FEBRUARY AND MARCH 2002 BASELINE GROUNDWATER MONITORING REPORT

1212 THOMAS AVENUE SAN FRANCISCO, CALIFORNIA

Prepared for
Bay Area Drum *Ad Hoc* PRP Group

May 2002

URS
500 12th Street, Suite 200
Oakland, California 94607

51-00270002.00

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51-00270002.00

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May 17, 2002
Project 51-00270002.00/00004

Ms. Barbara J. Cook
Attn: Mr. William Brown
Department of Toxic Substances Control – Region 2
700 Heinz Avenue, Suite 200
Berkeley, California 94710-2737

VIA FEDERAL EXPRESS

Project: Groundwater Monitoring Report – February/March 2002 Oxygen Releasing Compound® (ORC®) Baseline Groundwater Monitoring
1212 Thomas Avenue Site
San Francisco, California

Dear Ms. Cook:

This letter report presents results of the February and March 2002 baseline groundwater monitoring event conducted at the former Bay Area Drum facility (the Facility) located at 1212 Thomas Avenue (the Site) in San Francisco, California (Figure 1). The monitoring was conducted by URS Corporation (URS), with assistance from Environmental Sampling Services (ESS) of Martinez, California. Groundwater monitoring was conducted in accordance with requirements prescribed in the Settlement Agreement and Consent Decree between members of the Bay Area Drum *Ad Hoc* PRP Group (the "Group") and the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) dated July 11, 2001. The work was conducted on behalf of the Group in accordance with the DTSC-approved *Remedial Design and Implementation Plan* (RDIP) (Geomatrix Consultants, Inc. [Geomatrix], 2001) and *Operation and Maintenance Plan for Groundwater* (OMPG) (Geomatrix, 2002).

This baseline groundwater monitoring event occurred prior to the injection of Oxygen Releasing Compound (ORC®) into the subsurface. The ORC® was injected in March 2002 to enhance natural attenuation of certain constituents in the groundwater. The results and findings from the baseline groundwater monitoring event will be compared to results and findings from future sampling events.

As part of the baseline groundwater monitoring event, URS collected groundwater samples from the 12 performance assessment monitoring wells specified in the OMPG (Geomatrix, 2002). Three of the 12 monitoring wells (RD-1, RD-2, RD-3) were installed by URS in February 2002 (see Figure 2). One of the three monitoring wells, RD-1, was originally installed in an incorrect location. The incorrect well was abandoned and a new well was installed in the correct location. The monitoring wells were constructed according to the OMPG and City and County of San Francisco Department of Public Health (DPH) requirements (the construction details for these three monitoring wells are presented in

Appendix A). Well construction reports required by the California Department of Water Resources are also provided in Appendix A. All of the performance assessment monitoring wells are listed in Table 1 and shown on Figure 2.

In addition, eight monitoring wells that were not to be used as part of the performance assessment network and the incorrectly located well were destroyed by URS in April 2002. The eight wells that were not to be used as part of the performance network were B-205, B-206, DMMW-6, DMMW-7, DMMW-8, DMMW-9, DMMW-10, and MW-101 (see Figure 1). The monitoring wells were destroyed according to the City and County of San Francisco DPH requirements. Well destruction reports required by the California Department of Water Resources are provided in Appendix A.

SUMMARY OF MAJOR FINDINGS

The results from the work reported herein indicate:

- Groundwater flow direction is toward the south-southwest from the Facility and is consistent with historical patterns.

- Generally, concentrations of detectable volatile organic compounds (VOCs) in groundwater in most wells decreased from or remained approximately the same as concentrations detected in previous monitoring events dating back to August 1995.

- The concentration of tetrachloroethene (PCE) in the groundwater sample collected from MW-104 increased from 3,200 micrograms per liter (µg/L) (May 2001) to 8,000 µg/L detected during this sampling event. During the sampling event previous to May 2001 (i.e., November 2000), the concentration of PCE in MW-104 was 6,000 µg/L. Well MW-104 is located northeast of the Facility, and PCE is the only VOC detected in groundwater from the well. The location of this well relative to the Facility and the apparently different groundwater chemistry in this well compared to other wells has been interpreted to indicate that the PCE detected in MW-104 did not originate from the Site (Harding Lawson Associates [HLA], Groundwater Monitoring Report, May 2000, 1212 Thomas Avenue Site).

- Low concentrations of PCE have also been detected in wells B-27 and DMMW-5, located near MW-104. As discussed in the December 15, 1999 Remedial Investigation Report (RI), PCE detected in wells B-27, DMMW-5, and MW-104

indicate that there may be additional off-site sources of groundwater contamination in the vicinity of the Facility.

- The occurrence and distribution of compounds indicative of chlorinated VOC degradation (e.g., cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene, (trans-1,2-DCE) and vinyl chloride (VC)) and the generally decreasing total VOC concentrations over time indicate that VOCs in groundwater continue to naturally biodegrade.

- Wells RD-2 and RD-3 were installed in or near the backfill around the sewer box culvert in Hawes Street. Results from the monitoring wells indicate that VOC concentrations decrease away from the Site along the sewer box culvert, and only one VOC, cis-1,2-DCE was found in RD-3, the monitoring well located furthest downgradient from the Site. Cis-1,2-DCE was found at a concentration of 1.2 ug/L in RD-3.

Background information, details regarding the monitoring well sampling activities, and the findings for those activities are presented below.

BACKGROUND

The Facility is located on the northern corner of the intersection of Thomas Avenue and Hawes Street in the Bay View-Hunters Point District of San Francisco, California. The Facility is bordered by streets as well as residential, industrial, and vacant properties.

Prior to remedial activities at the Site, the Facility consisted of a former office and process building (the Building) and a former outdoor drum-storage yard (the Capped Yard). The Building was a sheet metal warehouse-type structure constructed on a concrete slab foundation that occupied approximately one-half of the property.

In 2001 and early 2002, soil excavation and restoration activities were successfully completed at the Facility and backyards, achieving residential cleanup standards. Immediately prior to the Group commencing remediation activities at the Site, the owner of the property demolished the Building and removed the associated debris from the Site. This demolition work was completed independently of the Group's activities and without input from the Group or any of their consultants or contractors.

The former drum storage yard was capped with a chip-sealed gravel cap (the "DTSC Cap") as part of an expedited response action carried out by the DTSC in 1987 and 1988. There is also a vacant lot adjacent to and north of the Capped Yard at 1211 and 1217 Shafter Avenue (the Vacant Lot). The Backyards are adjacent to the Facility and are addressed in the DTSC-approved Final Soil Removal Action Work Plan [RAW] (HLA, 1998).

Twelve groundwater monitoring wells installed by DTSC and others are part of a network of wells that are being monitored to assess the performance of the ORC® injection that was conducted at the Site in March 2002. The monitoring wells located in the performance assessment network are shown on Figure 2. Available monitoring well survey and construction information are summarized in Table 1.

MONITORING WELL SAMPLING ACTIVITIES

With the exception of RD-1, which was sampled on March 4, 2002, the monitoring well sampling activities reported herein were conducted on February 25 and 26, 2002. Tables 1 and 2 summarize the monitoring program.

Groundwater Level Measurements

On February 25, February 26, and March 4, 2002, groundwater levels were measured in 12 monitoring wells using an electronic water level indicator decontaminated between wells. The depth to groundwater was measured in the wells to the nearest 0.01 foot. Elevation data for both the well casings and groundwater levels are presented in Table 3.

Well Purging

Well purging procedures for the groundwater sampling activities were performed using the low-flow/minimal drawdown purging technique in accordance with the OMPG (Geomatrix, 2002). Prior to collecting groundwater samples and during purging, general water quality parameters, including dissolved oxygen (DO), reduction/oxidation potential (redox), temperature, pH, turbidity, and specific conductance, were measured in each well using a flow-through cell at low-flow volumetric rates (Table 4). The flow-through cell is closed to atmospheric conditions. After the water quality parameters had stabilized and the water quality measurements recorded, the flow-through cell was disconnected and a sample was collected. Poor water-yielding monitoring wells were pumped dry, allowed to recharge, and

sampled when a sufficient volume of water was available. Sampling records are included in Appendix B.

Sample Collection and Transport

Water samples were collected in 40-milliliter (ml) volatile organic analysis (VOA) vials preserved with hydrochloric acid. All groundwater sample containers were labeled with the project number, well identification, sample date and time, and the analysis requested. All samples were placed in ice-cooled chests and transported under proper chain-of-custody procedures to Curtis & Tomkins, Ltd., a state-certified analytical laboratory.

Laboratory Analyses

The groundwater samples were analyzed for volatile organic compounds (VOCs) using Environmental Protection Agency (EPA) Method 8260B. The samples were analyzed by Curtis & Tomkins, Ltd. of Berkeley, California.

All groundwater samples were analyzed within the recommended EPA-specified holding times. Copies of the laboratory reports and chain-of-custody records are included as Appendix C.

Disposal of Investigation-Derived Wastes

Water generated during the purging activities was temporarily stored on-site in 55-gallon steel drums. Purge water was managed according to applicable regulatory requirements and was transported to Altamont Landfill and Resource Facility in Livermore, California, for disposal. Waste manifests for the water disposal are included in Appendix D.

FINDINGS

This following section summarizes the groundwater elevation measurements and the distribution of detected chemicals of concern.

Groundwater Gradient and Flow Direction

Groundwater horizontal gradients and flow directions can be interpreted from contours of the groundwater elevation data collected in February and March 2002 (Table 3). As discussed in

the RI, all groundwater levels are now contoured as one aquifer zone with the exception of well MW-104.

A groundwater elevation map that was prepared in accordance with the RI's recommendations is presented on Figure 3. Groundwater elevation contours were drawn based on first groundwater level elevations encountered in monitoring wells. Well MW-104 shows a water level elevation that appears to be anomalous with water level elevations in other Site monitoring wells but which is consistent with historical water levels for the well. The water level elevation from this well was not included in construction of the groundwater elevation map. The groundwater elevation map indicates that groundwater flows generally toward the south-southwest from the Facility.

An average horizontal hydraulic gradient of approximately 0.018 foot per foot (ft/ft) was calculated based on water level measurements from B-200 and DMMW-4 just south and hydraulically downgradient of the Facility. This gradient is consistent with historical trends that have been reported in previous groundwater monitoring reports.

Evaluation of the Analytical Data

Analytical results from the February and March 2002 sampling event are presented in Table 5. These results indicate that VOCs are present in groundwater samples in similar distributions as found during previous sampling events. The concentrations of VOCs detected in the recent samples have generally fluctuated within each well's historical range or decreased with respect to previously detected concentrations. For the February/March 2002 sampling event, the concentration of PCE in well MW-104 was 8,000 µg/L. During the last sampling event (May 2001), the concentration of PCE in MW-104 was 3,200 µg/L. PCE concentrations in MW-104 have ranged historically between 2,800 µg/L and 8,840 µg/L. Well MW-104 is located northeast of the Facility, and only PCE has been detected in groundwater from the well. The location of this well relative to the Facility and the apparent different groundwater chemistry in this well compared to other wells is interpreted to indicate that the PCE detected in MW-104 did not originate from the Facility (HLA, 2000).

The VOC constituents detected during this sampling event (February/March 2002), in decreasing order of frequency of detection, included:

- Cis-1,2-DCE, detected in 5 wells at concentrations ranging from 1.2 to 44 µg/L;

- PCE, detected in 5 wells at concentrations ranging from 0.7 to 8,000 µg/L;
- 1,1-dichloroethane (1,1-DCA), detected in 4 wells at concentrations ranging from 1.1 to 14 µg/L;
- 1,2-dichloroethane (1,2-DCA), detected in 4 wells at concentrations ranging from 0.6 to 3.5 µg/L;
- Trichloroethene (TCE), detected in 4 wells at concentrations ranging from 1.0 to 14 µg/L;
- VC, detected in 4 wells at concentrations ranging from 1.6 to 12 µg/L;
- 1,2-dichlorobenzene (1,2-DCB), detected in 3 wells at concentrations ranging from 1.0 to 2.0 µg/L;
- Methyl tert-butyl ether (MTBE), detected in 3 wells at concentrations ranging from 0.7 to 1.1 µg/L;
- Benzene (B), detected in 2 wells at concentrations ranging from 0.5 to 2.5 µg/L;
- 1,4-dichlorobenzene (1,4-DCB), detected in 2 wells at concentrations ranging from 0.5 to 0.8 µg/L;
- Tert-butylbenzene, detected in 2 wells at concentrations ranging from 1.0 to 1.4 µg/L ;
- Toluene (T), detected in 2 wells at concentrations ranging from of 0.5 to 0.9 µg/L;
- Chlorobenzene, detected in 1 well at a concentration of 0.5 µg/L;
- Chloroethane, detected in 1 well at a concentration of 12 µg/L;
- Trans-1,2-dichloroethene (trans-1,2-DCE), detected in 1 well at a concentration of 0.5 µg/L;
- Ethylbenzene, detected in 1 well at a concentration of 0.6 µg/L;

- Isopropylbenzene, detected in 1 well at a concentration of 1.2 µg/L;
- Sec-butylbenzene, detected in 1 well at a concentration of 2.0 µg/L
- Total xylenes, detected in 1 well at a concentration of 0.6 µg/L
- 1,1,1-Trichloroethane, detected in 1 well at a concentration of 1.5 µg/L

These results, together with the results from previous sampling events, are summarized in Table 6. The February and March 2002 results are illustrated on Figure 4.

Distribution of VOCs in Groundwater

Concentrations of VOCs continue to be well below the applicable Groundwater Restoration Values with the exception of PCE found in MW-104. The Groundwater Restoration Values are presented in Table 5 of this document, the OMPG (Geomatrix, 2002), and the RDIP (Geomatrix, 2002). As described previously, the source of PCE in MW-104 appears to be from an offsite source and is not attributed to the Facility.

Well RD-1 contained the highest number of VOC constituents and is the downgradient well located closest to the Facility. Cis-1,2-DCE, TCE, 1,1-DCA, 1,2-DCA, VC, and PCE were the most frequently detected chlorinated VOCs during the February/March 2002 sampling event.

Wells RD-2 and RD-3 were installed in or near the backfill around the sewer box culvert in Hawes Street. Samples from these wells indicate that VOC concentrations decrease away from the Site along the sewer box culvert, and only one VOC, cis-1,2-DCE, was found in RD-3, the monitoring well located furthest from the Site. Cis-1,2-DCE was found at a concentration of 1.2 ug/L in RD-3. Prior groundwater sampling along the box culvert supports these data. A Hydropunch™ sample collected previously from a location near RD-3, A7, contained only one VOC, cis-1,2-DCE, at a concentration of 1.27 ug/L.

Comprehensive groundwater monitoring has been conducted at this Site since 1995; and the extent of contamination in groundwater has been well defined. The lateral extent of VOC contamination associated with the Site is currently defined by the non-detectable or low concentrations of VOCs in the performance assessment wells, B-207, RD-1, B-200, RD-3 and B-201.

Detection of cis-1,2-DCE in six wells and VC in four wells (cis-1,2-DCE and VC are intermediate products of chlorinated VOC degradation) indicate that VOCs in groundwater continue to naturally degrade.

QUALITY CONTROL

Quality control (QC) protocols followed by URS and the analytical laboratory are outlined in this section. Quality control (QC) protocols are discussed in detail in the *Operations and Maintenance Plan for Groundwater* (Geomatrix Consultants, Inc., February, 2002). Field QC samples include one trip blank per sampling day, equipment blanks at a frequency of 10%, field duplicates at a frequency of 10%, and matrix spikes at a frequency of 5%. Equipment blanks were not collected since dedicated tubing was used for the sampling procedure.

Eleven groundwater samples were collected on February 25 and 26, 2002, along with one trip blank and one field duplicate (labeled "BAD1-GW022502") for the sample from well MW-102 (labeled "MW102GW-022502"). Additional groundwater was collected for one of the samples to allow analysis as a matrix spike (labeled "B207GW-022602") associated with the sample from well B-207. One groundwater sample was collected on March 4, 2002, along with one trip blank.

Analytical laboratory results were evaluated to assess the quality of individual sample results and overall method performance. Analytical performance was evaluated on both an individual sample and a QC batch (groups of samples prepared and analyzed together) basis. The data evaluation performed included review of:

- Blanks (method and trip);
- Duplicates (field duplicates);
- Spikes (surrogate, laboratory control, and matrix spikes);
- Reporting Limits; and
- Sample Integrity (chain-of-custody documentation, sample preservation, and holding time compliance).

Blanks - Method blanks consist of deionized water that is carried through each step of the analysis with the environmental samples for each parameter and QC batch. Trip blanks are samples of deionized water that are taken to the field, retained on site through sample

collection, and returned to the laboratory with the environmental samples. Two trip blanks were analyzed for this project.

VOCs were not detected in the trip blanks; thus, showing no evidence of contamination.

Duplicates - Field duplicates are collected in the field and the results are reviewed to evaluate matrix homogeneity. One set of field duplicates was collected and submitted for analysis. For groundwater samples, the QC goal for precision specified in the Draft Groundwater Investigation Workplan prepared by Woodward Clyde Consultants (1991) is that the relative percent difference (RPD) for a VOC constituent in a duplicate pair should not exceed 25 percent.

A blind duplicate sample collected from well MW-102 was analyzed during this monitoring event for VOCs. The calculated RPDs for the duplicate pair are summarized in Table 7. All of the RPDs calculated for the constituents during this sampling event were within QC goals.

Spikes - Surrogates are spiked into blanks, environmental samples, quality control samples, and standards for organic analyses to evaluate accuracy on a sample-specific basis. Toluene-d8, dibromofluoromethane, bromofluorobenzene, and 1,2-dichloroethane-d4 were added to all samples analyzed for VOCs. All surrogate recoveries were within control limits.

Blank spikes are well-characterized, laboratory-generated samples used to monitor the laboratory's day-to-day performance for analyses and assess the accuracy of the analytical process independent of matrix effects. All blank spike recoveries (summarized in Table 8) were within control limits.

Matrix spikes/matrix spike duplicate (MS/MSD) samples are analyzed to evaluate matrix interference for an analytical batch and to assess accuracy and precision. For groundwater samples, the QC goal for precision specified in the Draft Groundwater Investigation Workplan prepared by Woodward Clyde Consultants (1991) is that the percent recovery for spiked samples should be between 60 and 145 percent for VOC constituents. All MS/MSD recoveries (summarized in Table 8) were within project QC goals.

Reporting Limits - Elevated reporting limits were observed in one sample, MW104GW-022602, due to the high concentration of one of the target analytes.

Sample Integrity - Chain-of-custody documentation is complete and consistent. Samples were preserved as required per method specifications and analyzed within method-specified holding times.

QA/QC Summary - Based on the QA/QC evaluation summarized above, no systematic problems were detected and the overall data objectives were met. The data reviewed are of acceptable precision and accuracy for project purposes without qualification.

CONCLUSIONS

The analytical results support the following major conclusions:

- Groundwater flow direction is toward the south-southwest from the Facility and is consistent with historical patterns.
- Concentrations of VOCs continue to be well below the applicable Groundwater Restoration Values with the exception of PCE found in MW-104. As described previously, the source of PCE in MW-104 appears to be from an offsite source and is not attributed to the Facility.
- Concentrations of detectable VOCs in groundwater samples remained generally the same or decreased from previously detected concentrations.
- The occurrence and distribution of compounds indicative of chlorinated VOC degradation (e.g., cis-1,2-DCE and VC) and the generally decreasing total VOC concentrations indicate that VOCs in groundwater continue to naturally degrade.
- Wells RD-2 and RD-3 were installed in or near the backfill around the sewer box culvert in Hawes Street. Samples from the monitoring wells indicate that VOC concentrations decrease away from the Site along the sewer box culvert, and only one VOC, cis-1,2-DCE, was found in RD-3, the monitoring well located furthest from the Site.

A subsequent groundwater sampling event was conducted on April 18, 2002, approximately 45 days after implementation of the groundwater remedy for the Site (i.e. ORC injection). These results will be provided after receipt of validated laboratory data.

URS

If you have any questions regarding this summary report, please contact Jay Clare at (510) 874-3027.

Yours very truly,
URS CORPORATION

REGISTERED PROFESSIONAL ENGINEER
JAY B. CLARE
No. M27758
Exp. 6/31/04
MECHANICAL
STATE OF CALIFORNIA

Jay B. Clare, P.E.
Project Manager

Enclosures:

Table 1	Construction Details for Monitoring Wells
Table 2	Groundwater Analyses Performed, February and March 2002
Table 3	Groundwater Elevation Data, February and March 2002
Table 4	Field Measurements of Water Quality, February and March 2002
Table 5	Volatile Organic Compounds Detected in Groundwater, February and March 2002
Table 6	Summary of Historical Groundwater Chemical Data – VOCs
Table 7	Field Quality Control Sample Summary, February and March 2002
Table 8	Laboratory Quality Control Sample Summary, February and March 2002
Figure 1	Site Location Map
Figure 2	Monitoring Well Location Map
Figure 3	Map of Groundwater Elevations in Monitoring Wells, February and March 2002
Figure 4	Volatile Organic Compounds in Monitoring Wells, February and March 2002
Appendix A	Well Construction Diagrams and Well Completion Reports
Appendix B	Groundwater Sampling Records
Appendix C	Laboratory Data Sheets and Chains-of-Custody
Appendix D	Investigation-Derived Waste Disposal Manifests

Distribution:

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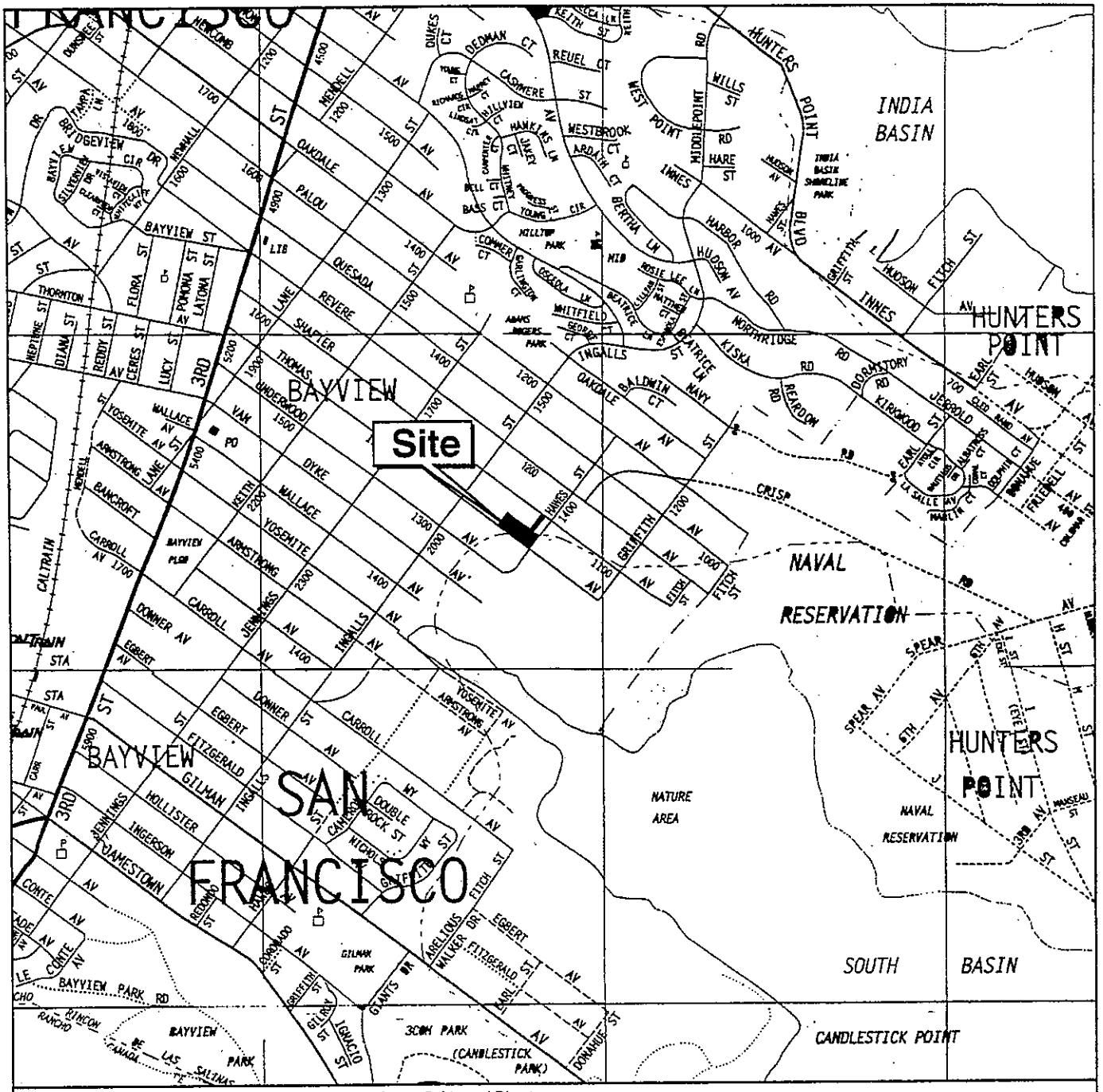
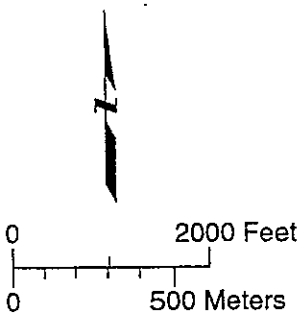
Mr. Michael Miller – US Liquids
Mr. Allen J. Lund – Lockheed Martin Space Systems Company

FIGURES



Base map from 1999 the Thomas Guide Golden Gate Street Guide and Directory



SITE LOCATION MAP
Former Bay Area Drum Site
1212 Thomas Avenue Site
San Francisco, California

Figure
1

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Other CBI

EXPLANATION

Former Bay Area Drum Facility

Property Lines

Street Boundaries

Railroad

Monitoring Well Location

B-200 ← Monitoring Well Number

t-but	1.2/ND
1,2-DCB	1.1/1.1
1,1-DCA	2.3/2.4
1,2-DCA	1.9/1.9
c-1,2-DCE	51/47
TCE	8.7/9.0
VC	16/14

Field duplicate results

Concentrations in Micrograms per Liter (ug/l) in Groundwater

Compounds

B	benzene
s-but	sec-butylbenzene
t-but	tert-butylbenzene
CB	chlorobenzene
CA	chloroethane
1,2-DCB	1,2-dichlorobenzene
1,4-DCB	1,4-dichlorobenzene
1,1-DCA	1,1-dichloroethane
1,2-DCA	1,2-dichloroethane
c-1,2-DCE	cis-1,2-dichloroethene
t-1,2-DCE	trans-1,2-dichloroethene
EB	ethylbenzene
IPB	isopropylbenzene
MTBE	methyl tertiary-butyl ether
PCE	tetrachloroethene
T	toluene
TCE	trichloroethene
1,1,1-TCA	1,1,1-trichloroethane
VC	vinyl chloride
TX	total xylenes

ND All compounds analyzed not detected above laboratory reporting limit

VOLATILE ORGANIC COMPOUNDS IN MONITORING WELLS, FEBRUARY & MARCH 2002
Former Bay Area Drum Site
1212 Thomas avenue
San Francisco, California

URS	Project No. 51-00270002.00	Figure 4

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SCALE IN FEET

EXPLANATION

- Former Bay Area Drum Facility
- Property Lines
- Street Boundaries
- Railroad
- MW-104 Monitoring Well Location
- B-206 Former Monitoring Well Location (Abandoned in April 2002)

onitoring well locations are based on
vided by URS Corporation, March 2002,
ying Engineering, Inc., April 17, 1997, and
vided by Harding Lawson Associates,

MONITORING WELL LOCATION MAP
Former Bay Area Drum Site
1212 Thomas avenue
San Francisco, California

URS	Project No. 51-00270002.00	Figure 2

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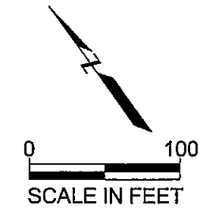

EXPLANATION

- Former Bay Area Drum Facility
- Property Lines
- Street Boundaries
- Railroad
- B–200 Monitoring Well Location
- 0 Line of Equal Groundwater Elevation, in Feet (Feet Above Mean Sea Level)
- –3.12 Groundwater Elevation (Feet Above Mean Sea Level)

TE:

groundwater elevation from monitoring well
-104 was not included for contouring
ndwater elevations.

MAP OF GROUNDWATER ELEVATIONS IN MONITORING WELLS, FEBRUARY & MARCH 2002
Former Bay Area Drum Site
1212 Thomas avenue
San Francisco, California

URS	Project No.	Figure
	51-00270002.00	3

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TABLES

TABLE 1

CONSTRUCTION DETAILS FOR MONITORING WELLS

Former Bay Area Drum Site
1212 Thomas Avenue
San Francisco, California

Well No.	Elevation of Top of Casing (feet, msl)[2]	Total Depth (feet, bgs)[3]	Screened Interval (feet, bgs)	Well Casing Diameter (inches)
B-27[1]	10.54	18	8.0-18.0	4
B-200[1]	7.57	18	7.0-17.0	4
B-201[1]	6.31	16	5.0-15.0	4
B-207[1]	8.03	19	7.5-17.5	4
DMMW-4[1]	3.35	29.5	19.0-29.0	4
DMMW-5[1]	8.15	36	26.0-36.0	4
MW-102[1]	8	47	37.0-47.0	2
MW-103[1]	8.4	15	5.0-15.0	2
MW-104[1]	8.97	64	54.0-64.0	2
RD-1	7.86	17	7.0-17.0	2
RD-2	4.83	17	7.0-17.0	2
RD-3	1.88	17	7.0-17.0	2

1 Construction details from HLA (2000)

2 msl = mean sea level

3 bgs = below ground surface

TABLE 2

GROUNDWATER ANALYSES PERFORMED
FEBRUARY AND MARCH 2002

Former Bay Area Drum Site
1212 Thomas Avenue
San Francisco, California

Analyte	EPA Method	Environmental Samples	Quality Control Duplicates	Quality Control Samples (MS/MSD)[1]	Trip Blanks	Total
Volatile Organic Compounds	8260B	12	1	1	2	16

[1] MS/MSD = Matrix spike/matrix spike duplicate

TABLE 3

GROUNDWATER ELEVATION DATA
FEBRUARY AND MARCH, 2002

Former Bay Area Drum Site
1212 Thomas Avenue
San Francisco, California

Well No.	Date	Elevation of Top of Casing (feet, msl)[1]	Depth to Water (feet, toc)[2]	Groundwater Elevation (feet, msl)
B-27	2/26/02	10.54	6.56	3.98
B-200	2/25/02	7.57	9.45	-1.88
B-201	2/25/02	6.31	5.35	0.96
B-207	2/26/02	8.03	8.73	-0.70
DMMW-4	2/25/02	3.35	7.28	-3.93
DMMW-5	2/25/02	8.15	5.74	2.41
MW-102	2/25/02	8.00	7.40	0.60
MW-103	2/25/02	8.40	6.51	1.89
MW-104	2/26/02	8.97	7.29	1.68
RD-1	3/4/02	7.86	9.40	-1.54
RD-2	2/25/02	4.83	7.89	-3.06
RD-3	2/25/02	1.88	6.94	-5.06

[1] msl = mean sea level

[2] toc = top of casing

TABLE 4

FIELD MEASUREMENTS OF WATER QUALITY
FEBRUARY AND MARCH 2002

Former Bay Area Drum Site
1212 Thomas Avenue
San Francisco, California

Well No.	Date	Temperature (degrees C)[1]	pH	Specific Electrical Conductance (µS/cm)[2]	Dissolved Oxygen (milligrams/liter)	Redox Potential[3] (millivolts)	Volume Purged (liters)
B-27	2/26/02	17.39	6.49	829	3.76	323.8	4.3
B-200	2/25/02	17.05	6.66	1,760	0.87	268.2	3.95
B-201	2/25/02	15.95	7.10	364	4.42	229.4	3.2
B-207	2/26/02	15.96	6.66	1,206	4.10	313.0	3.7
DMMW-4[4]	2/25/02	17.18	6.15	19,489	3.91	280.9	56.8
DMMW-5	2/25/02	18.40	7.19	1,110	4.67	259.9	3.2
MW-102	2/25/02	20.51	7.05	1,685	1.37	227.7	3.3
MW-103	2/25/02	16.41	6.75	647	1.16	278.2	3.15
MW-104	2/26/02	18.22	6.29	1,337	3.76	334.6	3.2
RD-1	3/4/02	17.15	6.55	2,404	4.42	221.4	8.2
RD-2[4]	2/25/02	15.76	7.22	1,396	6.93	299.3	17
RD-3	2/25/02	16.51	7.48	1,881	0.91	-154.2	7.8

1 C = Centigrade

2 µS/cm = Microsiemens per centimeter

3 Redox = Reduction-oxidation potential

4 Monitoring well purged dry due to slow recharge rate.

TABLE 5

VOLATILE ORGANIC COMPOUNDS DETECTED IN GROUNDWATER FEBRUARY AND MARCH 2002

Former Bay Area Drum Site
1212 Thomas Avenue
San Francisco, California

Concentrations reported in micrograms per liter (µg/L)

Well No.	Date Sampled	Compound	VOCs by EPA Method 8260	Groundwater Restoration Value[1]
B-27	2/26/02	tetrachloroethene	10	6,000
B-200	2/25/02	benzene	0.5	1,000
		tert-butylbenzene	1.4	NA
		1,2-dichlorobenzene	1.2	4,000
		1,4-dichlorobenzene	0.5	NA
		1,1-dichloroethane	3.2	2,300
		1,2-dichloroethane	1.2	17,000
		cis-1,2-dichloroethene	20	45,000
		methyl-tert butyl ether	0.7	6,000
		trichloroethene	4.5	1,000
		vinyl chloride	7.9	300
B-201	2/25/02		ND	
B-207	2/26/02		ND	
DMMW-4	2/25/02	cis-1,2-dichloroethene	1.2	45,000
DMMW-5	2/25/02	tetrachloroethene	0.7	6,000
MW-102	2/25/02	1,2-dichlorobenzene	2.0/2.0	4,000
		1,1-dichloroethane	1.1/1.1	2,300
		1,2-dichloroethane	3.5/3.5	17,000
		cis-1,2-dichloroethene	13/12	45,000
		trichloroethene	11/10	1,000
		vinyl chloride	2.8/2.9	300
MW-103	2/25/02		ND	
MW-104	2/26/02	tetrachloroethene	8,000	6,000
RD-1	3/4/02	benzene	2.5	1,000
		tert-butylbenzene	1.0	NA
		sec-butylbenzene	2.0	3,000
		chlorobenzene	0.5	100
		chloroethane	12	2,000
		1,1-dichloroethane	14	2,300
		cis-1,2-dichloroethene	1.6	45,000
		1,2-dichloroethane	1.2	17,000
		1,2-dichlorobenzene	1.0	4,000
		1,4-dichlorobenzene	0.8	NA
		ethylbenzene	0.6	500
		isopropylbenzene	1.2	3,000
		methyl-tert butyl ether	1.1	6,000
		tetrachloroethene	4.6	6,000

TABLE 5

VOLATILE ORGANIC COMPOUNDS DETECTED IN GROUNDWATER FEBRUARY AND MARCH 2002

Former Bay Area Drum Site
1212 Thomas Avenue
San Francisco, California

Concentrations reported in micrograms per liter (µg/L)

Well No.	Date Sampled	Compound	VOCs by EPA Method 8260	Groundwater Restoration Value[1]
RD-1 (con't)		total xylenes	0.6	2,000
		toluene	0.9	4,000
		trichloroethene	1.0	1,000
		vinyl chloride	12	300
RD-2	2/25/02	1,1-dichloroethane	2.3	2,300
		cis-1,2-dichloroethene	44	45,000
		1,1,1-trichloroethane	1.5	NA
		1,2-dichloroethane	0.6	17,000
		methyl-tert butyl ether	0.9	6,000
		tetrachloroethene	3.1	6,000
		toluene	0.5	4,000
		trans-1,2-dichloroethene	0.5	56,000
		trichloroethene	14	1,000
		vinyl chloride	1.6	300
RD-3	2/25/02	cis-1,2-dichloroethene	1.2	45,000

[1]Groundwater Restoration Values can also be found in *Operation and Maintenance Plan for Groundwater* (Geomatrix, 2002) and *Remedial Design and Implementation Plan* (Geomatrix, 2002).

NA = Not available
ND = All compounds analyzed not detected above laboratory reporting limit

TABLE 6

SUMMARY OF HISTORICAL GROUNDWATER CHEMICAL DATA* – VOCs[1]
Former Bay Area Drum Site
1212 Thomas Avenue
San Francisco, California

Well Number	B-27								
Date Sampled	23-Aug-95[3]	12-May-98	17-Nov-98	13-May-99	17-Nov-99	25-May-00	15-Nov-00[4]	23-May-01[4]	25-Feb-02[7]
Test method	EPA 524.2	EPA 8010	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Volatile Organic Compounds									
Acetone	<0.5	NA	<10	<10	<10	<10	<50	<50	<10
Benzene	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
Bromobenzene	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
Bromoform	NA	<0.5	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
sec-Butylbenzene	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
Chlorobenzene	NA	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Chloroethane	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Chloromethane	NA	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
1,1-Dichloroethane	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
1,2-Dichloroethane	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
cis-1,2-Dichloroethene	**3.1**	<0.5	<1	<1	<1	<1	<1	<1	<0.5
trans-1,2-Dichloroethene	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Ethylbenzene	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
Isopropylbenzene	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Methyl Tertiary Butyl Ether	NA	NA	<1	<1	<1	<1	<5	<5	<0.5
Methylene Chloride	<0.5	<5	<1	<1	<1	<1	<5	<5	<10
Naphthalene	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Tetrachloroethene	**40**	**2.2**	**4.37**	**2.82**	**9.72**	**8.47**	**6.3**	**6.7**	**10**
Toluene	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
Trichloroethene	**4.3**	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Trichlorofluoromethane	<5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
1,2,4-Trimethylbenzene	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
1,3,5-Trimethylbenzene	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
Total Xylenes	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
Vinyl Chloride	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5
1,1,1-Trichloroethane							<1	<1	<0.5
tert-Butylbenzene							<1	<1	<0.5
n-Propylbenzene							<1	<1	<0.5
1,4-Dichlorobenzene									<0.5
Petroleum Hydrocarbons									
Test Method 8015 Modified									
TPH as Gasoline	**50**	**50**	**84**	**50**	**50**	**50**	<50	<50	NA
TPH as Diesel	**50**	**50**	**50**	**50**	**50**	**50**	<50	<50	NA
TPH as Motor Oil	**500**	NA	**250**	**500**	**250**	**250**	<500	<500	NA

* Concentrations reported in micrograms per liter, approximately equivalent to parts per billion.

[1] VOCs = Volatile organic compounds

[2] TPH = Total petroleum hydrocarbons quantified as gasoline, diesel, and motor oil. TPH-diesel and TPH-motor oil analyses include silica gel preparation procedure for all samples collected in November 2000.

[3] All historical groundwater data between August 1995 and May 2000 provided by Harding-Lawson Associates.

[4] November 2000 and May 2001 groundwater data compiled by Geomatrix Consultants, Inc.

[5] Detection likely represents chlorinated hydrocarbons that boil in the gasoline range.

[6] Detection likely represents chlorinated hydrocarbons that boil in the diesel range.

[7] February/March 2002 data compiled by URS Corporation.

Abbreviations:

NA = Not analyzed

r = Value is qualified as not detected, one discrete peak

u = Value is qualified as estimated due to presence in method blank

TABLE 6

SUMMARY OF HISTORICAL GROUNDWATER CHEMICAL DATA* -- VOCs[1]
Former Bay Area Drum Site
1212 Thomas Avenue
San Francisco, California

Well Number	B-200							Duplicate		Duplicate		Duplicate		J-3 Duplicate		J-2 Duplicate	
Date Sampled	24-Aug-95[3]	21-Nov-96	08-May-97	04-Dec-97	12-May-98	18-Nov-98	12-May-99	12-May-99	16-Nov-99	16-Nov-99	24-May-00	24-May-00	17-Nov-00[4]	17-Nov-00[4]	23-May-01[4]	23-May-01[4]	25-Feb-02[7]
Test method	EPA 624	EPA 8010	EPA 8010	EPA 8010	EPA 8010	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Volatile Organic Compounds																	
Acetone	<17	NA	NA	NA	NA	<50	<25	<50	<50	<40	<25	<25	<50	<50	<50	<50	<10
Benzene	5.5	NA	NA	NA	NA	<5	<2.5	<5	<5	<4	<2.5	<2.5	1.0	1.1	<1	<1	0.5
Bromobenzene	NA	NA	NA	NA	NA	<5	<2.5	<5	<5	<4	<2.5	<2.5	<1	<1	<1	<1	<0.5
Bromoform	NA	<5	<5	<2.5	<2.5	<5	<2.5	<5	<5	<4	<2.5	<2.5	<1	<1	<1	<1	<1
n-Butylbenzene	NA	NA	NA	NA	NA	<5	<2.5	<5	<5	<4	<2.5	<2.5	<1	<1	<1	<1	<0.5
sec-Butylbenzene	NA	NA	NA	NA	NA	<5	<2.5	<5	<5	<4	<2.5	<2.5	<1	<1	<1	<1	<0.5
Chlorobenzene	NA	<5	<5	<2.5	<2.5	<5	<2.5	<5	<5	<4	<2.5	<2.5	<1	<1	<1	<1	<0.5
Chloroethane	<3.3	<10	<10	9.5	12	<5	<2.5	<5	<5	<4	<2.5	<2.5	<1	<1	<1	<1	<1
Chloroform	<3.3	<5	<5	<2.5	<2.5	<5	<2.5	<5	<5	<4	<2.5	<2.5	<1	<1	<1	<1	<0.5
Chloromethane	NA	<5	<5	<5	<5	<5	<2.5	<5	<5	<4	<2.5	<2.5	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	NA	<5	<5	<2.5	<2.5	<5	<2.5	<5	<5	<4	<2.5	<2.5	1.1	1.1	1.1	1.1	1.2
1,1-Dichloroethane	6.7	<5	3	<2.5	<2.5	<5	<2.5	<5	<5	<4	<2.5	2.51	2.3	2.3	2.4	2.3	3.2
1,2-Dichloroethane	6.5	5.4	3.3	<2.5	<2.5	<5	<2.5	<5	<5	<4	2.61	2.66	2.5	2.6	1.9	1.9	1.2
cis-1,2-Dichloroethene	250	260	150	49	94	141	84.9	83.3	73.1	69.4	74.6	75.4	71	76	47	51	20
trans-1,2-Dichloroethene	<3.3	<5	3	<2.5	<2.5	<5	<2.5	<5	<5	<4	<2.5	<2.5	1.3	1.4	<1	<1	<0.5
Ethylbenzene	<3.3	NA	NA	NA	NA	<5	<2.5	<5	<5	<4	<2.5	<2.5	<1	<1	<1	<1	<0.5
Isopropylbenzene	NA	NA	NA	NA	NA	<5	<2.5	<5	<5	<4	<2.5	<2.5	<1	<1	<1	<1	<0.5
Methyl Tertiary Butyl Ether	NA	NA	NA	NA	NA	<5	<2.5	<5	<5	<4	<2.5	<2.5	<5	<5	<1	<1	0.7
Methylene Chloride	<8.4	<5	<5	<25	<25	<5	<2.5	<5	<5	<4	3.38	3.53	<5	<5	<1	<1	<10
Naphthalene	NA	NA	NA	NA	NA	<5	<2.5	<5	<5	<4	<2.5	<2.5	<1	<1	<1	<1	<0.5
1,1,2,2-Tetrachloroethane	<3.3	<5	3.2	<2.5	<2.5	<5	<2.5	<5	<5	<4	<2.5	<2.5	<1	<1	<1	<1	<0.5
Tetrachloroethene	<3.3	<5	<5	5	14	<5	4.43	<5	<5	<4	<2.5	<2.5	2.1	2.2	<1	<1	<0.5
Toluene	<3.3	NA	NA	NA	NA	<5	<2.5	<5	<5	<4	<2.5	<2.5	<1	<1	<1	<1	<0.5
Trichloroethene	30	44	28	12	18	34	18.2	18.4	19.2	17.1	18.3	18.5	16	17	9	8.7	4.5
Trichlorofluoromethane	<3.3	<5	<5	<2.5	<2.5	<5	<2.5	<5	<5	<4	<2.5	<2.5	<1	<1	<1	<1	<0.5
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	<5	<2.5	<5	<5	<4	<2.5	<2.5	<1	<1	<1	<1	<0.5
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	<5	<2.5	<5	<5	<4	<2.5	<2.5	<1	<1	<1	<1	<0.5
Total Xylenes	<3.3	NA	NA	NA	NA	<5	<2.5	<5	<5	<4	<2.5	<2.5	<1	<1	<1	<1	<0.5
Vinyl Chloride	53	48	28	13	17	32.4	14.6	14.8	21.7	20.9	16.4	16.7	14	14	14	16	7.9
1,1,1-Trichloroethane													<1	<1	<1	<1	<0.5
tert-Butylbenzene													<1	1.1	<1	1.2	1.4
n-Propylbenzene													<1	<1	<1	<1	<0.5
1,4-Dichlorobenzene																	0.5
Petroleum Hydrocarbons																	
Test Method 8015 Modified																	
TPH as Gasoline	230	280	150	120	110	139	118	126	165	165	133	94	110[5]	110[5]	110[5]	110[5]	NA
TPH as Diesel	620	600	730	410	270	284	210	190	850	1,030	274	420	<50	<50	84[6]	<50	NA
TPH as Motor Oil	530	NA	NA	NA	NA	250	500	500	291	485	250	266	<500	<500	<500	<500	NA

* Concentrations reported in micrograms per liter, approximately equivalent to parts per billion.

[1] VOCs = Volatile organic compounds

[2] TPH = Total petroleum hydrocarbons quantified as gasoline, diesel, and motor oil. TPH-diesel and TPH-motor oil analyses include silica gel preparation procedure for all samples collected in November 2000.

[3] All historical groundwater data between August 1995 and May 2000 provided by Harding-Lawson Associates.

[4] November 2000 and May 2001 groundwater data compiled by Geomatrix Consultants, Inc.

[5] Detection likely represents chlorinated hydrocarbons that boil in the gasoline range.

[6] Detection likely represents chlorinated hydrocarbons that boil in the diesel range.

[7] February/March 2002 data compiled by URS Corporation.

Abbreviations:

NA = Not analyzed

r = Value is qualified as not detected, one discrete peak

u = Value is qualified as estimated due to presence in method blank

TABLE 6

SUMMARY OF HISTORICAL GROUNDWATER CHEMICAL DATA* – VOCs[1]

Former Bay Area Drum Site
1212 Thomas Avenue
San Francisco, California

Well Number	B-201											
Date Sampled	24-Aug-95[3]	21-Nov-96	07-May-97	02-Dec-97	12-May-98	16-Nov-98	12-May-99	16/17-Nov-99	23/24-May-00	15-Nov-00[4]	23-May-01[4]	25-Feb-02[7]
Test method	EPA 524.2	EPA 8010	EPA 8010	EPA 8010	EPA 8010	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Volatile Organic Compounds												
Acetone	<0.5	NA	NA	NA	NA	<10	<10	<10	<10	<50	<50	<10
Benzene	<0.5	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Bromobenzene	<0.5	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Bromoform	NA	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
sec-Butylbenzene	<0.5	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Chlorobenzene	NA	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Chloroethane	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Chloromethane	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	NA	<1	<1	<0.5
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	NA	<1	<1	<0.5
cis-1,2-Dichloroethene	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
trans-1,2-Dichloroethene	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Ethylbenzene	<0.5	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Isopropylbenzene	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Methyl Tertiary Butyl Ether	NA	NA	NA	NA	NA	<1	<1	<1	<1	<5	<1	<0.5
Methylene Chloride	0.7	<5	<5	<5	<5	<1	<1	<1	<1	<5	<1	<10
Naphthalene	<0.5	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Tetrachloroethene	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Toluene	1.3	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Trichloroethene	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Trichlorofluoromethane	<5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
1,2,4-Trimethylbenzene	<0.5	NA	NA	NA	NA	<1	<1	<1	NA	<1	<1	<0.5
1,3,5-Trimethylbenzene	<0.5	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Total Xylenes	0.88	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Vinyl Chloride	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,1,1-Trichloroethane										<1	<1	<0.5
tert-Butylbenzene										<1	<1	<0.5
n-Propylbenzene										<1	<1	<0.5
1,4-Dichlorobenzene												<0.5
Petroleum Hydrocarbons												
Test Method 8015 Modified												
TPH as Gasoline	50	50	50	50	50	50	50	50	50	<50	<50	NA
TPH as Diesel	230	340	140	170	120	109	100	204	69	<50	<50	NA
TPH as Motor Oil	500	NA	NA	NA	NA	250	500	333	250	<500	<500	NA

* Concentrations reported in micrograms per liter, approximately equivalent to parts per billion.

1 VOCs = Volatile organic compounds

2 TPH = Total petroleum hydrocarbons quantified as gasoline, diesel, and motor oil. TPH-diesel and TPH-motor oil analyses include silica gel preparation procedure for all samples collected in November 2000.

3 All historical groundwater data between August 1995 and May 2000 provided by Harding-Lawson Associates.

4 November 2000 and May 2001 groundwater data compiled by Geomatrix Consultants, Inc.

5 Detection likely represents chlorinated hydrocarbons that boil in the gasoline range.

6 Detection likely represents chlorinated hydrocarbons that boil in the diesel range.

7 February/March 2002 data compiled by URS Corporation.

Abbreviations:

NA = Not analyzed

r = Value is qualified as not detected, one discrete peak

u = Value is qualified as estimated due to presence in method blank

TABLE 6

SUMMARY OF HISTORICAL GROUNDWATER CHEMICAL DATA* – VOCs[1]
Former Bay Area Drum Site
1212 Thomas Avenue
San Francisco, California

Well Number	B-207											
Date Sampled	23-Aug-95[3]	21-Nov-96	08-May-97	04-Dec-97	13-May-98	18-Nov-98	12-May-99	15/16-Nov-99	24/25-May-00	15-Nov-00[4]	23-May-01[4]	26-Feb-02[7]
Test method	EPA 524.2	EPA 8010	EPA 8010	EPA 8010	EPA 8010	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Volatile Organic Compounds												
Acetone	<0.5	NA	NA	NA	NA	<10	<10	<10	<10	<50	<50	<10
Benzene	<0.5	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Bromobenzene	<0.5	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Bromoform	NA	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
sec-Butylbenzene	<0.5	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Chlorobenzene	NA	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Chloroethane	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Chloromethane	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
cis-1,2-Dichloroethene	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
trans-1,2-Dichloroethene	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Ethylbenzene	<0.5	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Isopropylbenzene	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Methyl Tertiary Butyl Ether	NA	NA	NA	NA	NA	<1	<1	<1	<1	<5	<1	<0.5
Methylene Chloride	<0.5	<5	<5	<5	<5	<1	<1	<1	<1	<5	<1	<10
Naphthalene	<0.5	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Tetrachloroethene	1.1	0.98	0.73	1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Toluene	<0.5	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Trichloroethene	0.53	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Trichlorofluoromethane	<5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
1,2,4-Trimethylbenzene	<0.5	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
1,3,5-Trimethylbenzene	<0.5	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Total Xylenes	<0.5	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Vinyl Chloride	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,1,1-Trichloroethane										<1	<1	<0.5
tert-Butylbenzene										<1	<1	<0.5
n-Propylbenzene										<1	<1	<0.5
1,4-Dichlorobenzene												<0.5
Petroleum Hydrocarbons												
Test Method 8015 Modified												
TPH as Gasoline	50	50	50	50	50	50	50	50	50	<50	<50	NA
TPH as Diesel	350	200	0.05	52	270	54	180	121	60	96	<50	NA
TPH as Motor Oil	990	NA	NA	NA	NA	250	520	250	250	<500	<500	NA

* Concentrations reported in micrograms per liter, approximately equivalent to parts per billion.

1 VOCs = Volatile organic compounds

2 TPH = Total petroleum hydrocarbons quantified as gasoline, diesel, and motor oil. TPH-diesel and TPH-motor oil analyses include silica gel preparation procedure for all samples collected in November 2000.

3 All historical groundwater data between August 1995 and May 2000 provided by Harding-Lawson Associates.

4 November 2000 and May 2001 groundwater data compiled by Geomatrix Consultants, Inc.

5 Detection likely represents chlorinated hydrocarbons that boil in the gasoline range.

6 Detection likely represents chlorinated hydrocarbons that boil in the diesel range.

7 February/March 2002 data compiled by URS Corporation.

Abbreviations:

NA = Not analyzed

r = Value is qualified as not detected, one discrete peak

u = Value is qualified as estimated due to presence in method blank

TABLE 6

SUMMARY OF HISTORICAL GROUNDWATER CHEMICAL DATA* – VOCs[1]
Former Bay Area Drum Site
1212 Thomas Avenue
San Francisco, California

Well Number	DMMW-4											
Date Sampled	25-Aug-95[3]	21-Nov-96	07-May-97	03-Dec-97	13-May-98	17-Nov-98	11-May-99	16/17-Nov-99	23/24-May-00	15-Nov-00[4]	23-May-01[4]	25-Feb-02[7]
Test method	EPA 524.2	EPA 8010	EPA 8010	EPA 8010	EPA 8010	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Volatile Organic Compounds												
Acetone	<0.84	NA	NA	NA	NA	<10	<10	<10	<10	<50	<50	<10
Benzene	4.4	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Bromobenzene	<0.84	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Bromoform	NA	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
sec-Butylbenzene	<0.84	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Chlorobenzene	NA	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
Chloroethane	<0.84	<1	<1	<1	NA	<1	<1	<1	<1	<1	<1	<1
Chloroform	<0.84	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
Chloromethane	NA	<1	<1	<1	NA	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	0.9	0.76	1.1	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
1,1-Dichloroethane	<0.84	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
1,2-Dichloroethane	<0.84	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
cis-1,2-Dichloroethene	<0.84	0.65	0.63	<0.5	NA	<1	<1	<1	<1	<1	<1	1.2
trans-1,2-Dichloroethene	<0.84	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
Ethylbenzene	3.8	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Isopropylbenzene	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Methyl Tertiary Butyl Ether	NA	NA	NA	NA	NA	<1	<1	<1	<1	<5	<5	<0.5
Methylene Chloride	<0.84	<5	<5	<5	NA	<1	<1	<1	<1	<5	<5	<10
Naphthalene	1.5	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
1,1,2,2-Tetrachloroethane	<0.84	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
Tetrachloroethene	<0.84	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
Toluene	20	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Trichloroethene	<0.84	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
Trichlorofluoromethane	<0.84	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
1,2,4-Trimethylbenzene	3.2	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
1,3,5-Trimethylbenzene	0.87	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Total Xylenes	15	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Vinyl Chloride	<0.84	<1	<1	<1	NA	<1	<1	<1	<1	<1	<1	<0.5
1,1,1-Trichloroethane										<1	<1	<0.5
tert-Butylbenzene										<1	<1	<0.5
n-Propylbenzene										<1	<1	<0.5
1,4-Dichlorobenzene												<0.5
Petroleum Hydrocarbons												
Test Method 8015 Modified												
TPH as Gasoline	101	50	50	50	NA	50	50	50	50	<50	<50	NA
TPH as Diesel	54	50	50	50	50	50	<890(r)	50	50	<50	<50	NA
TPH as Motor Oil	500	NA	NA	NA	NA	250	500	250	250	<500	<500	NA

* Concentrations reported in micrograms per liter, approximately equivalent to parts per billion.
[1] VOCs = Volatile organic compounds
[2] TPH = Total petroleum hydrocarbons quantified as gasoline, diesel, and motor oil. TPH-diesel and TPH-motor oil analyses include silica gel preparation procedure for all samples collected in November 2000.
[3] All historical groundwater data between August 1995 and May 2000 provided by Harding-Lawson Associates.
[4] November 2000 and May 2001 groundwater data compiled by Geomatrix Consultants, Inc.
[5] Detection likely represents chlorinated hydrocarbons that boil in the gasoline range.
[6] Detection likely represents chlorinated hydrocarbons that boil in the diesel range.
[7] February/March 2002 data compiled by URS Corporation.

Abbreviations:

NA = Not analyzed

r = Value is qualified as not detected, one discrete peak

u = Value is qualified as estimated due to presence in method blank

TABLE 6

SUMMARY OF HISTORICAL GROUNDWATER CHEMICAL DATA* -- VOCs[1]
Former Bay Area Drum Site
1212 Thomas Avenue
San Francisco, California

Well Number	DMMW-5											
Date Sampled	25-Aug-95[3]	21-Nov-96	08-May-97	02-Dec-97	13-May-98	18-Nov-98	13-May-99	17-Nov-99	25-May-00	16-Nov-00[4]	24-May-20[4]	25-Feb-02[7]
Test method	EPA 624	EPA 8010	EPA 8010	EPA 8010	EPA 8010	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Volatile Organic Compounds												
Acetone	<10	NA	NA	NA	NA	<10	<10	<10	<10	<50	<50	<10
Benzene	<2	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Bromobenzene	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Bromoform	NA	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
sec-Butylbenzene	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Chlorobenzene	NA	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Chloroethane	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<2	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Chloromethane	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	NA	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
1,1-Dichloroethane	<2	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
1,2-Dichloroethane	<2	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
cis-1,2-Dichloroethene	<2	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
trans-1,2-Dichloroethene	<2	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Ethylbenzene	<2	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Isopropylbenzene	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Methyl Tertiary Butyl Ether	NA	NA	NA	NA	NA	<1	<1	<1	<1	<5	<5	<0.5
Methylene Chloride	<5	<5	<5	<5	<5	<1	<1	<1	<1	<5	<5	<10
Naphthalene	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
1,1,2,2-Tetrachloroethane	<2	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Tetrachloroethene	<2	**3.6**	**3.9**	**2.8**	**6.0**	**5.71**	**2.09**	**1.6**	**1.62**	<1	<1	**0.7**
Toluene	<2	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Trichloroethene	<2	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Trichlorofluoromethane	<2	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Total Xylenes	<2	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Vinyl Chloride	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,1,1-Trichloroethane										<1	<1	<0.5
tert-Butylbenzene										<1	<1	<0.5
n-Propylbenzene										<1	<1	<0.5
1,4-Dichlorobenzene												<0.5
Petroleum Hydrocarbons												
Test Method 8015 Modified												
TPH as Gasoline	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	NA
TPH as Diesel	<50	<50	<50	**63**	**70**	<50	<50	<50	<50	**880**	<50	NA
TPH as Motor Oil	<500	NA	NA	NA	NA	<250	<500	<250	<250	<500	<500	NA

* Concentrations reported in micrograms per liter, approximately equivalent to parts per billion.
[1] VOCs = Volatile organic compounds
[2] TPH = Total petroleum hydrocarbons quantified as gasoline, diesel, and motor oil. TPH-diesel and TPH-motor oil analyses include silica gel preparation procedure for all samples collected in November 2000.
[3] All historical groundwater data between August 1995 and May 2000 provided by Harding-Lawson Associates.
[4] November 2000 and May 2001 groundwater data compiled by Geomatrix Consultants, Inc.
[5] Detection likely represents chlorinated hydrocarbons that boil in the gasoline range.
[6] Detection likely represents chlorinated hydrocarbons that boil in the diesel range.
[7] February/March 2002 data compiled by URS Corporation.

Abbreviations:

NA = Not analyzed

r = Value is qualified as not detected, one discrete peak

u = Value is qualified as estimated due to presence in method blank

TABLE 6

SUMMARY OF HISTORICAL GROUNDWATER CHEMICAL DATA* -- VOCs[1]

Former Bay Area Drum Site
1212 Thomas Avenue
San Francisco, California

Well Number	MW-102									Duplicate
Date Sampled	21-Jan-98[3]	13-May-98	19-Nov-98	13-May-99	17-Nov-99	25-May-00	16-Nov-00[4]	24-May-01[4]	25-Feb-02[7]	25-Feb-02[7]
Test method	EPA 8010/8020	EPA 8010	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Volatile Organic Compounds										
Acetone	NA	NA	<10	<10	<10	<10	<50	<50	<10	<10
Benzene	1.4	NA	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Bromobenzene	NA	NA	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Bromoform	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5
n-Butylbenzene	NA	NA	<1	<1	<1	<1	<1	<1	<0.5	<0.5
sec-Butylbenzene	NA	NA	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Chlorobenzene	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Chloroethane	5.3	16	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Chloromethane	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	1.2	2.3	1.92	1.76	1.46	2.15	1.9	1.7	2.0	2.0
1,1-Dichloroethane	0.81	1.7	1.24	1.12	<1	1.24	<1	<1	1.1	1.1
1,2-Dichloroethane	3.2	4.4	4.29	3.39	3	3.81	2.7	2.8	3.5	3.5
cis-1,2-Dichloroethene	19	29	20.2	19.6	15.3	17.1	11	12	13	12
trans-1,2-Dichloroethene	<0.5	0.86	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Ethylbenzene	1.6	NA	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Isopropylbenzene	NA	NA	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Methyl Tertiary Butyl Ether	NA	NA	<1	<1	<1	<1	<5	<1	<0.5	<0.5
Methylene Chloride	<5	<5	<1	<1	<1	<1	<5	<1	<10	<10
Naphthalene	NA	NA	<1	<1	<1	<1	<1	<1	<0.5	<0.5
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Tetrachloroethene	14	0.68	3.65	<1	<1	<1	<1	<1	<0.5	<0.5
Toluene	4.2	NA	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Trichloroethene	14	22	15.3	15.3	12.3	15.1	10	9.8	11	10
Trichlorofluoromethane	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<0.5
1,2,4-Trimethylbenzene	NA	NA	<1	<1	<1	<1	<1	<1	<0.5	<0.5
1,3,5-Trimethylbenzene	NA	NA	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Total Xylenes	9	NA	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Vinyl Chloride	<1	7.4	5.25	4.03	2.64	3.82	2.5	20	2.8	2.9
1,1,1-Trichloroethane							<1	<1	<0.5	<0.5
tert-Butylbenzene							<1	<1	<0.5	<0.5
n-Propylbenzene							<1	<1	<0.5	<0.5
1,4-Dichlorobenzene										<0.5
Petroleum Hydrocarbons										
Test Method 8015 Modified										
TPH as Gasoline	72	<50	<50	<50	<50	<50	<50	<50	NA	NA
TPH as Diesel	920	500	229	140	684	599	<50	<50	NA	NA
TPH as Motor Oil	NA	NA	<250	<500	262	<250	<500	<500	NA	NA

* Concentrations reported in micrograms per liter, approximately equivalent to parts per billion.

[1] VOCs = Volatile organic compounds

[2] TPH = Total petroleum hydrocarbons quantified as gasoline, diesel, and motor oil. TPH-diesel and TPH-motor oil analyses include silica gel preparation procedure for all samples collected in November 2000.

[3] All historical groundwater data between August 1995 and May 2000 provided by Harding-Lawson Associates.

[4] November 2000 and May 2001 groundwater data compiled by Geomatrix Consultants, Inc.

[5] Detection likely represents chlorinated hydrocarbons that boil in the gasoline range.

[6] Detection likely represents chlorinated hydrocarbons that boil in the diesel range.

[7] February/March 2002 data compiled by URS Corporation.

Abbreviations:

NA = Not analyzed

r = Value is qualified as not detected, one discrete peak

u = Value is qualified as estimated due to presence in method blank

TABLE 6

SUMMARY OF HISTORICAL GROUNDWATER CHEMICAL DATA* -- VOCs[1]
Former Bay Area Drum Site
1212 Thomas Avenue
San Francisco, California

Well Number	MW-103								
Date Sampled	21-Jan-98[3]	13-May-98	18-Nov-98	13-May-99	18-Nov-99	25-May-00	15-Nov-00[4]	23-May-01[4]	25-Feb-02[7]
Test method	EPA 8010/8020	EPA 8010	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Volatile Organic Compounds									
Acetone	NA	NA	<10	<10	<10	<10	<50	<50	<10
Benzene	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
Bromobenzene	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Bromoform	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
sec-Butylbenzene	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Chlorobenzene	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
1,1-Dichloroethane	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
1,2-Dichloroethane	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
cis-1,2-Dichloroethene	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
trans-1,2-Dichloroethene	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Ethylbenzene	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
Isopropylbenzene	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Methyl Tertiary Butyl Ether	NA	NA	<1	<1	<1	<1	<5	<5	<0.5
Methylene Chloride	<5	<5	<1	<1	<1	<1	<5	<5	<10
Naphthalene	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Tetrachloroethene	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Toluene	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
Trichloroethene	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Trichlorofluoromethane	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5
1,2,4-Trimethylbenzene	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
1,3,5-Trimethylbenzene	NA	NA	<1	<1	<1	<1	<1	<1	<0.5
Total Xylenes	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,1,1-Trichloroethane							<1	<1	<0.5
tert-Butylbenzene							<1	<1	<0.5
n-Propylbenzene							<1	<1	<0.5
1,4-Dichlorobenzene									<0.5
Petroleum Hydrocarbons									
Test Method 8015 Modified									
TPH as Gasoline	<50	<50	<50	<50	<50	<50	<50	<50	NA
TPH as Diesel	**85**	<50	<50	<50	**727**	<50	<63	<50	NA
TPH as Motor Oil	NA	NA	<250	<500	**914**	<250	<630	<500	NA

* Concentrations reported in micrograms per liter, approximately equivalent to parts per billion.

1 VOCs = Volatile organic compounds

2 TPH = Total petroleum hydrocarbons quantified as gasoline, diesel, and motor oil. TPH-diesel and TPH-motor oil analyses include silica gel preparation procedure for all samples collected in November 2000.

3 All historical groundwater data between August 1995 and May 2000 provided by Harding-Lawson Associates.

4 November 2000 and May 2001 groundwater data compiled by Geomatrix Consultants, Inc.

5 Detection likely represents chlorinated hydrocarbons that boil in the gasoline range.

6 Detection likely represents chlorinated hydrocarbons that boil in the diesel range.

7 February/March 2002 data compiled by URS Corporation.

Abbreviations:

NA = Not analyzed

r = Value is qualified as not detected, one discrete peak

u = Value is qualified as estimated due to presence in method blank

TABLE 6

SUMMARY OF HISTORICAL GROUNDWATER CHEMICAL DATA* – VOCs[1]

Former Bay Area Drum Site
1212 Thomas Avenue
San Francisco, California

Well Number	MW-104		Duplicate			Duplicate		Duplicate		Duplicate		J-2 Duplicate		J-2 Duplicate	
Date Sampled	21-Jan-98[3]	12-May-98	12-May-98	19-Nov-98	13-May-99	13-May-99	17-Nov-99	17-Nov-99	25-May-00	25-May-00	16-Nov-00[4]	17-Nov-00[4]	25-May-01[4]	25-May-01[4]	25-Feb-02[7]
Test method	EPA 8010	EPA 8010	EPA 8010	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Volatile Organic Compounds															
Acetone	NA	NA	NA	<2000	<2500	<2500	<4000	<2000	<2500	<2500	<5000	<5000	<5000	<5000	<630
Benzene	<100	NA	NA	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
Bromobenzene	NA	NA	NA	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
Bromoform	<50	<100	<100	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<63
n-Butylbenzene	NA	NA	NA	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
sec-Butylbenzene	NA	NA	NA	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
Chlorobenzene	<50	<100	<100	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
Chloroethane	<100	<200	<200	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<63
Chloroform	<50	<100	<100	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
Chloromethane	<100	<200	<200	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<63
1,2-Dichlorobenzene	<50	<100	<100	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
1,1-Dichloroethane	<50	<100	<100	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
1,2-Dichloroethane	<50	<100	<100	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
cis-1,2-Dichloroethene	<50	<100	<100	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
trans-1,2-Dichloroethene	<50	<100	<100	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
Ethylbenzene	<100	NA	NA	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
Isopropylbenzene	NA	NA	NA	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
Methyl Tertiary Butyl Ether	NA	NA	NA	<200	<250	<250	<400	<200	<250	<250	<500	<500	<500	<500	<31
Methylene Chloride	<500	<1000	<1000	<200	<250	<250	<400	<200	<250	<250	<500	<500	<500	<500	<630
Naphthalene	NA	NA	NA	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
1,1,2,2-Tetrachloroethane	<50	<100	<100	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
Tetrachloroethene	**2,800**	**4,900**	**3,500**	**8,840**	**7,550**	**7,370**	**7,960**	**7,650**	**8,820**	**8,820**	**6,000**	**7,600**	**3,200**	**3,200**	**8,000**
Toluene	<100	NA	NA	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
Trichloroethene	<50	<100	<100	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
Trichlorofluoromethane	<50	<100	<100	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
1,2,4-Trimethylbenzene	NA	NA	NA	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
1,3,5-Trimethylbenzene	NA	NA	NA	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
Total Xylenes	<100	NA	NA	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
Vinyl Chloride	<100	<200	<200	<200	<250	<250	<400	<200	<250	<250	<100	<100	<100	<100	<31
1,1,1-Trichloroethane													<100	<100	<31
tert-Butylbenzene													<100	<100	<31
n-Propylbenzene													<100	<100	<31
1,4-Dichlorobenzene															<31
Petroleum Hydrocarbons															
Test Method 8015 Modified															
TPH as Gasoline	<210	<420	<380	<2120	<1,990(r)	<1,920(r)	<2150(r)	<2280(r)	<1,970(r)	<1,970(r)	<2,500	<2,500	**2,100**	<2,500	NA
TPH as Diesel	**300**	**99**	**96**	<50	<51(r)	<53(r)	**135**	**144**	**133**	**177**	<50	<50	<50	<50	NA
TPH as Motor Oil	NA	NA	NA	<250	<500	<500	<250	<250	<250	<250	<500	<500	<500	<500	NA

* Concentrations reported in micrograms per liter, approximately equivalent to parts per billion.

[1] VOCs = Volatile organic compounds

[2] TPH = Total petroleum hydrocarbons quantified as gasoline, diesel, and motor oil. TPH-diesel and TPH-motor oil analyses include silica gel preparation procedure for all samples collected in November 2000.

[3] All historical groundwater data between August 1995 and May 2000 provided by Harding-Lawson Associates.

[4] November 2000 and May 2001 groundwater data compiled by Geomatrix Consultants, Inc.

[5] Detection likely represents chlorinated hydrocarbons that boil in the gasoline range.

[6] Detection likely represents chlorinated hydrocarbons that boil in the diesel range.

[7] February/March 2002 data compiled by URS Corporation.

Abbreviations:

NA = Not analyzed

r = Value is qualified as not detected, one discrete peak

u = Value is qualified as estimated due to presence in method blank

TABLE 6

SUMMARY OF HISTORICAL GROUNDWATER CHEMICAL DATA* – VOCs[1]
Former Bay Area Drum Site
1212 Thomas Avenue
San Francisco, California

Well Number	RD-1	RD-2	RD-3
Date Sampled	4-Mar-02[7]	25-Feb-02[7]	25-Feb-02[7]
Test method	EPA 8260B	EPA 8260B	EPA 8260B
Volatile Organic Compounds			
Acetone	<10	<10	<10
Benzene	2.5	<0.5	<0.5
Bromobenzene	<0.5	<0.5	<0.5
Bromoform	<1	<1	<1
n-Butylbenzene	<0.5	<0.5	<0.5
sec-Butylbenzene	2.0	<0.5	<0.5
Chlorobenzene	0.5	<0.5	<0.5
Chloroethane	12	<1	<1
Chloroform	<0.5	<0.5	<0.5
Chloromethane	<1	<1	<1
1,2-Dichlorobenzene	1.0	<0.5	<0.5
1,1-Dichloroethane	14	2.3	<0.5
1,2-Dichloroethane	1.2	0.6	<0.5
cis-1,2-Dichloroethene	1.6	44	1.2
trans-1,2-Dichloroethene	<0.5	0.5	<0.5
Ethylbenzene	0.6	<0.5	<0.5
Isopropylbenzene	1.2	<0.5	<0.5
Methyl Tertiary Butyl Ether	1.1	0.9	<0.5
Methylene Chloride	<10	<10	<10
Naphthalene	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5
Tetrachloroethene	4.6	3.1	<0.5
Toluene	0.9	0.5	<0.5
Trichloroethene	1.0	14	<0.5
Trichlorofluoromethane	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	<0.5	<0.5	<0.5
Total Xylenes	0.6	<0.5	<0.5
Vinyl Chloride	12	1.6	<0.5
1,1,1-Trichloroethane	<0.5	1.5	<0.5
tert-Butylbenzene	1.0	<0.5	<0.5
n-Propylbenzene	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	0.8	<0.5	<0.5
Petroleum Hydrocarbons			
Test Method 8015 Modified			
TPH as Gasoline	NA	NA	NA
TPH as Diesel	NA	NA	NA
TPH as Motor Oil	NA	NA	NA

* Concentrations reported in micrograms per liter, approximately equivalent to parts per billion.
[1] VOCs = Volatile organic compounds
[2] TPH = Total petroleum hydrocarbons quantified as gasoline, diesel, and motor oil. TPH-diesel and TPH-motor oil analyses include silica gel preparation procedure for all samples collected in November 2000.
[3] All historical groundwater data between August 1995 and May 2000 provided by Harding-Lawson Associates.
[4] November 2000 and May 2001 groundwater data compiled by Geomatrix Consultants, Inc.
[5] Detection likely represents chlorinated hydrocarbons that boil in the gasoline range.
[6] Detection likely represents chlorinated hydrocarbons that boil in the diesel range.
[7] February/March 2002 data compiled by URS Corporation.

Abbreviations:

NA = Not analyzed

r = Value is qualified as not detected, one discrete peak

u = Value is qualified as estimated due to presence in method blank

TABLE 7

FIELD QUALITY CONTROL SAMPLE SUMMARY
FEBRUARY AND MARCH 2002

Former Bay Area Drum Site
1212 Thomas Avenue
San Francisco, California

Concentrations reported in micrograms per liter (µg/l)

Sample No.	Type of Sample	Analyte	Original Sample	Field Duplicate	Relative Percent Difference
BAD1GW-022502	Field Duplicate (MW-102) (2/25/02)	1,1-dichloroethane	2.8	2.9	3.5%
		cis-1,2-dichloroethene	13	12	8.0%
		1,2-dichloroethane	3.5	3.5	0%
		1,2-dichlorobenzene	2.0	2.0	0%
		Trichloroethene	11	10	9.5%
		Vinyl Chloride	2.0	2.0	0%
Trip Blank	Travel Blank (3/4/02)	VOCs	ND		
Trip Blank	Travel Blank (2/26/02)	VOCs	ND	--	--

1 ND = Analyte not detected above laboratory reporting limits.
2 NC = Not calculated for detections less than reporting limits.

TABLE 8

LABORATORY QUALITY CONTROL SAMPLE SUMMARY
FEBRUARY AND MARCH 2002

Former Bay Area Drum Site
1212 Thomas Avenue
San Francisco, California

QC Sample	Sample ID	ANALYTE	SPIKE RECOVERY [%]	SPIKE DUPLICATE RECOVERY [%]	RPD[1] [%]
Blank Spike	QC Batch 70459	1,1-dichloroethene	88	87	1
		Benzene	88	88	0
		Trichloroethene	81	83	2
		Toluene	88	88	0
		Chlorobenzene	95	96	1
Blank Spike	QC Batch 70488	1,1-dichloroethene	90	--	--
		Benzene	93	--	--
		Trichloroethene	90	--	--
		Toluene	98	--	--
		Chlorobenzene	103	--	--
Blank Spike	QC Batch 70690	1,1-dichloroethene	104	100	4
		Benzene	107	105	2
		Trichloroethene	104	103	1
		Toluene	106	103	2
		Chlorobenzene	104	101	3
Matrix Spike	B-207GW-022602	1,1-dichloroethene	103	105	2
		Benzene	97	97	0
		Trichloroethene	95	93	2
		Toluene	98	97	1
		Chlorobenzene	106	102	4

[1] RPD = Relative percent difference.

APPENDIX A

WELL CONSTRUCTION DIAGRAMS AND WELL COMPLETION REPORTS

Project: Bay Area Drum Site Remediation
Project Location: Hunters Point, San Francisco, California
Project Number: 51-00270002.00 00002

Key to Log of Boring / Well

Elevation feet	Depth, feet	SAMPLES Type	SAMPLES Number	SAMPLES Recovery, inches	SAMPLES Soil Core PID, ppm	Graphic Log	MATERIAL DESCRIPTION	Well Completion Schematic	FIELD NOTES AND WELL DETAILS
1	2	3	4	5	6	7	8	9	10

COLUMN DESCRIPTIONS

1. **Elevation:** Elevation in feet referenced to mean sea level (MSL) or site datum.
2. **Depth:** Depth in feet below the ground surface.
3. **Sample Type:** Type of sample collected at depth interval shown; sampler symbols are explained below.
4. **Sample Number:** Sample identification number.
5. **Recovery:** Length in inches of sample actually recovered in driven or pushed sampler; "NA" indicates data not available.
6. **Soil Core PID::** Photo-ionization device field sample reading in parts per million (ppm).
7. **Graphic Log:** Graphic depiction of subsurface material encountered; typical symbols are explained below.
8. **Material Description:** Description of material encountered; may include color, moisture, grain size, and density/consistency.
9. **Well Completion Schematic:** Schematic of well installation; materials are listed in header block and alongside well schematic; graphic symbols are explained below.
10. **Field Notes and Well Details:** Well construction materials and installation details; also comments and observations regarding drilling or sampling made by driller or field personnel.

TYPICAL SOIL GRAPHIC SYMBOLS

- SAND (SP/SW)
- LEAN CLAY (CL)
- SILT (ML)
- GRAVEL (GP/GW)
- SILTY SAND (SM)
- FAT CLAY (CH)
- CLAYEY SILT (ML)
- SILTY GRAVEL (GM)
- CLAYEY SAND (SC)
- SILTY CLAY (CL)
- CLAYEY GRAVEL (GC)
- Shell Fragments

TYPICAL WELL GRAPHIC SYMBOLS

- Blank casing in grout
- Blank casing in filter sand
- Blank casing in cement-bentonite slurry
- Slotted casing in filter sand
- Blank casing in bentonite chips or pellets
- Native backfill / slough

TYPICAL SAMPLER GRAPHIC SYMBOLS

- Continuous soil core
- Modified California with brass liners
- Standard Penetration Test (SPT)
- Shelby tube
- Grab sample
- Water sample

OTHER GRAPHIC SYMBOLS

- First water encountered at time of drilling and sampling (ATD)
- Static water level measured in boring or well at specified time after drilling
- Change in material properties within a lithologic stratum
- Inferred contact between strata or gradational change in lithology

GENERAL NOTES

1. Soil classifications are based on the Unified Soil Classification System. Descriptions and stratum lines are interpretive; actual lithologic changes may be gradual. Field descriptions may have been modified to reflect results of lab tests.
2. Descriptions on these logs apply only at the specific boring locations and at the time the borings were advanced. They are not warranted to be representative of subsurface conditions at other locations or times.

Project: Bay Area Drum Site Remediation Project Location: Hunters Point, San Francisco, California Project Number: 51-00270002.00 00002	Log of Boring/Well RD-1 Sheet 1 of 1

Date(s) Drilled and Installed	2/27/02	Logged By	S. Robinson	Reviewed By	S. Robinson
Drilling Method	Hollow-Stem Auger (7-inch-OD); Hand Auger in upper 5 feet	Drilling Contractor	Gregg Drilling & Testing (Tony)	Total Depth of Borehole	17.0 feet
Sampling Method	Continuous soil core	Groundwater Level(s)	11 feet bgs ATD	Top of Casing Elevation	7.86 feet MSL
Size and Type of Well Casing	2-inch-dia. Schedule 40 PVC	Screen Perforation	0.020-inch horizontal slot 7-17 ft	Ground Surface Elevation	8.28 feet MSL
Seal or Backfill	Grout 0-4 ft; bentonite chips 4-5 ft	Location	Other CBI		

Elevation feet	Depth, feet	SAMPLES Type	Number	Recovery, inches	Soil Core PID, ppm	Graphic Log	MATERIAL DESCRIPTION	Well Completion Schematic	FIELD NOTES AND WELL DETAILS
8	0						Asphalt surface		Flushmount well box, traffic-rated
							CLAYEY SAND with GRAVEL (SC) [Fill] Loose, moist, dark grayish green (5G 4/1) and dark brown (7.5YR 3/3), gravel up to 2-1/2 inches		7-inch-dia. boring
6	2								Grout (0-4 ft)
4	4								Bentonite chips (4-5 ft)
			1	16	0.0				2-inch-dia. Sch. 40 PVC blank casing (to 7 ft)
2	6		2	18	0.0				
0	8		3	18	0.0		SILTY CLAY (CL) Soft, moist, bluish black (5PB 2.5/1), low plasticity		Lonestar #2/12 filter sand (5-17 ft)
-2	10		4	18	0.0		CLAYEY SILT (ML) Very stiff to hard, moist, yellowish brown (10YR 5/6) and dark yellowish brown (10YR 3/6), nonplastic, oxidized, angular blocky ped structure of weathered bedrock		2-inch-dia. Sch. 40 PVC screen, 0.020-inch slot (7-17 ft)
-4	12		5	12	0.0		CLAYEY GRAVEL (GC) [Highly Weathered Graywacke Bedrock] Wet, dark grayish green (5G 4/1) with strong brown (7.5YR 4/6) oxidation, fine to medium gravel, angular		
-6	14		6	9					
-8	16		7	6	0.0				
-10	18		8	6	0.0				
	20						Boring drilled and sampled to total depth of 17.0 feet		

Report: ENV_12AS/W_CLEV+/-USCS; File: HUNTERPT.GPJ; 4/22/2002 RD-01

URS

Project: Bay Area Drum Site Remediation Project Location: Hunters Point, San Francisco, California Project Number: 51-00270002.00 00002	Log of Boring/Well RD-2 Sheet 1 of 1

Date(s) Drilled and Installed	2/21/02	Logged By	S. Robinson	Reviewed By	S. Robinson
Drilling Method	Hollow-Stem Auger (7-inch-OD); Hand Auger in upper 5 feet	Drilling Contractor	Gregg Drilling & Testing (Chris)	Total Depth of Borehole	17.0 feet
Sampling Method	Continuous soil core	Groundwater Level(s)	7.5 feet bgs ATD	Top of Casing Elevation	4.83 feet MSL
Size and Type of Well Casing	2-inch-dia. Schedule 40 PVC	Screen Perforation	0.020-inch horizontal slot 7-17 ft	Ground Surface Elevation	5.09 feet MSL
Seal or Backfill	Grout 0-3 ft; bentonite pellets 3-5 ft	Location	Other CBI		

Elevation feet	Depth, feet	SAMPLES Type	Number	Recovery, inches	Soil Core PID, ppm	Graphic Log	MATERIAL DESCRIPTION	Well Completion Schematic	FIELD NOTES AND WELL DETAILS
	0						Soil surface		Flushmount well box, traffic-rated
4							SANDY SILT with GRAVEL (ML) [Fill] Loose, moist, grayish green (5G 4/2)		
	2								Grout (0-3 ft)
-2									7-inch-dia. boring
	4								Bentonite pellets (3-5 ft)
0									
	6		1	18	0.0				2-inch-dia. Sch. 40 PVC blank casing (to 7 ft)
-2			2	18	0.0		Becomes wet, oxidized dark yellowish brown (10YR 3/6), medium gravel	▽	
	8		3	18	0.0		SILTY CLAY (CL) Soft, wet, reddish black (10R 2.5/1), low plasticity, organic-rich, ~15-25% shell fragments		Lonestar #2/12 filter sand (5-17 ft)
-4									
	10		4	18	0.0		No shell fragments or roots		2-inch-dia. Sch. 40 PVC screen, 0.020-inch slot (7-17 ft)
-6			5	10	0.0				
	12								
-8			6	16	0.0		SANDY SILT (ML) Soft, wet, dark yellowish brown (10YR 4/4), medium plasticity		
	14		7	18	0.0				
-10							Becomes yellowish brown (10YR 5/8); contains root traces and iron nodules		
	16		8	18	0.0				
-12							CLAY (CH) Stiff, damp, very pale brown (10YR 8/2), high plasticity		
	18						Boring drilled and sampled to total depth of 17.0 feet		
-14									
	20								

Report: ENV_12AS/W_CLEV+/-USCS; File: HUNTERPT.GPJ; 4/22/2002 RD-02

URS

Project: Bay Area Drum Site Remediation Project Location: Hunters Point, San Francisco, California Project Number: 51-00270002.00 00002	Log of Boring/Well RD-3 Sheet 1 of 1

Date(s) Drilled and Installed	2/21/02	Logged By	S. Robinson	Reviewed By	S. Robinson
Drilling Method	Hollow-Stem Auger (7-inch-OD); Hand Auger in upper 5 feet	Drilling Contractor	Gregg Drilling & Testing (Chris)	Total Depth of Borehole	17.0 feet
Sampling Method	Continuous soil core	Groundwater Level(s)	8 feet bgs ATD	Top of Casing Elevation	1.88 feet MSL
Size and Type of Well Casing	2-inch-dia. Schedule 40 PVC	Screen Perforation	0.020-inch horizontal slot 7-17 ft	Ground Surface Elevation	2.16 feet MSL
Seal or Backfill	Grout 0-4 ft; bentonite pellets 4-5 ft	Location	Other CBI		

Elevation feet	Depth, feet	SAMPLES Type	Number	Recovery, inches	Soil Core PID, ppm	Graphic Log	MATERIAL DESCRIPTION	Well Completion Schematic	FIELD NOTES AND WELL DETAILS
2	0						Asphalt surface		Flushmount well box, traffic-rated
							SANDY CLAY with GRAVEL (CL) [Fill] Medium stiff, moist, grayish green (5G 4/2), fine to medium gravel		7-inch-dia. boring
0	2								Grout (0-4 ft)
-2	4								Bentonite pellets (4-5 ft)
-4	6		1	16	0.0				2-inch-dia. Sch. 40 PVC blank casing (to 7 ft)
			2	18	0.0				
-6	8						SILTY SAND (SM) Loose, very moist, dark grayish green (5G 4/1), fine-grained sand, ~3-7% shell fragments		Lonestar #2/12 filter sand (5-17 ft)
			3	18	0.0		Increase in shell fragments to ~15-25%		
-8	10		4	16	0.0		CLAY (CL) Soft, moist, bluish black (10B 3/1), root traces		2-inch-dia. Sch. 40 PVC screen, 0.020-inch slot (7-17 ft)
-10	12		5	18	0.0		SILTY CLAY (CL) Medium stiff, moist, dark yellowish brown (10YR 4/4), medium plasticity, ~10-15% roots		
			6	18	0.0		CLAY (CH) Medium stiff, wet, dark grayish green (5G 4/1), high plasticity		
-12	14		7	18	0.0		SILTY SAND (SM) Loose, wet, dark grayish green (5G 4/1), fine-grained sand, ~10-15% roots and root traces		
-14	16		8	18	0.0		Decrease in roots to ~3-5%		
-16	18						Boring drilled and sampled to total depth of 17.0 feet		
	20								

Report: ENV_12AS/W_CLEV+/-USCS; File: HUNTERPT.GPJ; 4/22/2002 RD-03

URS

DUPLICATE
Driller's Copy
Page 1 of 1
Owner's Well No. RD-1
Date Work Began 2/27/02, Ended 2/27/02
Local Permit Agency City & County of San Francisco
Permit No. 2227 Permit Date 2/20/02

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. 809700

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD Hollow Stem Auger FLUID ___

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0		Clayey sand w/ gravel (SC) [Fill]
1		- loose, moist, dark grayish green
2		and dark brown gravel
3		
4		
5		
6		
7		
8		Silty clay (CL)
9		Clayey silt (ML)
10		
11		Clayey gravel (GC) [Highly weathered
12		Graywacke Bedrock]
13		
14		
15		
16		
17		

TOTAL DEPTH OF BORING 17 (Feet)
TOTAL DEPTH OF COMPLETED WELL 17 (Feet)

WELL OWNER

Name Bay Area Drum Ad Hoc PRP Group
Mailing Address 1212 Thomas Ave
San Francisco CA 94124
CITY STATE ZIP

WELL LOCATION

Address 1212 Thomas Ave
City San Francisco
County San Francisco
APN Book ___ Page ___ Parcel ___
Township ___ Range ___ Section ___

Other CBI

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 12 (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 9.40 (Ft.) & DATE MEASURED 3/4/02
ESTIMATED YIELD * NA (GPM) & TEST TYPE NA
TEST LENGTH NA (Hrs.) TOTAL DRAWDOWN NA (Ft.)
* *May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	7	7	✓				Sch. 40 PVC	2	Sch. 40	
7	17	7		✓			PVC	2	Sch. 40	0.020

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CE-MENT (✓)	BEN-TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	4	✓			
4	5		✓		
5	17			✓	Lone Star #2/12 Sand

ATTACHMENTS (✓)

✓ Geologic Log
✓ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Jennifer Low, URS Corporation for Gregg Drilling
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

500 12th St., Suite 200 Oakland CA 94607
ADDRESS CITY STATE ZIP

Signed [signature] 5/2/02 485165
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 155 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

DUPLICATE
Driller's Copy
Page 1 of 1
Owner's Well No. RO-2
Date Work Began 2/21/02, Ended 2/21/02
Local Permit Agency City & County of San Francisco
Permit No. 2227 Permit Date 2/20/02

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. 809701

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD Hollowstem Auger FLUID ___

DEPTH FROM SURFACE Ft. to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	Sandy silt with gravel (ML) [Fill]
1	
2	
3	
4	
5	
6	
7	
8	Silty Clay (CL)
9	
10	
11	
12	
13	Sandy silt (ML)
14	
15	
16	
17	Clay (CH)

TOTAL DEPTH OF BORING 17 (Feet)
TOTAL DEPTH OF COMPLETED WELL 17 (Feet)

WELL OWNER
Name Bay Area Drum Ad Hoc PRP Group
Mailing Address 1212 Thomas Ave.
City San Francisco State CA Zip 94124

WELL LOCATION
Address 1212 Thomas Ave
City San Francisco
County San Francisco
APN Book ___ Page ___ Parcel ___
Township ___ Range ___ Section 902144.43

Other CBI

WATER LEVEL & YIELD OF COMPLETED WELL
DEPTH TO FIRST WATER 7.5 (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 1.89 (Ft.) & DATE MEASURED 2/25/02
ESTIMATED YIELD* NA (GPM) & TEST TYPE NA
TEST LENGTH NA (Hrs.) TOTAL DRAWDOWN NA (Ft.)
** May not be representative of a well's long-term yield.*

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	CASING (S) TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0 – 7	7	✓				PVC	2	Sch. 40	
7 – 17	7		✓			PVC	2	Sch. 40	0.020

DEPTH FROM SURFACE Ft. to Ft.	ANNULAR MATERIAL TYPE: CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0 – 4	✓			
4 – 5		✓		
5 – 17			✓	Lonestar #2/12 sand

ATTACHMENTS (✓)
✓ Geologic Log
✓ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME Jennifer Law, URS Corporation for Gregg Drilling (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS 500 12th St., Suite 200 Oakland CA 94607 (CITY, STATE, ZIP)
Signed [signature] WELL DRILLER/AUTHORIZED REPRESENTATIVE
DATE SIGNED 5/2/02 C-57 LICENSE NUMBER 485165

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

DUPLICATE
Driller's Copy

Page 1 of 1
Owner's Well No. RD-3
Date Work Began 2/21/02, Ended 2/21/02
Local Permit Agency City and County of San Francisco
Permit No. 2227 Permit Date 2/20/02

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. 809702

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD Hollow Stem Auger FLUID ___

DEPTH FROM SURFACE Ft. to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	Sandy clay with gravel (CL) [Fill]
1	
2	
3	
4	
5	
6	
7	
8	Silty Sand (SM)
9	
10	Clay (CL)
11	Silty Clay (CL)
12	
13	Clay (CH)
14	Silty Sand (SM)
15	
16	
17	

TOTAL DEPTH OF BORING 17 (Feet)
TOTAL DEPTH OF COMPLETED WELL 17 (Feet)

WELL OWNER
Name Bay Area Dram Ad Hoc PRP Group
Mailing Address 1212 Thomas Ave.
CITY San Francisco STATE CA ZIP 94124

WELL LOCATION
Address 1212 Thomas Ave.
City San Francisco
County San Francisco
APN Book ___ Page ___ Parcel ___
Township ___ Range ___ Section ___

Other CBI

WATER LEVEL & YIELD OF COMPLETED WELL
DEPTH TO FIRST WATER 8 (Ft) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 6.94 (Ft) & DATE MEASURED 2/25/02
ESTIMATED YIELD * NA (GPM) & TEST TYPE NA
TEST LENGTH NA (Hrs.) TOTAL DRAWDOWN NA (Ft.)
** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0 to 7	7	✓				PVC	2	Sch. 40	
7 to 17	7		✓			PVC	2	Sch 40	0.20

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft. to Ft.	TYPE: CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0 to 4	✓			
4 to 5		✓		
5 to 17			✓	Lonestar #2/12 Sand

ATTACHMENTS (✓)
✓ Geologic Log
✓ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME Jennifer Low, DRS Corporation for Gregg Drilling
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS 500 12th St., Suite 200 CITY Oakland STATE CA ZIP 94607
Signed [signature] WELL DRILLER/AUTHORIZED REPRESENTATIVE
DATE SIGNED 5/2/02 C-57 LICENSE NUMBER 485165

DWR 188 REV. 11-97 IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

DUPLICATE
Driller's Copy
Page 1 of 1

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. 809710

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. MW-101
Date Work Began 4/1/02, Ended 4/2/02
Local Permit Agency City and County of San Francisco
Permit No. _____ Permit Date 3/6/02

GEOLOGIC LOG

ORIENTATION (✓) ___ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD hollow stem auger FLUID _____

DEPTH FROM SURFACE Ft. to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
	2" well (15.5' deep) was abandoned using overdrilling method. Hole was filled with neat cement. Well box etc. was removed and disposed

TOTAL DEPTH OF BORING _____ (Feet)
TOTAL DEPTH OF COMPLETED WELL _____ (Feet)

WELL OWNER
Name Bay Area Drum Ad Hoc PRP Group
Mailing Address 12 12 Thomas Ave
San Francisco CA 94124
CITY STATE ZIP

WELL LOCATION
Address 212 Thomas Ave (located on Hawes St.)
City San Francisco
County ↓ ↓
APN Book _____ Page _____ Parcel _____
Township _____ Range _____ Section _____

Other CBI

WATER LEVEL & YIELD OF COMPLETED WELL
DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____
ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)
** May not be representative of a well's long-term yield.*

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	CASING (S) TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)

DEPTH FROM SURFACE Ft. to Ft.	ANNULAR MATERIAL TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)

ATTACHMENTS (✓)
___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other _____
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME Kennedy Law for Gregg Drilling
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS 500 12th Street, Suite 200 Oakland CA 94607
CITY STATE ZIP
Signed Christopher Prince
WELL DRILLER/AUTHORIZED REPRESENTATIVE
DATE SIGNED 5/2/02 C-57 LICENSE NUMBER 485165

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

DUPLICATE
Driller's Copy
Page 1 of 1

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. 809709

Owner's Well No. B-205
Date Work Began 4/1/02, Ended 4/2/02
Local Permit Agency City and County of San Francisco
Permit No. _____ Permit Date 3/6/02

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ___ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD hollow stem auger FLUID _____

DEPTH FROM SURFACE FL. to FL.	DESCRIPTION *Describe material, grain size, color, etc.*
	4" well (22' deep) was abandoned by pressure grouting with neat cement. Well box, etc. was removed and disposed.

TOTAL DEPTH OF BORING _____ (Feet)
TOTAL DEPTH OF COMPLETED WELL _____ (Feet)

WELL OWNER
Name Department of Toxic Substances Control
Mailing Address 700 Heinz Ave. Suite 200
Berkeley CA 94710
CITY STATE ZIP

WELL LOCATION
Address 1212 Thomas Ave. (off State Parks land)
City San Francisco
County ↓ ↓
APN Book _____ Page _____ Parcel _____
Township _____ Range _____ Section _____

Other CBI

WATER LEVEL & YIELD OF COMPLETED WELL
DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____
ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)
** May not be representative of a well's long-term yield.*

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	CASING (S) TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)

DEPTH FROM SURFACE Ft. to Ft.	ANNULAR MATERIAL TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)

ATTACHMENTS (✓)
___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other _____
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME Jennifer Law XXXXXX for Gregg Drilling
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
500 12th Street, Suite 200 Oakland CA 94607
ADDRESS CITY STATE ZIP
Signed [signature] 5/2/02 485165
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

DUPLICATE
Driller's Copy
Page 1 of 1
Owner's Well No. B-206
Date Work Began 4/1/02, Ended 4/2/02
Local Permit Agency City and County of San Francisco
Permit No. _____ Permit Date 3/6/02

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. **809706**

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ___ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD hollow stem auger
DEPTH FROM SURFACE Ft. to Ft.
DESCRIPTION
Describe material, grain size, color, etc.

4" well (19' deep) was abandoned using overdrill method. Hole was grouted with heal cement, well box and etc were removed and disposed

TOTAL DEPTH OF BORING 19' (Feet)
TOTAL DEPTH OF COMPLETED WELL _____ (Feet)

WELL OWNER

Name Department of Toxic Substances Control
Mailing Address 700 Heinz Ave., Suite 200
Berkeley CA 94710
CITY STATE ZIP

WELL LOCATION

Address 1212 Thomas Ave ~~[illegible]~~
City San Francisco
County ↓ ↓
APN Book _____ Page _____ Parcel _____
Township _____ Range _____ Section _____

Other CBI

[redacted]

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____
ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)
* *May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft. to Ft.	TYPE CE-MENT (✓)	BEN-TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Jennifer Low, URS Corporation for Gregg Drilling
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
500 12th Street, Suite 200 Oakland CA 94607
ADDRESS CITY STATE ZIP
Signed [signature] WELL DRILLER/AUTHORIZED REPRESENTATIVE
5/2/02 DATE SIGNED
485165 C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

DUPLICATE
Driller's Copy
Page 1 of 1
Owner's Well No. DMMW-6
Date Work Began 4/1/02, Ended 4/2/02
Local Permit Agency Cityand County of San Francisco
Permit No. _____ Permit Date 3/6/02

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. 809708

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ___ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD hollowstem auger FLUID _____

DEPTH FROM SURFACE Ft. to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
	4th well (33.5' deep) was abandoned using pressure grout method (filled with neat cement). Well box, etc, was removed and disposed

TOTAL DEPTH OF BORING _____ (Feet)
TOTAL DEPTH OF COMPLETED WELL _____ (Feet)

WELL OWNER
Name Department of Toxic Substances Contr
Mailing Address 700 Heinz Ave., Suite 200
City Berkeley State CA Zip 94710

WELL LOCATION
Address 1212 Thomas Ave. (on State Parks land)
City San Francisco
County ↓ ↓
APN Book _____ Page _____ Parcel _____
Township _____ Range _____ Section _____

Other CBI

WATER LEVEL & YIELD OF COMPLETED WELL
DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____
ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)
** May not be representative of a well's long-term yield.*

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	CASING (S) TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)

DEPTH FROM SURFACE Ft. to Ft.	ANNULAR MATERIAL TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)

ATTACHMENTS (✓)
___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other _____
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME Jennifer Low, URS Corporation for Gregg Drilling
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS 500 12th Street, Suite 200 Oakland CA 94607
Signed [signature] WELL DRILLER/AUTHORIZED REPRESENTATIVE
DATE SIGNED 5/2/02
C-57 LICENSE NUMBER 485165

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

DUPLICATE
Driller's Copy
Page 1 of 1
Owner's Well No. DMMW-7
Date Work Began 4/1/02, Ended 4/2/02
Local Permit Agency City and County of San Francisco
Permit No. _____ Permit Date 3/6/02

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. 809707

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ___ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD hollow stem auger FLUID _____

DEPTH FROM SURFACE Ft. to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
	4" well (49.5' deep) was abandoned using [redacted] pressure grout method. Hole was filled with neat cement. Well box, etc. was removed and disposed

TOTAL DEPTH OF BORING 49.5 (Feet)
TOTAL DEPTH OF COMPLETED WELL _____ (Feet)

WELL OWNER
Name Department of Toxic Substances Control
Mailing Address 700 Heinz Ave., Suite 200
City Berkeley State CA Zip 94710

WELL LOCATION
Address 1212 Thomas Ave. (on Van Dyke)
City San Francisco
County *
APN Book _____ Page _____ Parcel _____
Township _____ Range _____ Section _____

[redacted]
Other CBI

WATER LEVEL & YIELD OF COMPLETED WELL
DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____
ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)
* *May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft. to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)

ATTACHMENTS (✓)
___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other _____
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME Jennifer Low URS Corporation for Gregg Drilling
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS 500 12th Street, Suite 200 CITY Oakland STATE CA ZIP 94607
Signed [signature] WELL DRILLER/AUTHORIZED REPRESENTATIVE
DATE SIGNED 5/2/02 C-57 LICENSE NUMBER 485165

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

DUPLICATE
Driller's Copy
Page 1 of 1
Owner's Well No. DNMW-8
Date Work Began 4/1/02, Ended 4/2/02

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. 809705

Local Permit Agency City and County of San Francisco
Permit No. _____ Permit Date 3/6/02

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ___ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD Hollow Stem Auger FLUID _____

DEPTH FROM SURFACE Ft. to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
	4" well (28' deep) was abandoned by pressure grouting with cement. Well box, etc. were removed and disposed of.

TOTAL DEPTH OF BORING 28 (Feet)
TOTAL DEPTH OF COMPLETED WELL _____ (Feet)

WELL OWNER
Name Department of Toxic Substances Control
Mailing Address 700 Heinz Ave., Suite 200
City Berkeley State CA Zip 94710

WELL LOCATION
Address 1212 Thomas Ave. (on Underwood Ave.)
City San Francisco
County ↓
APN Book _____ Page _____ Parcel _____
Township no s. Range no ds available

Other CBI

WATER LEVEL & YIELD OF COMPLETED WELL
DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____
ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)
* *May not be representative of a well's long-term yield.*

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (inches)	CASING (S) TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)

DEPTH FROM SURFACE Ft. to Ft.	ANNULAR MATERIAL TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)

ATTACHMENTS (✓)
___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other _____
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME Jennifer Law URS Corporation for Gregg Drilling
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS 500 12th St., Suite 200 Oakland CA 94607
Signed Christopher Prunner
WELL DRILLER/AUTHORIZED REPRESENTATIVE
DATE SIGNED 5/2/02 C-57 LICENSE NUMBER 485165

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

DUPLICATE
Driller's Copy
Page 1 of 1
Owner's Well No. DMMW-9
Date Work Began 4/1/02 Ended 4/2/02
Local Permit Agency City and County of San Francisco
Permit No. _____ Permit Date 3/6/02

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. 809704

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ___ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD Hollow Stem Auger FLUID _____

DEPTH FROM SURFACE Ft. to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
	4" well (42.5 deep) was abandoned using pressure grout method. Well was grouted with cement. Well box, etc. were removed and disposed of.

TOTAL DEPTH OF BORING 42.5 (Feet)
TOTAL DEPTH OF COMPLETED WELL _____ (Feet)

WELL OWNER
Name Department of Toxic Substances Control
Mailing Address 700 Heinz Ave., Suite 200
Berkeley CA 94710
CITY STATE ZIP

WELL LOCATION
Address 212 Thomas Ave. (located on Ingalls St)
City San Francisco
County ↓ ↓
APN Book _____ Page _____ Parcel _____
Township _____ Range _____ Section _____

Other CBI

WATER LEVEL & YIELD OF COMPLETED WELL
DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____
ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)
* *May not be representative of a well's long-term yield.*

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	CASING (S) TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)

DEPTH FROM SURFACE Ft. to Ft.	ANNULAR MATERIAL TYPE: CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)

ATTACHMENTS (✓)
___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other _____
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME Kenneth Low, URS Corporation for Gregg Drilling
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS ~~Berk~~ 500 12th Street, Suite 200 Oakland CA 94607
CITY STATE ZIP
Signed [signature] 5/2/02 485165
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 11-97
IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

DUPLICATE
Driller's Copy
Page 1 of 1
Owner's Well No. DMMW-10
Date Work Began 4/1/02, Ended 4/2/02
Local Permit Agency City and County of San Francisco
Permit No. _____ Permit Date 3/6/02

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. 809703

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ___ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD Hollow Stem Auger FLUID _____

DEPTH FROM SURFACE Ft. to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
	4" well was overdrilled and cuttings were removed and disposed of. Well was 18.5' deep. Well box, etc. were removed and disposed. Hole was grouted with cement.

TOTAL DEPTH OF BORING 18.5 (Feet)
TOTAL DEPTH OF COMPLETED WELL _____ (Feet)

WELL OWNER
Name Department of Toxic Substances Control
Mailing Address 700 Heinz Ave. Suite 200
Berkeley CA 94710
CITY STATE ZIP

WELL LOCATION
Address 1212 Thomas Ave. (located on Ingalls St.)
City San Francisco
County San Francisco
APN Book _____ Page _____ Parcel _____
Township _____ Range _____ Section _____

Other CBI

WATER LEVEL & YIELD OF COMPLETED WELL
DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____
ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)
** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft. to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)

ATTACHMENTS (✓)
___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other _____
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME Jennifer Low for Gregg Drilling
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS 500 12th Street, Suite 200 CITY Oakland STATE CA ZIP 94607
Signed [signature] WELL DRILLER/AUTHORIZED REPRESENTATIVE
DATE SIGNED 5/2/02
C-57 LICENSE NUMBER 485165

DWR 188 REV. 11-97 IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

APPENDIX B

GROUNDWATER SAMPLING RECORDS

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET | **WELL IDENTIFICATION: B-201GW-022502 DATE: 02/25/02**

Project Name: Bay Area Drum, San Francisco, CA Project Task Manager: Jennifer Low

Weather Conditions: Sunny, warm ~70°F

Well Description: 2" 3" (4") 5" 6" Other: ____ Well Type: (PVC) Stainless Steel Other: ____

Is Well Secured? (Yes) / No Bolt Size: N/A Type of Lock / Lock Number: Dolphin

Recorded Well Depth: 16.0' Screen Interval: 5.0'-15.0' Pump Intake set @ 10.52' Feet, TOC

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: ____

Pump Lines: NA (New) / Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (Peristaltic Pump) Other: ____

YSI Meter Serial Noumber: 208541R YSI Probe Serial No.: 00C1522

Meter Calibrated: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Solinst Serial No.: 25742 P.I.D. Reading: 0 ppm @ Well Head

Water Level at Start (DTW): 5.35 Water Level Prior To Sampling: 5.52

TD = 15.52 - 5.35 (DTW) = 10.17 (ft.of water) x "K" = 6.64 (Gals./CV) x 3 (No. of CV) = 19.92 (Gals.)

"K"= 0.04(1" well) "K"= 0.163(2" well) (**"K" = 0.653(4" well)**) "K" = 1.02(5" well) "K" = 1.46(6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (ml)	pH	Temp. (°C)	Specific Conductance mS (uS)	DO (mg/L)	ORP (mV)	Turbidity (NTU's)	Pumping Water Level/ Color / Flow Rate (mg/min)
02/25/02	12:59	Initial	7.80	16.37	373	5.90	176.7	23.3	5.37' w/tube set 5.39/lt yell / NA
	13:01	500	7.38	16.01	365	4.84	198.7	6.2	5.44 / " / 166
	13:03	1000	7.25	15.88	365	4.71	209.7	5.0	5.45 / " / 250
	13:06	1500	7.17	16.00	365	4.63	218.0	6.0	5.46 / " / 166
	13:09	2000	7.13	15.91	364	4.57	224.4	5.4	5.48 / " / 166
	13:11	2500	7.10	15.95	365	4.43	228.6	4.0	5.50 / " / 250
	13:13	3000	7.10	15.95	364	4.42	229.4	3.9	5.52 / " / 250

Total Discharge: 3.2 (Liters) / Gals Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: ____

Date/Time Sampled: 2/25/02 @ 13:15 Analysis: EPA 8260B, SVOCs Number of Bottles: 4

QA/QC: None @ — as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: ____

Sampled By: Jacqueline Lee Signature: Jacki L

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www.envsampling.com

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: B-207GW-022602 DATE: 2/26/02

Project Name: Bay Area Drum, San Francisco, CA Project Task Manager: Jennifer Low

Weather Conditions: Sunny, clear skies, warm expected highs of low 70°s°F

Well Description: 2" 3" (4") 5" 6" Other: ____ Well Type: (PVC) Stainless Steel Other: ____

Is Well Secured? Yes / No Bolt Size: N/A Type of Lock / Lock Number: Dolphin

Recorded Well Depth: 19.0' Screen Interval: 7.5'-17.5' Pump Intake set @ 12.22 Feet, TOC

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: ____

Pump Lines: NA (New) / Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (Peristaltic Pump) Other: ____

YSI Meter Serial Noumber: 208541R YSI Probe Serial No.: 00C1522

Meter Calibrated: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Solinst Serial No.: 25742 P.I.D. Reading: -0- ppm @ Well Head

Water Level at Start (DTW): 8.73 Water Level Prior To Sampling: 8.96

TD = 17.22 - 8.73 (DTW) = 8.49 (ft.of water) x "K" = 5.54 (Gals./CV) x 3 (No. of CV) = 16.63 (Gals.)

"K"= 0.04(1" well) "K"= 0.163(2" well) (K" = 0.653(4" well)) "K" = 1.02(5" well) "K" = 1.46(6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (ml)	pH	Temp. (°C)	Specific Conductance mS (uS)	DO (mg/L)	ORP (mV)	Turbidity (NTU's)	Pumping Water Level/ Color/Flow Rate (mL/min)
2/26/02	8:34	Initial	6.68	15.81	1197	6.27	336.2	10.3	8.77/clear/NA
	8:38	500	6.59	15.90	1204	4.54	320.8	5.5	8.80/clear/125
	8:41	1000	6.61	15.93	1204	4.23	318.7	3.9	8.88/clear/166
	8:45	1500	6.62	15.88	1205	4.04	317.2	5.2	8.91/clear/125
	8:49	2000	6.64	15.94	1207	4.15	315.5	4.6	8.92/ " /125
	8:52	2500	6.66	15.93	1205	3.50	314.8	5.2	8.94/ " /125
	8:55	3000	6.65	15.99	1206	3.78	313.5	3.7	8.96/ " /166
	8:58	3500	6.66	15.96	1206	4.10	313.0	4.9	8.96/ " /166
↓									

Total Discharge: 3.70 (Liters)/Gals Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: ____

Date/Time Sampled: 2/26/02 @ 8:59 Analysis: EPA 8260B, SVOCs Number of Bottles: 8

QA/QC: B-207GW-022602 ↓ @ 08:59 as an Equipment Blank Duplicate (MS/MSD) Lab Split Field Blank

Comments: set @ slowest pump speed

Sampled By: Jacqueline Lee Signature: [signature]

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www.envsampling.com

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET | **WELL IDENTIFICATION: B-27GW-022602 DATE: 02/26/02**

Project Name: Bay Area Drum, San Francisco, CA Project Task Manager: Jennifer Low

Weather Conditions: Sunny, clear skies, warm, slight breeze

Well Description: (2") 3" 4" 5" 6" Other: ____ Well Type: (PVC) Stainless Steel Other: ____

Is Well Secured? Yes / No Bolt Size: N/A Type of Lock / Lock Number: Dolphin

Recorded Well Depth: 18.0' Screen Interval: 8.0'-18.0' Pump Intake set @ 11.23 Feet, TOC

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: ____

Pump Lines: NA (New) Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (Peristaltic Pump) Other: ____

YSI Meter Serial Noumber: 208541R YSI Probe Serial No.: 00C1522

Meter Calibrated: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Solinst Serial No.: 25742 P.I.D. Reading: 0 ppm @ Well Head

Water Level at Start (DTW): 6.56 Water Level Prior To Sampling: 6.80

TD = 16.23 - 6.56 (DTW) = 9.67 (ft.of water) x "K" = 1.57 (Gals./CV) x 3 (No. of CV) = 4.72 (Gals.)

"K"= 0.04(1" well) (K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (ml)	pH	Temp. (°C)	Specific Conductance mS (uS)	DO (mg/L)	ORP (mV)	Turbidity (NTU's)	Pumping Water Level/ Color/Flow Rate (ml/min)
2/26/02	10:14	Initial	6.71	17.60	836	5.57	326.4	2.0	6.66/clear/NA
	10:16	500	6.58	17.38	833	4.25	329.0	0.8	6.68/ " /250
	10:19	1000	6.54	17.32	834	3.98	330.0	0.7	6.71/ " /250 ~~166~~
	10:22	1500	6.52	17.24	833	3.85	330.0	0.7	6.74/ " /166
	10:25	2000	6.51	17.15	833	3.79	329.0	1.3	6.77/ " /166
	10:28	2500	6.48	17.24	832	3.77	328.1	0.7	6.78/ " /166
	10:31	3000	6.48	17.38	832	3.75	327.3	0.7	6.80/ " /125
	10:34	3500	6.49	17.46	831	3.85	325.3	0.8	6.80/ " /166
	10:37	4000	6.49	17.39	829	3.76	323.8	1.0	6.80/ " /166

Total Discharge: 4.3 (Liters/Gals) Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: ____

Date/Time Sampled: 2/26/02 @ 10:38 Analysis: EPA 8260B, SVOCs Number of Bottles: 4

QA/QC: None @ — as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: set @ slowest pump speed

Sampled By: Jacqueline Lee Signature: [signature]

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Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET | **WELL IDENTIFICATION: B-200GW-022502 DATE: 2/25/02**

Project Name: Bay Area Drum, San Francisco, CA Project Task Manager: Jennifer Low

Weather Conditions: Sunny, warm; clear skies; Expected 70°F for high.

Well Description: 2" 3" (4") 5" 6" Other: ____ Well Type: (PVC) Stainless Steel Other: ____

Is Well Secured? Yes / (No) Bolt Size: N/A Type of Lock / Lock Number: Slip Cap

Recorded Well Depth: 18.0' Screen Interval: 7.0'-17.0' Pump Intake set @ 12.43 Feet, TOC

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: ____

Pump Lines: NA (New) / Cleaned / (Dedicated) Bailer Line: NA New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (Peristaltic Pump) Other: ____

YSI Meter Serial Noumber: 208541R YSI Probe Serial No.: 00C1522

Meter Calibrated: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Solinst Serial No.: 25742 P.I.D. Reading: -0- ppm @ Well Head

Water Level at Start (DTW): 9.45 Water Level Prior To Sampling: 9.52

TD = 17.43 - 9.45 (DTW) = 7.98 (ft.of water) x "K" = 5.21 (Gals./CV) x 3 (No. of CV) = 15.6 (Gals.)

"K"= 0.04(1" well) "K"= 0.163(2" well) ("K" = 0.653(4" well)) "K" = 1.02(5" well) "K" = 1.46(6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (ml)	pH	Temp. (°C)	Specific Conductance mS (uS)	DO (mg/L)	ORP (mV)	Turbidity (NTU's)	Pumping Water Level/ Color /flowrate (ml/min)
02/25/02	9:37	Initial	6.64	17.10	1781	2.98	279.7	3.1	9.26 w/ tube wet 9.48/ clear /NA
	9:39	500	6.64	17.08	1779	1.84	275.2	3.5	9.52 9.52/ clear / 250ml/min
	9:41	1000	6.65	17.15	1776	1.65	271.4	6.5	9.52/ clear /250/166ml/min
	9:43	1500	6.66	16.95	1776	1.45	268.2	5.5	9.52 /clear / 250ml
	9:45	2000	6.66	16.98	1773	1.42	266.9	4.5	9.52/clear / 250ml
	9:47	2500	6.67	17.01	1766	1.37	265.4	10.3	9.52/clear / 250 166ml/min
	9:50	3000	6.67	17.09	1767	1.33	265.9	3.4	9.52 /clear / 250ml
	9:52	3500	6.66	17.05	1760	0.87	268.2	2.8	9.52/clear/250ml
↓									

Total Discharge: 3.95 (Liters)/Gals Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drums) Poly Tank Treatment System Other: ____

Date/Time Sampled: 2/25/02 @ 9:53 Analysis: EPA 8260B, SVOCs Number of Bottles: 4

QA/QC: None @ — as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: ____

Sampled By: Jacqueline Lee Signature: Jacki L

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www.envsampling.com

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: DMMW4GW-0225~~02~~03 DATE: 02/25/02

Project Name: Bay Area Drum, San Francisco, CA Project Task Manager: Jennifer Low

Weather Conditions: Sunny, warm

Well Description: 2" 3" (4") 5" 6" Other: ____ Well Type: (PVC) Stainless Steel Other: ____

Is Well Secured? Yes / No Bolt Size: N/A Type of Lock / Lock Number: Dolphin

Recorded Well Depth: 29.5' Screen Interval: 19.0'-29.0' Pump Intake set @ ____ Feet, TOC

Purge Method: Teflon/PVC Disposable Bailer (Centrifugal Pump) (Peristaltic Pump) Other: ____

Pump Lines: NA (New) / Cleaned / (Dedicated) Bailer Line: (NA) (New) / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: Disp. Teflon Bailer (Disp. PVC Bailer) (Peristaltic Pump) Other: ____

YSI Meter Serial Noumber: 208541R YSI Probe Serial No.: 00C1522

Meter Calibrated: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Solinst Serial No.: 25742 P.I.D. Reading: 0 ppm @ Well Head

Water Level at Start (DTW): 7.28 Water Level Prior To Sampling: 20.76

TD = 29.32 - 7.28 (DTW) = 22.04 ft.of water) x "K" = 14.3 (Gals./CV) x 3 (No. of CV) = 43.1 (Gals.)

"K"= 0.04(1" well) "K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (ml)	pH	Temp. (°C)	Specific Conductance mS uS	DO (mg/L)	ORP (mV)	Turbidity (NTU's)	Pumping Water Level/ Color /Flow Rate (mg/L)
2/25/02	11:10	Initial	6.32	17.15	19333	5.12	328.1	50	7.28 w/tube set 7.31/clear/NA
	11:13	500	6.18	17.12	19502	3.88	300.2	22	7.56/clear/ROST/166
	11:16	1000	6.15	17.18	19489	3.91	280.9	14	7.67/ " / 166
	11:31	~~1500~~	pumped	dry @	15 gals; used	centrifugal	pump.		
	12:43	~~2000~~							x̄ = 23.15
	14:35	~~2500~~							x̄ = 21.64
	16:08								x̄ = 20.76

Total Discharge: 15 Liters (Gals) Casing Volumes Removed: 1.04

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: ____

Date/Time Sampled: 2/25/02 @ 16:24 Analysis: EPA 8260B, SVOCs Number of Bottles: 4

QA/QC: None @ — as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: set @ slowest pump speed.
80% = 11.69 Had to sample w/PVC Bailer; pump would not pull from 20'

Sampled By: Jacqueline Lee Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | **WELL IDENTIFICATION: DMMW5GW-0225 02** **DATE:** 2/25/02

Project Name: Bay Area Drum, San Francisco, CA Project Task Manager: Jennifer Low

Weather Conditions: Sunny, warm ~70°F

Well Description: 2" 3" (4") 5" 6" Other: ____ Well Type: (PVC) Stainless Steel Other: ____

Is Well Secured? (Yes) / No Bolt Size: 15/16" Type of Lock / Lock Number: Dolphin

Recorded Well Depth: 36.0' Screen Interval: 26.0'-36.0' Pump Intake set @ 30.91 Feet, TOC

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: ____

Pump Lines: NA (New) / Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (Peristaltic Pump) Other: ____

YSI Meter Serial Noumber: 208541R YSI Probe Serial No.: 00C1522

Meter Calibrated: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Solinst Serial No.: 25742 P.I.D. Reading: 0 ppm @ Well Head

Water Level at Start (DTW): 5.74 Water Level Prior To Sampling: 5.87

TD = 35.91 - 5.74 (DTW) = 30.17 (ft.of water) x "K" = 19.7 (Gals./CV) x 3 (No. of CV) = 59.1 (Gals.)

"K"= 0.04(1" well) "K"= 0.163(2" well) (K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (ml)	pH	Temp. (°C)	Specific Conductance mS (uS)	DO (mg/L)	ORP (mV)	Turbidity (NTU's)	Pumping Water Level/ Color/Flow Rate (mL/min)
2/25/02	14:32	Initial	7.56	19.92	1128	6.64	249.7	3.6	5.76" w/ tube set 5.78 / clear / NA
	14:34	500	7.36	18.52	1117	4.88	252.9	5.0	5.78 / " / 250
	14:36	1000	7.28	18.69	1115	4.78	255.3	1.9	5.87 / " / 250
	14:39	1500	7.24	18.47	1113	4.73	257.5	2.3	5.87 / " / 166
	14:43	2000	7.20	18.48	1112	4.74	258.2	1.5	5.86 / " / 125
	14:47	2500	7.19	18.36	1111	4.75	259.1	2.7	5.87 / " / 125
	14:50	3000	7.19	18.40	1110	4.67	259.9	3.8	5.87 / " / 250

Total Discharge: 3.2 (Liters)/Gals Casing Volumes Removed: NA

Method of disposal of discharged water: 55 Gallon Drum(s) Poly Tank Treatment System Other: ____

Date/Time Sampled: 2/25/02 @ 14:52 Analysis: EPA 8260B, SVOCs Number of Bottles: 4

QA/QC: None @ — as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: ____

Sampled By: Jacqueline Lee Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | **WELL IDENTIFICATION:** MW102GW-0225~~02~~ **DATE:** 2/25/02

Project Name: Bay Area Drum, San Francisco, CA Project Task Manager: Jennifer Low

Weather Conditions: Sunny, warm

Well Description: (2") 3" 4" 5" 6" Other: ____ Well Type: (PVC) Stainless Steel Other: ____

Is Well Secured? (Yes) / No Bolt Size: 1/2" Type of Lock / Lock Number: Dolphin

Recorded Well Depth: 47.0' Screen Interval: 37.0'-47.0' Pump Intake set @ 41.92 Feet, TOC

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: ____

Pump Lines: NA (New) / Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (Peristaltic Pump) Other: ____

YSI Meter Serial Noumber: 208541R YSI Probe Serial No.: 00C1522

Meter Calibrated: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Solinst Serial No.: 25742 P.I.D. Reading: 0 ppm @ Well Head

Water Level at Start (DTW): 7.40 Water Level Prior To Sampling: @ 7.70

TD = 46.92 - 7.40 (DTW) = 39.52 (ft. of water) x "K" = 6.44 (Gals./CV) x 3 (No. of CV) = 19.3 (Gals.)

"K"= 0.04(1" well) (K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (ml)	pH	Temp. (°C)	Specific Conductance mS (uS)	DO (mg/L)	ORP (mV)	Turbidity (NTU's)	Pumping Water Level/ Color/ Flow Rate (mL/min)
2/25/02	13:44	Initial	7.09	20.55	1683	4.49	251.6	239	7.66/ Lt tan/ NA
	13:46	500	7.08	20.48	1687	1.45	242.2	62	7.67/ " / 250
	13:49	1000	7.07	20.51	1682	1.71	238.5	37	7.68/ Lt tan/ 166
	13:52	1500	7.05	20.56	1680	1.60	235.1	34	7.70/ " / 166
	13:55	2000	7.06	20.57	1677	1.54	232.8	21	7.70/ " / 166
	13:58	2500	7.05	20.54	1682	1.35	230.7	13	7.70/ " / 166
	14:01	3000	7.05	20.51	1685	1.37	227.7	10.7	7.70/ " / 166

Total Discharge: 3.3 (Liters)/Gals Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: ____

Date/Time Sampled: 2/25/02 @ 14:03 Analysis: EPA 8260B, SVOCs Number of Bottles: 8

QA/QC: BADI-GW022502 @ 14:30 as an Equipment Blank (Duplicate) MS/MSD Lab Split Field Blank

Comments: Set @ slowest pump speed

Sampled By: Jacqueline Lee Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | **WELL IDENTIFICATION:** MW103GW-02~~25~~02 **DATE:** 2/25/02

Project Name: Bay Area Drum, San Francisco, CA Project Task Manager: Jennifer Low

Weather Conditions: Sunny, warm 70°F

Well Description: 2" 3" 4" 5" 6" Other:____ Well Type: PVC Stainless Steel Other:____

Is Well Secured? Yes / No Bolt Size: 1/2" Type of Lock / Lock Number: Dolphin

Recorded Well Depth: 15.0' Screen Interval: 5.0'-15.0' Pump Intake set @ 9.62 Feet, TOC

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump Peristaltic Pump Other:____

Pump Lines: NA New / Cleaned / Dedicated Bailer Line: NA New / Cleaned / Dedicated

Method of Cleaning Pump: NA Alconox Liqui-nox Tap Water DI Rinse Other:____

Method of Cleaning Bailer: NA Alconox Liqui-nox Tap Water DI Rinse Other:____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer Peristaltic Pump Other:____

YSI Meter Serial Noumber: 208541R YSI Probe Serial No.: 00C1522

Meter Calibrated: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Solinst Serial No.: 25742 P.I.D. Reading: 0 ppm @ Well Head

Water Level at Start (DTW): 6.51 Water Level Prior To Sampling: 6.63

TD = 14.62 - 6.51 (DTW) = 8.11 (ft.of water) x "K" = 1.32 (Gals./CV) x 3 (No. of CV) = 3.96 (Gals.)

"K"= 0.04(1" well) "K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (ml)	pH	Temp. (°C)	Specific Conductance mS uS	DO (mg/L)	ORP (mV)	Turbidity (NTU's)	Pumping Water Level/ Color /Flow Rate (mL/min)
2/25/02	15:16	Initial	7.42	16.65	656	3.75	267.6	6.1	6.54/clear/NA
	15:18	500	7.00	16.26	648	1.50	285.8	5.6	6.62/clear/250
	15:21	1000	6.89	16.37	647	1.31	287.7	6.0	6.62/clear/166
	15:25	1500	6.83	16.45	647	1.22	287.0	4.9	6.63/clear/166
	15:28	2000	6.79	16.48	647	1.18	284.5	5.4	6.63/ " /166
	15:32	2500	6.77	16.47	647	1.17	280.8	4.4	6.63/ " /125
	15:34	3000	6.75	16.41	647	1.16	278.2	4.3	6.63/ " /125
↓									

Total Discharge: 3.15 Liters / Gals Casing Volumes Removed: NA

Method of disposal of discharged water: 55 Gallon Drum(s) Poly Tank Treatment System Other:____

Date/Time Sampled: 2/25/02 @ 15:35 Analysis: EPA 8260B, SVOCs Number of Bottles: 4

QA/QC: None @ — as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: Set @ Slowest speed

Sampled By: Jacqueline Lee Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | **WELL IDENTIFICATION:** MW104GW-022602 **DATE:** 2/26/02

Project Name: Bay Area Drum, San Francisco, CA Project Task Manager: Jennifer Low

Weather Conditions: Sunny, warm

Well Description: (2") 3" 4" 5" 6" Other: ____ Well Type: (PVC) Stainless Steel Other: ____

Is Well Secured? (Yes) / No Bolt Size: 1/2" Type of Lock / Lock Number: Dolphin

Recorded Well Depth: 64.0' Screen Interval: 54.0'-64.0' Pump Intake set @ 67.32 Feet, TOC

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: ____

Pump Lines: NA (New) / Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (Peristaltic Pump) Other: ____

YSI Meter Serial Noumber: 208541R YSI Probe Serial No.: 00C1522

Meter Calibrated: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Solinst Serial No.: 25742 P.I.D. Reading: 4 ppm @ Well Head max

Water Level at Start (DTW): 7.29 Water Level Prior To Sampling: 7.46

TD = ~~72.88~~ 72.32 - 7.29 (DTW) = 65.03 (ft.of water) x "K" = 10.5 (Gals./CV) x 3 (No. of CV) = 31.7 (Gals.)

"K"= 0.04(1" well) (K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (ml)	pH	Temp. (°C)	Specific Conductance mS (µS)	DO (mg/L)	ORP (mV)	Turbidity (NTU's)	Pumping Water Level/ Color / Flow Rate (ml/min)
2/26/02	9:32	Initial	6.49	18.18	1340	6.95	339.5	3.4	7.44 / clear / NA
	9:34	500	6.36	18.11	1336	5.68	339.1	4.9	7.44 / lt tan / 250
	9:37	1000	6.32	18.11	1332	5.43	338.3	5.6	7.44 / lt tan / 166
	9:40	1500	6.31	18.23	1332	5.16	336.1	6.1	7.46 / " / 166
	9:42	2000	6.30	18.19	1332	5.10	336.7	5.6	7.46 / " / 250
	9:45	2500	6.30	18.23	1332	5.09	335.6	4.9	7.46 / " / 166
	9:47	3000	6.29	18.22	1337	3.96	334.6	4.9	7.46 / " / 250

Total Discharge: 3.2 Liters/Gals Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: ____

Date/Time Sampled: 2/26/02 @ 9:48 Analysis: EPA 8260B, SVOCs Number of Bottles: 4

QA/QC: None @ — as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: ____

Sampled By: Jacqueline Lee Signature: Jacki L

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: RD-1GW-030402 DATE: 03/04/02

Project Name: Bay Area Drum, San Francisco, CA Project Task Manager: Jennifer Low

Weather Conditions: Sunny, cool, clear skies

Well Description: (2") 3" 4" 5" 6" Other: ____ Well Type: (PVC) Stainless Steel Other: ____

Is Well Secured? (Yes) / No Bolt Size: 1/2" Type of Lock / Lock Number: Dolphin

Recorded Well Depth: NA Screen Interval: 10' SCREN INT. Pump Intake set @ 11.90 Feet, TOC

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: ____

Pump Lines: NA (New) / Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (Peristaltic Pump) Other: ____

YSI Meter Serial Noumber: 208541R YSI Probe Serial No.: 00C1522

Meter Calibrated: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Solinst Serial No.: 25742 P.I.D. Reading: 0 ppm @ Well Head

Water Level at Start (DTW): 9.40 Water Level Prior To Sampling: 9.40

TD = 16.90 - 9.40 (DTW) = 7.5 (ft.of water) x "K" = 1.22 (Gals./CV) x 3 (No. of CV) = 3.66 (Gals.)

"K"= 0.04(1" well) (K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (ml)	pH	Temp. (°C)	Specific Conductance mS (uS)	DO (mg/L)	ORP (mV)	Turbidity (NTU's)	Pumping Water Level/ Color/Flow Rate
3/4/02	7:53	Initial	6.14	16.75	2032	7.27	290.7	39.0	9.40/clear/NA
	7:56	500	6.35	16.81	2040	5.19	289.2	28.9	9.40/lt tan/166mL/min
	7:58	1000	6.43	16.94	2099	4.97	287.8	20.9	9.40/" /250mL/min
	8:01	1500	6.46	16.91	2188	4.89	286.4	18.9	9.40/" /250mL/min
	8:03	2000	6.46	17.01	2254	4.76	285.4	17.9	9.40/clear/250mL/min
	8:04	2500	6.48	17.06	2296	4.70	282.8	16.8	9.40/ " /250mL/min
	8:06	3000	6.48	16.95	2338	4.47	279.5	15.2	9.40/ " /250mL/min
	8:08	3500	6.49	16.93	2362	4.43	275.2	13.1	9.40/ " /250mL/min
↓	8:10	4000	6.50	17.07 to	2433	4.53	268.9	11.6	9.40/ " /250mL/min

Total Discharge: 8.2 (Liters) Gals Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: ____

Date/Time Sampled: 03/04/02 @ ____ Analysis: EPA 8260B, ~~SVOCs~~ Number of Bottles: ~~4~~ 3

QA/QC: None @ — as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: New well installed during week of Feb. 25, 2002; well in front of "Tulio's" sign

SEE BACK

Sampled By: Jacqueline Lee Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: RD-2GW-022502 DATE: 2/25/02

Project Name: Bay Area Drum, San Francisco, CA Project Task Manager: Jennifer Low

Weather Conditions: Sunny, warm, clear skies

Well Description: 2" 3" 4" 5" 6" Other: ____ Well Type: (PVC) Stainless Steel Other: ____

Is Well Secured? (Yes) / No Bolt Size: 1/2" Type of Lock / Lock Number: Dolphin

Recorded Well Depth: ____ Screen Interval: 10' screen Pump Intake set @ 11.37 Feet, TOC

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: ____

Pump Lines: NA (New) / Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (Peristaltic Pump) Other: ____

YSI Meter Serial Noumber: 208541R YSI Probe Serial No.: 00C1522

Meter Calibrated: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Solinst Serial No.: 25742 P.I.D. Reading: 0 ppm @ Well Head

Water Level at Start (DTW): 7.89 Water Level Prior To Sampling: 8.00

TD = 16.37 - 7.89 (DTW) = 8.48 (ft.of water) x "K" = 1.38 (Gals./CV) x 3 (No. of CV) = 4.14 (Gals.)

"K"= 0.04(1" well) ("K"= 0.163(2" well)) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (ml)	pH	Temp. (°C)	Specific Conductance mS (uS)	DO (mg/L)	ORP (mV)	Turbidity (NTU's)	Pumping Water Level/ Color / Flow Rate (mL/min)
2/25/02	10:20	Initial	7.33	16.25	1368	7.65	261.0	524	7.92 w/ tube set. 7.98/lt brn/NA
	10:24	500	7.24	15.76	1360	6.91	283.2	134	8.32/lt tan/125ml
	10:26	1000	7.23	15.75	1376	6.93	292.1	189	8.60/lt tan/250ml
	10:29	1500	7.22	15.76	1396	6.93	299.3	436	8.75/lt tan/166ml
		~~2000~~	increase pump speed due to drop in water level						
		~~2500~~							
	10:59	Pumped dry @ 4.5 gallons							
	14:32							8.26	
	15:54							8.00	

Total Discharge: 4.5 Liters/(Gals) Casing Volumes Removed: ~~NA~~ 3.26

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: ____

Date/Time Sampled: 2/25/02 @ 15:56 Analysis: EPA 8260B, SVOCS Number of Bottles: ~~6~~ 4 qt

QA/QC: None @ — as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: Set @ slowest pump speed.
80% = 9.59'

Sampled By: Jacqueline Lee Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | **WELL IDENTIFICATION: RD-3GW-022502** **DATE: 2/25/02**

Project Name: Bay Area Drum, San Francisco, CA Project Task Manager: Jennifer Low

Weather Conditions: Sunny warm PAGE 1 OF 2

Well Description: (2") 3" 4" 5" 6" Other: ____ Well Type: (PVC) Stainless Steel Other: ____

Is Well Secured? (Yes) / No Bolt Size: 1/2" Type of Lock / Lock Number: Dolphin

Recorded Well Depth: ____ Screen Interval: 10' screen Pump Intake set @ 12.77' Feet, TOC

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: ____

Pump Lines: NA (New) / Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (Peristaltic Pump) Other: ____

YSI Meter Serial Noumber: 208541R YSI Probe Serial No.: 00C1522

Meter Calibrated: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Solinst Serial No.: 25742 P.I.D. Reading: 0 ppm @ Well Head

Water Level at Start (DTW): 6.94 Water Level Prior To Sampling: 7.00

TD = 12.77 - 6.94 (DTW) = 10.83 (ft.of water) x "K" = 1.76 (Gals./CV) x 3 (No. of CV) = 5.29 (Gals.)

"K"= 0.04(1" well) (K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (ml)	pH	Temp. (°C)	Specific Conductance mS (uS)	DO (mg/L)	ORP (mV)	Turbidity (NTU's)	Pumping Water Level/ Color / Flow Rate (mg/min)
2/25/02	11:47	Initial	7.62	17.25	2267	4.10	185.1	200	6.94/Litten/NA
	11:49	500	7.66	16.54	2101	1.69	56.9	178	6.95/"/250
	11:51	1000	7.61	16.50	2035	1.49	10.4	187	6.95/"/250
	11:53	1500	7.58	16.50	2020	1.36	-19.7	179	6.96/"/250
	11:55	2000	7.54	16.55	2034	1.04	-43.4	187	6.96/"/250
	11:58	2500	7.53	16.52	1994	0.92	-63.6	185	6.97/"/166
	12:00	3000	7.51	16.43	2000	0.72	-85.2	176	6.97/"/250
	12:03	3500	7.51	16.44	1993	0.67	-99.1	179	6.98/"/166
↓	12:05	4000	7.53	16.47	1927	0.63	-109.5	185	6.99/"/250

Total Discharge: 7.8 (Liters) / Gals Casing Volumes Removed: NA

Method of disposal of discharged water: 55 Gallon Drum(s) Poly Tank Treatment System Other: ____

Date/Time Sampled: 2/25/02 @ 12:21 Analysis: EPA 8260B, SVOCs Number of Bottles: 4

QA/QC: RD-3GW-022502 MS/MSD @ 12:21 as an Equipment Blank Duplicate (MS/MSD) Lab Split Field Blank

Comments: ____

Sampled By: Jacqueline Lee Signature: [signature]

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Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: RD-3GW-022502 DATE: 2/25/02

Project Name: Bay Area Drum, San Francisco, CA Project Task Manager: Jennifer Low

Weather Conditions: PAGE 2 : SEE PAGE 1 PAGE 2 OF 2

Well Description: 2" 3" 4" 5" 6" Other: ____ Well Type: PVC Stainless Steel Other: ____

Is Well Secured? Yes / No Bolt Size: ____ Type of Lock / Lock Number: ____

Recorded Well Depth: ____ Screen Interval: ____ Pump Intake set @ ____ Feet, TOC

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump Peristaltic Pump Other: ____

Pump Lines: NA New / Cleaned / Dedicated Bailer Line: NA New / Cleaned / Dedicated

Method of Cleaning Pump: NA Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: NA Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer Peristaltic Pump Other: ____

YSI Meter Serial Noumber: 208541R YSI Probe Serial No.: 00C1522

Meter Calibrated: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Solinst Serial No.: 25742 P.I.D. Reading: ____ ppm @ Well Head

Water Level at Start (DTW): ____ Water Level Prior To Sampling: ____

TD = ____ - ____ (DTW) = ____ (ft.of water) x "K" = ____ (Gals./CV) x ___ (No. of CV) = ____ (Gals.)

"K"= 0.04(1" well) "K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (ml)	pH	Temp. (°C)	Specific Conductance mS uS	DO (mg/L)	ORP (mV)	Turbidity (NTU's)	Pumping Water Level/ Color /Flow Rate
2/25/02	12:08	5000 ~~Initial~~	7.49	16.57	1985	1.09	-116.9	161	6.99/4tan/166
	12:10	5500 ~~500~~	7.48	16.46	1942	1.07	-126.7	144	6.99/ " /250
	12:12	6000 ~~1000~~	7.48	16.40	1905	1.01	-135.6	126	6.99/ " /250
	12:15	6500 ~~1500~~	7.49	16.56	1889	1.00	-140.7	122	7.00/ " /250
	12:17	7000 ~~2000~~	7.46	16.49	1892	1.00	-149.0	108	7.00/ " /250
	12:19	7500 ~~2500~~	7.48	16.51	1881	0.91	-154.2	91	7.00/ " /250

Total Discharge: 7.8 Liters/Gals Casing Volumes Removed: NA

Method of disposal of discharged water: 55 Gallon Drum(s) Poly Tank Treatment System Other: ____

Date/Time Sampled: 2/25/02 @ 12:21 Analysis: EPA 8260B Number of Bottles: 8

QA/QC: RD-3GW-022502 MS/MSD @ 12:21 as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: ____

Sampled By: Jacqueline Lee Signature: [signature]

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www.envsampling.com

Environmental Sampling Services

SITE NAME: Bay Area Drum
SITE LOCATION: 1212 Thomas Avenue, San Francisco
TASK: Semi-Annual Groundwater Monitoring February 2002

DAILY EQUIPMENT CALIBRATION SHEET

DATE	TIME	Instrument Serial Number	Probe Serial Number	Dissolved Oxygen (% / mg/L)	pH 4	pH 7	pH 10	Specific Conductance 1,000 uS/cm	ORP 237 mV	TURBIDITY 0.02 NTU
2/25/02	07:54	208541R	00C1522	99.7%, 9.35	3.92	7.13	10.38	1001	235.8	0.02
2/26/02	08:01	208541R	00C1522	99.6%, 9.57	3.99	6.99	10.07	996	231.7	0.02
03/04/02	07:29	208541R	00C1522	100%, 9.86	3.85	7.18	10.08	998	227.6	0.02

APPENDIX C
LABORATORY DATA SHEETS AND CHAINS-OF-CUSTODY

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

URS Corporation
500 12th Street
Suite 200
Oakland, CA 94607

Date: 18-MAR-02
Lab Job Number: 157211
Project ID: 51-00270002.00
Location: BAYAREA DRUM (BAD)

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: _____
Project Manager

Reviewed by: _____
Operations Manager

This package may be reproduced only in its entirety.

CA ELAP # 1459

157211

URS 500 12th Street, Suite 200
Oakland, CA 94607-4014
(510) 893-3600

Chain of Custody Record

PROJECT NO. BAT AREA DRUM (BAD) 51-00270002.00

SAMPLERS: (Signature)

	DATE	TIME	SAMPLE NUMBER	Sample Matrix (S)oil, (W)ater, (A)ir	EPA Method 8260B	EPA Method	EPA Method	EPA Method	Naphthalene Only	Number of Containers	REMARKS (Sample preservation, handling procedures, etc,)
-1	2/25/02	08:15	Trip Blank	W	X				X	1	Results to: Jennifer Low
-2		09:53	B-200GW-022502	W	X				X	4	
-3		12:21 ~~12:12~~	RD-3GW-022502	W	X				X	4	
		12:21 ~~12:12~~	RD-3GW-022502	W	X				X	4	~~MS/MSD Sample~~
-4		13:15	B-201GW-022502	W	X				X	4	
-5		14:03	MW-102GW-022502	W	X				X	4	
-6		14:30	BAD1GW-022502	W	X				X	4	
-7		14:52	DMMW-5GW-022502	W	X				X	4	
-8		15:35	MW103GW-022502	W	X				X	4	
-9		15:56	RD-2GW-022502	W	X				X	4	
-10		16:24	DMMW4GW-022502	W	X				X	4	
-11	2/26/02	8:59	B-207GW-022602	W	X					4	
		8:59	B-207GW-022602	W	X				X	4	← MS/MSD Sample
-12		9:48	MW104GW-022602	W	X				X	4	
-13		10:38	B-27GW-022602	W	X				X	4	

called client to inform that we will run only one set of MS/MSD he said ...

Called both Scott & Jennifer to inform that we can't run MS on any sample due to limited containers. We need 9 VOAs and 3 liters in order to run MS

Received ☑ On Ice ☑ Cold ☐ Ambient ☐ Intact

TOTAL NUMBER OF CONTAINERS 57

TB 2/27/02 3 COOLERS

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	2/26/02 11:55				

METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY (Signature)	DATE/TIME
Hand Delivered				2/26/02 11:55

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	70459
Lab ID:	157211-001	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	02/28/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

D= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	70459
Lab ID:	157211-001	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	02/28/02
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	89	80-121
1,2-Dichloroethane-d4	90	77-130
Toluene-d8	94	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	B-200GW-022502	Batch#:	70459
Lab ID:	157211-002	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	02/28/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	7.9	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	0.7	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	3.2	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	20	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	1.2	0.5
Benzene	0.5	0.5
Trichloroethene	4.5	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	B-200GW-022502	Batch#:	70459
Lab ID:	157211-002	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	02/28/02
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	1.4	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	0.5	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	1.2	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-121
1,2-Dichloroethane-d4	106	77-130
Toluene-d8	96	80-120
Bromofluorobenzene	108	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	RD-3GW-022502	Batch#:	70459
Lab ID:	157211-003	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	02/28/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	1.2	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	RD-3GW-022502	Batch#:	70459
Lab ID:	157211-003	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	02/28/02
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-121
1,2-Dichloroethane-d4	105	77-130
Toluene-d8	95	80-120
Bromofluorobenzene	104	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	B-201GW-022502	Batch#:	70459
Lab ID:	157211-004	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	02/28/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	B-201GW-022502	Batch#:	70459
Lab ID:	157211-004	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	02/28/02
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-121
1,2-Dichloroethane-d4	105	77-130
Toluene-d8	93	80-120
Bromofluorobenzene	106	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	MW-102GW-022502	Batch#:	70459
Lab ID:	157211-005	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/01/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	2.8	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	1.1	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	13	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	3.5	0.5
Benzene	ND	0.5
Trichloroethene	11	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

D= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	MW-102GW-022502	Batch#:	70459
Lab ID:	157211-005	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/01/02
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	2.0	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-121
1,2-Dichloroethane-d4	109	77-130
Toluene-d8	96	80-120
Bromofluorobenzene	106	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	BAD1GW-022502	Batch#:	70459
Lab ID:	157211-006	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/01/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	2.9	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	1.1	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	12	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	3.5	0.5
Benzene	ND	0.5
Trichloroethene	10	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	BAD1GW-022502	Batch#:	70459
Lab ID:	157211-006	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/01/02
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	2.0	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-121
1,2-Dichloroethane-d4	106	77-130
Toluene-d8	94	80-120
Bromofluorobenzene	108	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	DMMW-5GW-022502	Batch#:	70459
Lab ID:	157211-007	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/01/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	0.7	0.5

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	DMMW-5GW-022502	Batch#:	70459
Lab ID:	157211-007	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/01/02
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-121
1,2-Dichloroethane-d4	107	77-130
Toluene-d8	91	80-120
Bromofluorobenzene	107	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	MW103GW-022502	Batch#:	70459
Lab ID:	157211-008	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/01/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

D= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	MW103GW-022502	Batch#:	70459
Lab ID:	157211-008	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/01/02
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-121
1,2-Dichloroethane-d4	111	77-130
Toluene-d8	93	80-120
Bromofluorobenzene	105	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	RD-2GW-022502	Batch#:	70459
Lab ID:	157211-009	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/01/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	1.6	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	0.9	0.5
trans-1,2-Dichloroethene	0.5	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	2.3	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	44	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	1.5	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	0.6	0.5
Benzene	ND	0.5
Trichloroethene	14	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	0.5	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	3.1	0.5

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	RD-2GW-022502	Batch#:	70459
Lab ID:	157211-009	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/01/02
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-121
1,2-Dichloroethane-d4	111	77-130
Toluene-d8	95	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	DMMW4GW-022502	Batch#:	70459
Lab ID:	157211-010	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/01/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	1.2	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

D= Not Detected
J= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	DMMW4GW-022502	Batch#:	70459
Lab ID:	157211-010	Sampled:	02/25/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/01/02
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-121
1,2-Dichloroethane-d4	110	77-130
Toluene-d8	92	80-120
Bromofluorobenzene	108	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	MW104GW-022602	Batch#:	70488
Lab ID:	157211-012	Sampled:	02/26/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/02/02
Diln Fac:	62.50		

Analyte	Result	RL
Freon 12	ND	63
Chloromethane	ND	63
Vinyl Chloride	ND	31
Bromomethane	ND	63
Chloroethane	ND	63
Trichlorofluoromethane	ND	31
Acetone	ND	630
Freon 113	ND	310
1,1-Dichloroethene	ND	31
Methylene Chloride	ND	630
Carbon Disulfide	ND	31
MTBE	ND	31
trans-1,2-Dichloroethene	ND	31
Vinyl Acetate	ND	630
1,1-Dichloroethane	ND	31
2-Butanone	ND	630
cis-1,2-Dichloroethene	ND	31
2,2-Dichloropropane	ND	31
Chloroform	ND	31
Bromochloromethane	ND	31
1,1,1-Trichloroethane	ND	31
1,1-Dichloropropene	ND	31
Carbon Tetrachloride	ND	31
1,2-Dichloroethane	ND	31
Benzene	ND	31
Trichloroethene	ND	31
1,2-Dichloropropane	ND	31
Bromodichloromethane	ND	31
Dibromomethane	ND	31
4-Methyl-2-Pentanone	ND	630
cis-1,3-Dichloropropene	ND	31
Toluene	ND	31
trans-1,3-Dichloropropene	ND	31
1,1,2-Trichloroethane	ND	31
2-Hexanone	ND	630
1,3-Dichloropropane	ND	31
Tetrachloroethene	8,000	31

D= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	MW104GW-022602	Batch#:	70488
Lab ID:	157211-012	Sampled:	02/26/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/02/02
Diln Fac:	62.50		

Analyte	Result	RL
Dibromochloromethane	ND	31
1,2-Dibromoethane	ND	31
Chlorobenzene	ND	31
1,1,1,2-Tetrachloroethane	ND	31
Ethylbenzene	ND	31
m,p-Xylenes	ND	31
o-Xylene	ND	31
Styrene	ND	31
Bromoform	ND	63
Isopropylbenzene	ND	31
1,1,2,2-Tetrachloroethane	ND	31
1,2,3-Trichloropropane	ND	31
Propylbenzene	ND	31
Bromobenzene	ND	31
1,3,5-Trimethylbenzene	ND	31
2-Chlorotoluene	ND	31
4-Chlorotoluene	ND	31
tert-Butylbenzene	ND	31
1,2,4-Trimethylbenzene	ND	31
sec-Butylbenzene	ND	31
para-Isopropyl Toluene	ND	31
1,3-Dichlorobenzene	ND	31
1,4-Dichlorobenzene	ND	31
n-Butylbenzene	ND	31
1,2-Dichlorobenzene	ND	31
1,2-Dibromo-3-Chloropropane	ND	31
1,2,4-Trichlorobenzene	ND	31
Hexachlorobutadiene	ND	31
Naphthalene	ND	31
1,2,3-Trichlorobenzene	ND	31

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-121
1,2-Dichloroethane-d4	103	77-130
Toluene-d8	92	80-120
Bromofluorobenzene	106	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	B-207GW-022602	Batch#:	70488
Lab ID:	157211-011	Sampled:	02/26/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/01/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

D= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	B-207GW-022602	Batch#:	70488
Lab ID:	157211-011	Sampled:	02/26/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/01/02
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-121
1,2-Dichloroethane-d4	106	77-130
Toluene-d8	92	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	B-27GW-022602	Batch#:	70459
Lab ID:	157211-013	Sampled:	02/26/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/01/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	10	0.5

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	B-27GW-022602	Batch#:	70459
Lab ID:	157211-013	Sampled:	02/26/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/01/02
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-121
1,2-Dichloroethane-d4	111	77-130
Toluene-d8	92	80-120
Bromofluorobenzene	105	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC171537	Batch#:	70459
Matrix:	Water	Analyzed:	02/28/02
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5

D= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC171537	Batch#:	70459
Matrix:	Water	Analyzed:	02/28/02
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-121
1,2-Dichloroethane-d4	90	77-130
Toluene-d8	96	80-120
Bromofluorobenzene	100	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC171636	Batch#:	70488
Matrix:	Water	Analyzed:	03/01/02
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC171636	Batch#:	70488
Matrix:	Water	Analyzed:	03/01/02
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-121
1,2-Dichloroethane-d4	106	77-130
Toluene-d8	93	80-120
Bromofluorobenzene	108	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC171637	Batch#:	70488
Matrix:	Water	Analyzed:	03/01/02
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC171637	Batch#:	70488
Matrix:	Water	Analyzed:	03/01/02
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-121
1,2-Dichloroethane-d4	105	77-130
Toluene-d8	95	80-120
Bromofluorobenzene	104	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	70459
Units:	ug/L	Analyzed:	02/28/02
Diln Fac:	1.000		

Type: BS Lab ID: QC171534

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	43.76	88	71-131
Benzene	50.00	43.77	88	76-120
Trichloroethene	50.00	40.64	81	78-120
Toluene	50.00	44.23	88	79-120
Chlorobenzene	50.00	47.59	95	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-121
1,2-Dichloroethane-d4	107	77-130
Toluene-d8	92	80-120
Bromofluorobenzene	104	80-120

Type: BSD Lab ID: QC171535

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	43.69	87	71-131	0	20
Benzene	50.00	44.00	88	76-120	1	20
Trichloroethene	50.00	41.72	83	78-120	3	20
Toluene	50.00	43.90	88	79-120	1	20
Chlorobenzene	50.00	47.98	96	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-121
1,2-Dichloroethane-d4	105	77-130
Toluene-d8	97	80-120
Bromofluorobenzene	100	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC171635	Batch#:	70488
Matrix:	Water	Analyzed:	03/01/02
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	45.19	90	71-131
Benzene	50.00	46.53	93	76-120
Trichloroethene	50.00	45.01	90	78-120
Toluene	50.00	49.19	98	79-120
Chlorobenzene	50.00	51.36	103	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-121
1,2-Dichloroethane-d4	105	77-130
Toluene-d8	96	80-120
Bromofluorobenzene	100	80-120

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157211	Location:	BAYAREA DRUM (BAD)
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	51-00270002.00	Analysis:	EPA 8260B
Field ID:	B-207GW-022602	Batch#:	70488
MSS Lab ID:	157211-011	Sampled:	02/26/02
Matrix:	Water	Received:	02/26/02
Units:	ug/L	Analyzed:	03/01/02
Diln Fac:	1.000		

Type: MS Lab ID: QC171638

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1500	50.00	51.32	103	71-134
Benzene	<0.2700	50.00	48.46	97	79-120
Trichloroethene	<0.2900	50.00	47.27	95	47-141
Toluene	<0.2600	50.00	48.79	98	75-120
Chlorobenzene	<0.2800	50.00	52.92	106	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-121
1,2-Dichloroethane-d4	108	77-130
Toluene-d8	93	80-120
Bromofluorobenzene	102	80-120

Type: MSD Lab ID: QC171639

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	52.70	105	71-134	3	20
Benzene	50.00	48.34	97	79-120	0	20
Trichloroethene	50.00	46.40	93	47-141	2	20
Toluene	50.00	48.37	97	75-120	1	20
Chlorobenzene	50.00	50.80	102	80-120	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-121
1,2-Dichloroethane-d4	105	77-130
Toluene-d8	95	80-120
Bromofluorobenzene	103	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

URS Corporation
500 12th Street
Suite 200
Oakland, CA 94607

Date: 20-MAR-02
Lab Job Number: 157290
Project ID: N/A
Location: Bay Area Drum

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: Tracy Bobis
Project Manager

Reviewed by:
Operations Manager

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CA ELAP # 1459

CHAIN OF CUSTODY FORM

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

C&T LOGIN # 157290

Sampler: Environmental Sampling Services

Project No: Bay Area Dom

Report To: Jennifer Low

Project Name:

Company: URS Corp.

Project P.O.:

Telephone: (510) 893-3600

Turnaround Time: Normal

Fax: (510) 874-3268

Analyses

Laboratory Number	Sample ID.	Sampling Date Time	Matrix: Soil	Matrix: Water	Matrix: Waste	# of Containers	Preservative: HCL	Preservative: H_2SO	Preservative: HNO_3	Preservative: ICE	Field Notes	8260B (VOCs)
-001	Trip ∅	3/4/02 08:00		X		1	X			X		X
-002	RD-1-GW-030402	3/4/02 8:25		X		3	X			X		X

For Laboratory Use

Received ☑ On Ice ☑ Cold ☐ Ambient ☐ Intact

Preservation Correct? ☑ Yes ☐ No ☐ N/A

Notes:
LAB CONTACT: TRACY BABJAR

RELINQUISHED BY:	RECEIVED BY:
3/4/02 11:25 DATE/TIME	3-4-02 DATE/TIME
DATE/TIME	DATE/TIME
DATE/TIME	DATE/TIME

Signature

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157290	Location:	Bay Area Drum
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	70690
Lab ID:	157290-001	Sampled:	03/04/02
Matrix:	Water	Received:	03/04/02
Units:	ug/L	Analyzed:	03/08/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157290	Location:	Bay Area Drum
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	70690
Lab ID:	157290-001	Sampled:	03/04/02
Matrix:	Water	Received:	03/04/02
Units:	ug/L	Analyzed:	03/08/02
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-121
1,2-Dichloroethane-d4	100	77-130
Toluene-d8	99	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157290	Location:	Bay Area Drum
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RD-1-GW-030402	Batch#:	70690
Lab ID:	157290-002	Sampled:	03/04/02
Matrix:	Water	Received:	03/04/02
Units:	ug/L	Analyzed:	03/08/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	12	0.5
Bromomethane	ND	1.0
Chloroethane	12	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	1.1	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	14	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	1.6	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	1.2	0.5
Benzene	2.5	0.5
Trichloroethene	1.0	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	0.9	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	4.6	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157290	Location:	Bay Area Drum
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RD-1-GW-030402	Batch#:	70690
Lab ID:	157290-002	Sampled:	03/04/02
Matrix:	Water	Received:	03/04/02
Units:	ug/L	Analyzed:	03/08/02
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	0.5	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	0.6	0.5
m,p-Xylenes	0.6	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	1.2	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	1.0	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	2.0	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	0.8	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	1.0	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-121
1,2-Dichloroethane-d4	101	77-130
Toluene-d8	101	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157290	Location:	Bay Area Drum
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC172414	Batch#:	70690
Matrix:	Water	Analyzed:	03/08/02
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157290	Location:	Bay Area Drum
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC172414	Batch#:	70690
Matrix:	Water	Analyzed:	03/08/02
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-121
1,2-Dichloroethane-d4	100	77-130
Toluene-d8	101	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157290	Location:	Bay Area Drum
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC172415	Batch#:	70690
Matrix:	Water	Analyzed:	03/08/02
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157290	Location:	Bay Area Drum
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC172415	Batch#:	70690
Matrix:	Water	Analyzed:	03/08/02
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-121
1,2-Dichloroethane-d4	98	77-130
Toluene-d8	100	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	157290	Location:	Bay Area Drum
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	70690
Units:	ug/L	Analyzed:	03/08/02
Diln Fac:	1.000		

Type: BS Lab ID: QC172412

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	52.14	104	71-131
Benzene	50.00	53.45	107	76-120
Trichloroethene	50.00	52.15	104	78-120
Toluene	50.00	52.96	106	79-120
Chlorobenzene	50.00	51.86	104	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-121
1,2-Dichloroethane-d4	100	77-130
Toluene-d8	101	80-120
Bromofluorobenzene	105	80-120

Type: BSD Lab ID: QC172413

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	50.24	100	71-131	4	20
Benzene	50.00	52.56	105	76-120	2	20
Trichloroethene	50.00	51.73	103	78-120	1	20
Toluene	50.00	51.71	103	79-120	2	20
Chlorobenzene	50.00	50.28	101	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-121
1,2-Dichloroethane-d4	100	77-130
Toluene-d8	100	80-120
Bromofluorobenzene	101	80-120

RPD= Relative Percent Difference

APPENDIX D

INVESTIGATION-DERIVED WASTE DISPOSAL MANIFESTS

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Page 1 of 1

3. Document Number NH- № 49161

GENERATOR

4. Generator's Name and Mailing Address
BAY AREA DRUM
1212 THOMAS ST.
SAN FRANCISCO, CA
Generator's Phone (510) 874-1772

5. Transporter Company Name: CLEARWATER ENVIRONMENTAL
6. US EPA ID Number: CAR000007013
7. Transporter Phone: (510) 476-1740

8. Designated Facility Name and Site Address
ALVISO INDEPENDENT OIL
5002 ARCHER STREET
ALVISO, CA 95002
9. US EPA ID Number: CAL000161743
10. Facility's Phone: (510) 476-1740

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-Hazardous waste, liquid	005 ~~BOT~~	DM ~~FT~~	0275	G
b.				

15. Special Handling Instructions and Additional Information
Wear PPE
Emergency Contact
(510) 476-1740
Attn: Kirk Hayward

04-04-02-001-005

Handling Codes for Wastes Listed Above: 11a. L 11b.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to state or federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Wesley Morse, agent for. Signature: [signature] Month 04 Day 04 Year 02

TRANSPORTER

17. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: DAVID MORRISON Signature: David Morrison Month 04 Day 04 Year 02

FACILITY

18. Discrepancy Indication Space

19. Facility Owner or Operator Certification of receipt of waste materials covered by this manifest except as noted in Item 18.

Printed/Typed Name: [signature] Signature: [signature] Month 04 Day 04 Year 02

WHITE – ORIGINAL (Return to Generator) YELLOW – TSDF (Retain Copy) PINK – TRANSPORTER COPY GOLDENROD – GENERATOR'S COPY