-4
SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED
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(concentrations in µg/L)

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	May/Jun 1999	--	--	2.7	1.0	--	--	--	--	--	4.9
	Aug 1999	--	--	2.1	0.7	--	--	--	--	--	--
	Nov/Dec 1999	--	--	3.6	0.9	--	--	--	0.5(EB)	--	4.2
	Mar/Apr 2000	--	--	3.1	0.7	--	--	--	--	--	4.3
	Jul/Aug 2000	--	--	3.2	0.6	--	--	--	--	--	4.4
	Jan/Feb 2001	--	--	2.0	0.7	--	--	--	0.4 J	--	--
	April 2001	--	--	4.0	0.5	--	--	--	0.4 J	--	--
Screen 2	Sep/Oct 1997	--	--	--	--	--	--	--	--	0.8 Dichloromethane	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	4.9
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	0.6	--	--	--	--	1.4 ⁽⁴⁾	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	--	--	--	--	--	--	--	--	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	--	--	--	--	--	--	--	--	--	--
Screen 3	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	15
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	1.3 ⁽⁴⁾	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	--	--	--	--	--	--	--	--	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	--	--	--	--	--	--	--	--	--	--
Screen 4	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--

TABLE 3-4
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(concentrations in µg/L)

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
Screen 5	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	1.3 ⁽⁴⁾	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	0.7 Methylene Chloride ⁽⁵⁾	--
	April 2001	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	--
	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	1.3 ⁽⁴⁾	--	--	--
MW-23 ⁽⁸⁾	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	0.4 J Methylene Chloride	--
	April 2001	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Sep/Oct 1997	--	3.1	0.6	0.8	--	--	--	--	--	4.4
	Jan/Feb 1998	--	4.2	1.6	1.2	--	--	--	0.9	0.6 1,2,3-Trichlorobenzene	5.2
	Apr/May 1998	0.5	16	0.8	1.2	--	--	--	1.9	--	16
	Jul/Aug 1998	0.5	9.2	--	--	--	--	--	1.0	2.2 Dichloromethane ⁽³⁾	19
	Oct/Nov 1998	0.8	15	--	--	--	--	--	1.9	--	21
	Feb/Mar 1999	0.6	15	1.1	1.4	--	--	--	1.9	0.06 1,2,3-Trichlorobenzene	8.4
	May/Jun 1999	--	7.0	1.1	--	--	--	0.6	1.0(EB)	0.7 1,2,3-Trichlorobenzene	7.6
	Aug 1999	--	3.5	1.1	1.0	--	--	--	0.7(EB)	--	--
	Nov/Dec 1999	--	1.2	1.3	1.0	--	--	--	0.5(EB)	1.1 1,2,3-Trichlorobenzene	4.1
	Mar/Apr 2000	--	1.5	2.3	1.3	--	--	--	0.7(EB)	1.2 1,2,3-Trichlorobenzene	4.3
	Jul/Aug 2000	--	1.4	0.9	--	--	0.6	--	0.5(EB)	--	4.9
	Jan/Feb 2001	--	0.9	1.6	0.9	--	--	--	0.5	--	--

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	April 2001	--	0.7	--	0.5	--	--	--	0.5 J	--	--
Screen 2	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	7.6
	Jan/Feb 1998	--	--	--	--	--	--	--	0.7	--	6.7
	Apr/May 1998	--	--	--	--	--	--	--	--	--	7.5
	Jul/Aug 1998	--	1.1	1.0	0.8	--	--	--	0.7	1.8 Dichloromethane ⁽⁴⁾	7.8
	Oct/Nov 1998	--	0.6	0.7	0.6	--	--	--	0.6	--	16
	Feb/Mar 1999	--	--	--	--	--	--	--	0.5	--	7.7
	May/Jun 1999	--	--	--	0.5	--	--	--	0.6(EB)	--	7.8
	Aug 1999	--	--	--	--	--	--	--	0.5(EB)	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	7.5
	Mar/Apr 2000	--	--	0.6	--	--	--	--	0.6(EB)	--	7.2
	Jul/Aug 2000	--	--	0.7	--	--	--	--	0.7(EB)	--	6.6
	Jan/Feb 2001	--	0.4 J	0.4 J	--	--	--	--	0.4 J	--	--
	April 2001	--	0.4 J	--	--	--	--	--	0.5	--	--
Screen 3	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	1.7 Dichloromethane ⁽⁴⁾	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	--	--	--	--	--	--	--	--	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	--	--	--	--	--	--	--	--	--	--
Screen 4	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	2.3 Dichloromethane ⁽⁴⁾	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	--

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	--
Screen 5	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	1.7 Dichloromethane ⁽⁴⁾ 3.0 Unknown (RT=3.93) 3.1 2-Methyl-1-propene	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	17
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	0.4 J Styrene	--
	April 2001	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	--
MW-24⁽⁸⁾											
Screen 1	Sep/Oct 1997	5.0	5.0	--	--	--	--	0.6	3.1	--	92
	Jan/Feb 1998	30 E	15	0.5	--	0.8	--	0.6	15	--	330
	Apr/May 1998	6.7	5.4	--	--	--	--	--	3.3	--	74
	Jul/Aug 1998	--	1.7	--	--	--	--	--	0.9	--	20
	Oct/Nov 1998	1.0	1.3	--	--	--	--	--	0.8	--	16
	Feb/Mar 1999	1.0	1.5	--	--	--	--	--	0.8	--	14
	May/Jun 1999	1.0	1.6	--	--	--	--	--	0.6(EB)	--	14
	Aug 1999	1.8	3.6	--	--	--	--	--	1.3	--	22
	Nov/Dec 1999	6.3	5.3	--	--	--	--	--	2.5(EB)	--	91
	Mar/Apr 2000	15	8.6	0.6	--	--	--	0.6	5.1(EB)	--	270
	Jul/Aug 2000	18	7.7	0.9	--	--	--	--	4.5(EB)	--	440
	Jan/Feb 2001	12.1	5.5	0.6	--	0.4 J	0.4 J	1.5	7.5	3.62 1,4-Dioxane	1100
	April 2001	12.6	6.5	--	--	0.4 J	--	--	6.0	--	430
Screen 2	Sep/Oct 1997	13	1.3	--	--	--	--	--	3.8	--	200
	Jan/Feb 1998	6.9	0.7	--	--	--	--	--	2.4	--	110
	Apr/May 1998	29	3.3	0.9	--	--	1.4	--	9.4	--	480
	Jul/Aug 1998	58	4.0	1.5	--	--	2.0	--	8.4	--	500
	Oct/Nov 1998	19	2.3	0.8	--	--	0.8	--	5.9	--	490

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Feb/Mar 1999	30 E	3.0	1.0	--	--	1.5	--	6.6	--	580
	May/Jun 1999	33	4.3	1.3	--	--	1.8	--	7.7(EB)	--	690
	Aug 1999	35	3.6	0.9	--	--	1.4	--	7.5	--	700
	Nov/Dec 1999	25	3.7	0.9	--	--	1.4	--	7.4(EB)	--	570
	Mar/Apr 2000	28	4.3	1.1	--	--	1.9	--	8.0(EB)	--	570
	Jul/Aug 2000	23 E	3.3	0.8	--	--	1.2	--	7.7(EB)	--	530
	Jan/Feb 2001	0.5 J	--	0.5 J	--	--	--	--	--	--	42
	April 2001	10.6	2.0	--	--	0.4 J	0.6	--	6.2	--	430
Screen 3	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	--	--	--	--	--	--	--	--	--	--
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	--	--	--	--	--	--	--	--	--	--
Screen 4	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	--	--	--	--	--	--	--	--	--	(2)
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--

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Sampling Location	Sampling Event	Carbon Tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Other Volatile Organic Compounds (including 1,4-Dioxane)	Perchlorate
	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Screen 5	Sep/Oct 1997	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 1998	--	--	--	--	--	--	--	--	--	--
	Apr/May 1998	--	--	--	--	--	--	--	--	--	--
	Jul/Aug 1998	--	--	--	--	--	--	--	--	--	--
	Oct/Nov 1998	--	--	--	--	--	--	--	--	--	--
	Feb/Mar 1999	--	--	--	--	--	--	--	--	--	--
	May/Jun 1999	--	--	--	--	--	--	--	--	--	--
	Aug 1999	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	--	--	--	--	--	--	--	--	--	--
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	--	--	--	--	--	--
	Jan/Feb 2001	--	--	--	--	--	--	--	--	--	--
	April 2001	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Practical Quantitation Limit		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	4.0
California Maximum Contaminant Level		0.5	5.0	5.0	5.0	0.5	6.0	1,200	100	150 Freon 11 ⁽⁹⁾ 6.0 cis-1,2-Dichloroethene ⁽⁹⁾ 200 1,1,1-Trichloroethane ⁽⁹⁾	18 ⁽¹⁰⁾
EPA Region IX Maximum Contaminant Level		5.0	5.0	5.0	NE	5.0	7.0	NE	100	5.0 Dichloromethane ⁽⁹⁾ 70 cis-1,2-Dichloroethene ⁽⁹⁾ 100 Bromodichloromethane ⁽⁹⁾ 200 1,1,1-Trichloroethane ⁽⁹⁾	NE

--: Not detected.

B: Compound detected in laboratory method blank.

EB: Compound detected in associated equipment blank.

RT: Retention time.

TB: Compound detected in associated trip blank.

FB: Compound detected in associated field blank.

E: Estimated concentration; result exceeded calibration range.

NE: Not established.

1: Perchlorate not part of monitoring program.

2: Monitoring point not sampled for the particular constituent due to changes in the sampling program as agreed to by the EPA, DTSC, and RWQCB.

3: Suspected by the laboratory to have resulted from carry over in analysis (see January/February 1998 report).

4: Attributed to laboratory contamination.

5: Results from duplicate analysis; reported as being higher than the regular sample.

6: Not sampled, no water over screen.

7: Not sampled due to mechanical failure.

8: Wells installed June-August 1997.

9: Only VOCs for which MCLs have been established are listed.

10: California Department of Health Services Interim Action Level.

TABLE 3-5

**RESULTS OF METALS ANALYSIS OF GROUNDWATER
SAMPLES COLLECTED FROM JPL MONITORING WELLS,
APRIL 2001**

(concentrations in mg/L)

Values equal to or above state MCLs, (or other applicable regulatory limits), are bold and shaded

Sample Location	Sample Number	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
MW-1	NA	NA	NA	NA	NA	NA
MW-3						
Screen 1	NA	NA	NA	NA	NA	NA
Screen 2	MW-3-2	NA	NA	--	--	26
Screen 3	MW-3-3	NA	NA	--	--	32
Screen 4	MW-3-4	NA	NA	--	--	32
Screen 5	MW-3-5	NA	NA	NA	NA	24
MW-4						
Screen 1	MW-4-1	NA	NA	--	--	31
Screen 2	MW-4-2	NA	NA	0.019	--	32
Screen 3	MW-4-3	NA	NA	--	--	22
Screen 4	MW-4-4	NA	NA	--	--	28
Screen 5	MW-4-5	NA	NA	0.011	--	45
MW-5	MW-5	NA	NA	--	--	4
MW-6	MW-6	NA	NA	0.010	--	12
MW-6 (DUP)	MW-6-D	NA	NA	0.010	--	12
MW-7	NOT SAMPLED – PILOT TEST					
MW-8	MW-8	NA	NA	--	--	29
MW-9	NA	NA	NA	NA	NA	NA
MW-10	MW-10	NA	NA	0.013	--	2
MW-10 (DUP)	MW-10-D	NA	NA	0.011	--	2
MW-11						
Screen 1	MW-11-1	NA	NA	--	--	104
Screen 2	MW-11-2	NA	NA	--	--	48
Screen 3	MW-11-3	NA	NA	--	--	24
Screen 4	MW-11-4	NA	NA	NA	NA	29
Screen 5	NA	NA	NA	NA	NA	NA
MW-12						
Screen 1	MW-12-1	NA	NA	0.0081	--	39
Screen 2	MW-12-2	NA	NA	0.0062	--	25
Screen 3	MW-12-3	NA	NA	--	--	2
Screen 4	MW-12-4	NA	NA	NA	NA	30
Screen 5	MW-12-5	NA	NA	NA	NA	30
MW-13	MW-13	NA	NA	0.019	--	2
MW-14						
Screen 1	MW-14-1	NA	NA	--	--	32
Screen 1 (DUP)	MW-14-1D	NA	NA	--	--	32
Screen 2	MW-14-2	NA	NA	--	--	32
Screen 3	MW-14-3	NA	NA	--	--	13

TABLE 3-5

**RESULTS OF METALS ANALYSIS OF GROUNDWATER
SAMPLES COLLECTED FROM JPL MONITORING WELLS,
APRIL 2001**

(concentrations in mg/L)

Values equal to or above state MCLs, (or other applicable regulatory limits), are bold and shaded

Sample Location	Sample Number	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
Screen 4	MW-14-4	NA	NA	0.0051	--	33
Screen 5	MW-14-5	NA	NA	NA	NA	31
MW-15	NA	NA	NA	NA	NA	NA
MW-16	MW-16	NA	NA	0.011	--	5
MW-16 (DUP)	MW-16-D	NA	NA	0.011	--	5
MW-17						
Screen 1	NA	NA	NA	NA	NA	NA
Screen 2	MW-17-2	NA	NA	--	--	31
Screen 2 (DUP)	MW-17-2D	NA	NA	--	--	31
Screen 3	MW-17-3	NA	NA	--	--	32
Screen 4	MW-17-4	NA	NA	--	--	31
Screen 5	MW-17-5	NA	NA	NA	NA	31
MW-18						
Screen 1	NA	NA	NA	NA	NA	NA
Screen 2	MW-18-2	NA	NA	--	--	31
Screen 3	MW-18-3	NA	NA	0.0069	--	35
Screen 4	MW-18-4	NA	NA	--	--	31
Screen 5	MW-18-5	NA	NA	NA	--	35
MW-19						
Screen 1	MW-19-1	NA	NA	NA	NA	35
Screen 2	MW-19-2	NA	NA	NA	NA	35
Screen 3	MW-19-3	NA	NA	NA	NA	21
Screen 4	MW-19-4	NA	NA	NA	NA	40
Screen 5	MW-19-5	NA	NA	NA	NA	32
MW-20						
Screen 1	MW-20-1	NA	NA	--	--	32
Screen 2	MW-20-2	NA	NA	--	--	7
Screen 3	MW-20-3	NA	NA	--	--	32
Screen 4	MW-20-4	NA	NA	--	--	32
Screen 5	MW-20-5	NA	NA	--	--	31
MW-21						
Screen 1	MW-21-1	NA	NA	NA	NA	31
Screen 2	MW-21-2	NA	NA	NA	NA	24
Screen 3	MW-21-3	NA	NA	NA	NA	4
Screen 4	MW-21-4	NA	NA	NA	NA	0
Screen 5	MW-21-5	NA	NA	NA	NA	8
MW-22						
Screen 1	MW-22-1	NA	NA	0.0058	--	32
Screen 1 (DUP)	MW-22-1D	NA	NA	0.0069	--	32

TABLE 3-5

**RESULTS OF METALS ANALYSIS OF GROUNDWATER
SAMPLES COLLECTED FROM JPL MONITORING WELLS,
APRIL 2001**

(concentrations in mg/L)

Values equal to or above state MCLs, (or other applicable regulatory limits), are bold and shaded

Sample Location	Sample Number	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
Screen 2	MW-22-2	NA	NA	--	--	32
Screen 3	MW-22-3	NA	NA	NA	NA	32
Screen 4	MW-22-4	NA	NA	NA	NA	39
Screen 5	NA	NA	NA	NA	NA	NA
MW-23						
Screen 1	MW-23-1	NA	NA	0.0072	--	35
Screen 2	MW-23-2	NA	NA	0.0057	--	31
Screen 3	MW-23-3	NA	NA	0.0055	--	30
Screen 4	MW-23-4	NA	NA	--	--	31
Screen 5	MW-23-5	NA	NA	NA	NA	473
MW-24						
Screen 1	MW-24-1	NA	NA	0.0057	--	31
Screen 2	MW-24-2	NA	NA	--	--	131
Screen 3	MW-24-3	NA	NA	--	--	22
Screen 4	MW-24-4	NA	NA	--	--	6
Screen 5	NA	NA	NA	NA	NA	NA
Practical Quantitation Limit		0.005	0.001	0.005	0.010	
California Maximum Contaminant Level		0.050	0.015 ¹	0.050	NE	
EPA Maximum Contaminant Level		0.050	0.015 ¹	0.100	NE	

(DUP): Field Duplicate.

NE: Not Established.

NA: Not Analyzed for the particular constituent due to changes in the sampling program as agreed to by the EPA, DTSC, and RWQCB.

--: Not detected.

1: Action Level: Treatment technique and public notification triggered.

B: Reported between the practical quantitation limit and the method detection limit.

J: Reported between the practical quantitation limit and the method detection limit.

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
MW-1	Aug/Sep 1996	--	--	--	--	0.8
	Oct/Nov 1996	--	--	--	--	0.5
	Feb/Mar 1997	--	--	--	--	2.5
	Jun/Jul 1997	--	--	--	--	1.9
	Sep/Oct 1997	--	--	--	--	0.7
	Jan/Feb 1998	--	--	--	--	1.6
	Apr/May 1998	--	--	--	--	0.5
	Jul/Aug 1998	--	0.009	0.055⁽¹⁾	--	1.0
	Oct/Nov 1998	--	--	--	--	1.1
	Feb/Mar 1999	--	--	--	--	1.9
	May/June 1999	--	--	--	--	0.4
	Aug 1999	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	(2)	(2)	--	--	1.2
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	0.1
	Jan/Feb 2001	--	--	--	--	0
	April 2001	(2)	(2)	(2)	(2)	(2)
MW-3						
Screen 1	Aug/Sep 1996	--	--	--	--	7.2
	Oct/Nov 1996	--	--	--	--	3.1
	Feb/Mar 1997	--	--	--	--	6.1
	Jun/Jul 1997	--	--	--	--	2.6
	Sep/Oct 1997	--	--	--	--	2.1
	Jan/Feb 1998	--	--	--	--	2.9
	Apr/May 1998	--	--	--	--	4.8
	Jul/Aug 1998	--	--	--	--	4.5
	Oct/Nov 1998	--	--	--	--	3.8
	Feb/Mar 1999	--	--	--	--	4.7
	May/June 1999	--	--	--	--	4.6
	Aug 1999	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	(2)	(2)	--	--	4.5
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	7.6
	Jan/Feb 2001	--	--	--	--	11
	April 2001	(2)	(2)	(2)	(2)	(2)
Screen 2	Aug/Sep 1996	--	--	--	--	1.7
	Oct/Nov 1996	--	--	--	--	2.7
	Feb/Mar 1997	--	--	--	--	3.8
	Jun/Jul 1997	--	--	--	--	1.1
	Sep/Oct 1997	--	--	--	--	2.1
	Jan/Feb 1998	--	--	--	--	2.3
	Apr/May 1998	--	--	--	--	4.3
	Jul/Aug 1998	--	0.004	--	--	3.3
	Oct/Nov 1998	--	--	--	--	4.3
	Feb/Mar 1999	--	--	--	--	2.1
	May/June 1999	--	--	--	--	3.1
	Aug 1999	(2)	(2)	--	--	1.0
	Nov/Dec 1999	(2)	(2)	--	--	3.9
	Mar/Apr 2000	(2)	(2)	--	--	3.5

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
Screen 3	Jul/Aug 2000	--	--	--	--	1.2
	Jan/Feb 2001	--	--	--	--	11
	April 2001	(2)	(2)	--	--	26
	Aug/Sep 1996	--	--	--	--	5.2
	Oct/Nov 1996	--	--	--	--	2.7
	Feb/Mar 1997	--	--	--	--	1.7
	Jun/Jul 1997	--	--	--	--	3.4
	Sep/Oct 1997	--	--	--	--	5.0
	Jan/Feb 1998	--	--	--	--	4.9
	Apr/May 1998	--	--	--	--	4.7
	Jul/Aug 1998	--	--	--	--	4.6
	Oct/Nov 1998	--	--	--	--	3.3
	Feb/Mar 1999	--	--	--	--	3.2
	May/June 1999	--	--	--	--	1.8
	Aug 1999	(2)	(2)	--	--	2.5
	Nov/Dec 1999	(2)	(2)	--	--	2.3
	Mar/Apr 2000	(2)	(2)	--	--	2.1
	Jul/Aug 2000	--	--	--	--	1.1
	Jan/Feb 2001	--	--	--	--	12
	April 2001	(2)	(2)	--	--	32
Screen 4	Aug/Sep 1996	--	--	--	--	4.3
	Oct/Nov 1996	--	--	--	--	2.6
	Feb/Mar 1997	--	--	--	--	4.5
	Jun/Jul 1997	--	--	--	--	2.7
	Sep/Oct 1997	--	--	--	--	2.5
	Jan/Feb 1998	--	--	--	--	3.0
	Apr/May 1998	--	--	--	--	3.6
	Jul/Aug 1998	--	--	--	--	3.1
	Oct/Nov 1998	--	--	--	--	1.3
	Feb/Mar 1999	--	--	--	--	3.5
	May/June 1999	--	--	--	--	1.5
	Aug 1999	(2)	(2)	--	--	1.1
	Nov/Dec 1999	(2)	(2)	--	--	2.6
	Mar/Apr 2000	(2)	(2)	--	--	2.2
	Jul/Aug 2000	--	--	--	--	1.6
	Jan/Feb 2001	--	--	--	--	10
	April 2001	(2)	(2)	--	--	32
Screen 5	Aug/Sep 1996	0.011	--	--	--	1.5
	Oct/Nov 1996	0.007	--	--	--	1.9
	Feb/Mar 1997	--	--	--	--	2.5
	Jun/Jul 1997	0.007	--	--	--	0.8
	Sep/Oct 1997	0.010	--	--	--	1.0
	Jan/Feb 1998	0.009	0.008	--	--	2.3
	Apr/May 1998	--	0.002	--	--	2.0
	Jul/Aug 1998	0.006	--	--	--	3.2
	Oct/Nov 1998	--	--	--	--	4.2
	Feb/Mar 1999	--	--	--	--	4.4
	May/June 1999	0.006	--	--	--	4.2
	Aug 1999	(2)	(2)	(2)	(2)	5.4
	Nov/Dec 1999	(2)	(2)	--	--	4.9

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	Mar/Apr 2000	(2)	(2)	(2)	(2)	10.4
	Jul/Aug 2000	--	--	--	--	11.6
	Jan/Feb 2001	--	--	--	--	- 10
	April 2001	(2)	(2)	(2)	(2)	24
MW-4						
Screen 1	Aug/Sep 1996	--	--	--	--	2.6
	Oct/Nov 1996	--	--	--	--	1.7
	Feb/Mar 1997	--	--	--	--	4.6
	Jun/Jul 1997	--	--	--	--	2.8
	Sep/Oct 1997	--	--	--	--	4.8
	Jan/Feb 1998	--	--	--	--	3.4
	Apr/May 1998	--	--	--	--	3.7
	Jul/Aug 1998	--	--	--	--	3.0
	Oct/Nov 1998	--	--	--	--	2.7
	Feb/Mar 1999	--	--	--	--	1.0
	May/Jun 1999	--	--	--	--	1.8
	Aug 1999	(2)	(2)	--	--	1.2
	Nov/Dec 1999	(2)	(2)	--	--	4.9
	Mar/Apr 2000	(2)	(2)	--	--	1.5
	Jul/Aug 2000	--	--	--	--	8.6
	Jan/Feb 2001	--	--	--	--	786
	April 2001	(2)	(2)	--	--	31
Screen 2	Aug/Sep 1996	--	--	0.023	--	3.8
	Oct/Nov 1996	--	--	0.014	--	4.2
	Feb/Mar 1997	--	--	0.011	--	4.5
	Jun/Jul 1997	--	--	0.013	--	2.7
	Sep/Oct 1997	--	--	0.012	--	3.5
	Jan/Feb 1998	--	--	--	--	4.8
	Apr/May 1998	--	--	--	--	1.8
	Jul/Aug 1998	--	--	0.011	--	4.9
	Oct/Nov 1998	--	--	0.010	--	3.4
	Feb/Mar 1999	--	--	--	--	6.1
	May/Jun 1999	--	--	--	--	4.8
	Aug 1999	(2)	(2)	0.010	--	3.8
	Nov/Dec 1999	(2)	(2)	--	--	4.9
	Mar/Apr 2000	(2)	(2)	--	--	5.7
	Jul/Aug 2000	--	--	0.014	--	7.0
	Jan/Feb 2001	--	--	0.011 J	--	7
	April 2001	(2)	(2)	0.019	--	32
Screen 3	Aug/Sep 1996	--	--	--	--	0.6
	Oct/Nov 1996	--	--	--	--	1.5
	Feb/Mar 1997	--	--	--	--	2.8
	Jun/Jul 1997	--	--	--	--	2.0
	Sep/Oct 1997	--	--	--	--	1.4
	Jan/Feb 1998	--	--	--	--	4.6
	Apr/May 1998	--	--	--	--	3.2
	Jul/Aug 1998	--	--	--	--	3.9
	Oct/Nov 1998	--	--	--	--	1.2
	Feb/Mar 1999	--	--	--	--	2.9

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	May/Jun 1999	--	--	--	--	4.9
	Aug 1999	(2)	(2)	--	--	2.1
	Nov/Dec 1999	(2)	(2)	--	--	3.0
	Mar/Apr 2000	(2)	(2)	--	--	8.4
	Jul/Aug 2000	--	--	--	--	9.6
	Jan/Feb 2001	--	--	0.0051 J	--	- 7
	April 2001	(2)	(2)	--	--	22
Screen 4	Aug/Sep 1996	--	--	--	--	3.0
	Oct/Nov 1996	--	--	--	--	1.4
	Feb/Mar 1997	--	--	--	--	2.5
	Jun/Jul 1997	--	--	--	--	4.6
	Sep/Oct 1997	--	--	--	--	3.3
	Jan/Feb 1998	--	--	--	--	4.7
	Apr/May 1998	--	--	--	--	2.0
	Jul/Aug 1998	--	--	0.007	--	3.6
	Oct/Nov 1998	--	--	--	--	2.7
	Feb/Mar 1999	--	--	--	--	3.3
	May/Jun 1999	--	--	--	--	2.9
	Aug 1999	(2)	(2)	--	--	1.2
	Nov/Dec 1999	(2)	(2)	--	--	1.9
	Mar/Apr 2000	(2)	(2)	--	--	1.0
	Jul/Aug 2000	--	--	--	--	5.3
	Jan/Feb 2001	--	--	--	--	794
	April 2001	(2)	(2)	--	--	28
Screen 5	Aug/Sep 1996	--	--	--	--	4.5
	Oct/Nov 1996	--	--	--	--	4.1
	Feb/Mar 1997	--	--	--	--	4.4
	Jun/Jul 1997	--	--	--	--	4.0
	Sep/Oct 1997	--	--	--	--	3.9
	Jan/Feb 1998	--	--	--	--	4.5
	Apr/May 1998	--	--	--	--	3.8
	Jul/Aug 1998	0.005	--	--	--	4.6
	Oct/Nov 1998	--	--	--	--	2.9
	Feb/Mar 1999	--	--	--	--	2.4
	May/Jun 1999	--	--	--	--	1.1
	Aug 1999	(2)	(2)	--	--	2.4
	Nov/Dec 1999	(2)	(2)	--	--	3.4
	Mar/Apr 2000	(2)	(2)	--	--	1.1
	Jul/Aug 2000	--	--	--	--	0.4
	Jan/Feb 2001	--	--	--	--	5
	April 2001	(2)	(2)	0.011	--	45
MW-5	Aug/Sep 1996	--	--	--	--	2.7
	Oct/Nov 1996	--	0.003	--	--	2.7
	Feb/Mar 1997	--	--	--	--	1.5
	Jun/Jul 1997	--	--	--	--	4.5
	Sep/Oct 1997	--	--	--	--	1.0
	Jan/Feb 1998	--	--	--	--	0.9
	Apr/May 1998	--	--	--	--	3.1
	Jul/Aug 1998	--	--	--	--	4.6
	Oct/Nov 1998	--	--	--	--	4.2

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	Feb/Mar 1999	--	--	--	--	7.9
	May/Jun 1999	--	--	--	--	1.7
	Aug 1999	(2)	(2)	--	--	4.3
	Nov/Dec 1999	(2)	(2)	--	--	3.6
	Mar/Apr 2000	(2)	(2)	--	--	0.2
	Jul/Aug 2000	--	--	--	--	1.3
	Jan/Feb 2001	--	--	0.0055 J	--	2
	April 2001	(2)	(2)	--	--	4
MW-6	Aug/Sep 1996	--	--	0.050	--	4.5
	Oct/Nov 1996	--	--	0.011	--	1.1
	Feb/Mar 1997	--	--	0.014	--	4.3
	Jun/Jul 1997	--	--	0.019	--	2.5
	Sep/Oct 1997	--	--	--	--	1.8
	Jan/Feb 1998	--	--	--	--	0.4
	Apr/May 1998	--	--	0.012	--	2.1
	Jul/Aug 1998	--	--	0.013	--	3.0
	Oct/Nov 1998	--	--	0.037	--	3.8
	Feb/Mar 1999	--	--	0.017	--	2.7
	May/Jun 1999	--	--	0.036	--	4.1
	Aug 1999	(2)	(2)	0.31⁽⁹⁾	--	2.7
	Nov/Dec 1999	(2)	(2)	0.012	--	2.2
	Mar/Apr 2000	(2)	(2)	0.082	--	3.9
	Jul/Aug 2000	--	--	0.051	--	10.5
	Jan/Feb 2001	0.0022 B	--	0.011 J	--	- 2
	April 2001	(2)	(2)	0.010	--	12
MW-7	Aug/Sep 1996	--	--	0.013	0.007	4.8
	Oct/Nov 1996	--	--	0.019	0.019	3.5
	Feb/Mar 1997	--	--	--	0.010	2.2
	Jun/Jul 1997	--	--	--	--	1.0
	Sep/Oct 1997	--	--	0.018	--	0.8
	Jan/Feb 1998	--	--	0.012	--	1.2
	Apr/May 1998	--	--	--	--	4.1
	Jul/Aug 1998	--	--	--	--	4.7
	Oct/Nov 1998	--	--	--	--	1.2
	Feb/Mar 1999	--	--	--	--	4.3
	May/Jun 1999	--	--	0.011	--	3.5
	Aug 1999	(2)	(2)	--	0.005	3.1
	Nov/Dec 1999	(2)	(2)	0.010	0.007	1.0
	Mar/Apr 2000	(2)	(2)	0.012	0.008	1.3
	Jul/Aug 2000	--	--	0.014	--	30.0
	Jan/Feb 2001	Not Analyzed – Pilot Test				
	April 2001	Not Analyzed – Pilot Test				
MW-8	Aug/Sep 1996	--	--	--	--	4.0
	Oct/Nov 1996	--	0.003	--	--	4.7
	Feb/Mar 1997	--	--	--	--	3.1
	Jun/Jul 1997	--	0.002	--	--	4.6
	Sep/Oct 1997	--	--	--	--	4.2
	Jan/Feb 1998	--	--	--	--	3.4
	Apr/May 1998	--	--	0.013	--	2.6

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	Jul/Aug 1998	--	--	--	--	1.2
	Oct/Nov 1998	--	--	--	--	3.7
	Feb/Mar 1999	--	--	--	--	1.5
	May/Jun 1999	--	--	--	--	1.5
	Aug 1999	(2)	(2)	0.014	--	0.7
	Nov/Dec 1999	(2)	(2)	--	--	4.6
	Mar/Apr 2000	(2)	(2)	--	--	1.3
	Jul/Aug 2000	--	--	0.016	--	5.3
	Jan/Feb 2001	--	--	0.0069 J	--	2
	April 2001	(2)	(2)	--	--	29
MW-9	Aug/Sep 1996	--	--	--	--	2.1
	Oct/Nov 1996	--	--	--	--	2.5
	Feb/Mar 1997	--	--	--	--	4.2
	Jun/Jul 1997	--	--	--	--	3.2
	Sep/Oct 1997	--	--	--	--	1.0
	Jan/Feb 1998	--	--	--	--	2.4
	Apr/May 1998	--	--	--	--	1.3
	Jul/Aug 1998	--	--	--	--	3.0
	Oct/Nov 1998	--	--	--	--	2.1
	Feb/Mar 1999	--	--	--	--	2.8
	May/Jun 1999	--	--	--	--	0.1
	Aug 1999	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	(2)	(2)	--	--	4.6
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	2.3
	Jan/Feb 2001	--	--	--	--	- 2
	April 2001	(2)	(2)	(2)	(2)	(2)
MW-10	Aug/Sep 1996	--	--	0.011	0.010	4.5
	Oct/Nov 1996	--	0.003	0.011	--	4.9
	Feb/Mar 1997	--	--	--	--	2.2
	Jun/Jul 1997	--	--	0.014	--	2.9
	Sep/Oct 1997	--	--	--	--	3.2
	Jan/Feb 1998	--	--	--	--	2.1
	Apr/May 1998	--	0.008	0.010	--	2.6
	Jul/Aug 1998	--	--	--	--	3.8
	Oct/Nov 1998	--	--	--	--	3.6
	Feb/Mar 1999	--	--	0.014	--	3.3
	May/Jun 1999	--	--	--	--	1.8
	Aug 1999	(2)	(2)	--	--	3.6
	Nov/Dec 1999	(2)	(2)	0.026	--	4.7
	Mar/Apr 2000	(2)	(2)	0.041	--	9.1
	Jul/Aug 2000	--	--	0.012 ⁽⁴⁾	--	1.8
	Jan/Feb 2001	--	--	0.011 J	--	20
	April 2001	(2)	(2)	0.013	--	2
MW-11	Screen 1	Aug/Sep 1996	--	--	--	4.0
		Oct/Nov 1996	--	--	--	2.5
		Feb/Mar 1997	--	--	--	2.5
		Jun/Jul 1997	--	--	--	1.5

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	Sep/Oct 1997	--	--	--	--	4.6
	Jan/Feb 1998	--	--	--	--	1.0
	Apr/May 1998	--	--	--	--	1.0
	Jul/Aug 1998	--	--	--	--	4.6
	Oct/Nov 1998	--	--	--	--	1.4
	Feb/Mar 1999	--	--	--	--	1.6
	May/Jun 1999	--	--	--	--	1.1
	Aug 1999	(2)	(2)	--	--	1.2
	Nov/Dec 1999	(2)	(2)	--	--	2.4
	Mar/Apr 2000	(2)	(2)	--	--	2.7
	Jul/Aug 2000	--	--	--	--	0.8
	Jan/Feb 2001	--	--	0.00504 J	--	2
	April 2001	(2)	(2)	--	--	4
Screen 2	Aug/Sep 1996	--	--	--	--	4.5
	Oct/Nov 1996	--	--	--	--	4.7
	Feb/Mar 1997	--	--	--	--	3.1
	Jun/Jul 1997	--	--	--	--	4.7
	Sep/Oct 1997	--	--	--	--	3.0
	Jan/Feb 1998	--	--	--	--	2.4
	Apr/May 1998	--	--	--	--	1.4
	Jul/Aug 1998	--	--	--	--	3.5
	Oct/Nov 1998	--	--	--	--	3.7
	Feb/Mar 1999	--	--	--	--	12.8
	May/Jun 1999	--	--	--	--	1.3
	Aug 1999	(2)	(2)	--	--	1.9
	Nov/Dec 1999	(2)	(2)	--	--	3.3
	Mar/Apr 2000	(2)	(2)	--	--	1.8
	Jul/Aug 2000	--	--	--	--	1.0
	Jan/Feb 2001	--	--	--	--	- 10
	April 2001	(2)	(2)	--	--	48
Screen 3	Aug/Sep 1996	--	--	--	--	0.5
	Oct/Nov 1996	--	--	--	--	2.3
	Feb/Mar 1997	--	--	--	--	1.7
	Jun/Jul 1997	--	--	--	--	1.9
	Sep/Oct 1997	--	--	--	--	3.0
	Jan/Feb 1998	--	--	--	--	1.4
	Apr/May 1998	--	--	--	--	2.1
	Jul/Aug 1998	--	--	--	--	2.6
	Oct/Nov 1998	--	0.008	--	--	4.5
	Feb/Mar 1999	--	--	--	--	2.6
	May/Jun 1999	--	--	--	--	2.7
	Aug 1999	(2)	(2)	--	--	3.1
	Nov/Dec 1999	(2)	(2)	--	--	2.1
	Mar/Apr 2000	(2)	(2)	--	--	1.2
	Jul/Aug 2000	--	--	--	--	1.6

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
Screen 4	Jan/Feb 2001	--	--	--	--	9
	April 2001	(2)	(2)	--	--	24
	Aug/Sep 1996	--	--	--	--	3.9
	Oct/Nov 1996	--	--	--	--	3.3
	Feb/Mar 1997	--	0.009	--	--	5.2
	Jun/Jul 1997	--	--	--	--	4.8
	Sep/Oct 1997	--	--	--	--	5.0
	Jan/Feb 1998	--	--	--	--	3.4
	Apr/May 1998	--	--	--	--	4.2
	Jul/Aug 1998	--	--	--	--	3.7
	Oct/Nov 1998	--	--	--	--	4.5
	Feb/Mar 1999	--	--	--	--	1.4
	May/Jun 1999	--	--	--	--	4.0
	Aug 1999	(2)	(2)	(2)	(2)	3.5
	Nov/Dec 1999	(2)	(2)	--	--	2.3
	Mar/Apr 2000	(2)	(2)	(2)	(2)	1.7
	Jul/Aug 2000	--	--	--	--	1.9
	Jan/Feb 2001	--	--	--	--	- 10
	April 2001	(2)	(2)	(2)	(2)	29
Screen 5	Aug/Sep 1996	0.007	--	--	--	0.6
	Oct/Nov 1996	0.005	--	--	--	1.9
	Feb/Mar 1997	--	0.002	--	--	1.6
	Jun/Jul 1997	--	--	--	--	0.7
	Sep/Oct 1997	--	--	--	--	2.6
	Jan/Feb 1998	--	--	--	--	1.2
	Apr/May 1998	--	--	--	--	1.7
	Jul/Aug 1998	--	--	--	--	1.7
	Oct/Nov 1998	--	--	--	--	1.4
	Feb/Mar 1999	--	--	--	--	4.1
	May/Jun 1999	0.005	--	--	--	1.4
	Aug 1999	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	(2)	(2)	--	--	1.0
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	0.3
	Jan/Feb 2001	--	--	--	--	3
	April 2001	(2)	(2)	(2)	(2)	(2)
MW-12						
Screen 1	Aug/Sep 1996	--	0.004	--	--	50.4
	Oct/Nov 1996	(5)	(5)	(5)	(5)	(5)
	Feb/Mar 1997	--	0.003	--	--	3.8
	Jun/Jul 1997	--	--	--	--	4.8
	Sep/Oct 1997	(5)	(5)	(5)	(5)	(5)
	Jan/Feb 1998	--	--	--	--	2.6
	Apr/May 1998	--	--	0.010	--	4.8
	Jul/Aug 1998	--	--	--	--	5.0
	Oct/Nov 1998	--	--	--	--	7.4
	Feb/Mar 1999	--	--	--	--	7.5
	May/Jun 1999	--	--	--	--	10.5
	Aug 1999	(2)	(2)	--	--	41.6
	Nov/Dec 1999	(2)	(2)	--	--	13.1

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
Screen 2	Mar/Apr 2000	(2)	(2)	--	--	7.9
	Jul/Aug 2000	--	--	--	--	33.6
	Jan/Feb 2001	--	--	0.0083 J	--	10
	April 2001	(2)	(2)	0.0081	--	39
	Aug/Sep 1996	--	0.024	--	--	4.0
	Oct/Nov 1996	--	--	--	--	4.0
	Feb/Mar 1997	--	--	--	--	2.5
	Jun/Jul 1997	--	--	--	--	3.2
	Sep/Oct 1997	--	--	--	--	3.4
	Jan/Feb 1998	--	--	--	--	4.4
	Apr/May 1998	--	--	--	--	1.6
	Jul/Aug 1998	--	0.006	--	--	3.7
	Oct/Nov 1998	--	--	--	--	4.9
	Feb/Mar 1999	--	--	--	--	2.5
	May/June 1999	--	--	--	--	1.7
	Aug 1999	(2)	(2)	--	--	1.9
	Nov/Dec 1999	(2)	(2)	--	--	1.6
	Mar/Apr 2000	(2)	(2)	--	--	0.9
	Jul/Aug 2000	--	--	--	--	1.7
	Jan/Feb 2001	--	--	--	--	9
	April 2001	(2)	(2)	0.0062	--	25
Screen 3	Aug/Sep 1996	--	--	--	--	2.5
	Oct/Nov 1996	--	--	--	--	3.1
	Feb/Mar 1997	--	--	--	--	5.0
	Jun/Jul 1997	--	--	--	--	4.8
	Sep/Oct 1997	--	--	--	--	4.2
	Jan/Feb 1998	--	--	--	--	2.8
	Apr/May 1998	--	--	--	--	4.4
	Jul/Aug 1998	--	0.018	--	--	3.2
	Oct/Nov 1998	--	--	--	--	4.2
	Feb/Mar 1999	--	--	--	--	4.6
	May/June 1999	--	--	--	--	0.8
	Aug 1999	(2)	(2)	--	--	0.4
	Nov/Dec 1999	(2)	(2)	--	--	0.4
	Mar/Apr 2000	(2)	(2)	--	--	0.8
	Jul/Aug 2000	--	--	--	--	0.4
	Jan/Feb 2001	--	--	--	--	9
	April 2001	(2)	(2)	--	--	2
Screen 4	Aug/Sep 1996	--	0.005	--	--	1.8
	Oct/Nov 1996	--	--	--	--	0.7
	Feb/Mar 1997	--	--	--	--	2.4
	Jun/Jul 1997	--	--	--	--	2.5
	Sep/Oct 1997	--	--	--	--	1.6
	Jan/Feb 1998	--	--	--	--	3.4
	Apr/May 1998	--	--	--	--	1.7
	Jul/Aug 1998	--	--	--	--	3.7
	Oct/Nov 1998	--	--	--	--	4.2
	Feb/Mar 1999	--	--	--	--	3.1
	May/June 1999	--	--	--	--	1.1
	Aug 1999	(2)	(2)	(2)	(2)	0.9

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	Nov/Dec 1999	(2)	(2)	--	--	3.2
	Mar/Apr 2000	(2)	(2)	(2)	(2)	0.6
	Jul/Aug 2000	--	--	--	--	0.6
	Jan/Feb 2001	--	--	0.0059 J	--	- 5
	April 2001	(2)	(2)	(2)	(2)	30
Screen 5	Aug/Sep 1996	--	--	--	--	2.0
	Oct/Nov 1996	--	--	--	--	2.0
	Feb/Mar 1997	--	--	--	--	1.5
	Jun/Jul 1997	--	--	--	--	5.0
	Sep/Oct 1997	--	--	--	--	1.0
	Jan/Feb 1998	--	--	--	--	2.2
	Apr/May 1998	--	--	--	--	3.5
	Jul/Aug 1998	--	--	--	--	3.1
	Oct/Nov 1998	--	--	--	--	1.3
	Feb/Mar 1999	--	--	--	--	5.0
	May/June 1999	--	--	--	--	3.2
	Aug 1999	(2)	(2)	(2)	(2)	4.8
	Nov/Dec 1999	(2)	(2)	--	--	3.7
	Mar/Apr 2000	(2)	(2)	(2)	(2)	5.9
	Jul/Aug 2000	--	--	--	--	1.7
	Jan/Feb 2001	0.0027 B	--	0.0064 J	--	- 10
	April 2001	(2)	(2)	(2)	(2)	30
MW-13	Aug/Sep 1996	--	--	0.046	0.047	4.1
	Oct/Nov 1996	--	0.005	0.031	0.028	3.0
	Feb/Mar 1997	--	--	0.032	0.035	0.5
	Jun/Jul 1997	--	--	0.038	0.037	1.2
	Sep/Oct 1997	--	--	0.050	0.045	2.4
	Jan/Feb 1998	--	0.003	0.040	0.036	1.0
	Apr/May 1998	--	--	0.082	0.024	3.5
	Jul/Aug 1998	--	--	0.025	0.023	1.0
	Oct/Nov 1998	--	--	0.036	0.029	3.4
	Feb/Mar 1999	--	--	0.030	0.019	1.0
	May/June 1999	--	--	0.024	0.024	0.4
	Aug 1999	(2)	(2)	0.037	0.031	0.15
	Nov/Dec 1999	(2)	(2)	0.034	0.029	1.2
	Mar/Apr 2000	(2)	(2)	0.034	0.030	0.5
	Jul/Aug 2000	--	--	0.044	0.019	1.4
	Jan/Feb 2001	--	--	0.11 J	0.032	5
	April 2001	(2)	(2)	0.019	--	2
MW-14 Screen 1	Aug/Sep 1996	--	--	--	--	3.3
	Oct/Nov 1996	--	--	--	--	4.5
	Feb/Mar 1997	--	--	--	--	4.3
	Jun/Jul 1997	--	--	--	--	2.2
	Sep/Oct 1997	--	--	--	--	3.9
	Jan/Feb 1998	--	0.004	--	--	5.0
	Apr/May 1998	--	--	0.011	--	3.1
	Jul/Aug 1998	--	--	--	--	3.8
	Oct/Nov 1998	--	--	--	--	4.2

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	Feb/Mar 1999	--	--	--	--	4.8
	May/Jun 1999	--	--	--	--	3.4
	Aug 1999	(2)	(2)	--	--	1.7
	Nov/Dec 1999	(6)	(6)	(6)	(6)	(6)
	Mar/Apr 2000	(2)	(2)	--	--	1.7
	Jul/Aug 2000	--	--	--	--	2.2
	Jan/Feb 2001	--	--	--	--	- 10
	April 2001	(2)	(2)	--	--	32
Screen 2	Aug/Sep 1996	--	--	--	--	4.4
	Oct/Nov 1996	--	--	--	--	3.8
	Feb/Mar 1997	--	--	--	--	4.8
	Jun/Jul 1997	--	--	--	--	5.0
	Sep/Oct 1997	--	--	--	--	3.2
	Jan/Feb 1998	--	0.003	--	--	4.8
	Apr/May 1998	--	--	--	--	4.9
	Jul/Aug 1998	--	--	--	--	4.8
	Oct/Nov 1998	--	--	--	--	4.3
	Feb/Mar 1999	--	--	--	--	4.7
	May/Jun 1999	--	--	--	--	4.4
	Aug 1999	(2)	(2)	--	--	2.8
	Nov/Dec 1999	(2)	(2)	--	--	4.6
	Mar/Apr 2000	(2)	(2)	--	--	1.9
	Jul/Aug 2000	--	--	--	--	3.4
	Jan/Feb 2001	--	--	--	--	- 10
	April 2001	(2)	(2)	--	--	32
Screen 3	Aug/Sep 1996	--	--	--	--	1.7
	Oct/Nov 1996	--	--	--	--	2.0
	Feb/Mar 1997	--	--	--	--	2.5
	Jun/Jul 1997	--	--	--	--	0.7
	Sep/Oct 1997	--	--	--	--	2.9
	Jan/Feb 1998	--	0.003	0.026	--	2.1
	Apr/May 1998	--	--	--	--	1.4
	Jul/Aug 1998	--	--	--	--	3.1
	Oct/Nov 1998	--	--	--	--	0.8
	Feb/Mar 1999	--	--	--	--	0.7
	May/Jun 1999	--	--	--	--	0.8
	Aug 1999	(2)	(2)	--	--	2.2
	Nov/Dec 1999	(2)	(2)	--	--	0.7
	Mar/Apr 2000	(2)	(2)	--	--	0.6
	Jul/Aug 2000	--	--	--	--	0.2
	Jan/Feb 2001	--	--	--	--	- 10
	April 2001	(2)	(2)	--	--	13
Screen 4	Aug/Sep 1996	--	--	--	--	3.1
	Oct/Nov 1996	--	--	--	--	2.5
	Feb/Mar 1997	--	--	--	--	4.1
	Jun/Jul 1997	--	--	--	--	2.3
	Sep/Oct 1997	--	--	--	--	1.7
	Jan/Feb 1998	--	0.002	--	--	2.7
	Apr/May 1998	--	--	--	--	1.3
	Jul/Aug 1998	--	--	--	--	1.0

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	Oct/Nov 1998	--	--	--	--	2.3
	Feb/Mar 1999	--	--	--	--	2.1
	May/Jun 1999	--	--	--	--	1.7
	Aug 1999	(2)	(2)	--	--	1.2
	Nov/Dec 1999	(2)	(2)	--	--	1.2
	Mar/Apr 2000	(2)	(2)	--	--	1.3
	Jul/Aug 2000	--	--	--	--	0.2
	Jan/Feb 2001	--	--	--	--	- 10
	April 2001	(2)	(2)	0.0051	--	33
Screen 5	Aug/Sep 1996	--	--	--	--	1.5
	Oct/Nov 1996	--	--	--	--	4.1
	Feb/Mar 1997	--	0.028	--	--	2.3
	Jun/Jul 1997	--	--	--	--	1.9
	Sep/Oct 1997	--	--	--	--	3.8
	Jan/Feb 1998	--	--	--	--	4.7
	Apr/May 1998	--	--	--	--	1.9
	Jul/Aug 1998	--	--	--	--	2.4
	Oct/Nov 1998	--	--	--	--	4.5
	Feb/Mar 1999	--	--	--	--	4.2
	May/Jun 1999	--	--	--	--	1.9
	Aug 1999	(2)	(2)	(2)	(2)	1.4
	Nov/Dec 1999	(2)	(2)	--	--	3.6
	Mar/Apr 2000	(2)	(2)	(2)	(2)	3.2
	Jul/Aug 2000	--	--	--	--	2.9
	Jan/Feb 2001	--	--	--	--	6
	April 2001	(2)	(2)	(2)	(2)	31
MW-15	Aug/Sep 1996	--	--	--	--	1.3
	Oct/Nov 1996	--	--	NS	--	0.5
	Feb/Mar 1997	--	--	--	--	2.6
	Jun/Jul 1997	--	--	--	--	0.2
	Sep/Oct 1997	--	--	--	--	0.9
	Jan/Feb 1998	--	--	--	--	1.4
	Apr/May 1998	--	--	--	--	0.4
	Jul/Aug 1998	--	--	--	--	3.0
	Oct/Nov 1998	--	--	--	--	2.0
	Feb/Mar 1999	--	--	--	--	0.6
	May/Jun 1999	--	--	--	--	0.4
	Aug 1999	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	(2)	(2)	--	--	0.3
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	0.4
	Jan/Feb 2001	--	--	--	--	0
	April 2001	(2)	(2)	(2)	(2)	(2)
MW-16	Aug/Sep 1996	--	--	0.018	--	3.4
	Oct/Nov 1996	(5)	(5)	(5)	(5)	1.4
	Feb/Mar 1997	--	--	--	0.007	0.2
	Jun/Jul 1997	--	--	--	--	0.1
	Sep/Oct 1997	(5)	(5)	(5)	(5)	1.4
	Jan/Feb 1998	--	--	--	--	1.1

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	Apr/May 1998	--	--	0.014	--	1.4
	Jul/Aug 1998	--	--	--	--	1.9
	Oct/Nov 1998	--	--	0.013	--	0.9
	Feb/Mar 1999	--	--	0.013	0.007	1.0
	May/Jun 1999	--	--	--	--	2.2
	Aug 1999	(2)	(2)	--	0.007	0.5
	Nov/Dec 1999	(2)	(2)	--	0.006	1.9
	Mar/Apr 2000	(2)	(2)	--	--	0.1
	Jul/Aug 2000	--	--	--	0.006	0.2
	Jan/Feb 2001	--	--	0.0078 J	--	- 10
	April 2001	(2)	(2)	0.011	--	5
MW-17						
Screen 1	Aug/Sep 1996	--	--	NS	NS	1.0
	Oct/Nov 1996	--	--	--	--	2.9
	Feb/Mar 1997	--	--	--	--	2.0
	Jun/Jul 1997	--	--	--	--	2.2
	Sep/Oct 1997	--	--	--	--	1.3
	Jan/Feb 1998	--	--	--	--	5.0
	Apr/May 1998	--	--	--	--	1.7
	Jul/Aug 1998	--	--	--	--	1.5
	Oct/Nov 1998	--	--	--	--	0.5
	Feb/Mar 1999	--	--	--	--	1.5
	May/Jun 1999	--	--	--	--	0.4
	Aug 1999	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	(2)	(2)	--	--	1.2
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	1.5
	Jan/Feb 2001	--	--	--	--	4
	April 2001	(2)	(2)	(2)	(2)	(2)
Screen 2	Aug/Sep 1996	--	--	NS	NS	4.5
	Oct/Nov 1996	--	--	--	--	2.5
	Feb/Mar 1997	--	--	--	--	2.7
	Jun/Jul 1997	--	--	--	--	4.5
	Sep/Oct 1997	--	--	--	--	1.2
	Jan/Feb 1998	--	--	--	--	0.8
	Apr/May 1998	--	--	--	--	2.2
	Jul/Aug 1998	--	0.007	--	--	1.0
	Oct/Nov 1998	--	--	--	--	1.7
	Feb/Mar 1999	--	--	--	--	1.1
	May/Jun 1999	--	--	--	--	1.6
	Aug 1999	(2)	(2)	--	--	12.4
	Nov/Dec 1999	(2)	(2)	--	--	3.1
	Mar/Apr 2000	(2)	(2)	--	--	2.0
	Jul/Aug 2000	--	--	--	--	1.3
	Jan/Feb 2001	--	--	--	--	- 2
	April 2001	(2)	(2)	--	--	31
Screen 3	Aug/Sep 1996	--	0.002	NS	NS	4.9
	Oct/Nov 1996	--	--	--	--	4.8
	Feb/Mar 1997	--	--	--	--	6.0
	Jun/Jul 1997	--	--	--	--	4.8

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	Sep/Oct 1997	--	--	--	0.006	2.5
	Jan/Feb 1998	--	--	--	--	3.2
	Apr/May 1998	--	--	--	--	3.6
	Jul/Aug 1998	--	--	--	--	4.0
	Oct/Nov 1998	--	--	--	--	4.4
	Feb/Mar 1999	--	--	--	--	6.3
	May/June 1999	--	--	--	--	2.2
	Aug 1999	(2)	(2)	--	--	2.5
	Nov/Dec 1999	(2)	(2)	--	--	4.6
	Mar/Apr 2000	(2)	(2)	--	--	3.6
	Jul/Aug 2000	--	--	--	--	1.8
	Jan/Feb 2001	--	--	--	--	- 10
	April 2001	(2)	(2)	--	--	32
Screen 4	Aug/Sep 1996	--	--	NS	NS	2.8
	Oct/Nov 1996	--	--	--	--	2.6
	Feb/Mar 1997	--	--	--	--	5.6
	Jun/Jul 1997	--	--	--	--	4.1
	Sep/Oct 1997	--	--	--	--	3.6
	Jan/Feb 1998	--	--	--	--	3.9
	Apr/May 1998	--	--	--	--	3.7
	Jul/Aug 1998	--	--	--	--	4.4
	Oct/Nov 1998	--	--	--	--	1.8
	Feb/Mar 1999	--	--	--	--	4.8
	May/June 1999	--	--	--	--	7.9
	Aug 1999	(2)	(2)	--	--	4.1
	Nov/Dec 1999	(2)	(2)	--	--	4.9
	Mar/Apr 2000	(2)	(2)	--	--	10.0
	Jul/Aug 2000	--	--	--	--	1.4
	Jan/Feb 2001	--	--	--	--	1
	April 2001	(2)	(2)	--	--	31
Screen 5	Aug/Sep 1996	--	--	NS	NS	5.0
	Oct/Nov 1996	--	0.005	--	--	5.2
	Feb/Mar 1997	--	0.003	--	--	25
	Jun/Jul 1997	--	--	--	--	34
	Sep/Oct 1997	--	--	--	--	4.8
	Jan/Feb 1998	--	--	--	--	4.8
	Apr/May 1998	--	0.002	--	--	3.7
	Jul/Aug 1998	--	--	--	--	4.8
	Oct/Nov 1998	--	--	--	--	5.1
	Feb/Mar 1999	--	0.007	--	--	12.4
	May/June 1999	--	0.004	--	--	16.3
	Aug 1999	(2)	(2)	(2)	(2)	2.4
	Nov/Dec 1999	(2)	(2)	--	--	4.4
	Mar/Apr 2000	(2)	(2)	(2)	(2)	80.0
	Jul/Aug 2000	--	--	--	--	4.4

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	Jan/Feb 2001	--	--	--	--	5
	April 2001	(2)	(2)	(2)	(2)	31
MW-18						
Screen 1	Aug/Sep 1996	--	--	NS	NS	0.9
	Oct/Nov 1996	(5)	--	--	--	--
	Feb/Mar 1997	--	--	--	--	1.9
	Jun/Jul 1997	--	--	--	--	0.4
	Sep/Oct 1997	(5)	--	--	--	--
	Jan/Feb 1998	(5)	--	--	--	--
	Apr/May 1998	--	--	--	--	0.1
	Jul/Aug 1998	--	--	--	--	3.8
	Oct/Nov 1998	--	--	--	--	2.3
	Feb/Mar 1999	--	--	--	--	0.7
	May/Jun 1999	--	--	--	--	2.8
	Aug 1999	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	(5)	(5)	(5)	(5)	(5)
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	0.1
	Jan/Feb 2001	(5)	(5)	(5)	(5)	(5)
	April 2001	(2)	(2)	(2)	(2)	(2)
Screen 2	Aug/Sep 1996	--	--	NS	NS	3.5
	Oct/Nov 1996	--	0.003	--	--	3.4
	Feb/Mar 1997	--	--	--	--	2.8
	Jun/Jul 1997	--	--	--	--	1.5
	Sep/Oct 1997	--	--	--	--	1.4
	Jan/Feb 1998	--	--	--	--	3.6
	Apr/May 1998	--	--	--	--	0.1
	Jul/Aug 1998	--	--	--	--	3.1
	Oct/Nov 1998	--	--	--	--	1.9
	Feb/Mar 1999	--	0.005	--	--	2.7
	May/Jun 1999	--	--	--	--	4.1
	Aug 1999	(2)	(2)	--	--	1.0
	Nov/Dec 1999	(2)	(2)	--	--	4.0
	Mar/Apr 2000	(2)	(2)	--	--	1.8
	Jul/Aug 2000	--	--	--	--	2.1
	Jan/Feb 2001	--	--	--	--	- 10
	April 2001	(2)	(2)	--	--	31
Screen 3	Aug/Sep 1996	--	--	NS	NS	4.2
	Oct/Nov 1996	--	0.002	NS	--	4.0
	Feb/Mar 1997	--	--	0.015	0.007	3.3
	Jun/Jul 1997	--	--	--	--	3.9
	Sep/Oct 1997	--	--	--	--	2.1
	Jan/Feb 1998	--	--	--	--	0.6
	Apr/May 1998	--	--	0.012	0.007	0.04
	Jul/Aug 1998	--	--	0.014	--	2.3
	Oct/Nov 1998	--	--	--	--	1.7
	Feb/Mar 1999	--	--	--	0.007	1.2
	May/Jun 1999	--	--	--	--	2.1
	Aug 1999	(2)	(2)	--	--	0.8
	Nov/Dec 1999	(2)	(2)	--	--	0.7

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	Mar/Apr 2000	(2)	(2)	--	--	0.2
	Jul/Aug 2000	--	--	--	--	0.1
	Jan/Feb 2001	--	--	0.0075 J	--	27
	April 2001	(2)	(2)	0.0069	--	35
Screen 4	Aug/Sep 1996	--	--	NS	NS	2.0
	Oct/Nov 1996	--	0.003	--	--	1.9
	Feb/Mar 1997	--	--	--	--	2.8
	Jun/Jul 1997	0.005	--	--	--	3.6
	Sep/Oct 1997	--	--	--	--	1.1
	Jan/Feb 1998	--	--	--	--	2.2
	Apr/May 1998	--	--	--	--	0.04
	Jul/Aug 1998	--	--	--	--	2.5
	Oct/Nov 1998	--	--	--	--	4.6
	Feb/Mar 1999	--	--	--	--	2.7
	May/Jun 1999	--	--	--	--	3.0
	Aug 1999	(2)	(2)	--	--	0.7
	Nov/Dec 1999	(2)	(2)	--	--	1.4
	Mar/Apr 2000	(2)	(2)	--	--	2.3
	Jul/Aug 2000	--	--	--	--	0.4
	Jan/Feb 2001	--	--	--	--	2
	April 2001	(2)	(2)	--	--	31
Screen 5	Aug/Sep 1996	--	--	NS	NS	2.8
	Oct/Nov 1996	--	0.002	--	--	3.6
	Feb/Mar 1997	--	--	--	--	2.9
	Jun/Jul 1997	--	--	--	--	4.0
	Sep/Oct 1997	--	--	--	--	1.7
	Jan/Feb 1998	--	--	--	--	1.6
	Apr/May 1998	--	--	--	--	0.1
	Jul/Aug 1998	--	--	--	--	1.1
	Oct/Nov 1998	--	--	--	--	2.8
	Feb/Mar 1999	--	--	--	--	2.0
	May/Jun 1999	--	--	--	--	2.4
	Aug 1999	(2)	(2)	(2)	(2)	0.6
	Nov/Dec 1999	(2)	(2)	--	--	2.3
	Mar/Apr 2000	(2)	(2)	(2)	(2)	2.3
	Jul/Aug 2000	--	--	--	--	1.8
	Jan/Feb 2001	--	--	--	--	11
	April 2001	(2)	(2)	(2)	--	35
MW-19						
Screen 1	Aug/Sep 1996	--	--	NS	NS	5.0
	Oct/Nov 1996	--	--	--	--	3.4
	Feb/Mar 1997	--	--	--	--	6.6
	Jun/Jul 1997	--	--	--	--	0.8
	Sep/Oct 1997	--	--	--	--	4.6
	Jan/Feb 1998	--	--	--	--	4.7
	Apr/May 1998	--	--	--	--	2.2
	Jul/Aug 1998	--	--	--	--	4.9
	Oct/Nov 1998	--	--	--	--	13.0
	Feb/Mar 1999	--	--	--	--	5.0
	May/Jun 1999	--	--	--	--	5.0

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	Aug 1999	(2)	(2)	(2)	(2)	1.1
	Nov/Dec 1999	(2)	(2)	--	--	4.9
	Mar/Apr 2000	(2)	(2)	(2)	(2)	1.8
	Jul/Aug 2000	--	--	--	--	0.8
	Jan/Feb 2001	--	--	--	--	10
	April 2001	(2)	(2)	(2)	(2)	35
Screen 2	Aug/Sep 1996	--	--	NS	NS	4.5
	Oct/Nov 1996	--	--	--	--	3.6
	Feb/Mar 1997	--	--	--	--	22
	Jun/Jul 1997	--	--	--	--	2.8
	Sep/Oct 1997	--	--	--	--	4.6
	Jan/Feb 1998	--	--	--	--	4.7
	Apr/May 1998	--	--	--	--	2.3
	Jul/Aug 1998	--	--	--	--	4.9
	Oct/Nov 1998	--	--	--	--	4.8
	Feb/Mar 1999	--	--	--	--	3.9
	May/June 1999	--	--	--	--	2.3
	Aug 1999	(2)	(2)	(2)	(2)	0.1
	Nov/Dec 1999	(2)	(2)	--	--	1.5
	Mar/Apr 2000	(2)	(2)	(2)	(2)	1.9
	Jul/Aug 2000	--	--	--	--	0.3
	Jan/Feb 2001	--	--	--	--	21
	April 2001	(2)	(2)	(2)	(2)	35
Screen 3	Aug/Sep 1996	--	--	NS	NS	3.0
	Oct/Nov 1996	--	--	--	--	5.0
	Feb/Mar 1997	--	--	--	--	4.9
	Jun/Jul 1997	--	--	--	--	4.9
	Sep/Oct 1997	--	--	--	--	2.0
	Jan/Feb 1998	--	--	--	--	4.1
	Apr/May 1998	--	--	--	--	2.4
	Jul/Aug 1998	--	--	--	--	3.9
	Oct/Nov 1998	--	--	--	--	3.4
	Feb/Mar 1999	--	--	--	--	4.1
	May/June 1999	--	--	--	--	2.5
	Aug 1999	(2)	(2)	(2)	(2)	0.2
	Nov/Dec 1999	(2)	(2)	--	--	3.8
	Mar/Apr 2000	(2)	(2)	(2)	(2)	2.8
	Jul/Aug 2000	--	--	--	--	5.4
	Jan/Feb 2001	--	--	0.00608 J	--	1
	April 2001	(2)	(2)	(2)	(2)	21
Screen 4	Aug/Sep 1996	--	--	NS	NS	4.2
	Oct/Nov 1996	--	--	--	--	8.0
	Feb/Mar 1997	--	0.003	--	--	16
	Jun/Jul 1997	--	--	--	--	4.9
	Sep/Oct 1997	--	--	--	--	4.8
	Jan/Feb 1998	--	--	--	--	4.8
	Apr/May 1998	--	--	--	--	4.8
	Jul/Aug 1998	--	--	--	--	4.6
	Oct/Nov 1998	--	--	--	--	1.5
	Feb/Mar 1999	--	--	--	--	4.4

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	May/Jun 1999	--	--	--	--	1.7
	Aug 1999	(2)	(2)	(2)	(2)	1.0
	Nov/Dec 1999	(2)	(2)	--	--	3.1
	Mar/Apr 2000	(2)	(2)	(2)	(2)	0.7
	Jul/Aug 2000	--	--	--	--	2.3
	Jan/Feb 2001	0.0032 B	--	--	--	- 8
	April 2001	(2)	(2)	(2)	(2)	40
	Screen 5					
	Aug/Sep 1996	--	--	NS	NS	4.9
	Oct/Nov 1996	--	--	NS	--	4.6
	Feb/Mar 1997	--	--	--	--	3.8
	Jun/Jul 1997	--	--	--	--	2.2
	Sep/Oct 1997	--	--	--	--	5.0
	Jan/Feb 1998	--	--	--	--	4.0
	Apr/May 1998	--	--	--	--	4.6
	Jul/Aug 1998	--	0.010	--	--	4.8
	Oct/Nov 1998	--	--	--	--	2.5
	Feb/Mar 1999	--	--	--	--	4.4
	May/Jun 1999	--	--	--	--	1.7
	Aug 1999	(2)	(2)	(2)	(2)	0.8
	Nov/Dec 1999	(2)	(2)	--	--	1.0
	Mar/Apr 2000	(2)	(2)	(2)	(2)	1.0
	Jul/Aug 2000	--	--	--	--	0.2
	Jan/Feb 2001	--	--	--	--	- 10
	April 2001	(2)	(2)	(2)	(2)	32
MW-20						
Screen 1	Aug/Sep 1996	--	--	--	NS	3.5
	Oct/Nov 1996	(5)	(5)	(5)	(5)	(5)
	Feb/Mar 1997	--	--	--	--	2.3
	Jun/Jul 1997	--	--	--	--	0.2
	Sep/Oct 1997	(5)	(5)	(5)	(5)	(5)
	Jan/Feb 1998	--	--	--	--	3.2
	Apr/May 1998	--	--	--	--	2.9
	Jul/Aug 1998	--	--	--	--	3.2
	Oct/Nov 1998	--	--	--	--	1.3
	Feb/Mar 1999	--	--	--	--	0.5
	May/Jun 1999	--	--	--	--	1.1
	Aug 1999	(2)	(2)	--	--	3.2
	Nov/Dec 1999	(2)	(2)	--	--	0.8
	Mar/Apr 2000	(2)	(2)	--	--	2.8
	Jul/Aug 2000	--	--	--	--	0.2
	Jan/Feb 2001	--	--	--	--	0
	April 2001	(2)	(2)	--	--	32
Screen 2	Aug/Sep 1996	--	--	NS	NS	3.9
	Oct/Nov 1996	--	--	--	--	1.1
	Feb/Mar 1997	--	--	--	--	2.1
	Jun/Jul 1997	--	--	--	--	2.5
	Sep/Oct 1997	--	--	--	--	3.6
	Jan/Feb 1998	--	--	--	--	0.4
	Apr/May 1998	--	--	--	--	1.4
	Jul/Aug 1998	--	--	--	--	1.3

TABLE 3-6
SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	Oct/Nov 1998	--	--	--	--	2.4
	Feb/Mar 1999	--	--	--	--	0.8
	May/June 1999	--	--	--	--	0.9
	Aug 1999	(2)	(2)	--	--	2.8
	Nov/Dec 1999	(2)	(2)	--	--	0.5
	Mar/Apr 2000	(2)	(2)	--	--	0.4
	Jul/Aug 2000	--	--	--	--	0.03
	Jan/Feb 2001	--	--	--	--	- 10
	April 2001	(2)	(2)	--	--	7
Screen 3	Aug/Sep 1996	--	--	NS	NS	1.7
	Oct/Nov 1996	--	--	--	--	1.6
	Feb/Mar 1997	--	--	--	--	1.9
	Jun/Jul 1997	--	--	--	--	2.1
	Sep/Oct 1997	--	--	--	--	4.6
	Jan/Feb 1998	--	--	--	--	2.2
	Apr/May 1998	--	--	--	--	1.3
	Jul/Aug 1998	--	--	--	--	0.7
	Oct/Nov 1998	--	--	--	--	2.7
	Feb/Mar 1999	--	0.009	--	--	0.1
	May/June 1999	--	--	--	--	1.0
	Aug 1999	(2)	(2)	--	--	0.7
	Nov/Dec 1999	(2)	(2)	--	--	0.3
	Mar/Apr 2000	(2)	(2)	--	--	0.3
	Jul/Aug 2000	--	--	--	--	0.1
	Jan/Feb 2001	--	--	--	--	8
	April 2001	(2)	(2)	--	--	32
Screen 4	Aug/Sep 1996	--	--	NS	NS	1.0
	Oct/Nov 1996	--	--	--	--	1.3
	Feb/Mar 1997	--	--	--	--	3.3
	Jun/Jul 1997	--	--	--	--	1.3
	Sep/Oct 1997	--	--	--	--	1.4
	Jan/Feb 1998	--	--	--	--	0.6
	Apr/May 1998	--	--	--	--	1.7
	Jul/Aug 1998	--	--	--	--	2.1
	Oct/Nov 1998	--	--	--	--	2.6
	Feb/Mar 1999	--	--	--	--	0.8
	May/June 1999	--	--	--	--	2.4
	Aug 1999	(2)	(2)	--	--	0.3
	Nov/Dec 1999	(2)	(2)	--	--	2.3
	Mar/Apr 2000	(2)	(2)	--	--	1.1
	Jul/Aug 2000	--	--	--	--	1.6
	Jan/Feb 2001	--	--	--	--	0
	April 2001	(2)	(2)	--	--	32
Screen 5	Aug/Sep 1996	--	--	NS	NS	1.8
	Oct/Nov 1996	--	--	NS	--	1.3
	Feb/Mar 1997	--	0.004	--	--	1.6
	Jun/Jul 1997	0.006	--	--	--	1.9
	Sep/Oct 1997	--	--	--	--	3.5
	Jan/Feb 1998	--	--	--	--	0.1
	Apr/May 1998	--	--	--	--	1.1

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	Jul/Aug 1998	--	--	--	--	3.3
	Oct/Nov 1998	--	--	--	--	1.6
	Feb/Mar 1999	--	--	--	--	1.0
	May/Jun 1999	--	--	--	--	2.7
	Aug 1999	(2)	(2)	--	--	1.7
	Nov/Dec 1999	(2)	(2)	--	--	1.1
	Mar/Apr 2000	(2)	(2)	--	--	0.4
	Jul/Aug 2000	--	--	--	--	2.3
	Jan/Feb 2001	--	--	--	--	7
	April 2001	(2)	(2)	--	--	31
MW-21						
Screen 1	Aug/Sep 1996	--	--	NS	NS	0.9
	Oct/Nov 1996	(5)	(5)	(5)	(5)	(5)
	Feb/Mar 1997	--	--	--	--	1.1
	Jun/Jul 1997	--	--	--	--	2.8
	Sep/Oct 1997	(5)	(5)	(5)	(5)	(5)
	Jan/Feb 1998	--	--	--	--	0.8
	Apr/May 1998	--	--	--	--	0.7
	Jul/Aug 1998	--	--	--	--	3.4
	Oct/Nov 1998	--	--	--	--	2.2
	Feb/Mar 1999	--	--	--	--	0.3
	May/Jun 1999	--	--	--	--	2.8
	Aug 1999	(2)	(2)	(2)	(2)	1.1
	Nov/Dec 1999	(2)	(2)	--	--	0.6
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(8)
	Jul/Aug 2000	--	--	--	--	0.2
	Jan/Feb 2001	--	--	0.0056 J	--	6
	April 2001	(2)	(2)	(2)	(2)	31
Screen 2	Aug/Sep 1996	--	--	NS	NS	2.1
	Oct/Nov 1996	--	--	--	--	1.2
	Feb/Mar 1997	--	--	--	--	3.9
	Jun/Jul 1997	--	--	--	--	1.7
	Sep/Oct 1997	--	--	--	--	0.8
	Jan/Feb 1998	--	--	--	--	0.6
	Apr/May 1998	--	--	--	--	1.8
	Jul/Aug 1998	--	--	--	--	3.9
	Oct/Nov 1998	--	--	--	--	3.5
	Feb/Mar 1999	--	--	--	--	0.04
	May/Jun 1999	--	--	--	--	0.8
	Aug 1999	(2)	(2)	(2)	(2)	1.6
	Nov/Dec 1999	(2)	(2)	--	--	2.1
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(8)
	Jul/Aug 2000	--	--	--	--	0.8
	Jan/Feb 2001	--	--	0.008 J	--	8
	April 2001	(2)	(2)	(2)	(2)	24
Screen 3	Aug/Sep 1996	--	--	NS	NS	4.6
	Oct/Nov 1996	--	--	--	--	4.9
	Feb/Mar 1997	--	0.003	--	--	4.6
	Jun/Jul 1997	--	--	--	--	1.4
	Sep/Oct 1997	--	--	--	--	3.2

TABLE 3-6
SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	Jan/Feb 1998	--	0.003	--	--	4.8
	Apr/May 1998	--	--	--	--	4.1
	Jul/Aug 1998	--	--	--	--	4.8
	Oct/Nov 1998	--	--	--	--	4.8
	Feb/Mar 1999	--	--	--	--	4.2
	May/Jun 1999	--	--	--	--	2.2
	Aug 1999	(2)	(2)	(2)	(2)	1.9
	Nov/Dec 1999	(2)	(2)	--	--	2.6
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(8)
	Jul/Aug 2000	--	--	--	--	1.2
	Jan/Feb 2001	--	--	0.0069 J	--	7
	April 2001	(2)	(2)	(2)	(2)	4
Screen 4	Aug/Sep 1996	--	--	NS	NS	2.5
	Oct/Nov 1996	--	--	--	--	3.3
	Feb/Mar 1997	--	0.004	--	--	4.4
	Jun/Jul 1997	--	--	--	--	2.5
	Sep/Oct 1997	--	--	--	--	4.5
	Jan/Feb 1998	--	--	--	--	1.1
	Apr/May 1998	--	--	--	--	4.6
	Jul/Aug 1998	--	--	--	--	2.4
	Oct/Nov 1998	--	--	--	--	4.4
	Feb/Mar 1999	--	--	--	--	13.1
	May/Jun 1999	--	--	--	--	7.6
	Aug 1999	(2)	(2)	(2)	(2)	0.5
	Nov/Dec 1999	(2)	(2)	--	--	2.8
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(8)
	Jul/Aug 2000	--	--	--	--	6.2
	Jan/Feb 2001	--	--	0.006 J	--	9
	April 2001	(2)	(2)	(2)	(2)	0
Screen 5	Aug/Sep 1996	--	--	NS	NS	4.9
	Oct/Nov 1996	--	--	--	--	5.0
	Feb/Mar 1997	--	--	--	--	28
	Jun/Jul 1997	--	--	--	--	26
	Sep/Oct 1997	--	--	--	--	12
	Jan/Feb 1998	--	--	--	--	4.9
	Apr/May 1998	--	--	--	--	4.6
	Jul/Aug 1998	--	--	--	--	4.2
	Oct/Nov 1998	--	--	--	--	14.0
	Feb/Mar 1999	--	--	--	--	4.3
	May/Jun 1999	--	--	--	--	3.3
	Aug 1999	(2)	(2)	(2)	(2)	1.9
	Nov/Dec 1999	(2)	(2)	--	--	4.8
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(8)
	Jul/Aug 2000	--	--	--	--	3.0
	Jan/Feb 2001	--	--	0.006 J	--	6

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	April 2001	(2)	(2)	(2)	(2)	8
MW-22⁽⁷⁾						
Screen 1	Sep/Oct 1997	--	--	--	--	34
	Jan/Feb 1998	--	--	--	--	4.5
	Apr/May 1998	--	--	--	--	4.6
	Jul/Aug 1998	--	--	--	--	4.8
	Oct/Nov 1998	--	--	--	--	4.0
	Feb/Mar 1999	--	--	--	--	20.1
	May/Jun 1999	--	--	--	--	37.6
	Aug 1999	(2)	(2)	--	--	4.8
	Nov/Dec 1999	(2)	(2)	--	--	8.1
	Mar/Apr 2000	(2)	(2)	--	--	15.5
	Jul/Aug 2000	--	--	--	--	15.8
	Jan/Feb 2001	--	--	0.006 J	--	9
	April 2001	(2)	(2)	0.0069	--	32
Screen 2	Sep/Oct 1997	--	--	--	--	4.9
	Jan/Feb 1998	--	--	--	--	4.2
	Apr/May 1998	--	--	--	--	4.7
	Jul/Aug 1998	--	--	--	--	4.4
	Oct/Nov 1998	--	--	--	--	4.1
	Feb/Mar 1999	--	--	--	--	8.1
	May/Jun 1999	--	--	--	--	4.5
	Aug 1999	(2)	(2)	--	--	8.5
	Nov/Dec 1999	(2)	(2)	--	--	2.1
	Mar/Apr 2000	(2)	(2)	--	--	0.8
	Jul/Aug 2000	--	--	--	--	0.6
	Jan/Feb 2001	--	--	--	--	917
	April 2001	(2)	(2)	--	--	32
Screen 3	Sep/Oct 1997	--	--	--	--	3.0
	Jan/Feb 1998	--	--	--	--	3.8
	Apr/May 1998	--	--	--	--	2.9
	Jul/Aug 1998	--	--	--	--	4.9
	Oct/Nov 1998	--	--	--	--	3.5
	Feb/Mar 1999	--	--	--	--	5.2
	May/Jun 1999	--	--	--	--	3.7
	Aug 1999	(2)	(2)	(2)	(2)	5.1
	Nov/Dec 1999	(2)	(2)	--	--	4.9
	Mar/Apr 2000	(2)	(2)	(2)	(2)	6.0
	Jul/Aug 2000	--	--	--	--	0.5
	Jan/Feb 2001	--	--	0.0056 J	--	7
	April 2001	(2)	(2)	(2)	(2)	32
Screen 4	Sep/Oct 1997	--	--	--	--	2.8
	Jan/Feb 1998	--	--	--	--	3.7
	Apr/May 1998	--	--	--	--	3.0
	Jul/Aug 1998	--	--	--	--	4.0
	Oct/Nov 1998	--	--	--	--	4.3
	Feb/Mar 1999	--	--	--	--	5.1
	May/Jun 1999	--	--	--	--	4.1
	Aug 1999	(2)	(2)	(2)	(2)	2.8

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
Screen 5	Nov/Dec 1999	(2)	(2)	--	--	4.9
	Mar/Apr 2000	(2)	(2)	(2)	(2)	2.4
	Jul/Aug 2000	--	--	--	--	0.8
	Jan/Feb 2001	--	--	--	--	2
	April 2001	(2)	(2)	(2)	(2)	39
	Sep/Oct 1997	--	--	--	--	4.4
	Jan/Feb 1998	--	--	--	--	2.8
	Apr/May 1998	--	--	--	--	2.9
	Jul/Aug 1998	--	--	--	--	2.3
	Oct/Nov 1998	--	--	--	--	3.3
	Feb/Mar 1999	--	--	--	--	2.6
	May/Jun 1999	--	--	--	--	4.7
	Aug 1999	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	(2)	(2)	--	--	0.6
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)
MW-23 ⁽⁷⁾	Jul/Aug 2000	--	--	--	--	0.4
	Jan/Feb 2001	--	--	--	--	8
	April 2001	(2)	(2)	(2)	(2)	(2)
	Sep/Oct 1997	--	--	--	--	3.4
	Jan/Feb 1998	--	--	--	--	4.1
	Apr/May 1998	--	--	--	--	4.5
	Jul/Aug 1998	--	--	--	--	4.0
	Oct/Nov 1998	--	--	--	--	6.3
	Feb/Mar 1999	--	--	--	--	4.2
	May/Jun 1999	--	--	--	--	7.0
	Aug 1999	(2)	(2)	--	--	9.4
	Nov/Dec 1999	(2)	(2)	--	--	35.0
	Mar/Apr 2000	(2)	(2)	--	--	44.2
	Jul/Aug 2000	--	--	--	--	13.1
	Jan/Feb 2001	--	--	0.00619 J	--	- 1
	April 2001	(2)	(2)	0.0072	--	35
Screen 2	Sep/Oct 1997	--	--	--	--	4.9
	Jan/Feb 1998	--	--	--	--	4.9
	Apr/May 1998	--	--	--	--	4.7
	Jul/Aug 1998	--	--	--	--	3.4
	Oct/Nov 1998	--	--	--	--	4.1
	Feb/Mar 1999	--	--	--	--	2.5
	May/Jun 1999	--	--	--	--	7.3
	Aug 1999	(2)	(2)	--	--	1.5
	Nov/Dec 1999	(2)	(2)	--	--	1.8
	Mar/Apr 2000	(2)	(2)	--	--	1.9
	Jul/Aug 2000	--	--	--	--	1.7
	Jan/Feb 2001	--	--	0.0056 J	--	8
	April 2001	(2)	(2)	0.0057	--	31
Screen 3	Sep/Oct 1997	--	--	--	--	3.0
	Jan/Feb 1998	--	--	--	--	4.6
	Apr/May 1998	--	--	--	--	4.6
	Jul/Aug 1998	--	--	--	--	4.7

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	Oct/Nov 1998	--	--	--	--	4.5
	Feb/Mar 1999	--	--	--	--	4.3
	May/Jun 1999	--	--	--	--	7.5
	Aug 1999	(2)	(2)	--	--	13.1
	Nov/Dec 1999	(2)	(2)	--	--	3.0
	Mar/Apr 2000	(2)	(2)	--	--	1.6
	Jul/Aug 2000	--	--	--	--	2.7
	Jan/Feb 2001	--	--	0.0054 J	--	0
	April 2001	(2)	(2)	0.0055	--	30
Screen 4	Sep/Oct 1997	--	--	--	--	4.9
	Jan/Feb 1998	--	--	--	--	4.5
	Apr/May 1998	--	--	--	--	4.9
	Jul/Aug 1998	--	--	--	--	4.6
	Oct/Nov 1998	--	--	--	--	4.2
	Feb/Mar 1999	--	--	--	--	5.1
	May/Jun 1999	--	--	--	--	2.0
	Aug 1999	(2)	(2)	--	--	4.2
	Nov/Dec 1999	(2)	(2)	--	--	3.6
	Mar/Apr 2000	(2)	(2)	--	--	1.0
	Jul/Aug 2000	--	--	--	--	0.8
	Jan/Feb 2001	--	--	--	--	- 2
	April 2001	(2)	(2)	--	--	31
Screen 5	Sep/Oct 1997	--	--	--	--	1.8
	Jan/Feb 1998	--	--	--	--	1.8
	Apr/May 1998	--	--	--	--	2.4
	Jul/Aug 1998	--	--	--	--	1.7
	Oct/Nov 1998	--	--	--	--	2.5
	Feb/Mar 1999	--	--	--	--	3.2
	May/Jun 1999	--	--	--	--	2.4
	Aug 1999	(2)	(2)	(2)	(2)	1.7
	Nov/Dec 1999	(2)	(2)	--	--	1.7
	Mar/Apr 2000	(2)	(2)	(2)	(2)	3.0
	Jul/Aug 2000	--	--	--	--	1.4
	Jan/Feb 2001	--	--	--	--	- 10
	April 2001	(2)	(2)	(2)	(2)	473
MW-24⁽⁷⁾						
Screen 1	Sep/Oct 1997	--	--	--	--	1.6
	Jan/Feb 1998	--	--	--	--	3.8
	Apr/May 1998	--	--	--	--	2.7
	Jul/Aug 1998	--	--	--	--	4.9
	Oct/Nov 1998	--	--	--	--	3.8
	Feb/Mar 1999	--	--	--	--	7.6
	May/Jun 1999	--	--	--	--	4.3
	Aug 1999	(2)	(2)	--	--	9.7
	Nov/Dec 1999	(2)	(2)	--	--	1.1
	Mar/Apr 2000	(2)	(2)	--	--	3.8
	Jul/Aug 2000	--	--	--	--	0.8

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
Screen 2	Jan/Feb 2001	--	--	0.0061 J	--	10
	April 2001	(2)	(2)	0.0057	--	31
	Sep/Oct 1997	--	--	--	--	4.4
	Jan/Feb 1998	--	--	--	--	4.9
	Apr/May 1998	--	--	--	--	4.5
	Jul/Aug 1998	--	--	--	--	4.8
	Oct/Nov 1998	--	--	--	--	8.3
	Feb/Mar 1999	--	--	--	--	4.2
	May/June 1999	--	--	--	--	5.4
	Aug 1999	(2)	(2)	--	--	33.8
	Nov/Dec 1999	(2)	(2)	--	--	23.8
	Mar/Apr 2000	(2)	(2)	--	--	19.2
	Jul/Aug 2000	--	--	--	--	14.1
	Jan/Feb 2001	--	--	--	--	10
	April 2001	(2)	(2)	--	--	131
Screen 3	Sep/Oct 1997	--	--	--	--	4.6
	Jan/Feb 1998	0.006	--	--	--	4.7
	Apr/May 1998	--	--	--	--	4.9
	Jul/Aug 1998	--	--	--	--	4.9
	Oct/Nov 1998	--	--	--	--	7.8
	Feb/Mar 1999	0.006	--	0.013	--	34.8
	May/June 1999	--	--	--	--	27.2
	Aug 1999	(2)	(2)	--	--	25.2
	Nov/Dec 1999	(2)	(2)	--	--	45.5
	Mar/Apr 2000	(2)	(2)	--	--	18.9
	Jul/Aug 2000	--	--	--	--	6.9
	Jan/Feb 2001	--	--	--	--	10
	April 2001	(2)	(2)	--	--	22
Screen 4	Sep/Oct 1997	--	--	--	--	4.0
	Jan/Feb 1998	--	--	--	--	4.9
	Apr/May 1998	--	--	--	--	4.3
	Jul/Aug 1998	--	--	--	--	4.8
	Oct/Nov 1998	--	--	--	--	8.3
	Feb/Mar 1999	--	0.003	--	--	6.1
	May/June 1999	--	--	--	--	10.0
	Aug 1999	(2)	(2)	--	--	10.5
	Nov/Dec 1999	(2)	(2)	--	--	14.7
	Mar/Apr 2000	(2)	(2)	--	--	9.5
	Jul/Aug 2000	--	--	--	--	4.9
	Jan/Feb 2001	--	--	--	--	10
	April 2001	(2)	(2)	--	--	6
Screen 5	Sep/Oct 1997	--	--	--	--	4.8
	Jan/Feb 1998	--	--	--	--	4.8
	Apr/May 1998	--	--	--	--	4.0
	Jul/Aug 1998	--	--	--	--	4.0
	Oct/Nov 1998	--	--	--	--	8.0
	Feb/Mar 1999	--	--	--	--	5.7
	May/June 1999	--	--	--	--	5.8
	Aug 1999	(2)	(2)	(2)	(2)	(2)
	Nov/Dec 1999	(2)	(2)	--	--	12.0

TABLE 3-6

**SUMMARY OF METALS DETECTED DURING THE
JPL MONITORING PROGRAM,
JET PROPULSION LABORATORY**

(concentrations in mg/L)

Values above state or Federal MCLs, or above/equal to action levels, are bold and shaded

Sample Location	Sampling Date	Arsenic	Lead	Total Chromium	Hexavalent Chromium	Field Turbidity (NTUs)
	Mar/Apr 2000	(2)	(2)	(2)	(2)	(2)
	Jul/Aug 2000	--	--	--	--	16.1
	Jan/Feb 2001	--	--	0.0052 J	--	9
	April 2001	(2)	(2)	(2)	(2)	(2)
Practical Quantitation Limit		0.005	0.002	0.010	0.005	
Calif. Maximum Contaminant Level		0.05	(9)	0.05	NE	
EPA Maximum Contaminant Level		0.05	(9)	0.10	NE	

--: Not detected.

NS: Not sampled.

NE: Not established.

J: Reported between the practical quantitation limit and the method detection limit.

- 1: Probable lab error. MW-1 is always upgradient of the site, and Cr contamination is not believed to be present upgradient of the site.
- 2: Monitoring point not sampled for the particular constituent due to changes in the sampling program as agreed to by the EPA, DTSC, and RWQCB.
- 3: Believed to be a laboratory error.
- 4: Result from original analysis; duplicate sample was non-detect.
- 5: Not sampled, no water over screen.
- 6: Not sampled due to mechanical failure.
- 7: Wells installed June-August 1997.
- 8: Turbidity not measured due to equipment failure.
- 9: Treatment technique and public notification triggered at Action Level of 0.015 mg/L.

TABLE 5-1
GROUNDWATER MONITORING WELL WATER LEVEL MEASUREMENTS
APRIL 3, 2001

Well Number	Screen Number	Date Measured	Depth to Water (ft.)	Reference Elevation (ft. +MSL)	Water Level Elevation (ft. +MSL)
MW-1		4/3/01	22.29	1116.69	1094.40
MW-3	1 (top)	4/3/01	94.29	1100.34	1006.05
	2	4/3/01	106.57	1100.34	993.77
	3	4/3/01	110.12	1100.34	990.22
	4	4/3/01	164.07	1100.34	936.27
	5	4/3/01	192.85	1100.34	907.49
MW-4	1 (top)	4/3/01	68.62	1082.84	1014.22
	2	4/3/01	87.34	1082.84	995.50
	3	4/3/01	90.62	1082.84	992.22
	4	4/3/01	97.26	1082.84	985.58
	5	4/3/01	148.06	1082.84	934.78
MW-5		4/3/01	59.91	1071.62	1011.71
MW-6		4/3/01	181.83	1188.54	1006.71
MW-7		Not measured - pilot test			
MW-8		4/3/01	126.96	1139.55	1012.59
MW-9		4/3/01	18.70	1106.06	1087.36
MW-10		4/3/01	81.10	1087.73	1006.63
MW-11	1 (top)	4/3/01	107.59	1139.30	1031.71
	2	4/3/01	133.01	1139.30	1006.29
	3	4/3/01	146.78	1139.30	992.52
	4	4/3/01	151.45	1139.30	987.85
	5	4/3/01	195.78	1139.30	943.52
MW-12	1 (top)	4/3/01	80.39	1102.14	1021.75
	2	4/3/01	102.90	1102.14	999.24
	3	4/3/01	106.61	1102.14	995.53
	4	4/3/01	117.33	1102.14	984.81
	5	4/3/01	159.20	1102.14	942.94
MW-13		4/3/01	175.62	1183.49	1007.87
MW-14	1 (top)	4/3/01	165.80	1173.47	1007.67
	2	4/3/01	165.64	1173.47	1007.83
	3	4/3/01	165.56	1173.47	1007.91
	4	4/3/01	165.62	1173.47	1007.85
	5	4/3/01	166.10	1173.47	1007.37
MW-15		4/3/01	28.81	1120.68	1091.87
MW-16		4/3/01	228.5	1236.29	1007.79
MW-17	1 (top)	4/3/01	248.49	1191.21	942.72
	2	4/3/01	208.23	1191.21	982.98
	3	4/3/01	224.14	1191.21	967.07
	4	4/3/01	252.28	1191.21	938.93
	5	4/3/01	259.86	1191.21	931.35

TABLE 5-1
GROUNDWATER MONITORING WELL WATER LEVEL MEASUREMENTS
APRIL 3, 2001

Well Number	Screen Number	Date Measured	Depth to Water (ft.)	Reference Elevation (ft. +MSL)	Water Level Elevation (ft. +MSL)
MW-18	1 (top)	4/3/01	236.36	1225.41	989.05
	2	4/3/01	237.84	1225.41	987.57
	3	4/3/01	240.73	1225.41	984.68
	4	4/3/01	263.64	1225.41	961.77
	5	4/3/01	273.85	1225.41	951.56
MW-19	1 (top)	4/3/01	156.05	1142.94	986.89
	2	4/3/01	166.53	1142.94	976.41
	3	4/3/01	169.08	1142.94	973.86
	4	4/3/01	234.42	1142.94	908.52
	5	4/3/01	238.12	1142.94	904.82
MW-20	1 (top)	4/3/01	198.17	1165.05	966.88
	2	4/3/01	196.78	1165.05	968.27
	3	4/3/01	202.25	1165.05	962.80
	4	4/3/01	209.77	1165.05	955.28
	5	4/3/01	196.50	1165.05	968.55
MW-21	1 (top)	4/3/01	57.72	1059.10	1001.38
	2	4/3/01	57.34	1059.10	1001.76
	3	4/3/01	57.73	1059.10	1001.37
	4	4/3/01	57.87	1059.10	1001.23
	5	4/3/01	57.96	1059.10	1001.14
MW-22	1 (top)	4/3/01	171.00	1176.98	1005.98
	2	4/3/01	173.23	1176.98	1003.75
	3	4/3/01	173.23	1176.98	1003.75
	4	4/3/01	185.96	1176.98	991.02
	5	4/3/01	193.84	1176.98	983.14
MW-23	1 (top)	4/3/01	102.69	1108.84	1006.15
	2	4/3/01	108.35	1108.84	1000.49
	3	4/3/01	109.18	1108.84	999.66
	4	4/3/01	124.83	1108.84	984.01
	5	4/3/01	125.26	1108.84	983.58
MW-24	1 (top)	4/3/01	191.21	1200.94	1009.73
	2	4/3/01	199.94	1200.94	1001.00
	3	4/3/01	203.22	1200.94	997.72
	4	4/3/01	220.95	1200.94	979.99
	5	4/3/01	236.53	1200.94	964.41

TABLE 5-2
GROUNDWATER MONITORING WELL WATER LEVEL MEASUREMENTS
MAY 1, 2001

Well Number	Screen Number	Date Measured	Depth to Water (ft.)	Reference Elevation (ft. +MSL)	Water Level Elevation (ft. +MSL)
MW-1		5/1/01	22.82	1116.69	1093.87
MW-3	1 (top)	5/1/01	89.35	1100.34	1010.99
	2	5/1/01	97.28	1100.34	1003.06
	3	5/1/01	99.17	1100.34	1001.17
	4	5/1/01	124.38	1100.34	975.96
	5	5/1/01	128.22	1100.34	972.12
MW-4	1 (top)	5/1/01	66.70	1082.84	1016.14
	2	5/1/01	78.73	1082.84	1004.11
	3	5/1/01	80.63	1082.84	1002.21
	4	5/1/01	83.78	1082.84	999.06
	5	5/1/01	107.91	1082.84	974.93
MW-5		5/1/01	57.58	1071.62	1014.04
MW-6		5/1/01	176.33	1188.54	1012.21
MW-7		Not measured (pilot test)			
MW-8		5/1/01	123.23	1139.55	1016.32
MW-9		5/1/01	19.3	1106.06	1086.76
MW-10		5/1/01	77.12	1087.73	1010.61
MW-11	1 (top)	5/1/01	104.44	1139.30	1034.86
	2	5/1/01	126.63	1139.30	1012.67
	3	5/1/01	135.76	1139.30	1003.54
	4	5/1/01	136.63	1139.30	1002.67
	5	5/1/01	161.92	1139.30	977.38
MW-12	1 (top)	5/1/01	79.75	1102.14	1022.39
	2	5/1/01	95.18	1102.14	1006.96
	3	5/1/01	97.57	1102.14	1004.57
	4	5/1/01	102.69	1102.14	999.45
	5	5/1/01	122.77	1102.14	979.37
MW-13		5/1/01	171.05	1183.49	1012.44
MW-14	1 (top)	5/1/01	160.84	1173.47	1012.63
	2	5/1/01	160.90	1173.47	1012.57
	3	5/1/01	161.04	1173.47	1012.43
	4	5/1/01	160.92	1173.47	1012.55
	5	5/1/01	160.84	1173.47	1012.63
MW-15		5/1/01	29.28	1120.68	1091.40
MW-16		5/1/01	223.46	1236.29	1012.83
MW-17	1 (top)	5/1/01	246.99	1191.21	944.22
	2	5/1/01	195.39	1191.21	995.82
	3	5/1/01	202.85	1191.21	988.36
	4	5/1/01	218.28	1191.21	972.93
	5	5/1/01	221.98	1191.21	969.23

TABLE 5-2
GROUNDWATER MONITORING WELL WATER LEVEL MEASUREMENTS
MAY 1, 2001

Well Number	Screen Number	Date Measured	Depth to Water (ft.)	Reference Elevation (ft. +MSL)	Water Level Elevation (ft. +MSL)
MW-18	1 (top)	5/1/01	228.85	1225.41	996.56
	2	5/1/01	229.54	1225.41	995.87
	3	5/1/01	229.40	1225.41	996.01
	4	5/1/01	242.55	1225.41	982.86
	5	5/1/01	250.08	1225.41	975.33
MW-19	1 (top)	5/1/01	151.70	1142.94	991.24
	2	5/1/01	156.19	1142.94	986.75
	3	5/1/01	157.14	1142.94	985.80
	4	5/1/01	198.78	1142.94	944.16
	5	5/1/01	202.50	1142.94	940.44
MW-20	1 (top)	5/1/01	190.56	1165.05	974.49
	2	5/1/01	188.54	1165.05	976.51
	3	5/1/01	190.03	1165.05	975.02
	4	5/1/01	193.14	1165.05	971.91
	5	5/1/01	189.45	1165.05	975.60
MW-21	1 (top)	5/1/01	52.73	1059.10	1006.37
	2	5/1/01	52.12	1059.10	1006.98
	3	5/1/01	52.58	1059.10	1006.52
	4	5/1/01	53.79	1059.10	1005.31
	5	5/1/01	53.89	1059.10	1005.21
MW-22	1 (top)	5/1/01	165.54	1176.98	1011.44
	2	5/1/01	166.68	1176.98	1010.30
	3	5/1/01	166.77	1176.98	1010.21
	4	5/1/01	173.24	1176.98	1003.74
	5	5/1/01	177.52	1176.98	999.46
MW-23	1 (top)	5/1/01	97.86	1108.84	1010.98
	2	5/1/01	101.16	1108.84	1007.68
	3	5/1/01	101.56	1108.84	1007.28
	4	5/1/01	109.45	1108.84	999.39
	5	5/1/01	109.84	1108.84	999.00
MW-24	1 (top)	5/1/01	186.70	1200.94	1014.24
	2	5/1/01	192.95	1200.94	1007.99
	3	5/1/01	195.01	1200.94	1005.93
	4	5/1/01	203.73	1200.94	997.21
	5	5/1/01	211.34	1200.94	989.60

