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ENGLAND
GEOSYSTEM
ENVIRONMENTAL ENGINEERING

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
Los Angeles Region
320 W. 4th Street, Suite 200
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BOEING

Attention: John Geroch

Subject: **GROUNDWATER MONITORING REPORT, SEMI-ANNUAL EVENT JULY 2001 FOR BOEING REALTY CORPORATION, FORMER C-6 FACILITY, 19503 SOUTH NORMANDIE AVENUE, LOS ANGELES, CA**

Dear Mr. Geroch:

Please find enclosed for your review, a copy of the subject document prepared by Haley & Aldrich for Boeing Realty Corporation.

If you have any questions concerning this document, please contact the undersigned at 562-593-8623.

Sincerely,

Stephanie Sibbett

Stephanie Sibbett
Boeing Realty Corporation

Cc: Mario Stavale, Boeing Realty Corporation

enclosure

GROUNDWATER MONITORING REPORT SEMI-ANNUAL EVENT JULY 2001

Boeing Realty Corporation
Former C-6 Facility
Los Angeles, California

October 2001

PREPARED FOR:

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SEMI-ANNUAL EVENT -- JULY 2001

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1.0 INTRODUCTION

England Geosystem, Inc. (England Geosystem) in association with Haley & Aldrich, Inc. (H&A) has prepared this report on behalf of Boeing Realty Corporation (BRC) to document the *Groundwater Monitoring Report Semi-Annual Event -- July 2001* (2001 semi-annual event) conducted at the BRC Former C-6 Facility (Site) in Los Angeles, California. The 2001 semi-annual event at the Site was conducted from July 16 through 19, 2001 and included the following:

- The original sampling and monitoring plan (*Groundwater Monitoring Work Plan 2000* [Kennedy/Jenks, 2000b]) called for measuring groundwater levels at 30 locations. Due to construction activities and changes in the monitoring well network, measurements were taken in 26 wells, and

- Attempted sampling of groundwater from 19 wells with successful sampling of 17 wells. Groundwater samples could not be collected from two of the wells specified in the *Groundwater Monitoring Work Plan 2000* (Kennedy-Jenks, 2000b) due to damage and/or burial during construction activities. The groundwater samples collected from the 17 accessible wells were submitted for analysis for Volatile Organic Compounds (VOCs) by US Environmental Protection Agency (EPA) Method 8260B.

This report provides documentation and discussion of the July 2001 semi-annual event.

2.0 SITE BACKGROUND

2.1 SITE LOCATION

The Site is located at 19503 South Normandie Avenue in Los Angeles, California in an area located between the cities of Torrance to the west and Carson to the east. A site location map is included as Figure 1 and a site plan map as Figure 2. The Site occupies approximately 170 acres.

The Site is bounded on the north by 190th Street and to the east by Normandie Avenue. To the west of the Site is the former Industrial Light Metals (ILM) facility and to the south the former Montrose facility and a residential area.

2.2 SITE HISTORY

For 40 years (1952-1992), the Site had reportedly been used for the manufacturing of aircraft and aircraft parts. Prior to 1952, industrial uses of the Site included aluminum and steel production, and before 1940, the Site was reportedly farmland. A limited amount of assembly and activities related to warehousing continued through mid-2000. Currently, the Site is closed and is undergoing building demolition. Various stages of redevelopment activities are underway at the Site.

Groundwater investigation activities at the Site began in 1987. Since then, a total of 40 groundwater monitoring wells have been installed at the Site. Prefixes of Site groundwater monitoring wells include BL, DAC, TMW, WCC and XMW. Eleven of the 40 wells have been abandoned as a result of redevelopment activities. Two wells (BL-3 and TMW-9) have been temporarily rendered inaccessible during construction activities. At least three additional wells have had reference elevations modified. Table 1 is a compilation of the groundwater monitoring well details for reference purposes.

2.3 REGIONAL GEOLOGY AND HYDROGEOLOGY

The description of the geology and hydrogeology of the region surrounding the Site is drawn from reports published by the U.S. Geological Survey (USGS) (Poland, et al., 1959) and the California Department of Water Resources (DWR, 1961). Reference is also made to previous reports prepared by Kennedy/Jenks Consultants for the Site.

The Site is located on a broad plain at an elevation of about 50 feet above mean sea level (MSL). The DWR and USGS define this area as the Torrance Plain, a Pleistocene-age marine surface, and a subdivision of the West Coast Basin/Coastal Plain of Los Angeles and Orange Counties. The ground surface in this area is generally flat with an eastward gradient of about 20 feet per mile (less than one-half percent). Surface drainage is

generally toward the Dominguez Channel, about a mile to the east. The Dominguez Channel, in turn, flows southeastward toward the Los Angeles and Long Beach Harbors in San Pedro Bay.

The West Coast Basin includes a thick sequence (up to 13,000 feet) of marine and continental sediments (Miocene to Recent) deposited in a broad synclinal depression over a basement complex of igneous and metamorphic rocks. The uppermost sequence of deposits of interest within the West Coast Basin is as follows:

Youngest	Active Dune Sand
⇧	Alluvium
	Older Dune Sand
⇩	Lakewood Formation (upper Pleistocene)
Oldest	San Pedro Formation (lower Pleistocene)

The dune sands and alluvium are not present at the Site. The Lakewood Formation is mapped at the surface in the Site vicinity.

The Lakewood Formation (DWR, 1961) includes all of the upper Pleistocene sediments in the Los Angeles Coastal Plain area. The deposits are of both marine and continental origin, representing stream transport and sedimentation along the Pleistocene marine plain. In the Site area, the Lakewood Formation may include the Semi-perched aquifer, the Bellflower Aquiclude, and the Gage Aquifer. The Semi-perched aquifer includes deposits described as Terrace Cover (Poland, et al., 1959). Based on correlations of Site stratagraphic data to data from adjacent sites, it appears that the Semi-perched aquifer is absent at the Site. The Bellflower Aquiclude is a heterogeneous mixture of continental, marine, and wind-blown sediments, mainly consisting of clays with sandy and gravely lenses (DWR, 1961). The base of the Bellflower Aquiclude is about 100 feet below sea level or about 150 feet below ground surface (bgs) in the Site area. The Gage Aquifer is a water-bearing zone of fine to medium sand and gravel confined by the Bellflower Aquiclude. It is reported to be about 40 feet thick in the Site area.

The Lakewood Formation is underlain by the Lower Pleistocene San Pedro Formation, which continues to about 1,000 feet bgs in the Site area. Major water-bearing zones within the San Pedro Formation are the Lynwood Aquifer and the Silverado Aquifer. These are reported to be about 300 and 500 feet bgs respectively, in the Site area (DWR, 1961). The Silverado Aquifer is an important groundwater source in the Coastal Plain and is considered a source of drinking water (DWR, 1961).

2.4 SITE GEOLOGY AND HYDROGEOLOGY

2.4.1 Site Geology

Groundwater monitoring wells and soil borings drilled at the Site have encountered the Lakewood Formation. The majority of the monitoring wells extend to approximately 90 feet bgs. Two monitoring wells extended to 140 feet bgs. The top 20 to 50 feet below the site are mainly fine-grained soils (predominantly silts and clays) that become thicker to the east. A sandy zone that dips downward to the east underlies the fine-grained soils. The sandy zone is generally 80 to 100 feet thick and contains discontinuous layers of fine-grained sediment that also dip down to the east. Although the fine-grained layers within the sandy unit are discontinuous, there are two separate fine-grained layers that are relatively continuous. Beneath some areas of the Site, the discontinuous fine-grained units overlap. The sandy unit is underlain by another fine-grained zone at approximately 110 to 120 feet bgs.

2.4.2 Site Hydrogeology

Groundwater conditions at the site are known from previous investigations and from the quarterly groundwater monitoring program (Kennedy/Jenks Consultants, 2000a). Groundwater samples from monitoring wells at the Site have been collected and analyzed on a regular basis since 1987. The uppermost groundwater at the Site appears to be under water table conditions at depths of 60 to 70 feet bgs. Regionally, this uppermost groundwater appears to be within relatively permeable sediments of the Bellflower Aquitard. Monitoring wells at the Site are completed in two zones. Most of the wells are completed at or near the water table, at depths of about 55 to 90 feet. Two deeper wells, WCC-1D and WCC-3D, were completed in a deeper zone at about 115 to 140 feet. Well WCC-1D has since been abandoned (Table 1).

The following primary hydrogeologic units are recognized in the general vicinity of the Site:

FORMATION	HYDROSTRATIGRAPHIC UNIT	
Lakewood Formation (Upper Pleistocene)	Bellflower Aquitard	Upper Bellflower Aquitard (UBF)
		Middle Bellflower Sand (MBF, MBFM, MBFC, MBFB/C)
		Lower Bellflower Aquitard (LBF)
	Gage Aquifer (GAGE)	
San Pedro	Gage Lynwood Aquitard (GLA)	

FORMATION	HYDROSTRATIGRAPHIC UNIT
(Lower Pleistocene)	Lynwood Aquifer (LYNWOOD)
	Unnamed Aquitard
	Silverado Aquifer

The relatively fine-grained Upper Bellflower Aquitard (UBF) is continuous across the area but thins to the northwest. The UBF is comprised of laminated to massive yellowish brown muds with local sands and fossiliferous zones. The UBF is found at the surface beneath the Site and is approximately 25 feet thick.

The Middle Bellflower Aquitard is a massive, light yellowish brown, fine to medium sand with local muddy zones. An extensive mud layer referred to as the Middle Bellflower Mud (MBFM) locally interrupts this sand. Where divided, the sand subunits are referred to as the B-Sand (MBFB) and C-Sand (MBFC). The MBFM is discontinuous across the area and is comprised of laminated silts and layered silts and very fine sands. Deeper borings at the former ILM facility and the Site do not always encounter the MBFM. The MBFB is found at an approximate depth of 25 feet bgs at the Site and is generally from 25 to 40 feet thick. The MBFM is found at different depths across the Site ranging from an approximate minimum depth of 40 feet bgs to an approximate maximum depth of 80 feet bgs. The MBFC is found at an approximate depth of 75 to 90 feet bgs at the Site.

The fine-grained Lower Bellflower Aquitard (LBF) appears to be continuous across the area. It occurs at an approximate depth of 110 to 120 feet bgs and ranges in thickness from 10 to 25 feet thick. The LBF separates the Bellflower sands from the underlying Gage Aquifer. The Gage Aquifer in the Site vicinity is predominately sand and ranges in thickness from 40 to 78 feet. No monitoring wells are drilled into the Gage Aquifer at the Site.

3.0 GROUNDWATER SAMPLING PROCEDURES

3.1 MONITORING PLANS

The 2001 semi-annual event at the Site was conducted from July 16 through 19, 2001 by Tait Environmental Management, Inc. (TEM) field personnel. Work was conducted in accordance with the following documents:

- *Groundwater Monitoring Work Plan 2000* by Kennedy/Jenks Consultants, dated December 15, 2000.
- *Groundwater Monitoring Services Standard Operating Procedures, Boeing Realty Corporation, Former C-6 Facility*, prepared by Tait Environmental Management, dated January 11, 2001.

The following summarizes the activities performed during the semi-annual groundwater monitoring and sampling event.

- **Groundwater Level Monitoring**
  - Site groundwater wells were gauged on July 16, 2001 (Table 2). 26 water levels were measured.
  - A groundwater contour map was generated based on measured July 2001 groundwater elevations.
- **Sampling and Analysis**
  - Seventeen wells were sampled and analyzed for VOCs by EPA Method 8260B

Field activities at the site were conducted under a Health and Safety Plan prepared for this project as follows:

- *Health and Safety Plan Prepared for Boeing Realty Corporation, Former C-6 Facility, Los Angeles, California*, prepared by Tait Environmental Management, dated January 8, 2001.

The Health and Safety Plan describes the safety requirements for the sampling of soil and groundwater at the subject Site.

3.2 FIELD PROCEDURES

Field procedures for this sampling event are outlined in the documents listed previously in Section 3.1.

3.3 QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

This report is based on data that has undergone formal validation procedures. Laboratory validation services were provided by Laboratory Data Consultants, Inc. (LDC). Two levels of data validation services were performed, Tier 2 and Tier 3 validation. The review follows the modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999). Ten percent of the data (2 samples) were subjected to Tier 3 analysis. An additional twenty percent of the data (3 samples) were validated according to Tier 2 criteria. The QA/QC and data validation report is included as Appendix C.

4.0 MONITORING AND SAMPLING RESULTS

4.1 GROUNDWATER LEVEL MONITORING

Field sheets for the data collected by TEM are included in Appendix A and a summary of the groundwater elevations for the 2001 semi-annual event is presented in Table 2.

During the 2001 semi-annual event, groundwater elevations below the Site were generally 13 to 15 feet below MSL, or approximately 60 to 70 feet bgs. The groundwater elevations measured during this event are included in Table 2 as a reference. However, due to Site construction activities, several well casings were damaged or modified. TMW-9 and BL-3 were damaged or buried and were not accessible for monitoring activities. Additionally, changes in monitoring well casing conditions were noted by field personnel at TMW-4, TMW-5, and TMW-12. At these locations, the groundwater measuring points appear to have changed from previous values, therefore, the measured groundwater elevations at these locations are not accurate. Figure 3, Groundwater Elevation Map, was generated using only results that could be verified as accurate. The wells will be resurveyed prior to the next sampling event. Groundwater elevations are approximately 0.4 to 0.5 feet above the values measured during the January-February 2001 Annual Event, placing them at similar elevations as their highest recent levels measured in July 1999.

Figure 3 is a groundwater elevation map of the MBFB generated using the accurate data collected during the 2001 semi-annual event. The hydraulic gradient in the MBFB was measured to be approximately 0.0009 ft/ft (9 feet in 10,000 feet) to the south. The gradient has decreased by approximately 0.0002 ft/ft (2.0 feet in 10,000 feet) from the previous event, and approximately 0.0004 ft/ft (4.0 feet in 10,000 feet) from the July 1999 groundwater sampling event when the gradient was 0.0013 ft/ft (1.3 feet in 1,000 feet) to the south.

Historic groundwater levels are presented in Table 3 and hydrographs for the wells are included as Figures 4a through 4d. The low gradient is demonstrated in the hydrographs by the extremely close proximity of the hydrographs from individual wells.

4.2 GROUNDWATER QUALITY

4.2.1 VOC Results

The following discussion of VOC analytical results includes comparisons to previous information. Unless specifically stated, the comparisons are made to the previous sampling event (January-February 2001 Annual Event).

Results of VOC analysis by EPA Method 8260B for the 2001 semi-annual event are summarized in Table 4. There were no indications of non-aqueous phase liquid (NAPL) within any of the sampled wells. General plume geometries for Trichloroethene (TCE) (Figure 5), 1,1-Dichloroethene (1,1-DCE) (Figure 7), Tetrachloroethene (PCE) (Figure 9), and 1,1,1-Trichloroethane (1,1,1-TCA) (Figure 11) appear to be relatively unchanged from the previous three sampling events (July 1999, June 2000, and January-February 2001). The chloroform plume geometry (Figure 13) was somewhat altered from the last monitoring event in the northern portion of the Site. This change in plume geometry is due primarily to the inclusion of TMW-2 data (inadvertently omitted from the *Groundwater Monitoring Report Annual Event January/February 2001)*). All other plume figures from the previous event included TMW-2 data. On a historical basis (Table 5), the measured chloroform concentration at TMW-2 has been decreasing significantly since monitoring began in 1998 from a high value of 350 ug/l in 1998 to the current value of 170 ug/l.

Figure 5 shows the dissolved-phase TCE concentrations in the MBFB. TCE concentrations in groundwater decreased at WCC-3S, TMW-1, TMW-2, TMW-4, TMW-6, TMW-11, TMW-12 and TMW-15. The TCE concentrations in groundwater increased at WCC-6S, TMW-7, TMW-13 and TMW-14. Two locations showed significant increases in TCE concentration: TMW-3 from 2,200 ug/l to 8,800 ug/l at TMW-3, and from 2,900 ug/l to 4,700 ug/l at TMW-5. However, the current measured TCE concentration at TMW-3 and TMW-5 is commensurate with values obtained at these locations during monitoring events performed in 1998 and 1999. The TCE concentration in groundwater at the remaining wells monitored during this event (TMW-8, TMW-10) remain unchanged. TMW-13 and TMW-14 remain essentially unchanged. Concentrations vs. time graphs for TCE are included as Figures 6a through 6d.

Figure 7 shows the dissolved-phase 1,1-DCE concentrations in the MBFB. 1,1-DCE concentrations in groundwater decreased at TMW-4, TMW-6, TMW-7, TMW-12, TMW-13 TMW-15 and TMW-16. The 1,1-DCE concentrations increased at WCC-3S, WCC-6S, TMW-1, TMW-2. Similar to TCE observations, concentrations of 1,1-DCE in groundwater increased at TMW-3 from 76 ug/l to 350 ug/l and at TMW-5 from 460 ug/l to 630 ug/l. 1,1-DCE was not detected in groundwater at TMW-10, TMW-11 and TMW-14 and was relatively unchanged at TMW-8. Concentration vs. time graphs for 1,1-DCE, are included as Figures 8a through 8d.

Figure 9 shows the dissolved-phase PCE concentrations in the MBFB. PCE concentrations in groundwater have continued to be generally minimal or not detected. TMW-10, TMW-11, TMW-12, TMW-13 and TMW-14 contained detectable quantities of PCE ranging from 0.82 ug/l at TMW-14 to 12 ug/l at TMW-12. The detection limits for this sampling event, however, were generally lower than previous events. None of the detected concentrations of PCE were significantly different than previously measured values. Concentration vs. time graphs for PCE are included as Figures 10a through 10d.

Figure 11 shows the dissolved-phase 1,1,1-TCA concentrations in the MBFB. Only one of the monitoring locations had laboratory non-qualified detected levels of 1,1,1-TCA in groundwater. The 1,1,1-TCA concentration in groundwater at TMW-2 was slightly elevated from the previous event (1,100 ug/l [current] vs. 960 ug/l [previous]). Consistent with the historical data, WCC-3S and WCC-6S also showed 2,200 ug/l and 540 ug/l of 1,1,1-TCA, respectively. Concentration vs. time graphs for 1,1,1-TCA are included as Figures 12a through 12d.

Figure 13 shows the dissolved-phase chloroform concentrations in the MBFB. Chloroform concentrations in groundwater, where they have been measured above the detection limit, have generally decreased in the TMW series of wells except for TMW-5 and TMW-13 where the chloroform concentrations increased from 15 ug/l to 19 ug/l and from 7.1 ug/l to 13 ug/l, respectively. At WCC-3S, chloroform concentration in groundwater has decreased. As with the other VOC measurements, detection limits were generally lower for this event than during previous events. At some locations (WCC-6S and TMW-8), concentrations of chloroform were noted at values less then the detection limits from the previous sampling event. Concentration vs. time graphs for chloroform are included as Figures 14a through 14d.

As in previous sampling events, some minor occurrences of VOCs, other then the primary chemicals of concern described above, were measured and are tabulated on Table 4. These occurrences included:

- Benzene WCC-3S, WCC-6S and TMW-2 (390 ug/l, 27 ug/l and 56 ug/l, respectively).
- 2-butanone (MEK) 75,000 ug/l of at TMW-2.
- Toluene at WCC-3S, TMW-2 and WCC-6S (73,000 ug/l, 2,800 ug/l and 360 ug/l). At 12 of the remaining 14 wells not mentioned previously low concentrations of toluene were measured consistently (4.9 ug/l to 26 ug/l).

Based on review of previous monitoring information (Table 5), the occurrence of 2-butanone at TMW-2 is unusually high. However, 2-butanone (MEK) is listed as a common laboratory contaminant in the current USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999). The toluene concentration at WCC-3S is significantly higher than all but two of the historical measurements dating back to November 1987.

5.0 QUALITY CONTROL/QUALITY ASSURANCE

5.1 FIELD QUALITY CONTROL SAMPLES

5.1.1 Field Duplicates

Field duplicates are taken to assess the precision of the sampling protocol. Duplicate samples were collected from BL-1 and WCC-3S and analyzed for VOC concentrations. These results are included in Table 4. In evaluating the relative percent difference (RPD) between the sample data and the duplicate data, only samples with concentrations that are five times or greater than the detection limit are analyzed as shown below.

BL-1 -- Concentration (ug/l)

Sample	cis-1,2-DCE	Methylene chloride	Toluene	Vinyl chloride
BL-1	11	4.8	6.4	2.8
BL-1 Duplicate	12	6.0	6.9	3.0
RPD	***-8.7***	***-22.2***	***-7.5***	***-6.9***

WCC-3S -- Concentration (ug/l)

Sample	1,1,1-TCA	1,1-DCA	1,1-DCE	4-Methyl-2-pentanone	Benzene	Chloroform	cis-1,2-DCE	Toluene	trans-1,2-DCE	Trichloro ethene	Xylenes (total)
WCC-3S	2,200	840	32,000	6,100	390	140	7,900	73,000	960	140	250
WCC-3S	2,200	820	34,000	6,400	410	100	7,800	75,000	940	140	220
RPD	***0.0***	***2.4***	***-6.1***	***-4.8***	***-5.0***	***33.3***	***1.3***	***-2.7***	***2.1***	***0.0***	***12.8***

Generally, if a sample has a RPD greater than plus or minus 15 but less than 100, it is qualified as estimated (J). If a sample has a RPD greater than 100, it is qualified as unusable (R). Based on that criteria, the chloroform concentration at WCC-3S should be qualified with a J, as should the methylene chloride concentration at BL-1.

5.1.2 Trip Blanks

Trip blanks are samples that originate from analyte-free water taken from the laboratory to the sampling site and returned to the laboratory with the volatile organic analysis samples. Two trip blanks were transported to the laboratory and analyzed. Trip blanks are summarized in Table 4. No contaminants where found in the trip blanks.

5.1.3 Rinsate Blanks

Rinsate blanks are the final, analyte-free rinse water collected from equipment cleaning. One rinsate blank was collected for each day of sampling. Rinsate blanks are summarized in Table 4. Minor amounts of contaminants where found in each of the rinsate blanks.

5.1.4 Field Blanks

Field blanks were collected from the water source used in the decontamination of sampling equipment. One field blank was collected on each day of sampling. Field blank analysis results are summarized in Table 4. Minor amounts of contaminants were found in each of the field blanks.

5.2 LABORATORY QA/QC SAMPLES

The certified analytical reports from STL laboratories are included in Appendix B. Data validation results are included in Appendix C. Appropriate data qualifiers, as determined by LDC, have been included where appropriate.

Review of the QA/QC data for the chemicals of concern indicate that:

- Based on the data validation and the RPD calculations for duplicates, all detected chloroform concentrations at WCC-3S, TMW-11 and TMW-12 have been qualified as estimated.
- TCE concentrations at TMW-4 and TMW-5 have been qualified as estimated.

The data collected during this event is adequate for continued characterization and monitoring of VOCs in groundwater beneath the site. However, review of the analytical QA/QC for this event has prompted additional attention to both field and laboratory QA/QC procedures during future monitoring events. A review of the Proposed Monitoring Program (Appendix D) will be performed prior to the next monitoring event.

6.0 CONCLUSIONS

Groundwater levels have generally increased beneath the Site since the last sampling event by up to 0.5 feet. The hydraulic gradient beneath the site remains relatively low, decreasing during this monitoring event from 0.0011 to 0.0009 ft/ft to the south.

In general, concentrations of dissolved chlorinated VOCs have decreased at most locations since the previous monitoring event. However, somewhat elevated concentrations of TCE were observed at TMW-3 and TMW-5. The measured VOC concentrations during this sampling event were all within previous sampling event measurement limits. The plume geometries remain relatively constant.

7.0 REFERENCES

Exponent, 2000. *Statement of Work for Evaluation of Natural Attenuation at Boeing Realty Corporation's C-6 Facility*, Torrance, California. December 2000.

Kennedy/Jenks Consultants, 2000a. *Groundwater Status Report*, dated October 27, 2000.

Kennedy/Jenks Consultants, 2000b. *Groundwater Monitoring Work Plan 2000*, dated December 2000.

Poland, J.F., Garnett, A. A., and Sinnott, A., 1959. *Geology, Hydrology and Chemical Characteristics of the Ground Waters in the Torrance-Santa Monica Area, California*; USGS Water Supply Paper 1461.

State of California, Department of Water Resources, 1961. *Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County. Appendix A Ground Water Geology*.0.

Tait Environmental Management, Inc. *Boeing Realty Corporation, Former C-6 Facility, Groundwater Monitoring Services, Standard Operating Procedures.* January 11, 2001.

Tait Environmental Management, Inc. *Health and Safety Plan Prepared for Boeing Realty Corporation, Former C-6 Facility, 19503 South Normandie Avenue, Los Angeles, California.* January 8, 2001.

USEPA, 1999. *Record of Decision for Dual Site Groundwater Operable Unit, Montrose Chemical and Del Amo Superfund Sites*, Volume I and II. Dated March 1999.

FIGURES

BOE-C6-0048731

Tables

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ENVIRONMENTAL ENGINEERING

Table 1
Well Information
Boeing Realty Corporation Former C-6 Facility

Name	Easting[1]	Northing[1]	Top of Casing Elevation (AMSL)[2]	Boring Total Depth (feet)	Screen Depth Interval (feet)	Depth to Top of Filter Pack (feet)	Casing Diameter (in)	Casing Type	Slot Size	Drilled Date	Comments
WCC-1S	*12738.89*	*13194.04*	*50.74*	*91*	*77-87*	*75*	*2*	*Sched 40 PVC*	*0.020-Inch*	*3/25/87*	*Abandoned*
WCC-1D	*12739.11*	*13181.09*	*50.69*	*140*	*120-140*	*114*	*4*	*Sched 40 PVC*	*0.010-Inch*	*6/30/89*	*Abandoned*
WCC-2S	*12234.27*	*13451.60*	*50.83*	*90.5*	*70-90*	*63*	*4*	*Sched 40 PVC*	*0.010-Inch*	*10/28/87*	*Abandoned*
WCC-3S	12608.52	13238.90	51.16	92	69-89	64	4	Sched 40 PVC	0.010-Inch	10/26/87	
WCC-3D	12583.61	13265.87	51.16	140	120-140	115	4	Sched 40 PVC	0.010-Inch	6/27/89	
WCC-4S	12741.35	13075.30	49.65	91.5	70.5-90.5	65	4	Sched 40 PVC	0.010-Inch	10/27/87	
WCC-5S	12963.90	12998.70	48.84	91	61-91	63.5	4	Sched 40 PVC	0.010-Inch	11/24/87	
WCC-6S	12580.24	12953.10	51.32	91	60-90	54	4	Sched 40 PVC	0.010-Inch	9/22/89	
WCC-7S	12730.37	12868.65	50.23	90.5	60-90	54	4	Sched 40 PVC	0.010-Inch	6/8/89	
WCC-8S	*12737.33*	*13318.92*	*50.87*	*90*	*59.5-89.5*	*54*	*4*	*Sched 40 PVC*	*0.010-Inch*	*6/12/89*	*Abandoned*
WCC-9S	12928.87	12627.94	46.93	91.5	60-90	55	4	Sched 40 PVC	0.010-Inch	9/21/89	
WCC-10S	*11338.90*	*14038.98*	*58.17*	*90.8*	*60-90*	*54*	*4*	*Sched 40 PVC*	*0.010-Inch*	*6/7/89*	*Abandoned*
WCC-11S	12744.01	13870.68	51.37	91	60-90	56	4	Sched 40 PVC	0.010-Inch	9/13/90	
WCC-12S	12749.26	12715.21	46.93	91.5	60-90	55	4	Sched 40 PVC	0.010-Inch	9/17/90	
DAC-P1	11194.86	12988.63	-	90	60-90	55	4	Sched 40 PVC	0.010-Inch	9/25/89	
TMW-1	12212.00	13143.49	51.24	86	61-81	59	2	Sched 40 PVC	0.010-Inch	6/28/98	
TMW-2	12478.09	13161.38	51.18	87	62-82	57	2	Sched 40 PVC	0.010-Inch	6/28/98	
TMW-3	11909.54	12315.47	51.07	87	62.5-82.5	60	2	Sched 40 PVC	0.010-Inch	7/21/98	
TMW-4	12498.69	12334.70	50.35	86	60-80	58	2	Sched 40 PVC	0.010-Inch	6/30/98	*Survey Reference* [3]
TMW-5	12038.44	11931.45	50.12	86	61.3-81.3	58.9	2	Sched 40 PVC	0.010-Inch	7/2/98	*Survey Reference* [3]
TMW-6	12552.93	11936.32	50.13	86	61.2-81.2	59.1	2	Sched 40 PVC	0.010-Inch	7/1/98	
TMW-7	12560.70	12701.25	51.12	89.5	64-84	62	2	Sched 40 PVC	0.010-Inch	6/29/98	
TMW-8	12571.93	12812.42	51.06	89.5	61-81	59	2	Sched 40 PVC	0.010-Inch	6/29/98	
TMW-9	*12344.53*	*12740.05*	*51.21*	*86*	*61-81*	*59*	*2*	*Sched 40 PVC*	*0.010-Inch*	*6/30/98*	*Buried* [4]
TMW-10	12968.14	12170.61	47.52	85	60.5-80.5	57.6	2	Sched 40 PVC	0.010-Inch	1/28/99	
TMW-11	12968.08	11423.04	47.47	83	58-78	54.6	2	Sched 40 PVC	0.010-Inch	2/1/99	
TMW-12	12529.43	11402.90	50.85	88	62-82	59.3	2	Sched 40 PVC	0.010-Inch	1/27/99	*Survey Reference* [3]
TMW-13	11973.10	11416.11	50.91	85	60-80	58	2	Sched 40 PVC	0.010-Inch	2/2/99	
TMW-14	11797.06	11416.11	58.21	90	65-85	63	2	Sched 40 PVC	0.010-Inch	2/3/99	
TMW-15	11800.22	12165.10	55.26	92	62-87	60	2	Sched 40 PVC	0.010-Inch	2/4/99	
TMW-16	11887.57	12904.74	50.91	82.5	56.5-76.5	54.5	2	Sched 40 PVC	0.010-Inch	1/29/99	
TMW-17	11533.67	12604.45	-	87	62-82	59	2	Sched 40 PVC	0.010-Inch	5/10/99	

BOE-C6-0048733

Table 1
Well Information
Boeing Realty Corporation Former C-6 Facility

Name	Easting[1]	Northing[1]	Top of Casing Elevation (AMSL)[2]	Boring Total Depth (feet)	Screen Depth Interval (feet)	Depth to Top of Filter Pack (feet)	Casing Diameter (in)	Casing Type	Slot Size	Drilled Date	Comments
BL-1	11218.52	13450.56	58.34	81.5	61.5-81.5	56.5	2	Sched 40 PVC	0.010-Inch	2/2/1999	
BL-2	*11202.12*	*12546.32*	*58.15*	*81.5*	*61.5-81.5*	*56.6*	*2*	*Sched 40 PVC*	*0.010-Inch*	*2/3/1999*	*Abandoned*
BL-3	*11207.79*	*11961.46*	*59.33*	*82*	*62-82*	*59*	*2*	*Sched 40 PVC*	*0.010-Inch*	*2/8/1999*	*Buried and Damaged* [5]
BL-4	*11333.09*	*11087.39*	-	*79*	*58-78*	*55*	*2*	*Sched 40 PVC*	*0.010-Inch*	*2/16/1999*	*Abandoned*
BL-5	*11397.77*	*13550.72*	-	*78.5*	*58-78*	*55*	*2*	*Sched 40 PVC*	*0.010-Inch*	*2/4/1999*	*Abandoned*
BL-6	*11547.74*	*13063.70*	-	*78.5*	*58-78*	*55*	*2*	*Sched 40 PVC*	*0.010-Inch*	*2/4/1999*	*Abandoned*
BL-7	*11569.25*	*12295.45*	-	*78.5*	*58-78*	*54*	*2*	*Sched 40 PVC*	*0.010-Inch*	*2/8/1999*	*Abandoned*
BL-8	*11546.23*	*11321.84*	-	*81*	*60-80*	*57*	*2*	*Sched 40 PVC*	*0.010-Inch*	*2/16/1999*	*Abandoned*
Montrose Wells											
XMW-09	12654.36	11148.11	-	-	66-81	-	4	-	-	5/9/1989	
XMW-18	12286.92	11426.42	-	-	68-83	-	4	-	-	3/29/1990	
XMW-19	12968.08	11757.92	-	-	63-79	-	4	-	-	3/30/1990	

1 Local coordinate system (feet)
2 AMSL - Above Mean Sea Level
3 Survey reference damaged due to redevelopment grading activities, will be re-established prior to January 2002 Semi-Annual Event
4 Well buried by soil stockpile, will be monitored in January 2002 Semi-Annual Event
5 Well buried and damaged. Suitability for monitoring point to be evaluated prior to January 2002 Semi-Annual Event

BOE-C6-0048734

Table 2
Groundwater Elevations - July 2001
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	Reference Elevation (feet AMSL) [1]	Depth to Water (feet)	Ground Water Elevation (feet AMSL)	Total Depth (feet)	Comments
WCC-3S	7/16/01	51.16	64.45	-13.29	91.20	
WCC-3D	7/16/01	51.16	64.58	-13.42	139.55	
WCC-4S	7/16/01	49.65	63.00	-13.35	89.90	
WCC-5S	7/16/01	48.84	62.12	-13.28	90.22	
WCC-6S	7/16/01	51.32	64.81	-13.49	88.81	
WCC-7S	7/16/01	50.23	63.70	-13.47	90.56	
WCC-9S	7/16/01	46.93	60.54	-13.61	89.57	
WCC-11S	7/16/01	51.37	64.00	-12.63	91.34	
WCC-12S	7/16/01	46.93	60.64	-13.71	90.59	
DAC-P1	7/16/01	---	65.73	---	90.62	
TMW-1	7/16/01	51.24	64.55	-13.31	80.16	
TMW-2	7/16/01	51.18	64.52	-13.34	80.03	
TMW-3	7/16/01	51.07	64.93	-13.86	82.03	
TMW-4	7/16/01	50.35	64.45	-14.10 (approx)	78.53	*Survey Reference* [2]
TMW-5	7/16/01	50.12	64.50	-14.38 (approx)	80.18	*Survey Reference* [2]
TMW-6	7/16/01	50.13	64.57	-14.44	79.95	
TMW-7	7/16/01	51.12	64.87	-13.75	82.32	
TMW-8	7/16/01	51.06	64.7	-13.64	79.90	
TMW-9	*7/16/01*	51.21 [2]	---	---	---	*Buried* [3]
TMW-10	7/16/01	47.52	61.54	-14.02	78.22	
TMW-11	7/16/01	47.47	62.06	-14.59	78.39	
TMW-12	7/16/01	50.85	64.47	-13.62 (approx)	78.13	*Survey Reference* [2]
TMW-13	7/16/01	50.91	65.57	-14.66	78.90	
TMW-14	7/16/01	58.21	72.85	-14.64	88.32	
TMW-15	7/16/01	55.26	69.18	-13.92	87.82	
TMW-16	7/16/01	50.91	67.27	-16.36	76.68	
BL-1	7/16/01	58.34	71.03	-12.69	83.63	
BL-3	7/16/01	---	---	---	---	*Buried* [3]

Notes:
Depth to Water measurements taken from top of monitoring well casing
Measuring points will be resurveyed during next monitoring event
1 AMSL - Above Mean Sea Level as measured during prior survey events
2 Survey reference damaged due to redevelopment grading activities, will be re-established prior to January 2002 Semi-Annual Event
3 Well buried by soil stockpile, will be monitored in January 2002 Semi-Annual Event
4 Reference elevation unknown and will be approximated. Elevation will be re-established prior to January 2002 Semi-Annual Event

Table 3
Historic Groundwater Elevations
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	Reference Elevation (feet)	Depth to Water (feet)	Ground Water Elevation (feet MSL)	Total Depth (feet)	Comments
BL-1	3/6/99			-12.41		
BL-1	7/12/99			-12.38		
BL-1	1/14/00			-12.7		
BL-1	6/20/00			-12.86		
BL-1	1/15/01	58.34	71.41	-13.07		
BL-1	7/16/01	58.34	71.03	-12.69		
BL-2	3/6/99			-13.32		
BL-2	7/12/99			-13.17		
BL-2	1/14/00			-13.4		
BL-2	6/20/00			-13.51		
BL-2	1/15/01	58.15	71.91	-13.76		
BL-3	3/6/99			-13.89		
BL-3	7/12/99			-13.83		
BL-3	1/14/00			-14.08		
BL-3	6/20/00			-14.25		
BL-3	1/15/01	59.33	73.70	-14.37		
BL-4	3/6/99			-14.51		
BL-4	7/12/99			-14.43		
BL-4	1/14/00			-15.11		
BL-5	3/6/99			-12.52		
BL-5	7/12/99			-12.53		
BL-5	1/14/00			-12.87		
BL-6	3/6/99			-12.92		
BL-6	7/12/99			-12.83		
BL-6	1/14/00			-13.15		
BL-7	3/6/99			-13.57		
BL-7	7/12/99			-13.44		
BL-7	1/14/00			-14.41		
BL-8	3/6/99			-14.27		
BL-8	7/12/99			-14.29		
BL-8	1/14/00			-14.55		
DAC-P1	6/15/92			-17.76		
DAC-P1	9/21/92			-17.88		
DAC-P1	1/5/93			-18.02		
DAC-P1	4/9/93			-17.46		
DAC-P1	6/7/93			-17.38		
DAC-P1	8/24/93			-17.03		
DAC-P1	11/18/93			-16.76		
DAC-P1	2/23/94			-16.74		
DAC-P1	6/10/94			-16.6		
DAC-P1	9/8/94			-16.48		
DAC-P1	12/21/94			-16.25		
DAC-P1	3/13/95			-16.41		
DAC-P1	6/12/95			-15.94		
DAC-P1	9/20/95			-15.66		
DAC-P1	12/12/95			-15.66		
DAC-P1	2/29/96			-15.4		

Table 3
Historic Groundwater Elevations
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	Reference Elevation (feet)	Depth to Water (feet)	Ground Water Elevation (feet MSL)	Total Depth (feet)	Comments
DAC-P1	6/6/96			-15.02		
DAC-P1	9/18/96			-14.88		
DAC-P1	12/18/96			-14.67		
DAC-P1	5/6/97			-14.2		
DAC-P1	7/1/97			-14.03		
DAC-P1	7/22/97			-14.01		
DAC-P1	8/4/97			-13.98		
DAC-P1	8/19/97			-13.91		
DAC-P1	9/3/97			-13.93		
DAC-P1	9/16/97			-13.91		
DAC-P1	7/14/98			-13.28		
DAC-P1	3/6/99			-12.87		
DAC-P1	7/12/99			-12.72		
DAC-P1	6/20/00			-13.01		
TMW-1	7/14/98			-13.41		
TMW-1	9/22/98			-13.56		
TMW-1	10/16/98			-13.37		
TMW-1	3/6/99			-13.52		
TMW-1	7/12/99			-13.24		
TMW-1	6/20/00			-13.65		
TMW-1	1/15/01	51.24	65.00	-13.76		
TMW-1	7/16/01	51.24	64.55	-13.31		
TMW-2	7/14/98			-13.42		
TMW-2	9/22/98			-13.49		
TMW-2	10/16/98			-13.4		
TMW-2	3/6/99			-13.41		
TMW-2	7/12/99			-13.3		
TMW-2	6/20/00			-13.46		
TMW-2	1/15/01	51.18	64.93	-13.75		
TMW-2	7/16/01	51.18	64.52	-13.34		
TMW-3	7/14/98			-14.17		
TMW-3	9/22/98			-14.18		
TMW-3	10/16/98			-14.06		
TMW-3	3/6/99			-14.14		
TMW-3	7/12/99			-13.91		
TMW-3	6/20/00			-14.12		
TMW-3	1/15/01	51.07	65.41	-14.34		
TMW-3	7/16/01	51.07	64.93	-13.86		
TMW-4	7/14/98			-14.4		
TMW-4	9/22/98			-14.43		
TMW-4	10/16/98			-14.26		
TMW-4	3/6/99			-14.28		
TMW-4	7/12/99			-14.03		
TMW-4	6/20/00			-14.26		
TMW-4	1/15/01	50.35	64.87	-14.52		
TMW-4	7/16/01	50.35	64.45	-14.1		

Table 3
Historic Groundwater Elevations
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	Reference Elevation (feet)	Depth to Water (feet)	Ground Water Elevation (feet MSL)	Total Depth (feet)	Comments
TMW-5	7/14/98			-14.62		
TMW-5	9/22/98			-14.67		
TMW-5	10/16/98			-14.48		
TMW-5	3/6/99			-14.59		
TMW-5	7/12/99			-14.33		
TMW-5	6/20/00			-14.55		
TMW-5	1/15/01	50.12	64.90	-14.78		
TMW-5	7/16/01	50.12	64.50	-14.38		
TMW-6	7/14/98			-14.71		
TMW-6	9/22/98			-14.73		
TMW-6	10/16/98			-14.56		
TMW-6	3/6/99			-14.55		
TMW-6	7/12/99			-14.42		
TMW-6	6/20/00			-14.46		
TMW-6	1/15/01	50.13	64.93	-14.8		
TMW-6	7/16/01	50.13	64.57	-14.44		
TMW-7	7/14/98			-13.98		
TMW-7	9/22/98			-14.03		
TMW-7	10/16/98			-13.91		
TMW-7	3/6/99			-13.94		
TMW-7	7/12/99			-13.78		
TMW-7	6/20/00			-14.03		
TMW-7	1/15/01	51.12	65.29	-14.17		
TMW-7	7/16/01	51.12	64.87	-13.75		
TMW-8	7/14/98			-13.85		
TMW-8	9/22/98			-13.88		
TMW-8	10/16/98			-13.79		
TMW-8	3/6/99			-13.84		
TMW-8	7/12/99			-13.65		
TMW-8	6/20/00			-13.92		
TMW-8	1/15/01	51.06	65.12	-14.06		
TMW-8	7/16/01	51.06	64.70	-13.64		
TMW-9	7/14/98			-14.08		
TMW-9	9/22/98			-14.05		
TMW-9	10/16/98			-13.93		
TMW-9	3/6/99			-13.87		
TMW-9	7/12/99			-13.7		
TMW-9	6/20/00			-14.01		
TMW-9	1/15/01	51.21	65.41	-14.2		
TMW-10	3/6/99			-14.25		
TMW-10	7/12/99			-13.09		
TMW-10	6/20/00			-14.05		
TMW-10	1/15/01	47.52	61.96	-14.44		
TMW-10	7/16/01	47.52	61.54	-14.02		
TMW-11	3/6/99			-14.81		
TMW-11	7/12/99			-14.5		
TMW-11	6/20/00			-14.63		

Table 3
Historic Groundwater Elevations
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	Reference Elevation (feet)	Depth to Water (feet)	Ground Water Elevation (feet MSL)	Total Depth (feet)	Comments
TMW-11	1/15/01	47.47	62.43	-14.96		
TMW-11	7/16/01	47.47	62.06	-14.59		
TMW-12	3/6/99			-14.88		
TMW-12	7/12/99			-14.69		
TMW-12	6/20/00			-14.97		
TMW-12	1/15/01	50.85	66.02	-15.17		
TMW-12	7/16/01	50.85	64.47	-13.62		
TMW-13	3/6/99			-14.77		
TMW-13	7/12/99			-14.6		
TMW-13	6/20/00			-14.91		
TMW-13	7/16/01	50.91	65.57	-14.66		
TMW-14	3/6/99			-14.7		
TMW-14	7/12/99			-14.46		
TMW-14	6/20/00			-14.75		
TMW-14	1/15/01	58.21	73.21	-15		
TMW-14	7/16/01	58.21	72.85	-14.64		
TMW-15	3/6/99			-14.04		
TMW-15	7/12/99			-13.64		
TMW-15	6/20/00			-14.04		
TMW-15	1/15/01	55.26	69.52	-14.26		
TMW-15	7/16/01	55.26	69.18	-13.92		
TMW-16	3/6/99			-12.89		
TMW-16	7/12/99			-12.63		
TMW-16	6/20/00			-12.86		
TMW-16	1/15/01	50.91	64.05	-13.14		
TMW-16	7/16/01	50.91	67.27	-16.36		
TMW-17	7/12/99			-13.16		
TMW-17	1/14/00			-13.41		
WCC-1D	10/18/89			-19.51		
WCC-1D	6/15/92			-19.55		
WCC-1D	9/21/92			-19.92		
WCC-1D	1/5/93			-19.61		
WCC-1D	4/9/93			-19.1		
WCC-1D	6/7/93			-19		
WCC-1D	8/24/93			-18.53		
WCC-1D	11/18/93			-18.34		
WCC-1D	2/23/94			-17.83		
WCC-1D	6/10/94			-17.47		
WCC-1D	9/8/94			-17.66		
WCC-1D	12/21/94			-17.55		
WCC-1D	3/13/95			-17.36		
WCC-1D	6/12/95			-16.79		
WCC-1D	9/20/95			-16.6		
WCC-1D	12/12/95			-16.31		
WCC-1D	2/29/96			-16.15		
WCC-1D	6/6/96			-15.73		
WCC-1D	9/18/96			-15.65		

Table 3
Historic Groundwater Elevations
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	Reference Elevation (feet)	Depth to Water (feet)	Ground Water Elevation (feet MSL)	Total Depth (feet)	Comments
WCC-1D	12/18/96			-15.34		
WCC-1D	5/6/97			-14.87		
WCC-1D	7/1/97			-14.82		
WCC-1D	7/22/97			-14.91		
WCC-1D	8/4/97			-14.85		
WCC-1D	8/19/97			-14.8		
WCC-1D	9/3/97			-14.84		
WCC-1D	9/16/97			-14.79		
WCC-1S	11/13/87			-21.63		
WCC-1S	10/18/89			-19.48		
WCC-1S	6/15/92			-19.2		
WCC-1S	9/21/92			-19.42		
WCC-1S	1/5/93			-19.34		
WCC-1S	4/9/93			-18.79		
WCC-1S	6/7/93			-18.75		
WCC-1S	8/24/93			-18.25		
WCC-1S	11/18/93			-18		
WCC-1S	2/23/94			-17.61		
WCC-1S	6/10/94			-17.23		
WCC-1S	9/8/94			-17.25		
WCC-1S	12/21/94			-17.12		
WCC-1S	3/13/95			-17.12		
WCC-1S	6/12/95			-16.53		
WCC-1S	9/20/95			-16.27		
WCC-1S	12/12/95			-16.05		
WCC-1S	2/29/96			-15.8		
WCC-1S	6/6/96			-15.47		
WCC-1S	9/18/96			-15.36		
WCC-1S	12/18/96			-15.03		
WCC-1S	5/6/97			-14.58		
WCC-1S	7/1/97			-14.51		
WCC-1S	7/22/97			-14.58		
WCC-1S	8/4/97			-14.53		
WCC-1S	8/19/97			-14.47		
WCC-1S	9/3/97			-14.53		
WCC-1S	9/16/97			-14.46		
WCC-2S	11/13/87			-19.72		
WCC-2S	10/18/89			-19.06		
WCC-2S	6/15/92			-19.15		
WCC-2S	9/21/92			-19.41		
WCC-2S	1/5/93			-19.51		
WCC-2S	4/9/93			-18.64		
WCC-2S	6/7/93			-18.63		
WCC-2S	8/24/93			-18.15		
WCC-2S	11/18/93			-17.87		
WCC-2S	2/23/94			-17.49		
WCC-2S	6/10/94			-17.07		

Table 3
Historic Groundwater Elevations
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	Reference Elevation (feet)	Depth to Water (feet)	Ground Water Elevation (feet MSL)	Total Depth (feet)	Comments
WCC-2S	9/8/94			-17.2		
WCC-2S	12/21/94			-17.17		
WCC-2S	3/13/95			-17.08		
WCC-2S	6/12/95			-16.37		
WCC-2S	9/20/95			-16.19		
WCC-2S	12/12/95			-15.86		
WCC-2S	2/29/96			-15.77		
WCC-2S	6/6/96			-15.26		
WCC-2S	9/18/96			-15.18		
WCC-2S	12/18/96			-14.82		
WCC-2S	5/6/97			-14.36		
WCC-3D	10/18/89			-19.38		
WCC-3D	6/15/92			-19.39		
WCC-3D	9/21/92			-19.71		
WCC-3D	1/5/93			-20.52		
WCC-3D	4/9/93			-18.87		
WCC-3D	6/7/93			-18.85		
WCC-3D	8/24/93			-18.4		
WCC-3D	11/18/93			-18.18		
WCC-3D	2/23/94			-18		
WCC-3D	6/10/94			-17.39		
WCC-3D	9/8/94			-17.47		
WCC-3D	12/21/94			-17.42		
WCC-3D	3/13/95			-17.27		
WCC-3D	6/12/95			-16.67		
WCC-3D	9/20/95			-16.47		
WCC-3D	12/12/95			-16.17		
WCC-3D	2/29/96			-15.95		
WCC-3D	6/6/96			-15.57		
WCC-3D	9/18/96			-15.5		
WCC-3D	12/18/96			-15.21		
WCC-3D	5/6/97			-14.72		
WCC-3D	7/1/97			-14.65		
WCC-3D	7/22/97			-14.73		
WCC-3D	8/4/97			-14.69		
WCC-3D	8/19/97			-14.61		
WCC-3D	9/3/97			-14.65		
WCC-3D	9/16/97			-14.63		
WCC-3D	9/22/98			-13.58		
WCC-3D	10/16/98			-13.53		
WCC-3D	3/6/99			-13.6		
WCC-3D	7/12/99			-13.49		
WCC-3D	6/20/00			-13.7		
WCC-3D	1/15/01	51.16	65.01	-13.85		
WCC-3D	7/16/01	51.16	64.58	-13.42		
WCC-3S	11/13/87			-21.56		
WCC-3S	10/18/89			-19.42		

Table 3
Historic Groundwater Elevations
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	Reference Elevation (feet)	Depth to Water (feet)	Ground Water Elevation (feet MSL)	Total Depth (feet)	Comments
WCC-3S	6/15/92			-19.24		
WCC-3S	9/21/92			-19.52		
WCC-3S	1/5/93			-19.73		
WCC-3S	4/9/93			-18.83		
WCC-3S	6/7/93			-18.82		
WCC-3S	8/24/93			-18.36		
WCC-3S	11/18/93			-18.01		
WCC-3S	2/23/94			-17.67		
WCC-3S	6/10/94			-17.19		
WCC-3S	9/8/94			-17.31		
WCC-3S	12/21/94			-17.28		
WCC-3S	3/13/95			-17.22		
WCC-3S	6/12/95			-16.58		
WCC-3S	9/20/95			-16.37		
WCC-3S	12/12/95			-16.06		
WCC-3S	2/29/96			-15.93		
WCC-3S	6/6/96			-15.41		
WCC-3S	9/18/96			-15.41		
WCC-3S	12/18/96			-15.11		
WCC-3S	5/6/97			-14.63		
WCC-3S	7/1/97			-14.53		
WCC-3S	7/22/97			-14.64		
WCC-3S	8/4/97			-14.53		
WCC-3S	8/19/97			-14.52		
WCC-3S	9/3/97			-14.58		
WCC-3S	9/16/97			-14.53		
WCC-3S	7/14/98			-13.4		
WCC-3S	9/22/98			-13.48		
WCC-3S	10/16/98			-13.74		
WCC-3S	3/6/99			-13.45		
WCC-3S	7/12/99			-13.33		
WCC-3S	6/20/00			-13.47		
WCC-3S	1/15/01	51.16	64.87	-13.71		
WCC-3S	7/16/01	51.16	64.45	-13.29		
WCC-4S	11/13/87			-21.77		
WCC-4S	10/18/89			-19.59		
WCC-4S	6/15/92			-19.22		
WCC-4S	9/21/92			-19.49		
WCC-4S	1/5/93			-19.34		
WCC-4S	4/9/93			-18.86		
WCC-4S	6/7/93			-18.78		
WCC-4S	8/24/93			-18.37		
WCC-4S	11/18/93			-18.16		
WCC-4S	2/23/94			-17.77		
WCC-4S	6/10/94			-17.32		
WCC-4S	9/8/94			-17.37		
WCC-4S	12/21/94			-17.31		

Table 3
Historic Groundwater Elevations
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	Reference Elevation (feet)	Depth to Water (feet)	Ground Water Elevation (feet MSL)	Total Depth (feet)	Comments
WCC-4S	3/13/95			-17.23		
WCC-4S	6/12/95			-16.61		
WCC-4S	9/20/95			-16.38		
WCC-4S	12/12/95			-16.16		
WCC-4S	2/29/96			-17.02		
WCC-4S	6/6/96			-15.56		
WCC-4S	9/18/96			-15.49		
WCC-4S	12/18/96			-15.19		
WCC-4S	5/6/97			-14.74		
WCC-4S	7/1/97			-14.66		
WCC-4S	7/22/97			-14.73		
WCC-4S	8/4/97			-14.69		
WCC-4S	8/19/97			-14.61		
WCC-4S	9/3/97			-14.69		
WCC-4S	9/16/97			-14.61		
WCC-4S	7/14/98			-13.56		
WCC-4S	9/22/98			-13.46		
WCC-4S	10/16/98			-13.49		
WCC-4S	3/6/99			-13.43		
WCC-4S	7/12/99			-13.33		
WCC-4S	6/20/00			-13.51		
WCC-4S	1/15/01	49.65	63.48	-13.83		
WCC-4S	7/16/01	49.65	63.00	-13.35		
WCC-5S	10/18/89			-19.7		
WCC-5S	6/15/92			-19.13		
WCC-5S	9/21/92			-19.42		
WCC-5S	1/5/93			-19.32		
WCC-5S	4/9/93			-18.83		
WCC-5S	6/7/93			-18.78		
WCC-5S	8/24/93			-18.38		
WCC-5S	11/18/93			-18.13		
WCC-5S	2/23/94			-17.78		
WCC-5S	6/10/94			-17.33		
WCC-5S	9/8/94			-17.33		
WCC-5S	12/21/94			-17.25		
WCC-5S	3/13/95			-17.19		
WCC-5S	6/12/95			-16.56		
WCC-5S	9/20/95			-16.35		
WCC-5S	12/12/95			-16.14		
WCC-5S	2/29/96			-16.02		
WCC-5S	6/6/96			-15.54		
WCC-5S	9/18/96			-15.47		
WCC-5S	12/18/96			-15.22		
WCC-5S	5/6/97			-14.81		
WCC-5S	7/1/97			-14.71		
WCC-5S	7/22/97			-14.77		
WCC-5S	8/4/97			-14.71		

Table 3
Historic Groundwater Elevations
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	Reference Elevation (feet)	Depth to Water (feet)	Ground Water Elevation (feet MSL)	Total Depth (feet)	Comments
WCC-5S	8/19/97			-14.65		
WCC-5S	9/3/97			-14.72		
WCC-5S	9/16/97			-14.64		
WCC-5S	9/22/98			-13.52		
WCC-5S	10/16/98			-13.46		
WCC-5S	3/6/99			-13.39		
WCC-5S	7/12/99			-13.25		
WCC-5S	6/20/00			-13.46		
WCC-5S	1/15/01	48.84	62.47	-13.63		
WCC-5S	7/16/01	48.84	62.12	-13.28		
WCC-6S	10/18/89			-19.7		
WCC-6S	6/15/92			-19.4		
WCC-6S	9/21/92			-19.64		
WCC-6S	1/5/93			-19.5		
WCC-6S	4/9/93			-19.03		
WCC-6S	6/7/93			-18.97		
WCC-6S	8/24/93			-18.55		
WCC-6S	11/18/93			-18.32		
WCC-6S	2/23/94			-17.92		
WCC-6S	6/10/94			-17.48		
WCC-6S	9/8/94			-17.45		
WCC-6S	12/21/94			-17.45		
WCC-6S	3/13/95			-17.36		
WCC-6S	6/12/95			-16.75		
WCC-6S	9/20/95			-16.64		
WCC-6S	12/12/95			-16.3		
WCC-6S	2/29/96			-16.17		
WCC-6S	6/6/96			-15.76		
WCC-6S	9/18/96			-15.65		
WCC-6S	12/18/96			-15.35		
WCC-6S	5/6/97			-14.9		
WCC-6S	7/1/97			-14.79		
WCC-6S	7/22/97			-14.89		
WCC-6S	8/4/97			-14.84		
WCC-6S	9/16/97			-14.73		
WCC-6S	7/14/98			-13.69		
WCC-6S	9/22/98			-13.74		
WCC-6S	10/16/98			-13.77		
WCC-6S	3/6/99			-13.71		
WCC-6S	7/12/99			-13.55		
WCC-6S	6/20/00			-13.66		
WCC-6S	1/15/01	51.32	65.27	-13.95		
WCC-6S	7/16/01	51.32	64.81	-13.49		
WCC-7S	10/18/89			-20.07		
WCC-7S	6/15/92			-19.63		
WCC-7S	9/21/92			-19.93		
WCC-7S	1/5/93			-19.76		

Table 3
Historic Groundwater Elevations
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	Reference Elevation (feet)	Depth to Water (feet)	Ground Water Elevation (feet MSL)	Total Depth (feet)	Comments
WCC-7S	4/9/93			-19.3		
WCC-7S	6/7/93			-19.23		
WCC-7S	8/24/93			-18.83		
WCC-7S	11/18/93			-18.6		
WCC-7S	2/23/94			-18.22		
WCC-7S	6/10/94			-17.82		
WCC-7S	9/8/94			-17.8		
WCC-7S	12/21/94			-17.74		
WCC-7S	3/13/95			-17.54		
WCC-7S	6/12/95			-17.03		
WCC-7S	9/20/95			-16.82		
WCC-7S	12/12/95			-16.59		
WCC-7S	2/29/96			-16.46		
WCC-7S	6/6/96			-16.01		
WCC-7S	9/18/96			-15.95		
WCC-7S	12/18/96			-15.64		
WCC-7S	5/6/97			-15.19		
WCC-7S	7/1/97			-15.12		
WCC-7S	7/22/97			-15.2		
WCC-7S	8/4/97			-15.15		
WCC-7S	8/19/97			-15.08		
WCC-7S	9/3/97			-15.15		
WCC-7S	9/16/97			-15.06		
WCC-7S	9/22/98			-13.89		
WCC-7S	10/16/98			-13.94		
WCC-7S	3/6/99			-13.58		
WCC-7S	7/12/99			-13.46		
WCC-7S	6/20/00			-13.67		
WCC-7S	1/15/01	50.23	64.12	-13.89		
WCC-7S	7/16/01	50.23	63.70	-13.47		
WCC-8S	10/18/89			-19.35		
WCC-8S	6/15/92			-19.11		
WCC-8S	9/21/92			-19.34		
WCC-8S	1/5/93			-19.19		
WCC-8S	4/9/93			-18.69		
WCC-8S	6/7/93			-18.61		
WCC-8S	8/24/93			-18.19		
WCC-8S	11/18/93			-17.89		
WCC-8S	2/23/94			-17.49		
WCC-8S	6/10/94			-17.11		
WCC-8S	9/8/94			-17.14		
WCC-8S	12/21/94			-17.12		
WCC-8S	3/13/95			-17.29		
WCC-8S	6/12/95			-16.42		
WCC-8S	9/20/95			-16.16		
WCC-8S	12/12/95			-15.89		
WCC-8S	2/29/96			-15.76		

Table 3
Historic Groundwater Elevations
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	Reference Elevation (feet)	Depth to Water (feet)	Ground Water Elevation (feet MSL)	Total Depth (feet)	Comments
WCC-8S	6/6/96			-15.34		
WCC-8S	9/18/96			-15.27		
WCC-8S	12/18/96			-14.99		
WCC-8S	5/6/97			-14.56		
WCC-8S	7/1/97			-14.44		
WCC-8S	7/22/97			-14.5		
WCC-8S	8/4/97			-14.46		
WCC-8S	8/19/97			-14.39		
WCC-8S	9/3/97			-14.46		
WCC-8S	9/16/97			-14.39		
WCC-9S	10/18/89			-20.07		
WCC-9S	6/15/92			-19.44		
WCC-9S	9/21/92			-19.66		
WCC-9S	1/5/93			-19.56		
WCC-9S	4/9/93			-19.09		
WCC-9S	6/7/93			-19.09		
WCC-9S	8/24/93			-18.69		
WCC-9S	11/18/93			-18.42		
WCC-9S	2/23/94			-18.09		
WCC-9S	6/10/94			-18.63		
WCC-9S	34585			-19.08		
WCC-9S	34689			-17.51		
WCC-9S	34771			-17.41		
WCC-9S	34862			-16.79		
WCC-9S	34962			-16.64		
WCC-9S	35045			-16.39		
WCC-9S	35124			-16.49		
WCC-9S	35222			-15.86		
WCC-9S	35326			-15.76		
WCC-9S	35417			-15.47		
WCC-9S	35556			-15.1		
WCC-9S	35612			-15		
WCC-9S	35633			-15.07		
WCC-9S	35646			-15		
WCC-9S	35661			-14.96		
WCC-9S	35676			-15.01		
WCC-9S	35689			-14.93		
WCC-9S	36060			-13.92		
WCC-9S	36084			-13.82		
WCC-9S	36225			-13.85		
WCC-9S	36353			-13.55		
WCC-9S	36697			-13.7		
WCC-9S	36906	46.93	60.9	-13.97		
WCC-9S	37088	46.93	60.54	-13.61		
WCC-10S	10/18/89			-18.42		
WCC-10S	6/15/92			-18.94		
WCC-10S	9/21/92			-19.33		

Table 3
Historic Groundwater Elevations
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	Reference Elevation (feet)	Depth to Water (feet)	Ground Water Elevation (feet MSL)	Total Depth (feet)	Comments
WCC-10S	1/5/93			-19.1		
WCC-10S	4/9/93			-18.42		
WCC-10S	6/7/93			-18.33		
WCC-10S	8/24/93			-17.83		
WCC-10S	11/18/93			-17.54		
WCC-10S	2/23/94			-17.07		
WCC-10S	6/10/94			-16.67		
WCC-10S	9/8/94			-17.03		
WCC-10S	12/21/94			-16.97		
WCC-10S	3/13/95			-16.56		
WCC-10S	6/12/95			-16.05		
WCC-10S	9/20/95			-15.89		
WCC-10S	12/12/95			-15.54		
WCC-10S	2/29/96			-15.22		
WCC-10S	6/6/96			-14.77		
WCC-10S	9/18/96			-14.68		
WCC-10S	5/6/97			-13.78		
WCC-10S	7/1/97			-13.74		
WCC-10S	7/22/97			-13.76		
WCC-10S	8/4/97			-13.73		
WCC-10S	8/19/97			-13.69		
WCC-10S	9/3/97			-13.72		
WCC-10S	9/16/97			-13.7		
WCC-10S	7/14/98			-12.53		
WCC-10S	3/6/99			-12.67		
WCC-10S	7/12/99			-12.63		
WCC-10S	6/20/00			-13.13		
WCC-10S	1/15/01	58.17	71.37	-13.2		
WCC-11S	6/15/92			-17.62		
WCC-11S	9/21/92			-18.81		
WCC-11S	1/5/93			-18.69		
WCC-11S	4/9/93			-18.13		
WCC-11S	6/7/93			-18.04		
WCC-11S	8/24/93			-17.6		
WCC-11S	11/18/93			-17.36		
WCC-11S	2/23/94			-16.96		
WCC-11S	6/10/94			-16.45		
WCC-11S	9/8/94			-16.58		
WCC-11S	12/21/94			-16.63		
WCC-11S	3/13/95			-16.48		
WCC-11S	6/12/95			-15.83		
WCC-11S	9/20/95			-15.59		
WCC-11S	12/12/95			-15.35		
WCC-11S	2/29/96			-15.19		
WCC-11S	6/6/96			-14.71		
WCC-11S	9/18/96			-14.64		
WCC-11S	12/18/96			-14.34		

Table 3
Historic Groundwater Elevations
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	Reference Elevation (feet)	Depth to Water (feet)	Ground Water Elevation (feet MSL)	Total Depth (feet)	Comments
WCC-11S	5/6/97			-13.88		
WCC-11S	7/1/97			-13.76		
WCC-11S	7/22/97			-13.84		
WCC-11S	8/4/97			-13.74		
WCC-11S	8/19/97			-13.74		
WCC-11S	9/3/97			-13.81		
WCC-11S	9/16/97			-13.75		
WCC-11S	9/22/98			-12.68		
WCC-11S	10/16/98			-12.68		
WCC-11S	3/6/99			-12.64		
WCC-11S	7/12/99			-12.53		
WCC-11S	6/20/00			-12.88		
WCC-11S	1/15/01	51.37	64.32	-12.95		
WCC-11S	7/16/01	51.37	64.00	-12.63		
WCC-12S	6/15/92			-19.6		
WCC-12S	9/21/92			-19.9		
WCC-12S	1/5/93			-19.74		
WCC-12S	4/9/93			-19.26		
WCC-12S	6/7/93			-19.2		
WCC-12S	8/24/93			-18.78		
WCC-12S	11/18/93			-18.58		
WCC-12S	2/23/94			-18.13		
WCC-12S	6/10/94			-17.74		
WCC-12S	9/8/94			-17.79		
WCC-12S	12/21/94			-17.67		
WCC-12S	3/13/95			-17.63		
WCC-12S	6/12/95			-17		
WCC-12S	9/20/95			-16.79		
WCC-12S	12/12/95			-16.54		
WCC-12S	2/29/96			-16.4		
WCC-12S	6/6/96			-15.96		
WCC-12S	9/18/96			-15.88		
WCC-12S	12/18/96			-15.56		
WCC-12S	5/6/97			-15.15		
WCC-12S	7/1/97			-15.07		
WCC-12S	7/22/97			-15.13		
WCC-12S	8/4/97			-15.09		
WCC-12S	8/19/97			-15.03		
WCC-12S	9/3/97			-15.1		
WCC-12S	9/16/97			-15.02		
WCC-12S	7/14/98			-13.96		
WCC-12S	9/22/98			-14.06		
WCC-12S	10/16/98			-13.97		
WCC-12S	3/6/99			-13.89		
WCC-12S	7/12/99			-13.57		
WCC-12S	6/20/00			-13.85		
WCC-12S	1/15/01	46.93	60.95	-14.02		
WCC-12S	7/16/01	46.93	60.64	-13.71		

Table 4
Volatile Organic Compounds by EPA 8260B - July 2001
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	1,1,1,2-Tetra chloro ethane	1,1,1-Trichloro ethane	1,1,2,2-Tetra chloro ethane	1,1,2-Trichloro ethane	1,1,2-Trichloro trifluoro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,1-Dichloro propene	1,2,3-Trichloro benzene	1,2,3-Trichloro propane	1,2,4-Trichloro benzene	1,2,4-Trimethyl benzene	1,2-Dibromo-3-chloro propane	1,2-Dibromo ethane
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
WCC-3S	7/19/01	<200	**2,200**	<200	<200	<200	**840**	**32,000**	<200	<200	<200	<200	<200	<400	<200
WCC-3S (Duplicate)	7/19/01	<200	**2,200**	<200	<200	<200	**820**	**34,000**	<200	<200	<200	<200	<200	<400	<200
WCC-6S	7/19/01	<5	**540**	<5	**14**	<5	**74**	**5,026**	<5	<5	<5	<5	<5	<10	<5
TMW-1	7/18/01	<1	<1	<1	<1	<1	**0.29 J**	**240**	<1	<1	<1	<1	<1	<2	<1
TMW-2	7/18/01	<100	**1,100**	<100	**53 J**	<100	**1,400**	**30,000**	<100	<100	<100	<100	<100	<200	<100
TMW-3	7/19/01	<50	<50	<50	**24 J**	<50	**22 J**	**350**	<50	<50	<50	<50	<50	<100	<50
TMW-4	7/17/01	<5	<5	<5	**6.1**	<5	**12**	**850**	<5	<5	<5	<5	<5	<10	<5
TMW-5	7/17/01	<10	<10	<10	**13**	<10	**5.8 J**	**630**	<10	<10	<10	<10	<10	<20	<10
TMW-6	7/17/01	<1	<1	<1	<1	<1	**0.23 J**	**4.1**	<1	<1	<1	<1	<1	<2	<1
TMW-7	7/18/01	<5	<5	<5	**4.8 J**	<5	**10**	**560**	<5	<5	<5	<5	<5	<10	<5
TMW-8	7/18/01	<10	<10	<10	**6.8 J**	<10	**35**	**2,200**	<10	<10	<10	<10	<10	<20	<10
TMW-10	7/18/01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1
TMW-11	7/17/01	<2	<2	<2	<2	<2	<2	<2	<2	**0.83 J**	<2	<2	<2	<4	<2
TMW-12	7/17/01	<5	<5	<5	<5	<5	<5	**16**	<5	<5	<5	<5	<5	<10	<5
TMW-13	7/17/01	<1	<1	<1	<1	<1	<1	**0.39**	<1	<1	<1	<1	<1	<2	<1
TMW-14	7/18/01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1
TMW-15	7/19/01	<1	<1	<1	<1	<1	<1	**0.58**	<1	<1	<1	<1	**0.43 J**	<2	<1
BL-1	7/17/01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1
BL-1 (Duplicate)	7/17/01	<1	<1	<1	<1	<1	**0.35**	<1	<1	<1	<1	<1	<1	<2	<1

Quality Control Data

Trip Blanks															
TRIP BLANKS	7/17/01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1
TRIP BLANK	7/19/01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1
Rinsate Blanks															
TMW_4_07172001_0002	7/17/01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1
TMW_14_07182001_0002	7/18/01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1
WCC_6S_07192001_0002	7/19/01	<1	<1	<1	<1	<1	<1	**0.38**	<1	<1	<1	<1	<1	<2	<1
Field Blanks															
TMW_10_07182001_0004	7/18/01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1
TMW_13_07172001_0004	7/17/01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1
TMW_15_07192001_0004	7/19/01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1

Data Qualifiers
J = Estimated value
R = Data is not usable
UJ = DL is estimated

BOE-C6-0048749

Table 4
Volatile Organic Compounds by EPA 8260B - July 2001
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	1,2-Dichloro benzene	1,2-Dichloro ethane	1,3,5-Trimethyl benzene	1,3-Dichloro benzene	1,4-Dichloro benzene	2,2-Dichloro propane	2-Butanone	2-Chloro ethyl vinyl ether	2-Chloro toluene	2-Hexanone	4-Chloro toluene	4-Methyl-2-pentanone	Acetone	Acrolein
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
WCC-3S	7/19/01	<200	<100	<200	<200	<200	<200	<1,000	<1,000	<200	<1,000	<200	**6,100**	<2,000	<4,000
WCC-3S (Duplicate)	7/19/01	<200	<100	<200	<200	<200	<200	<1,000	<1,000	<200	<1,000	<200	**6,400**	<2,000	<4,000
WCC-6S	7/19/01	<5	**11**	<5	<5	<5	<5	<25	<25	<5	<25	<5	<25	<50	<100
TMW-1	7/18/01	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20
TMW-2	7/18/01	<100	**93 J**	<100	<100	<100	<100	**75000 J**	<500 R	<100	<500	<100	**760**	<1,000 R	<2,000 R
TMW-3	7/19/01	<50	<25	<50	<50	<50	<50	<250	<250	<50	<250	<50	<250	<500	<1,000
TMW-4	7/17/01	<5	**7.1**	<5	<5	<5	<5	<25 R	<25 R	<5	<25	<5	<25	<50 R	<100 R
TMW-5	7/17/01	<10	**11**	<10	<10	<10	<10	<50 R	<50 R	<10	<50	<10	<50	<100 R	<200 R
TMW-6	7/17/01	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20
TMW-7	7/18/01	<5	**5.2**	<5	<5	<5	<5	<25	<25	<5	<25	<5	<25	<50	<100
TMW-8	7/18/01	<10	**9**	<10	<10	<10	<10	<50	<50	<10	<50	<10	<50	<100	<200
TMW-10	7/18/01	<1	<0.5	<1	<1	<1	<1	<5 R	<5 R	<1	<5	<1	<5	<10 R	<20 R
TMW-11	7/17/01	<2	<1	<2	<2	<2	<2	<10 R	<10 R	<2	<10	<2	<10	<20 R	<40 R
TMW-12	7/17/01	<5	<2.5	<5	<5	<5	<5	<25 R	<25 R	<5	<25	<5	<25	<50 R	<100 R
TMW-13	7/17/01	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20
TMW-14	7/18/01	<1	<0.5	<1	<1	<1	<1	<5 R	<5 R	<1	<5	<1	<5	<10 R	<20 R
TMW-15	7/19/01	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20
BL-1	7/17/01	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20
BL-1 (Duplicate)	7/17/01	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20

Quality Control Data

Trip Blanks															
TRIP BLANKS	7/17/01	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20
TRIP BLANK	7/19/01	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20
Rinsate Blanks															
TMW_4_07172001_0002	7/17/01	<1	<0.5	<1	<1	<1	<1	**6**	<5	<1	<5	<1	<5	**5.9**	<20
TMW_14_07182001_0002	7/18/01	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20
WCC_6S_07192001_0002	7/19/01	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20
Field Blanks															
TMW_10_07182001_0004	7/18/01	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20
TMW_13_07172001_0004	7/17/01	<1	<0.5	<1	<1	<1	<1	<5 R	<5 R	<1	<5	<1	<5	**6.5 J**	<20 R
TMW_15_07192001_0004	7/19/01	<1	<0.5	<1	<1	<1	<1	**5.6**	<5	<1	<5	<1	<5	<10	<20

Data Qualifiers
J = Estimated value
R = Data is not usable
UJ = DL is estimated

BOE-C6-0048750

Table 4
Volatile Organic Compounds by EPA 8260B - July 2001
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	Acrylo nitrile	Benzene	Bromo benzene	Bromo chloro methane	Bromo dichloro methane	Bromo form	Bromo methane	Carbon disulfide	Carbon tetra chloride	Chloro benzene	Chloro ethane	Chloro form	Chloro methane	cis-1,2-Dichloro ethene	Dibromo chloro methane
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
WCC-3S	7/19/01	<4,000	**390**	<200	<200	<200	<200	<400	<200	<100	<200	<400	**140 J**	<400	**7,900**	<200
WCC-3S (Duplicate)	7/19/01	<4,000	**410**	<200	<200	<200	<200	<400	<200	<100	<200	<400	**100**	<400	**7,800**	<200
WCC-6S	7/19/01	<100	**27**	<5	<5	<5	<5	<10	<5	<2.5	<5	<10	**14**	<10	**990**	<5
TMW-1	7/18/01	<20	<1	<1	<1	**0.78 J**	<1	<2	<1	<0.5	<1	<2	**3.2**	<2	**0.32 J**	<1
TMW-2	7/18/01	<2,000 R	**56 J**	<100	<100	<100	<100	<200	<100	<50	<100	<200	**170 J**	<200	**4,300**	<100
TMW-3	7/19/01	<1,000	<50	<50	<50	<50	<50	<100	<50	<25	<50	<100	<50	<100	**42 J**	<50
TMW-4	7/17/01	<100 R	<5	<5	<5	<5	<5	<10	<5	<2.5	<5	<10	**12**	<10	**22**	<5
TMW-5	7/17/01	<200 R	<10	<10	<10	<10	<10	<20	<10	<5	<10	<20	**19**	<20	**7 J**	<10
TMW-6	7/17/01	<20	<1	<1	<1	**0.49 J**	<1	<2	<1	<0.5	<1	<2	**250**	<2	<1	<1
TMW-7	7/18/01	<100	<5	<5	<5	<5	<5	<10	<5	<2.5	<5	<10	**4.3 J**	<10	**21**	<5
TMW-8	7/18/01	<200	**13**	<10	<10	<10	<10	<20	<10	<5	<10	<20	**6.4 J**	<20	**78**	<10
TMW-10	7/18/01	<20 R	<1	<1	<1	<1	<1	<2	<1	<0.5	<1	<2	**2.3**	<2	<1	<1
TMW-11	7/17/01	<40 R	<2	<2	<2	<2	<2	<4	<2	**2**	<2	<4	**430**	<4	<2	<2
TMW-12	7/17/01	R	<5	<5	<5	<5	<5	<10	<5	**2.9**	<5	<10	**1,400**	<10	<5	<5
TMW-13	7/17/01	<20	<1	<1	<1	<1	<1	<2	<1	**1.2**	<1	<2	**11**	<2	<1	<1
TMW-14	7/18/01	<20 R	<1	<1	<1	<1	<1	<2	<1	**1.5**	<1	<2	**3.5**	<2	<1	<1
TMW-15	7/19/01	<20	<1	<1	<1	<1	<1	<2	<1	<0.5	<1	<2	**5.1**	<2	<1	<1
BL-1	7/17/01	<20	**0.77 J**	<1	<1	<1	<1	<2	<1	<0.5	<1	<2	<1	<2	**11**	<1
BL-1 (Duplicate)	7/17/01	<20	**0.81**	<1	<1	<1	<1	<2	<1	<0.5	<1	<2	<1	<2	**12**	<1

Quality Control Data

Trip Blanks																
TRIP BLANKS	7/17/01	<20	<1	<1	<1	<1	<1	<2	<1	<0.5	<1	<2	<1	<2	<1	<1
TRIP BLANK	7/19/01	<20	<1	<1	<1	<1	<1	<2	<1	<0.5	<1	<2	<1	<2	<1	<1
Rinsate Blanks																
TMW_4_07172001_0002	7/17/01	<20	<1	<1	<1	<1	<1	<2	<1	<0.5	<1	<2	<1	<2	<1	<1
TMW_14_07182001_0002	7/18/01	<20	<1	<1	<1	<1	<1	<2	<1	<0.5	<1	<2	<1	<2	<1	<1
WCC_6S_07192001_0002	7/19/01	<20	<1	<1	<1	<1	<1	<2	<1	<0.5	<1	<2	<1	<2	<1	<1
Field Blanks																
TMW_10_07182001_0004	7/18/01	<20	<1	<1	<1	<1	<1	<2	<1	<0.5	<1	<2	<1	<2	<1	<1
TMW_13_07172001_0004	7/17/01	<20 R	<1	<1	<1	<1	<1	<2	<1	<0.5	<1	<2	<1	<2	<1	<1
TMW_15_07192001_0004	7/19/01	<20	<1	<1	<1	<1	<1	<2	<1	<0.5	<1	<2	<1	<2	<1	<1

Data Qualifiers
J = Estimated value
R = Data is not usable
UJ = DL is estimated

BOE-C6-0048751

Table 4
Volatile Organic Compounds by EPA 8260B - July 2001
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	Dichloro difluoro methane	Ethyl benzene	Hexa chloro butadiene	Iodo methane	Isopropyl ether	Isopropyl benzene	Methyl tert-butyl ether	Methylene chloride	n-Butyl benzene	n-Propyl benzene	p-Isopropyl toluene	sec-Butyl benzene	Styrene	t-Butanol	Tert-amyl methyl ether
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
WCC-3S	7/19/01	<200	<200	<200	<400	**100**	<200	<200	<200	<200	<200	<200	<200	<200	<5,000	<400
WCC-3S (Duplicate)	7/19/01	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200	<200	<200	<200	<5,000	<400
WCC-6S	7/19/01	<5	**7.6**	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<120	<10
TMW-1	7/18/01	<1	<1	<1	<2	<2	<1	<1	**0.66 J**	<1	<1	<1	<1	<1	<25	<2
TMW-2	7/18/01	<100 UJ	<100	<100	<200	<200	<100	<100	**34 J**	<100	<100	<100	<100	<100	<2,500 R	<200
TMW-3	7/19/01	<50	<50	<50	<100	<100	<50	<50	<50	<50	<50	<50	<50	<50	<1,200	<100
TMW-4	7/17/01	<5	<5	<5	<10	<10	<5	<5	**1.6 J**	<5	<5	<5	<5	<5	<120 R	<10
TMW-5	7/17/01	<10	<10	<10	<20	<20	<10	<10	<10	<10	<10	<10	<10	<10	<250 R	<20
TMW-6	7/17/01	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2
TMW-7	7/18/01	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<120	<10
TMW-8	7/18/01	<10	<10	<10	<20	<20	<10	<10	<10	<10	<10	<10	<10	<10	<250	<20
TMW-10	7/18/01	**1.4**	<1	<1	<2	<2	<1	<1	**0.96 J**	<1	<1	<1	<1	<1	<25 R	<2
TMW-11	7/17/01	<2	<2	<2	<4	<4	<2	<2	**0.75 J**	<2	<2	<2	<2	<2	<50 R	<4
TMW-12	7/17/01	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<120 R	<10
TMW-13	7/17/01	<1	<1	<1	<2	<2	<1	<1	**0.93 J**	<1	<1	<1	<1	<1	<25	<2
TMW-14	7/18/01	<1	<1	<1	<2	<2	<1	<1	**1.2**	<1	<1	<1	<1	<1	<25 R	<2
TMW-15	7/19/01	<1	<1	<1	<2	<2	<1	<1	**0.74 J**	<1	<1	<1	<1	<1	<25	<2
BL-1	7/17/01	<1	<1	<1	<2	<2	**0.31**	<1	**4.8**	<1	<1	<1	<1	<1	<25	<2
BL-1 (Duplicate)	7/17/01	<1	<1	<1	<2	<2	**0.32**	<1	**6**	<1	<1	<1	<1	<1	<25	<2

Quality Control Data

Trip Blanks																
TRIP BLANKS	7/17/01	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2
TRIP BLANK	7/19/01	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2
Rinsate Blanks																
TMW_4_07172001_0002	7/17/01	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2
TMW_14_07182001_0002	7/18/01	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2
WCC_6S_07192001_0002	7/19/01	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2
Field Blanks																
TMW_10_07182001_0004	7/18/01	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2
TMW_13_07172001_0004	7/17/01	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25 R	<2
TMW_15_07192001_0004	7/19/01	<1	**0.23**	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2

Data Qualifiers
J = Estimated value
R = Data is not usable
UJ = DL is estimated

BOE-C6-0048752

Table 4
Volatile Organic Compounds by EPA 8260B - July 2001
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	Tert-butyl ethyl ether	tert-Butyl benzene	Tetra chloro ethene	Tetra hydro furan	Toluene	trans-1,2-Dichloro ethene	Trichloro ethene	Trichloro fluoro methane	Vinyl acetate	Vinyl chloride	Xylenes (total)
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
WCC-3S	7/19/01	<400	<200	<200	<2,000	**73,000**	**960**	**140 J**	<400	<1,000	<100	**250**
WCC-3S (Duplicate)	7/19/01	<400	<200	<200	<2,000	**75,000**	**940**	**140**	<400	<1,000	<100	**220**
WCC-6S	7/19/01	<10	<5	<5	<50	**360**	**110**	**1,900**	<10	<25	<2.5	**38**
TMW-1	7/18/01	<2	<1	**2**	<10	**14**	**0.49 J**	**360**	**14**	<5	<0.5	<1
TMW-2	7/18/01	<200	<100	<100	<1,000 R	**2800 J**	**590**	**20,000**	<200 UJ	<500	<50	<100
TMW-3	7/19/01	<100	<50	<50	<500	**20 J**	<50	**8,800**	<100	<250	<25	<50
TMW-4	7/17/01	<10	<5	<5	<50 R	**4.9 J**	**15**	**1,800**	<10	<25	<2.5	<5
TMW-5	7/17/01	<20	<10	<10	<100 R	**20**	<10	**4,700**	<20	<50	<5	<10
TMW-6	7/17/01	<2	<1	<1	<10	**15**	<1	**55**	<2	<5	<0.5	<1
TMW-7	7/18/01	<10	<5	<5	<50	**5.6**	**12**	**1,800**	<10	<25	<2.5	<5
TMW-8	7/18/01	<20	<10	<10	<100	**26**	**50**	**2,500**	<20	<50	<5	<10
TMW-10	7/18/01	<2	<1	**0.83 J**	<10 R	<1	<1	**3.6**	**1.1 J**	<5	<0.5	<1
TMW-11	7/17/01	<4	<2	**2.5**	<20 R	**4.9**	<2	**11**	<4	<10	<1	<2
TMW-12	7/17/01	<10	<5	**12**	<50 R	**7**	<5	**170**	<10	<25	<2.5	<5
TMW-13	7/17/01	<2	<1	**2**	<10	<1	<1	**72**	<2	<5	<0.5	<1
TMW-14	7/18/01	<2	<1	**0.82 J**	<10 R	**15**	<1	**9.4**	<2	<5	<0.5	<1
TMW-15	7/19/01	<2	<1	<1	<10	**17**	<1	**25**	<2	<5	<0.5	<1
BL-1	7/17/01	<2	<1	<1	<10	**6.4**	<1	**0.99 J**	<2	<5	**2.8**	<1
BL-1 (Duplicate)	7/17/01	<2	<1	<1	<10	**6.9**	<1	**1**	<2	<5	**3**	<1

Quality Control Data

Trip Blanks												
TRIP BLANKS	7/17/01	<2	<1	<1	<10	<1	<1	<1	<2	<5	<0.5	<1
TRIP BLANK	7/19/01	<2	<1	<1	<10	<1	<1	<1	<2	<5	<0.5	<1
Rinsate Blanks												
TMW_4_07172001_0002	7/17/01	<2	<1	<1	<10	**1.4**	<1	<1	<2	<5	<0.5	**0.87**
TMW_14_07182001_0002	7/18/01	<2	<1	<1	<10	**1.4**	<1	<1	<2	<5	<0.5	<1
WCC_6S_07192001_0002	7/19/01	<2	<1	<1	<10	**2.8**	<1	**0.37**	<2	<5	<0.5	<1
Field Blanks												
TMW_10_07182001_0004	7/18/01	<2	<1	<1	<10	**1.4**	<1	<1	<2	<5	<0.5	**0.96**
TMW_13_07172001_0004	7/17/01	<2	<1	<1	<10 R	**1.4**	<1	<1	<2	<5	<0.5	**0.82**
TMW_15_07192001_0004	7/19/01	<2	<1	<1	<10	**1.6**	<1	<1	<2	<5	<0.5	**1.4**

Data Qualifiers
J = Estimated value
R = Data is not usable
UJ = DL is estimated

BOE-C6-0048753

Table 5
Summary of Historical Volatile Organic Compounds
Boeing Realty Corporation Former C-6 Facility

Well		Date Sampled	1,1,-DCA	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	Isopropyl benzene	Acetone	Benzene	Carbon disulfide	Carbon tetra chloride	Chloro form	cis-1,2-DCE	trans-1,2-DCE	MEK	Methylene chloride	MIBK	PCE	TCE	Toluene	Ethyl Benzene	Xylenes (total)	Trichloro fluoro methane
WCC-1S		3/27/87		300		2,800				85										4,600				
WCC-1S		4/13/87		260		3,700				110										5,500				
WCC-1S		11/12/87	23	160		3,000				160			39		75					5,200				
WCC-1S	Dup	4/13/88		120		2,500														3,600				
WCC-1S		7/13/89	<20	67		900				<20			<20	<20	<20			<100		2,400	<20			
WCC-1S		8/23/89	30	<30		1,500				<30			<30	41	<30			<100		2,800	<30			
WCC-1S		11/18/91				1,300														3,700				
WCC-1S		6/17/92	<50	<50		1,700			<300	<50			<50	<5	<50	<100		<100		3,800	<50			
WCC-1S		9/23/92	13	16	<1	1,500	<1	<1	<5	37	22	<1	13	<1	14	<5	4	<5	<1	3,400	1	<1	<1	<1
WCC-1S		12/9/92	<30	<30	<30	1,500	<30	<30	<100	30	<30	<30	<30	<30	<30	<100	40	<100	<30	3,100	<30	<30	<30	<30
WCC-1S		3/18/93	13	15	<2	1,000	<2	<2	<10	33	<5	<5	14	27	15	<10	<10	<5	<2	2,100	<2	<2	<2	<5
WCC-1S		6/8/93	<20	<20	<20	1,200	<20	<20	<400	35	<20	<20	<20	27	<20	<400	<100	<200	<20	2,400	<20	<20	<20	<20
WCC-1S		8/25/93	<20	<20	<40	1,700	<20	<20	<400	42	<20	<20	<20	27	<20	<400	<40	<200	<20	3,300	<20	<20	<20	<20
WCC-1S		11/19/93	<20	<20	<40	1,600	<20	<20	<400	38	<20	<20	<20	25	<20	<400	<100	<200	<20	2,600	<20	<20	<20	<20
WCC-1S		2/24/94	<20	<20	<40	1,800	<20	<20	<400	39	<20	<20	<20	33	21	<400	<100	<200	<20	2,700	<20	<20	<20	<20
WCC-1S		6/13/94	11	11	<20	1,000	<10	<10	<200	<10	<10	<10	<10	20	16	<200	<50	<100	<10	1,700	<10	<10	<30	<10
WCC-1S		9/9/94	<40	<40	<80	1,400	<40	<40	<800	<40	<40	<40	<40	<40	<40	<800	<200	<400	<40	2,300	<40	<40	<120	<40
WCC-1S		12/22/94	23	24	<40	3,000	<20	<20	<400	57	<20	<20	<20	38	36	<400	<100	<200	<20	3,100	<20	<20	<40	<20
WCC-1S		3/14/95	<20	<20	<40	2,000	<20	<20	<400	34	<20	<20	<20	22	22	<400	<100	<200	<20	2,300	<20	<20	<40	<20
WCC-1S		6/13/95	20	<20	<40	2,700	<20	<20	<400	45	<20	<20	<20	29	31	<400	<100	<200	<20	3,200	<20	<20	<20	<20
WCC-1S		9/7/95	22	22	<5	1,800	<5	<5	<10	51	<5	<5	16	37	37	<10	<5	<10	<5	2,600	<5	<5	<5	<5
WCC-1S		12/15/95	26	22	<2	2,900	<2	<2	<2	42	<2	<2	17	34	40		<2		<2	2,600	<2	<2	<4	<2
WCC-1S		3/4/96	27	24	<20	3,000	<20	<20	<40	<20	<20	<20	<20	35	45	<40	<20	<40	<20	2,700	<20	<20	<40	<20
WCC-1S		6/7/96	27	20	<5	2,500	<5	<5	<10	7	<5	<5	12	28	39	<10	<5		<5	2,200	<5	<5	<5	<5
WCC-1S		9/19/96	<50	<50	<50	3,200	<50	<50	<500	<50	<250	<50	<50	<50	63	<500	<50	<500	<50	2,400	<50	<50	<50	<50
WCC-1S	Dup	12/15/96	26	22	<2	2,800	<2	<2	<2	42	<2	<2	16	33	40		<2		<2	2,560	<2	<2	<4	<2
WCC-1S		12/18/96	<50	<50	<50	2,600	<50	<50	<500	<50	<250	<50	<50	<50	<50	<500	<50	<500	<50	2,200	<50	<50	<50	<50
WCC-1S	Dup	12/18/96			<50		<50	<50	<500		<250	<50					<50		<50			<50	<50	<50
WCC-1S		5/8/97	<50	<50	<50	3,200	<50	<50	<500	<50	<250	<50	<50	<50	69	<500	<50	<500	<50	2,700	<50	<50	<50	<50
WCC-1S		7/8/97	<50	<50	<50	3,900	<50	<50	<500	<50	<250	<50	<50	<50	<50	<500	<50	<500	<50	2,800	<50	<50	<50	<50
WCC-1S		7/24/97	<50	<50	<50	2,600	<50	<50	<500	<50	<250	<50	<50	<50	<50	<500	<50	<500	<50	2,400	<50	<50	<50	<50
WCC-1S		8/6/97	<50	<50	<50	3,800	<50	<50	<500	<50	<250	<50	<50	<50	60	<500	<50	<500	<50	2,700	<50	<50	<50	<50
WCC-1S		8/22/97	<50	<50	<50	3,800	<50	<50	<500	<50	<250	<50	<50	<50	66	<500	<50	<500	<50	2,700	<50	<50	<50	<50
WCC-1S		9/5/97	<50	<50	<50	3,500	<50	<50	<500	<50	<250	<50	<50	<50	61	<500	<50	<500	<50	2,500	<50	<50	<50	<50
WCC-1S		9/17/97	<50	<50	<50	3,400	<50	<50	<500	<50	<250	<50	<50	<50	63	<500	<50	<500	<50	2,700	<50	<50	<50	<50
WCC-1S	Dup	12/18/97	<50	<50		2,600				<50			<50	<50	<50	<500		<500		2,300	<50			
WCC-1D		7/25/89	<1	<1		<1				<1			<1	1	<1			<5		2	1			
WCC-1D		8/23/89	<1	1		<1				<1			<1	<1	<1			<5		2	<1			
WCC-1D		11/15/91		8		90														40	20			
WCC-1D		6/15/92	<25	63		1,500			<50	<25			<25	<25	<25	<50		<50		230	<25			
WCC-1D	Dup	6/15/92	<25	64		1,300			<50	<25			<25	<25	<25	<50		<65		210	<25			
WCC-1D		9/22/92	<1	8	<1	180	<1	<1	<5	<1	<1	<1	<1	2	<1	<5	11	<5	<1	44	<1	<1	<1	4
WCC-1D		12/7/92	<1	8	<1	160	<1	<1	<5	<1	<1	<1	1	2	<1	<5	2	<5	<1	41	<1	<1	<1	<1
WCC-1D	Dup	12/7/92	<1	160	<1	150	<1	<1	<5	<1	<1	<1	1	<1	<1	<5	2	<5	<1	6	3	<1	<1	<1
WCC-1D		3/16/93	<2	19	<2	200	<2	<2	<10	<2	<5	<5	<2	3	<2	<10	<10	<5	<2	23	<2	<2	<2	<5
WCC-1D		6/8/93	<10	<14	<20	500	<10	<10	<200	<10	<10	<10	<10	<10	<10	<200	<20	<100	<10	71	<10	<10	<10	<10
WCC-1D	Dup	6/8/93	<4	17	<8	480	<4	<4	<80	<4	<4	<4	<4	<4	<4	<80	<10	<40	<4	72	<4	<4	<4	<4
WCC-1D		8/24/93	<2	16	<4	540	<2	<2	<40	<2	<2	<2	<2	3	2	<40	<4	<20	<2	67	2	<2	<2	<2
WCC-1D		11/18/93	<2	16	<4	880	<2	<2	<40	<2	<2	<2	<2	3	3	<40	<10	<20	<2	110	<2	<2	<2	<2
WCC-1D		2/23/94	<2	3	<4	140	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	14	<2	<2	<2	<2
WCC-1D		6/10/94	<2	3.7	<4	230	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<20	<20	<2	24	<2	<2	<6	<2
WCC-1D		9/8/94	<2	3.6	<4	210	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	37	<2	<2	<6	<2
WCC-1D		12/22/94	<2	10	<4	600	<2	<2	<40	<2	<2	<2	<2	2.3	2.2	<40	<10	<20	<2	71	2.2	<2	<4	<2
WCC-1D		3/13/95	<4	<4	<8	240	<4	<4	<80	<4	<4	<4	<4	<4	<4	<80	<20	<40	<4	38	<4	<4	<8	<4
WCC-1D		6/13/95	<2	<2	<4	170	<2	<2	<40	<2	3	<2	<2	2	<2	<40	<10	<20	<2	21	<2	<2	<2	<2
WCC-1D		9/3/95	<5	<5	<5	150	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	29	<5	<5	<5	<5
WCC-1D		12/16/95	<2	<2	<2	12	<2	<2	<2	<2	<2	<2	<2	3	<2		<2		<2	23	<2	<2	<4	<2
WCC-1D		2/29/96	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<5	<5	<10	<5
WCC-1D	Dup	2/29/96	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<5	<5	<10	<5
WCC-1D		6/6/96	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5		<5	<5	<5	<5	<5	<5
WCC-1D		9/18/96	<1	<1	<1	<1	<1	<1	<10	<1	<5	<1	<1	1.3	<1	<10	<1	<10	<1	3.5	<1	<1	<1	<1
WCC-1D	Dup	9/18/96	<1	<0.5	<1	<1	<1	<1	<10	<0.5	<5	<1	<1	1.4	<1	<10	<1	<10	<1	3.6	<1	<1	<1	<1
WCC-1D		12/18/96	<1	<1	<1	<1	<1	1.2	<10	<1	<5	<1	<1	1.4	<1	<10	<1	<10	<1	3.5	<1	<1	<1	<1
WCC-1D		5/7/97	<1	<1	<1	<1	<1	<1	<10	<1	<5	<1	<1	1.2	<1	<10	<1	<10	<1	3.1	<1	<1	<1	<1

Units = ug/L

BOE-C6-0048754

Table 5
Summary of Historical Volatile Organic Compounds
Boeing Realty Corporation Former C-6 Facility

Well		Date Sampled	1,1,-DCA	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	Isopropyl benzene	Acetone	Benzene	Carbon disulfide	Carbon tetra chloride	Chloro form	cis-1,2-DCE	trans-1,2-DCE	MEK	Methylene chloride	MIBK	PCE	TCE	Toluene	Ethyl Benzene	Xylenes (total)	Trichloro fluoro methane
WCC-1D		7/8/97	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<5	<1.0	<1.0	1.1	<1.0	<10	<1.0	<10	<1.0	3.3	<1.0	<1.0	<1.0	<1.0
WCC-1D		7/23/97	<1.0	<1.0	<1.0	2	<1.0	<1.0	<10	<1.0	<5	<1.0	<1.0	1.2	<1.0	<10	<1.0	<10	<1.0	14	7.5	<1.0	<1.0	<1.0
WCC-1D		8/5/97	<1.0	<1.0	<1.0	3	<1.0	<1.0	<10	<1.0	<5	<1.0	<1.0	1.3	<1.0	<10	<1.0	<10	<1.0	20	14	<1.0	<1.0	<1.0
WCC-1D		8/20/97	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<10	<1.0	2.6	<1.0	<1.0	<1.0	<1.0
WCC-1D		9/4/97	<1.0	1.2	<1.0	6	<1.0	<1.0	<10	<1.0	<5	<1.0	<1.0	1.6	<1.0	<10	<1.0	<10	<1.0	25	27	<1.0	<1.0	<1.0
WCC-1D		9/17/97	<1.0	1.2	<1.0	6	<1.0	<1.0	<10	<1.0	<5	<1.0	<1.0	1.5	<1.0	<10	<1.0	<10	<1.0	28	26	<1.0	<1.0	<1.0
WCC-2S		11/2/87		5		5															6			
WCC-2S		11/12/87		1		2														4	1			
WCC-2S		7/13/89	<1	<1		<1				<1			<1	<1	<1			<5		5	<1			
WCC-2S		8/23/89	<1	<1		<1				<1			<1	<1	<1			<5		3	<1			
WCC-2S		11/19/91		8		30														110	75			
WCC-2S		6/16/92	<5	<5		30			<10	<5			<5	<5	<5	<10		<10		100	<5			
WCC-2S		9/22/92	<1	<1	<1	18	<1	<1	<5	<1	<1	<1	<1	<1	<1	<5	11	<5	<1	110	1	<1	<1	<1
WCC-2S	Dup	9/22/92	<1	<1	<1	19	<1	<1	<5	<1	<1	<1	<1	<1	<1	<5	9	<5	<1	97	1	<1	<1	<1
WCC-2S		12/8/92	<1	2	<1	49	<1	<1	6	<1	<1	<1	<1	<1	<1	<5	5	<5	<1	140	<1	<1	<1	<1
WCC-2S	Dup	12/8/92	<2	2	<1	27	<1	<1	<5	<1	<1	<1	2	<1	<1	<5	2	<5	<1	99	<1	<1	<1	<1
WCC-2S		3/17/93	<2	<2	<2	32	<2	<2	<10	<2	<5	<5	<2	<2	<2	<10	<10	<5	<2	110	<2	<2	<2	<5
WCC-2S	Dup	3/17/93	<2	<2	<2	33	<2	<2	<10	<2	<5	<5	<2	<2	<2	<10	<10	<5	<2	100	<2	<2	<2	<5
WCC-2S		6/7/93	<2	<2	<4	48	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<4	<20	<2	150	<2	<2	<2	<2
WCC-2S		8/24/93	<2	<2	<4	16	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<4	<20	<2	90	<2	<2	<2	<2
WCC-2S		11/19/93	<2	<2	<4	41	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	94	<2	<2	<2	<2
WCC-2S		2/24/94	<2	<2	<4	30	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	96	<2	<2	<2	<2
WCC-2S		6/10/94	<2	<2	<4	24	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<20	<20	<2	97	<2	<2	<6	<2
WCC-2S		9/8/94	<2	<2	<4	37	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	150	<2	<2	<6	<2
WCC-2S		12/22/94	<2	<2	<4	28	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	110	<2	<2	<4	<2
WCC-2S		3/13/95	<2	<2	<4	27	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	160	<2	<2	<4	<2
WCC-2S		6/12/95	<2	<2	<4	30	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	130	<2	<2	<2	<2
WCC-2S		9/6/95	<5	<5	<5	56	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	200	<5	<5	<5	<5
WCC-2S		12/15/95	<2	<2	<2	15	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2		<2	60	<2	<2	<4	<2
WCC-2S		3/1/96	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	21	<5	<5	<10	<5
WCC-2S		6/6/96	<5	<5	<5	7	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5		<5	33	<5	<5	<5	<5
WCC-2S		9/19/96	<1	<1	<1	23	<1	1.1	<10	<1	<5	<1	<1	<1	<1	<10	<1	<10	<1	98	<1	<1	<1	<1
WCC-2S		12/18/96	<2	<2	<2	30	<2	<2	<20	<2	<10	<2	<2	2.2	<2	<20	<2	<20	<2	120	<2	<2	<2	<2
WCC-2S		5/7/97	<1	<1	<1	12	<1	<1	<10	<1	<5	<1	<1	18	<1	<10	<1	<10	<1	25	<1	<1	<1	<1
WCC-2S	Dup	5/7/97	<1	<1	<1	11	<1	<1	<10	<1	<5	<1	<1	17	<1	<10	<1	<10	<1	24	<1	<1	<1	<1
WCC-3S		11/2/87		110000		38,000												54,000		10,000	80,000			
WCC-3S		11/12/87	1000	54000		88,000									1000			70,000		11,000	140,000			
WCC-3S		7/13/89	<500	56000		18,000				<500			<500	<500	660			<3000		7,700	32,000			
WCC-3S		8/23/89	<1,000	78000		56,000				<1,000			<1,000	<1,000	<1,000			<5000		6,000	56,000			
WCC-3S		11/14/91	400	6900		12,000							250	550	550	12000		70,000		7,900	27,000			
WCC-3S		6/17/92	<5,000	13000		25,000			<30,000	<5000			<5,000	<5,000	<5,000	<10,000		100,000		13,000	51,000			
WCC-3S		9/23/92	<500	7800	<500	22,000	<500	<500	<3,000	<500	<500	<500	<500	<500	<500	<3,000	900	82,000	<500	12,000	52,000	<500	<500	<500
WCC-3S		12/9/92	<500	5600	<500	21,000	<500	<500	<3,000	<500	<500	<500	<500	700	600	4000	<500	90,000	<500	11,000	44,000	<500	<500	<500
WCC-3S		3/18/93	650	21000	55	20,000	100	<10	<50	240	<25	<25	120	650	6400	<50	<50	44,000	<10	8,800	42,000	<10	120	<25
WCC-3S	Dup	3/18/93	510	22000	60	20,000	95	<10	<50	260	<25	<25	110	640	670	<50	<50	45,000	<10	8,800	42,000	<10	110	<25
WCC-3S		6/8/93	420	5900	<200	16,000	<100	<100	<2,000	210	<100	<100	<100	520	480	<2,000	<200	79,000	<100	8,600	37,000	<100	<100	<100
WCC-3S		8/25/93	500	10000	<800	21,000	<400	<400	<8,000	<400	<400	<400	<410	670	680	<8000	<800	50,000	<400	11,000	46,000	<400	<400	<400
WCC-3S	Dup	8/25/93	560	9500	52	20,000	86	<10	<200	250	<10	<10	<10	700	710	660	<50	49,000	<10	9,700	40,000	21	154	<10
WCC-3S		11/19/93	690	19000	<200	26,000	<200	<200	<4,000	280	<200	<200	<200	1,100	840	<4,000	<1,000	47,000	<200	10,000	50,000	<200	<200	<200
WCC-3S		2/24/94	310	9600	<400	15,000	<200	<200	<4,000	<200	<200	<200	<200	2,500	360	<4,000	<1,000	15,000	<200	2,500	25,000	<200	<200	<200
WCC-3S		6/13/94	310	6200	<400	13,000	<200	<200	<4000	<200	<200	<200	<200	4,100	360	<4000	<1000	9,900	<200	820	23,000	<200	<600	<200
WCC-3S		9/9/94	520	9000	<1000	23,000	<500	<500	<10000	<500	<500	<500	<500	7,700	600	<10000	<2500	6,000	<500	<500	43,000	<500	<1500	<500
WCC-3S	Dup	9/9/94	560	98000		25,000				<500			<500	8,400	640	<10000		5,000		<500	47,000			
WCC-3S		12/22/94	440	6700	<400	20,000	<200	<200	<4,000	200	<200	<200	<200	6,700	530	<4,000	<1,000	3,400	<200	390	35,000	<200	<400	<200
WCC-3S		3/14/95	570	8700	<400	24,000	<200	<200	<4,000	230	<200	<200	<200	6,200	670	<4,000	<1,000	4,600	<200	2,300	40,000	<200	<400	<200
WCC-3S		6/13/95	450	4800	<800	22,000	<400	<400	<8,000	<400	<400	<400	<400	6,300	500	<8000	<2,000	6,600	<400	1,200	39,000	<400	<400	<400
WCC-3S		9/7/95	480	4100	64	13,000	99	<5	39	220	<5	<5	76	6,000	520	<200	23	4,600	<5	910	31,000	18	137	<5
WCC-3S		12/16/95	350	3100	22	12,000	41	<2	<2	130	<2	<2	45	4,400	400		<2		<2	670	23,000	8	42	<2
WCC-3S		3/4/96	230	1,900	<50	8,400	<50	<50	<100	100	<50	<50	<50	3,200	280	<100	<50	200	<50	480	15,000	<50	<100	<50
WCC-3S		9/19/96	600	3500	<500	20,000	<500	<500	<5,000	<500	<2,500	<500	<500	6,300	860	<5,000	<500	<5,000	<500	<500	29,000	<500	<500	<500
WCC-3S		12/19/96	380	2300	<250	16,000	<250	<250	<2,500	<250	<1,200	<250	<250	4,100	460	<2,500	<250	<2,500	<250	<250	20,000	<250	<250	<250
WCC-3S		5/8/97	140	470	<120	6,300	<120	<120	<1,200	<120	<620	<120	<120	2,000	180	<1200	<120	<1200	<120	230	8,800	<120	<120	<120
WCC-3S	Dup	5/8/97	<250	520		6,200				<250			<50	2,000	<250	<2500		<2500		<250	9,100			

Units = ug/L

BOE-C6-0048755

Table 5
Summary of Historical Volatile Organic Compounds
Boeing Realty Corporation Former C-6 Facility

Well		Date Sampled	1,1,-DCA	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	Isopropyl benzene	Acetone	Benzene	Carbon disulfide	Carbon tetra chloride	Chloro form	cis-1,2-DCE	trans-1,2-DCE	MEK	Methylene chloride	MIBK	PCE	TCE	Toluene	Ethyl Benzene	Xylenes (total)	Trichloro fluoro methane
WCC-3S		7/8/97	<250	1100	<250	9,200	<250	<250	<2,500	<250	<1,200	<250	<250	2,900	260	<2500	<250	<2500	<250	400	14,000	<250	<250	<250
WCC-3S		7/24/97	350	1900	<250	14,000	<250	<250	<2,500	<250	<1,200	<250	<250	4,000	380	<2500	<250	<2500	<250	420	22,000	<250	<250	<250
WCC-3S		8/6/97	310	1500	<250	12,000	<250	<250	<2,500	<250	<1,200	<250	<250	3,900	350	<2500	<250	<2500	<250	250	18,000	<250	<250	<250
WCC-3S		8/22/97	410	2200	<250	16,000	<250	<250	<2,500	<250	<1,200	<250	<250	4,600	540	<2500	<250	<2500	<250	290	23,000	<250	<250	<250
WCC-3S		9/5/97	350	1600	<250	13,000	<250	<250	<2,500	<250	<1,200	<250	<250	3,700	390	<2500	<250	<2500	<250	<250	18,000	<250	<250	<250
WCC-3S		9/18/97	300	1500	<250	12,000	<250	<250	<2,500	<250	<1,200	<250	<250	3,500	350	<2500	<250	<2500	<250	<250	18,000	<250	<250	<250
WCC-3S	Dup	9/18/97	300	1600	<250	13,000	<250	<250	<2,500	<250	<1,200	<250	<250	3,600	360	<2500	<250	<2500	<250	260	18,000	<250	<250	<250
WCC-3S		9/23/98	870	4,000	<250	33,000	870	<250		390	<250	<250	<250	9,400	980		<1250		<250	<250	59,000	<250	<500	<250
WCC-3S		10/22/98	1100	4700	<250	41,000	1100	<250		470	<250	<250	<250	11,000	1300		<1250		<250	490	68,000	<250	<500	<250
WCC-3S		3/6/99	500	1,900	<250	20,000	500	<250		<250	<250	<250	<250	4,800	510		<1250		<250	640	42,000	<250	<500	<250
WCC-3S		7/16/99	780	2700	<250	32,000	780	<250		380	<250	<250	<250	8,600	1000		<1250		<250	810	54,000	<250	<500	<250
WCC-3S		6/26/00	630	2400	<125	25,000	<125			380	<125	<125	<125	7,600	840		<625		<125	770	48,000	<125	<250	<125
WCC-3S		2/3/01	550	1100	<500	17,000	100 J	<500	<5000	270 J	<500	<250	<500	4,600	590	<2500	<500	3100	<500	550	44,000	<500	<500	<1000
WCC-3S		7/19/01	840	2,200	<200	32,000	<100	<200	<2,000	390	<200	<100	140	7,900	960	<1,000	<200	6,100	<200	140	73,000	<200	250	<400
WCC-3S	Dup	7/19/01	820	2,200	<200	34,000	<100	<200	<2,000	410	<200	<100	100	7,800	940	<1,000	<200	6,400	<200	140	75,000	<200	220	<400
WCC-3D		11/14/91		60		20																		
WCC-3D		6/16/92	<5	880		510			<30	<5			<5	<5	<5	<10		<10		23	8			
WCC-3D		9/22/92	<1	27	<1	21	<1	<1	<5	<1	<1	<1	<1	<1	<1	<5	8	<5	<1	2	<1	<1	<1	1
WCC-3D		12/7/92	<1	130	<1	120	<1	<1	<5	<1	<1	<1	1	<1	<1	<5	1	<5	<1	5	3	<1	<1	<1
WCC-3D		3/16/93	6	2000	<2	950	<2	<2	<10	<2	<5	<5	<2	2	9	<10	<10/	<5	<2	50	6	<2	<2	<5
WCC-3D	Dup	3/16/93	6	2000	<2	1,000	<2	<2	<10	<2	<5	<5	<2	2	9	<10	<10/	<5	<2	47	6	<2	<2	<5
WCC-3D		6/8/93	<2	110	<4	110	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<4	<20	<2	6	<2	<2	<2	<2
WCC-3D		8/24/93	<2	100	<4	120	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<4	<20	<2	5	3	<2	<2	<2
WCC-3D		11/18/93	<2	410	<4	610	<2	<2	<40	<2	<2	<2	<2	<2	4	<40	<10	<20	<2	17	6	<2	<2	<2
WCC-3D	Dup	11/18/93	<4	640	<8	840	<4	<4	<80	<4	<4	<4	<4	4	4	<80	<20	<40	<4	23	8	<4	<4	<4
WCC-3D		2/23/94	0.4	590	<8	420	<4	<4	<80	<4	<4	<4	<4	<4	<4	<80	<20	<40	<4	25	13	<4	<4	<4
WCC-3D	Dup	2/23/94	<4	530		370				<4			<4	<4	<4	<80		<40		23	12			
WCC-3D		6/13/94	<10	1300	<20	720	<10	<10	<200	<10	<10	<10	<10	<10	<10	<200	<50	<100	<10	96	<10	<10	<30	<10
WCC-3D		9/9/94	<50	5600	<100	3,700	<50	<50	<1000	<50	<50	<50	<50	<50	<50	<1,000	<250	<500	<50	490	<50	<50	<150	<50
WCC-3D		12/21/94	10	6300	29	5,200	<4	<4	<80	8.6	<4	<4	<4	15	22	<80	<20	<40	<4	540	5100	<4	<8	<4
WCC-3D		3/14/95	<40	4000	<80	3,300	<40	<40	<800	<40	<40	<40	<40	<40	<40	<800	<200	<400	<40	370	3200	<40	<80	<40
WCC-3D	Dup	3/14/95	<20	3900	<40	3,200	<20	<20	<400	<20	<20	<20	<20	<20	<20	<400	<100	<200	61	380	3400	<20	<40	<20
WCC-3D		6/13/95	<10	2100	<20	1,800	<10	<10	<200	<10	<10	<10	<10	<10	<10	<200	<50	<100	<10	200	1700	<10	<10	<10
WCC-3D		9/7/95	13	4100	35	3,400	6	<5	<10	13	<5	<5	<5	60	30	<10	<5	170	<5	520	4700	<5	8	<5
WCC-3D		12/16/95	<2	90	<2	111	<2	<2	<2	<2	<2	<2	<2	3	<2		<2		<2	32	88	<2	<4	<2
WCC-3D		3/4/96	<5	40	<5	53	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	23	6	<5	<10	<5
WCC-3D		6/7/96	<5	59	<5	84	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5		<5	60	21	<5	<5	<5
WCC-3D		9/19/96	<1	24	<1	52	<1	<1	<10	<1	<5	<1	<1	2.2	<1	<10	<1	<10	<1	61	12	<1	<1	<1
WCC-3D		12/19/96	1.3	67	<1	97	<1	1.1	<10	<1	<5	<1	<1	5.4	<1	<10	<1	<10	<1	42	20	<1	<1	<1
WCC-3D		5/8/97	<1	11	<1	43	<1	<1	<10	<1	<5	<1	<1	1.7	<1	<10	<1	<10	<1	63	2.7	<1	<1	<1
WCC-3D		7/8/97	<1.0	15	<1	70	<1	<1	<10	<1.0	<5	<1	<1.0	2.3	<1.0	<10	<1	<10	<1	87	14	<1	<1	<1
WCC-3D	Dup	7/8/97	<1.0	5.9	<1	30	<1	<1	<10	<1.0	<5	<1	<1.0	1.1	<1.0	<10	<1	<10	<1	45	6	<1	<1	<1
WCC-3D		7/24/97	<1.0	7.9	<1	55	<1	<1	<10	<1.0	<5	<1	<1.0	2.1	<1.0	<10	<1	<10	<1	79	12	<1	<1	<1
WCC-3D		8/6/97	<1.0	8.8	<1	34	<1	<1	<10	<1.0	<5	<1	<1.0	2	<1.0	<10	<1	<10	<1	58	17	<1	<1	<1
WCC-3D	Dup	8/6/97	<1.0	8.6	<1	34	<1	<1	<10	<1.0	<5	<1	<1.0	2.2	<1.0	<10	<1	<10	<1	56	17	<1	<1	<1
WCC-3D		8/22/97	<1.0	21	<1	61	<1	<1	<10	<1.0	<5	<1	<1.0	1.9	<1.0	<10	<1	<10	<1	70	21	<1	<1	<1
WCC-3D	Dup	8/22/97	<1.0	22	<1	60	<1	<1	<10	<1.0	<5	<1	<1.0	1.8	<1.0	<10	<1	<10	<1	72	22	<1	<1	<1
WCC-3D		9/5/97	<1.0	15	<1	53	1.9	<1	<10	<1.0	<5	<1	<1.0	2	<1.0	<10	<1	<10	<1	66	29	<1	<1	<1
WCC-3D	Dup	9/5/97	<1.0	14	<1	48	<1	<1	<10	<1.0	<5	<1	<1.0	1.9	<1.0	<10	<1	<10	<1	63	27	<1	<1	<1
WCC-3D		9/18/97	<1.0	18	<1	35	<1	<1	<10	<1.0	<5	<1	<1.0	1.7	<1.0	<10	<1	<10	<1	47	32	<1	<1	<1
WCC-3D		9/28/98	<5	1,300	<5	1,200	<5	<5		<5	<5.0	<5	<5	18	6.1		<25		<5	62	58	<5	<10	<5
WCC-3D		10/21/98	<0.5	54	<0.5	50	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	2	<0.5		<2.5		<0.5	8	27	<0.5	<1	<0.5
WCC-3D		3/5/99	<0.5	57	<0.5	32	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	1.3	<0.5		<2.5		<0.5	7.9	44	<0.5	<1	<0.5
WCC-3D	Dup	3/5/99	<0.5	49	<0.5	28	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	1.4	<0.5		<2.5		<0.5	7.7	37	<0.5	<1	<0.5
WCC-3D		7/16/99	<0.5	6.4	<0.5	5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	1.8	<0.5		<2.5		<0.5	6.2	1.7	<0.5	<1	<0.5
WCC-3D	Dup	7/16/99	<0.5	5.7	<0.5	4	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	1.9	<0.5		<2.5		<0.5	5.8	1.3	<0.5	<1	<0.5
WCC-3D		6/26/00	<0.5	50	<0.5	54	<0.5			<0.5	<0.5	<0.5	<0.5	2.1	<0.5		<2.5		<0.5	9.9	37	<0.5	<1	<0.5
WCC-3D		2/3/01	<2	58	<2	47	<1	<2	<20	<2	<2	<1	<2	3.1	<2	<10	97	<10	<2	7.4	20	<2	1 J	<4
WCC-4S		11/2/87		14		360							2		2					700				
WCC-4S		11/12/87		35		1,200														690				
WCC-4S		7/13/89	<3	11		170				<3			<3	10	<3					270	<3			
WCC-4S		8/23/89	<5	7		360				<5			<5	15	<5			<20		410	<5			
WCC-4S		11/18/91		20		1,000												<30		2,200				

Units = ug/L

BOE-C6-0048756

Table 5
Summary of Historical Volatile Organic Compounds
Boeing Realty Corporation Former C-6 Facility

Well		Date Sampled	1,1,-DCA	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	Isopropyl benzene	Acetone	Benzene	Carbon disulfide	Carbon tetra chloride	Chloro form	cis-1,2-DCE	trans-1,2-DCE	MEK	Methylene chloride	MIBK	PCE	TCE	Toluene	Ethyl Benzene	Xylenes (total)	Trichloro fluoro methane
WCC-4S		6/17/92	<25	<25		920			<150	<25			<25	<25	<25	<50		<50		1500	<25			
WCC-4S		9/23/92	<10	20	<10	1,400	<10	<10	<50	<10	<10	<10	10	<10	<10	<50	20	<50	<10	1900	<10	<10	<10	<10
WCC-4S		12/8/92	<10	20	<10	1,000	<10	<10	<50	<10	<10	<10	10	10	<10	<50	50	<50	<10	1600	<10	<10	<10	<10
WCC-4S		3/17/93	8	14	<2	810	<2	<2	<10	6	<5	<5	5	8	5	<10	<10	<5	<2	1200	<2	<2	<2	<5
WCC-4S		6/8/93	<10	12	<20	1,300	<10	<10	<200	<10	<10	<10	<10	10	<10	<200	<40	<100	<10	1800	<10	<10	<10	<10
WCC-4S		8/25/93	<10	<10	<20	1,100	<10	<10	<200	<10	<10	<10	<10	<10	<10	<200	<20	<100	<10	1400	<10	<10	<10	<10
WCC-4S		11/19/93	17	8	<8	610	<4	<4	<80	4	<4	<4	<4	6	5	<80	<20	<40	<4	700	9	<4	<4	<4
WCC-4S		2/24/94	5.8	8.8	<8	1,100	<4	<4	<80	6.4	<4	<4	5.1	8.7	7.2	<80	<20	<40	<4	980	<4	<4	<4	<4
WCC-4S		6/14/94	<4	5.1	<8	800	<4	<4	<80	<4	<4	<4	<4	7.1	5.2	<80	<20	<40	<4	940	<4	<4	<12	<4
WCC-4S		9/9/94	<20	<20	<40	1,000	<20	<20	<400	<20	<20	<20	<20	<20	<20	<400	<100	<200	<20	1300	<20	<20	<60	<20
WCC-4S		12/22/94	<10	<10	<20	670	<10	<10	<200	<10	<10	<10	<10	<10	<10	<200	<50	<100	<10	750	<10	<10	<20	<10
WCC-4S		3/14/95	9.8	4.9		400				<4			<4	4.9	<4	<80		<40		450	<4			
WCC-4S		3/14/95			<8		<4	<4	<80		<4	<4					<20		<4			<4	<8	<4
WCC-4S		6/13/95	8.6	<6.6	<13	1,100	<6.6	<6.6	<130	7.1	<6.6	<6.6	<6.6	7.9	<6.6	<130	<33	<66	<6.6	1100	<6.6	<6.6	<6.6	<6.6
WCC-4S		9/7/95	8.1	6.4	<5	910	<5	<5	<10	13	<5	<5	6.5	10	9.2	<10	<5	<10	<5	1200	<5	<5	<5	<5
WCC-4S		12/15/95	4	<2	<2	1,100	<2	<2	<2	2	<2	<2	4	8	7		<2		<2	1200	<2	<2	<4	<2
WCC-4S		3/4/96	<5	<5	<5	710	<5	<5	<10	<5	<5	<5	<5	6	6	<10	<5	<10	<5	770	<5	<5	<10	<5
WCC-4S		6/7/96	<5	<5	<5	740	<5	<5	<10	<5	<5	<5	<5	5	<5	<10	<5		<5	830	<5	<5	<5	<5
WCC-4S		9/19/96	<25	<25	<25	980	<25	<25	<250	<25	<120	<25	<25	<25	<25	<250	<25	<250	<25	960	<25	<25	<25	<25
WCC-4S		12/18/96	<25	<25	<25	780	<25	<25	<250	<25	<120	<25	<25	<25	<25	<250	<25	<250	<25	960	<25	<25	<25	<25
WCC-4S		5/8/97	<12	<12	<12	1,000	<12	<12	<120	<12	<62	<12	<12	<12	14	<120	<12	<120	<12	1100	<12	<12	<12	<12
WCC-4S		7/8/97	<25	<25	<25	1,300	<25	<25	<250	<25	<120	<25	<25	<25	<25	<250	<25	<250	<25	1200	<25	<25	<25	<25
WCC-4S		7/24/97	<25	<25	<25	940	<25	<25	<250	<25	<120	<25	<25	<25	<25	<250	<25	<250	<25	1200	<25	<25	<25	<25
WCC-4S		8/6/97	<25	<25	<25	1,000	<25	<25	<250	<25	<120	<25	<25	<25	<25	<250	<25	<250	<25	1000	560	<25	<25	<25
WCC-4S		8/22/97	<25	<25	<25	1,200	<25	<25	<250	<25	<120	<25	<25	<25	<25	<250	<25	<250	<25	1200	<25	<25	<25	<25
WCC-4S		9/5/97	<25	<25	<25	1,100	<25	<25	<250	<25	<120	<25	<25	<25	<25	<250	<25	<250	<25	1000	<25	<25	<25	<25
WCC-4S		9/17/97	<25	<25	<25	960	<25	<25	<250	<25	<120	<25	<25	<25	<25	<250	<25	<250	<25	1100	<25	<25	<25	<25
WCC-4S		9/28/98	24	<2.5	18	890	24	<2.5		<2.5	<2.5	<2.5	5.4	12	8		<12.5		<2.5	780	<2.5	<2.5	<5	<2.5
WCC-4S		10/21/98	19	<5	11	1,100	19	<5		<5	<5	<5	6	11	11		<25		<5	970	<5	<5	<10	<5
WCC-4S		3/4/99	<10	<10	<10	1,700	<10	<10		<10	<10	<10	<10	<10	15		<50		<10	1,600	<10	<10	<20	<10
WCC-4S		7/14/99	<10	<10	<10	2,100	<10	<10		<10	<10	<10	<10	12	19		<50		<10	1500	<10	<10	<20	<10
WCC-4S		6/21/00	<10	<10	<10	1,800	<10			<10	<10	<10	<10	<10	<10		<50		<10	1300	<10	<10	<20	<10
WCC-4S		1/24/01	<50	<50	<50	2,000	<25	<50	<500	<50	<50	<25	<50	<50	15 J	<250	<50	<250	<50	1100	<50	<50	<50	<100
WCC-5S		11/30/87		1		7																		
WCC-5S		1/8/88		10		4															1			
WCC-5S		7/13/89	<1	13		3				<1			<1	6	<1			<1		<5	<1			
WCC-5S	Dup	7/13/89	<1	12		3				<1			<1	6	<1			<1		<5	<1			
WCC-5S		8/23/89	<1	12		<1				<1			<1	4	<1			<1		<5	<1			
WCC-5S		11/19/91				20														8	7			
WCC-5S		6/15/92	<5	<5		28			<10	<5			<5	<5	<5	<10		<10		7	<5			
WCC-5S		9/21/92	<1	<1	<1	21	<1	<1	<5	<1	<1	<1	<1	<1	<1	<5	8	<5	<1	5	<1	<1	<1	3
WCC-5S		12/7/92	<1	<1	<1	21	<1	<1	<5	<1	<1	<1	<1	<1	<1	<5	3	<5	<1	5	<1	<1	<1	<1
WCC-5S		3/16/93	<2	<2	<2	18	<2	<2	<10	<2	<5	<5	<2	<2	<2	<10	<10	<5	<2	4	<2	<2	<2	<5
WCC-5S		6/7/93	<2	<2	<2	22	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<4	<20	<4	4	<2	<2	<2	<2
WCC-5S		8/24/93	<2	<2	<4	23	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<4	<20	<2	5	<2	<2	<2	<2
WCC-5S		11/18/93	<2	<2	<4	21	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	3	<2	<2	<2	<2
WCC-5S		2/23/94	<2	<2	<4	20	<2	<2	<40	<2	4	<2	<2	<2	<2	<40	<10	<20	<2	4	<2	<2	<2	<2
WCC-5S		6/10/94	<2	<2	<4	25	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<20	<20	<2	3.4	<2	<2	<6	<2
WCC-5S	Dup	6/10/94	<2	<2	<4	25	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<20	<20	<2	3.4	<2	<2	<6	<2
WCC-5S		9/8/94	<2	<2	<4	18	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	3.3	<2	<2	<6	<2
WCC-5S		12/21/94	<2	<2	<4	18	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	2.9	<2	<2	<4	<2
WCC-5S		3/13/95	<2	<2	<4	14	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	2.8	<2	<2	<4	<2
WCC-5S		6/12/95	<2	<2	<4	19	<2	<2	<40	<2	2	<2	<2	<2	<2	<40	<10	<20	<2	3.2	<2	<2	<2	<2
WCC-5S		9/6/95	<5	<5	<5	18	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<5	<5	<5	<5
WCC-5S		12/12/95	<2	<2	<2	15	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2		<2	3	<2	<2	<4	<2
WCC-5S		2/29/96	<5	<5	<5	10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<5	<5	<10	<5
WCC-5S		6/6/96	<5	<5	<5	9	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<5	<5	<5	<5
WCC-5S		9/18/96	<1	<1	<1	10	<1	1.2	<10	<1	<5	<1	<1	<1	<1	<10	<1	<10	<1	3.1	<1	<1	<1	<1
WCC-5S		12/17/96	<1	<1	<1	10	<1	2	<10	<1	<5	<1	<1	<1	<1	<10	<1	<10	<1	2.4	<1	<1	<1	<1
WCC-5S		5/7/97	<1	<1	<1	10	<1	1.2	<10	<1	<5	<1	<1	<1	<1	<10	<1	<10	<1	3.1	<1	<1	<1	<1
WCC-5S		7/2/97	<1.0	<1.0	<1	11	<1	<1	<10	<1.0	<5	<1	<1.0	<1.0	<1.0	<10	<1	<10	<1	2.1	<1.0	<1	<1	<1
WCC-5S		7/23/97	<1.0	<1.0	<1	12	<1	<1	<10	<1.0	<5	<1	<1.0	<1.0	<1.0	<10	<1	<10	<1	14	9.8	<1	<1	<1
WCC-5S		8/5/97	<1.0	1.2	<1	18	<1	1.2	<10	<1.0	<5	<1	<1.0	1	<1.0	<10	<1	<10	<1	31	23	<1	<1	<1
WCC-5S		8/20/97	<1.0	<1.0	<1	12	<1	<1	<10	<1.0	<5	<1	<1.0	<1.0	<1.0	<10	<1	<10	<1	2.1	<1.0	<1	<1	<1

Units = ug/L

BOE-C6-0048757

Table 5
Summary of Historical Volatile Organic Compounds
Boeing Realty Corporation Former C-6 Facility

Well		Date Sampled	1,1,-DCA	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	Isopropyl benzene	Acetone	Benzene	Carbon disulfide	Carbon tetra chloride	Chloro form	cis-1,2-DCE	trans-1,2-DCE	MEK	Methylene chloride	MIBK	PCE	TCE	Toluene	Ethyl Benzene	Xylenes (total)	Trichloro fluoro methane
WCC-5S		9/4/97	<1.0	1.6	<1	19	<1	<1	<10	<1.0	<5	<1	<1.0	1.6	<1.0	<10	<1	<10	<1	32	33	<1	<1	<1
WCC-5S		9/16/97	<1.0	1.8	<1	19	<1	<1	<10	<1.0	<5	<1	<1.0	1.5	<1.0	<10	<1	<10	<1	40	38	<1	<1	<1
WCC-5S		9/28/98	<0.5	1.6	<0.5	17	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<2.5		<0.5	4.5	<0.5	<0.5	<1	<0.5
WCC-5S		10/20/98	<0.5	<0.5	<0.5	17	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<2.5		<0.5	3.7	<0.5	<0.5	<1	<0.5
WCC-5S		3/4/99	<0.5	<0.5	<0.5	11	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<2.5		<0.5	2.1	<0.5	<0.5	<1	<0.5
WCC-5S		7/15/99	<0.5	<0.5	<0.5	14	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<2.5		<0.5	2.3	<0.5	<0.5	<1	<0.5
WCC-5S		6/22/00	<0.5	<0.5	<0.5	9	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<2.5		<0.5	2.7	<0.5	<0.5	<1	<0.5
WCC-5S		1/23/01	<1	<1	<1	5	<0.5	<1	<10	<1	<1	<0.5	<1	<1	<1	<5	<1	<5	<1	1.7	2.8	<1	<1	5.2 J
WCC-6S		10/6/89	4	130		210				<1			<1	12	7			<5		140	<1			
WCC-6S		11/16/91		5,000		5,800										21,000		17,000			35,000			
WCC-6S		6/17/92	<500	2100		5,400			<3,000	<500			<500	<500	<500	6300		7600		3000	15000			
WCC-6S		9/23/92	94	1300	96	5,900	5	<1	78	67	<1	<1	20	200	170	3600	5	7500	<1	3100	10000	5	26	<1
WCC-6S		12/9/92	80	680	60	3,700	<80	<50	<300	80	<50	<50	<50	200	100	3000	100	3400	<50	2700	5000	<50	<50	<50
WCC-6S	Dup	12/9/92	<100	1400	100	5,600	<80/<11	<100	<600	<100	<100	<100	<100	200	200	5000	200	<500	<10	3200	10000	<10	<100	<100
WCC-6S		3/17/93	50	1200	<10	3,200	<80/<12	<25	<50	40	<25	<25	15	<10	80	3800	<50	3900	<10	1400	10000	<10	20	<25
WCC-6S		6/8/93	<100	1900	<200	5,500	<80/<13	<100	<2,000	<100	<100	<100	<100	260	120	7800	<200	13000	<100	2100	21000	<100	<100	<100
WCC-6S		8/25/93	<100	2100	<200	5,400	<80/<14	<100	<2,000	<100	<100	<100	<100	630	130	7600	<200	11000	<100	1900	19000	<100	<100	<100
WCC-6S		11/19/93	42	440	<20	2,200	<80/<15	<10	<200	24	<10	<10	<10	480		3100	<50	4700	<10	670	4900	<10	<10	<10
WCC-6S		2/24/94	91	2200	74	11,000	<80/<16	<10	230	52	<10	<10	21	1400	140	4400	<50	13000	<10	1800	20000	10	58	<10
WCC-6S		6/13/94	87	1800	69	5,800	<80	<10	<200	52	<10	<10	18	1600	130	1400	<50	4400	<10	1400	12000	<10	51	<50
WCC-6S	Dup	6/13/94	<100	1500	<200	6,300	<17	<10	<2000	<100	<10	<100	<100	1400	100	<2000	<500	5200	<100	1300	<13000	<100	<300	<100
WCC-6S		12/22/94	<200	1300	<400	9,100	<200	<200	<4,000	<200	<200	<200	<200	2500	<200	<4,000	<1,000	4800	<200	1900	16000	<200	<400	<200
WCC-6S		3/14/95	38	200	<40	3,000	26	<20	<400	25	<20	<20	<20	850	60	<400	<100	390	<20	930	2300	<20	<40	<20
WCC-6S		6/13/95	130	810	60	9,800	51	<20	<400	82	<20	<20	28	4200	180	<400	<100	450	<20	510	8400	<20	<20	<20
WCC-6S		9/7/95	55	370	1	4,300	1	<5	<10	50	<5	<5	14	2400	83	12	<5	240	<5	620	2900	<5	1	<5
WCC-6S	Dup	9/7/95	70	310	1	3,800	1	<5	<10	56	<5	<5	19	2200	99	11	<5	180	<5	520	2500	<5	1	<5
WCC-6S		12/16/95	120	1400	76	11,000	41	<2	<2	66	<2	<2	28	2600	160		<2		<2	2000	4900	5	28	<2
WCC-6S		3/4/96	93	1,600	61	8,300	<50	<50	<100	56	<50	<50	<50	2,000	140	340	<50	350	<50	2,000	3,900	<50	<100	<50
WCC-6S		6/7/96	88	1700	53	9,300	39	<25	<50	54	<25	<25	<25	3000	120	960	<25		<25	2400	6500	<25	<25	<25
WCC-6S		9/19/96	<250	890	<250	8,800	<250	<250	<2,500	<250	<1,200	250	<250	1800	250	<2500	<250	<2500	<250	2000	4000	<250	<250	<250
WCC-6S	Dup	9/19/96	110	950	<100	8,800	<100	<100	<1000	<100	<500	<100	<100	1800	160	<1000	<100	<100	<100	2200	4300	<100	<100	<100
WCC-6S		12/19/96	<100	680	<100	7,000	<100	<100	<1000	<100	<500	<100	<100	880	100	<1000	<100	<1000	<100	2200	2600	<100	<100	<100
WCC-6S	Dup	12/19/96	<100	820	<100	8,300	<100	<100	<1000	<100	<500	<100	<100	1000	130	<1000	<100	<1000	<100	2600	3000	<100	<100	<100
WCC-6S		5/9/97	<100	720	<100	6,800	<100	<100	<1000	<100	<500	<100	<100	1100	<100	<1000	<100	<1000	<100	1900	1800	<100	<100	<100
WCC-6S	Dup	5/9/97	<100	740	<100	7,000	<100	<100	<1000	<100	<500	<100	<100	1200	120	<1000	<100	<1000	<100	2000	1800	<100	<100	<100
WCC-6S		7/8/97	<100	410	<100	3,600	<100	<100	<1000	<100	<500	<100	<100	540	<100	<1000	<100	<1000	<100	950	2400	<100	<100	<100
WCC-6S		7/24/97	<100	320	<100	2,700	<100	<100	<1000	<100	<500	<100	<100	510	<100	<1000	<100	<1000	<100	820	1600	<100	<100	<100
WCC-6S		8/6/97	<100	630	<100	7,700	<100	<100	<1000	<100	<500	<100	<100	1400	110	<1000	<100	<1000	<100	2100	3100	<100	<100	<100
WCC-6S		9/18/97	<100	500	<100	5,500	<100	<100	<1000	<100	<500	<100	<100	910	<100	<1000	<100	<1000	<100	1600	1800	<100	<100	<100
WCC-6S		9/23/98	16	38	<12.5	2,800	16	<12.5		<12.5	<12.5	<12.5	<12.5	210	22		<62.5		<12.5	1,500	<12.5	<12.5	<25	<12.5
WCC-6S		10/22/98	20	19	<10	2,800	20	<10		12	<10	<10	<10	100	33		<50		<10	1700	<10	<10	<20	<10
WCC-6S		3/6/99	110	300	<50	9,500	110	<50		51	<50	<50	<50	510	140		<250		<50	5,000	760	<50	<100	<50
WCC-6S		7/16/99	94	390	<50	7,300	94	<50		<50	<50	<50	<50	1000	130		<250		<50	3000	860	<50	<100	<50
WCC-6S		6/26/00	76	1600	<25	5,300	<25			43	<25	<25	<25	2000	91		<125		<25	1500	4700	<25	<50	<25
WCC-6S		1/22/01	79 J	770	<100	4,600	<50	<100	<1000	<100	<100	<50	<100	1300	120	<500	<100	<500	<100	1700	1200	<100	<100	<200
WCC-6S		7/19/01	74	540	14	5,026	11	<5	<50	27	<5	<2.5	14	990	110	<25	<5	<25	<5	1,900	360	7.6	38	<10
WCC-7S		7/13/89	<10	110		850				<10			<10	26	11			<50		1300	<10			
WCC-7S		8/23/89	<30	66		1,100				<30			<30	31	<30			<100		1400	<30			
WCC-7S		11/18/91				390														1200				
WCC-7S		6/17/92	<5	<5		230			<30	<5			<5	<5	<5	<10		<10		560	<5			
WCC-7S		9/23/92	<5	<5	<5	140	<5	<5	<30	<5	<5	<5	<5	<5	<5	<30	10	<30	<5	570	<5	<5	<5	<5
WCC-7S		12/8/92	<5	<5	<5	140	<5	<5	<30	<5	<5	<5	<5	<5	<5	<30	10	<30	<5	430	<5	<5	<5	<5
WCC-7S		3/17/93	<2	<2	<2	77	<2	<2	<10	<2	<5	<5	<2	4	<2	<10	<10	<5	<2	200	<2	<2	<5	<5
WCC-7S		6/7/93	<2	<2	<4	120	<2	<2	<40	<2	<2	<2	<2	4	<2	<40	<4	<20	<2	330	<2	<2	<2	<2
WCC-7S		8/25/93	<4	<4	<8	70	<4	<4	<80	<4	<4	<4	<4	4	<4	<80	31	<40	<4	210	<4	<4	<4	<4
WCC-7S		11/19/93	<2	<2	<4	56	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	130	<2	<2	<2	<2
WCC-7S		2/24/94	<2	<2	<4	75	<2	<2	<40	<2	<2	<2	<2	2.5	<2	<40	<10	<20	<2	140	<2	<2	<2	<2
WCC-7S		6/13/94	<2	<2	<4	58	<2	<2	<40	<2	<2	<2	<2	2.5	<2	<40	<10	<20	<2	110	<2	<2	<6	<2
WCC-7S		9/8/94	13	<2	<4	50	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	250	<2	<2	<6	<2
WCC-7S		12/22/94	<2	<2	<4	94	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	94	<2	<2	<4	<2
WCC-7S		3/14/95	<2	<2	<4	53	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	84	<2	<2	<4	<2
WCC-7S		6/13/95	<2	2	<4	110	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	230	<2	<2	<4	<2
WCC-7S	Dup	6/13/95	<2	<2	<4	98	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	220	<2	<2	<4	<2

Units = ug/L

BOE-C6-0048758

Table 5
Summary of Historical Volatile Organic Compounds
Boeing Realty Corporation Former C-6 Facility

Well		Date Sampled	1,1,-DCA	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	Isopropyl benzene	Acetone	Benzene	Carbon disulfide	Carbon tetra chloride	Chloro form	cis-1,2-DCE	trans-1,2-DCE	MEK	Methylene chloride	MIBK	PCE	TCE	Toluene	Ethyl Benzene	Xylenes (total)	Trichloro fluoro methane
WCC-7S		9/7/95	<5	<5	<5	150	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	200	<5	<5	<5	<5
WCC-7S		12/15/95	<2	<2	<2	98	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2		<2	140	<2	<2	<4	<2
WCC-7S		3/1/96	<5	<5	<5	91	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	120	<5	<5	<10	<5
WCC-7S		6/7/96	<5	<5	<5	100	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	130	<5	<5	<5	<5
WCC-7S		9/19/96	<2	<2	<2	120	<2	<2	<20	<2	<10	<2	<2	<2	<2	<20	<2	<20	<2	150	<2	<2	<2	<2
WCC-7S		12/18/96	<2	<2	<2	99	<2	<2	<20	<2	<10	<2	<2	<2	<2	<20	<2	<20	<2	130	<2	<2	<2	<2
WCC-7S		5/8/97	<2.5	<2.5	<2.5	120	<2.5	<2.5	<25	<2.5	<12	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<25	<2.5	140	<2.5	<2.5	<2.5	<2.5
WCC-7S		7/2/97	<2.0	<2.0	<2.0	130	<2.0	<2.0	<20	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<20	<2.0	150	<2.0	<2.0	<2.0	<2.0
WCC-7S		7/24/97	<2.0	<2.0	<2.0	67	<2.0	<2.0	<20	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<20	<2.0	130	8	<2.0	<2.0	<2.0
WCC-7S		8/6/97	<2.0	<2.0	<2.0	130	<2.0	<2.0	<20	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<20	<2.0	160	18	<2.0	<2.0	<2.0
WCC-7S		8/21/97	<2.0	<2.0	<2.0	120	<2.0	<2.0	<20	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<20	<2.0	140	<2.0	<2.0	<2.0	<2.0
WCC-7S		9/4/97	3.1	<2.5	<2.5	120	6.1	<2.5	<25	<2.5	<12	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<25	<2.5	150	17	<2.5	<2.5	<2.5
WCC-7S		9/17/97	<2.5	<2.5	<2.5	110	<2.5	<2.5	<25	<2.5	<12	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<25	<2.5	160	21	<2.5	<2.5	<2.5
WCC-7S		9/28/98	1.4	<1.25	1.7	300	1.4	<1.25		<1.25	<1.25	<1.25	<1.25	<1.25	<1.25		<6.25		<1.25	250	<1.25	<1.25	<2.5	<1.25
WCC-7S		10/21/98	1	<1	2	300	1	<1		<1	<1	<1	<1	1	<1		<5		<1	240	<1	<1	<2	<1
WCC-7S		3/4/99	<1	<1	<1	160	<1	<1		<1	<1	<1	<1	1.1	<1		<5		<1	170	<1	<1	<2	<1
WCC-7S		7/14/99	<1	<1	<1	32	<1	<1		<1	<1	<1	<1	9.3	<1		<5		<1	120	<1	<1	<2	<1
WCC-7S		6/22/00	1.1	<0.5	1.7	190	<0.5			<0.5	<0.5	<0.5	0.67	1.1	<0.5		<2.5		<0.5	170	<0.5	<0.5	<1.0	<0.5
WCC-7S		1/24/01	<5	<5	<5	200	<2.5	<5	<50	<5	<5	<2.5	<5	<5	<5	<25	<5	<25	<5	140	9	<5	<5	<10
WCC-8S		7/13/89	<5	160		430				<5			<5	7	9			<30		240	<5			
WCC-8S		8/23/89	<5	130		820				<5			<5	7	<5			<30		430	<5			
WCC-8S		11/15/91		400		2,600							25	40	40					3000	120			
WCC-8S		6/17/92	<25	180		2,200			<150	<25			<25	<25	<25	<50		<50		2400	<25			
WCC-8S	Dup	6/17/92	<50	180		2,300			<300	<50			<50	<50	<50	<100		<100		2600	<50			
WCC-8S		9/23/92	<20	200	<20	2,800	<20	<20	<100	<20	<20	<20	20	<20	20	<100	40	<100	<20	3100	<20	<20	<20	<20
WCC-8S		12/8/92	<20	100	<20	2,000	<20	<20	<100	20	<20	<20	20	20	30	<100	30	<100	<20	2500	<20	<20	<20	<20
WCC-8S		3/17/93	11	180	<2	1,800	<2	<2	<10	15	<5	<5	10	15	26	<10	<10	<5	<2	1500	<2	<2	<2	<5
WCC-8S		6/8/93	<20	300	<40	3,000	<20	<20	<400	<20	<20	<20	<20	<20	40	<400	<100	<200	<20	2000	<20	<20	<20	<20
WCC-8S		8/25/93	<20	330	<40	3,100	<20	<20	<400	<20	<20	<20	<20	<20	45	<400	<40	<200	<20	2200	<20	<20	<20	<20
WCC-8S		2/24/94	<20	300	<40	3,400	<20	<20	<400	<20	<20	<20	<20	<20	35	<400	<100	<200	<20	1200	<20	<20	<20	<20
WCC-8S		6/13/94	<40	290	<80	4,000	<40	<40	<800	<40	<40	<40	<40	<40	44	<800	<200	<400	<40	2200	<40	<40	<120	<40
WCC-8S		9/9/94	<50	280	<100	4,600	<50	<50	<1000	<50	<50	<50	<50	<50	<50	<1000	<250	<500	<50	3100	<50	<50	<150	<50
WCC-8S		12/22/94	<20	230	<40	4,000	<20	<20	<400	25	<20	<20	<20	<20	43	<400	<100	<200	<20	2100	<20	<20	<40	<20
WCC-8S		3/14/95	<40	220	<80	4,500	<40	<40	<800	<40	<40	<40	<40	<40	41	<800	<200	<400	<40	2600	<40	<40	<80	<40
WCC-8S		6/13/95	<40	150	<80	4,200	<40	<40	<800	<40	<40	<40	<40	<40	<40	<800	<200	<400	<40	2400	<40	<40	<40	<40
WCC-8S		9/7/95	10	110	<5	2,200	<5	<5	<10	22	<5	<5	9.2	15	28	<10	<5	<10	<5	1700	<5	<5	<5	<5
WCC-8S		12/15/95	16	120	<2	4,200	<2	<2	<2	10	<2	<2	<2	18	40		<2		<2	2300	<2	<2	<4	<2
WCC-8S		3/1/96	<20	120	<20	3,500	<20	<20	<40	<20	<20	<20	<20	<20	40	<40	<20	<40	<20	2100	<20	<20	<40	<20
WCC-8S	Dup	3/1/96	<20	120	<20	3,600	<20	<20	<40	<20	<20	<20	<20	<20	41	<40	<20	<40	<20	2200	<20	<20	<40	<20
WCC-8S		6/7/96	11	91	<5	3,300	<5	<5	<10	<5	<5	<5	10	12	32	<10	<5		<5	2000	<5	<5	<5	<5
WCC-8S		9/19/96	<50	59	<50	3,400	<50	<50	<500	<50	<250	<50	<50	<50	<50	<500	<50	<500	<50	1900	<50	<50	<50	<50
WCC-8S		11/19/96	<20	330	<40	3,300	<20	<20	<400	24	<20	<20	<20	<20	50	<400	<100	<200	<20	2000	<20	<20	<20	<20
WCC-8S		12/18/96	<50	61	<50	3,000	<50	<50	<500	<50	<250	<50	<50	<50	<50	<500	<50	<500	<50	2000	<50	<50	<50	<50
WCC-8S		5/8/97	<50	<50	<50	2,600	<50	<50	<500	<50	<250	<50	<50	<50	51	<500	<50	<500	<50	1600	<50	<50	<50	<50
WCC-8S		7/8/97	<50	<50	<50	3,200	<50	<50	<500	<50	<250	<50	<50	<50	<50	<500	<50	<500	<50	1900	<50	<50	<50	<50
WCC-8S		7/24/97	<50	<50	<50	2,500	<50	<50	<500	<50	<250	<50	<50	<50	<50	<500	<50	<500	<50	1900	<50	<50	<50	<50
WCC-8S		8/6/97	<2.5	<2.5	<2.5	130	<2.5	<2.5	<25	<2.5	<12	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<25	<2.5	160	18	<2.5	<2.5	<2.5
WCC-8S		8/22/97	<50	<50	<50	2,800	<50	<50	<500	<50	<250	<50	<50	<50	<50	<500	<50	<500	<50	1900	<50	<50	<50	<50
WCC-8S		9/5/97	<50	<50	<50	2,500	<50	<50	<500	<50	<250	<50	<50	<50	<50	<500	<50	<500	<50	1600	<50	<50	<50	<50
WCC-8S		9/17/97	<50	<50	<50	2,600	<50	<50	<500	<50	<250	<50	<50	<50	<50	<500	<50	<500	<50	1800	<50	<50	<50	<50
WCC-9S		10/6/89	<1	<1		<1				<1			<1	7	<1			<5		15	<1			
WCC-9S		11/19/91																		20				
WCC-9S		6/15/92	<5	<5		7			<30	<5			<5	<5	<5	<10		<10		42	<5			
WCC-9S		9/21/92	<1	<1	<1	6	<1	<1	<5	<1	<1	<1	6	2	<1	<5	10	<5	<1	45	<1	<1	<1	<1
WCC-9S		12/7/92	<1	<1	<1	10	<1	<1	<5	<1	<1	<1	12	<1	<1	<5	3	<5	<1	51	<1	<1	<1	<1
WCC-9S		3/16/93	<2	<2	<2	6	<2	<2	<10	<2	<5	<5	11	3	<2	<10	<10	<5	<2	23	<2	<2	<2	<5
WCC-9S		6/7/93	<2	<2	<4	11	<2	<2	<40	<2	<2	<2	18	<2	<2	<40	<4	<20	<2	42	<2	<2	<2	<2
WCC-9S	Dup	6/7/93	<2	<2	<4	11	<2	<2	<40	<2	<2	<2	17	<20	<20	<40	<4	<20	<2	39	<2	<2	<2	<2
WCC-9S		8/24/93	<2	<2	<4	5	<2	<2	<40	<2	<2	<2	<2	4	<2	<40	<4	<20	<2	26	<2	<2	<2	<2
WCC-9S		11/18/93	<2	<2	<4	5	<2	<2	<40	<2	<2	<2	7	<2	<2	<40	<10	<20	<2	43	<2	<2	<2	<2
WCC-9S		2/23/94	<2	<2	<4	<4	<2	<2	<40	<2	<2	<2	4	2	<2	<40	<10	<20	<2	31	<2	<2	<4	<2
WCC-9S		6/10/94	<2	<2	<4	<4	<2	<2	<40	<2	<2	<2	2.5	4.4	<2	<40	<20	<20	<2	28	<2	<2	<6	<2
WCC-9S		9/8/94	<2	<2	<4	<4	<2	<2	<40	<2	<2	<2	4.1	2.7	<2	<40	<10	<20	<2	38	<2	<2	<6	<2

Units = ug/L

BOE-C6-0048759

Table 5
Summary of Historical Volatile Organic Compounds
Boeing Realty Corporation Former C-6 Facility

Well		Date Sampled	1,1,-DCA	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	Isopropyl benzene	Acetone	Benzene	Carbon disulfide	Carbon tetra chloride	Chloro form	cis-1,2-DCE	trans-1,2-DCE	MEK	Methylene chloride	MIBK	PCE	TCE	Toluene	Ethyl Benzene	Xylenes (total)	Trichloro fluoro methane
WCC-7S		9/7/95	<5	<5	<5	150	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	200	<5	<5	<5	<5
WCC-7S		12/15/95	<2	<2	<2	98	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2		<2	140	<2	<2	<4	<2
WCC-7S		3/1/96	<5	<5	<5	91	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	120	<5	<5	<10	<5
WCC-7S		6/7/96	<5	<5	<5	100	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	130	<5	<5	<5	<5
WCC-7S		9/19/96	<2	<2	<2	120	<2	<2	<20	<2	<10	<2	<2	<2	<2	<20	<2	<20	<2	150	<2	<2	<2	<2
WCC-7S		12/18/96	<2	<2	<2	99	<2	<2	<20	<2	<10	<2	<2	<2	<2	<20	<2	<20	<2	130	<2	<2	<2	<2
WCC-7S		5/8/97	<2.5	<2.5	<2.5	120	<2.5	<2.5	<25	<2.5	<12	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<25	<2.5	140	<2.5	<2.5	<2.5	<2.5
WCC-7S		7/2/97	<2.0	<2.0	<2.0	130	<2.0	<2.0	<20	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<20	<2.0	150	<2.0	<2.0	<2.0	<2.0
WCC-7S		7/24/97	<2.0	<2.0	<2.0	67	<2.0	<2.0	<20	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<20	<2.0	130	8	<2.0	<2.0	<2.0
WCC-7S		8/6/97	<2.0	<2.0	<2.0	130	<2.0	<2.0	<20	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<20	<2.0	160	18	<2.0	<2.0	<2.0
WCC-7S		8/21/97	<2.0	<2.0	<2.0	120	<2.0	<2.0	<20	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<20	<2.0	140	<2.0	<2.0	<2.0	<2.0
WCC-7S		9/4/97	3.1	<2.5	<2.5	120	6.1	<2.5	<25	<2.5	<12	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<25	<2.5	150	17	<2.5	<2.5	<2.5
WCC-7S		9/17/97	<2.5	<2.5	<2.5	110	<2.5	<2.5	<25	<2.5	<12	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<25	<2.5	160	21	<2.5	<2.5	<2.5
WCC-7S		9/28/98	1.4	<1.25	1.7	300	1.4	<1.25		<1.25	<1.25	<1.25	<1.25	<1.25	<1.25		<6.25		<1.25	250	<1.25	<1.25	<2.5	<1.25
WCC-7S		10/21/98	1	<1	2	300	1	<1		<1	<1	<1	<1	1	<1		<5		<1	240	<1	<1	<2	<1
WCC-7S		3/4/99	<1	<1	<1	160	<1	<1		<1	<1	<1	<1	1.1	<1		<5		<1	170	<1	<1	<2	<1
WCC-7S		7/14/99	<1	<1	<1	32	<1	<1		<1	<1	<1	<1	9.3	<1		<5		<1	120	<1	<1	<2	<1
WCC-7S		6/22/00	1.1	<0.5	1.7	190	<0.5			<0.5	<0.5	<0.5	0.67	1.1	<0.5		<2.5		<0.5	170	<0.5	<0.5	<1.0	<0.5
WCC-7S		1/24/01	<5	<5	<5	200	<2.5	<5	<50	<5	<5	<2.5	<5	<5	<5	<25	<5	<25	<5	140	9	<5	<5	<10
WCC-8S		7/13/89	<5	160		430				<5			<5	7	9			<30		240	<5			
WCC-8S		8/23/89	<5	130		820				<5			<5	7	<5			<30		430	<5			
WCC-8S		11/15/91		400		2,600							25	40	40					3000	120			
WCC-8S		6/17/92	<25	180		2,200			<150	<25			<25	<25	<25	<50		<50		2400	<25			
WCC-8S	Dup	6/17/92	<50	180		2,300			<300	<50			<50	<50	<50	<100		<100		2600	<50			
WCC-8S		9/23/92	<20	200	<20	2,800	<20	<20	<100	<20	<20	<20	20	<20	20	<100	40	<100	<20	3100	<20	<20	<20	<20
WCC-8S		12/8/92	<20	100	<20	2,000	<20	<20	<100	20	<20	<20	20	20	30	<100	30	<100	<20	2500	<20	<20	<20	<20
WCC-8S		3/17/93	11	180	<2	1,800	<2	<2	<10	15	<5	<5	10	15	26	<10	<10	<5	<2	1500	<2	<2	<2	<5
WCC-8S		6/8/93	<20	300	<40	3,000	<20	<20	<400	<20	<20	<20	<20	<20	40	<400	<100	<200	<20	2000	<20	<20	<20	<20
WCC-8S		8/25/93	<20	330	<40	3,100	<20	<20	<400	<20	<20	<20	<20	<20	45	<400	<40	<200	<20	2200	<20	<20	<20	<20
WCC-8S		2/24/94	<20	300	<40	3,400	<20	<20	<400	<20	<20	<20	<20	<20	35	<400	<100	<200	<20	1200	<20	<20	<20	<20
WCC-8S		6/13/94	<40	290	<80	4,000	<40	<40	<800	<40	<40	<40	<40	<40	44	<800	<200	<400	<40	2200	<40	<40	<120	<40
WCC-8S		9/9/94	<50	280	<100	4,600	<50	<50	<1000	<50	<50	<50	<50	<50	<50	<1000	<250	<500	<50	3100	<50	<50	<150	<50
WCC-8S		12/22/94	<20	230	<40	4,000	<20	<20	<400	25	<20	<20	<20	<20	43	<400	<100	<200	<20	2100	<20	<20	<40	<20
WCC-8S		3/14/95	<40	220	<80	4,500	<40	<40	<800	<40	<40	<40	<40	<40	41	<800	<200	<400	<40	2600	<40	<40	<80	<40
WCC-8S		6/13/95	<40	150	<80	4,200	<40	<40	<800	<40	<40	<40	<40	<40	<40	<800	<200	<400	<40	2400	<40	<40	<40	<40
WCC-8S		9/7/95	10	110	<5	2,200	<5	<5	<10	22	<5	<5	9.2	15	28	<10	<5	<10	<5	1700	<5	<5	<5	<5
WCC-8S		12/15/95	16	120	<2	4,200	<2	<2	<2	10	<2	<2	<2	18	40		<2		<2	2300	<2	<2	<4	<2
WCC-8S		3/1/96	<20	120	<20	3,500	<20	<20	<40	<20	<20	<20	<20	<20	40	<40	<20	<40	<20	2100	<20	<20	<40	<20
WCC-8S	Dup	3/1/96	<20	120	<20	3,600	<20	<20	<40	<20	<20	<20	<20	<20	41	<40	<20	<40	<20	2200	<20	<20	<40	<20
WCC-8S		6/7/96	11	91	<5	3,300	<5	<5	<10	<5	<5	<5	10	12	32	<10	<5		<5	2000	<5	<5	<5	<5
WCC-8S		9/19/96	<50	59	<50	3,400	<50	<50	<500	<50	<250	<50	<50	<50	<50	<500	<50	<500	<50	1900	<50	<50	<50	<50
WCC-8S		11/19/96	<20	330	<40	3,300	<20	<20	<400	24	<20	<20	<20	<20	50	<400	<100	<200	<20	2000	<20	<20	<20	<20
WCC-8S		12/18/96	<50	61	<50	3,000	<50	<50	<500	<50	<250	<50	<50	<50	<50	<500	<50	<500	<50	2000	<50	<50	<50	<50
WCC-8S		5/8/97	<50	<50	<50	2,600	<50	<50	<500	<50	<250	<50	<50	<50	51	<500	<50	<500	<50	1600	<50	<50	<50	<50
WCC-8S		7/8/97	<50	<50	<50	3,200	<50	<50	<500	<50	<250	<50	<50	<50	<50	<500	<50	<500	<50	1900	<50	<50	<50	<50
WCC-8S		7/24/97	<50	<50	<50	2,500	<50	<50	<500	<50	<250	<50	<50	<50	<50	<500	<50	<500	<50	1900	<50	<50	<50	<50
WCC-8S		8/6/97	<2.5	<2.5	<2.5	130	<2.5	<2.5	<25	<2.5	<12	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<25	<2.5	160	18	<2.5	<2.5	<2.5
WCC-8S		8/22/97	<50	<50	<50	2,800	<50	<50	<500	<50	<250	<50	<50	<50	<50	<500	<50	<500	<50	1900	<50	<50	<50	<50
WCC-8S		9/5/97	<50	<50	<50	2,500	<50	<50	<500	<50	<250	<50	<50	<50	<50	<500	<50	<500	<50	1600	<50	<50	<50	<50
WCC-8S		9/17/97	<50	<50	<50	2,600	<50	<50	<500	<50	<250	<50	<50	<50	<50	<500	<50	<500	<50	1800	<50	<50	<50	<50
WCC-9S		10/6/89	<1	<1		<1				<1			<1	7	<1			<5		15	<1			
WCC-9S		11/19/91																		20				
WCC-9S		6/15/92	<5	<5		7			<30	<5			<5	<5	<5	<10		<10		42	<5			
WCC-9S		9/21/92	<1	<1	<1	6	<1	<1	<5	<1	<1	<1	6	2	<1	<5	10	<5	<1	45	<1	<1	<1	<1
WCC-9S		12/7/92	<1	<1	<1	10	<1	<1	<5	<1	<1	<1	12	<1	<1	<5	3	<5	<1	51	<1	<1	<1	<1
WCC-9S		3/16/93	<2	<2	<2	6	<2	<2	<10	<2	<5	<5	11	3	<2	<10	<10	<5	<2	23	<2	<2	<2	<5
WCC-9S		6/7/93	<2	<2	<4	11	<2	<2	<40	<2	<2	<2	18	<2	<2	<40	<4	<20	<2	42	<2	<2	<2	<2
WCC-9S	Dup	6/7/93	<2	<2	<4	11	<2	<2	<40	<2	<2	<2	17	<20	<20	<40	<4	<20	<2	39	<2	<2	<2	<2
WCC-9S		8/24/93	<2	<2	<4	5	<2	<2	<40	<2	<2	<2	<2	4	<2	<40	<4	<20	<2	26	<2	<2	<2	<2
WCC-9S		11/18/93	<2	<2	<4	5	<2	<2	<40	<2	<2	<2	7	<2	<2	<40	<10	<20	<2	43	<2	<2	<2	<2
WCC-9S		2/23/94	<2	<2	<4	<4	<2	<2	<40	<2	<2	<2	4	2	<2	<40	<10	<20	<2	31	<2	<2	<4	<2
WCC-9S		6/10/94	<2	<2	<4	<4	<2	<2	<40	<2	<2	<2	2.5	4.4	<2	<40	<20	<20	<2	28	<2	<2	<6	<2
WCC-9S		9/8/94	<2	<2	<4	<4	<2	<2	<40	<2	<2	<2	4.1	2.7	<2	<40	<10	<20	<2	38	<2	<2	<6	<2

Units = ug/L

BOE-C6-0048760

Table 5
Summary of Historical Volatile Organic Compounds
Boeing Realty Corporation Former C-6 Facility

Well		Date Sampled	1,1,-DCA	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	Isopropyl benzene	Acetone	Benzene	Carbon disulfide	Carbon tetra chloride	Chloro form	cis-1,2-DCE	trans-1,2-DCE	MEK	Methylene chloride	MIBK	PCE	TCE	Toluene	Ethyl Benzene	Xylenes (total)	Trichloro fluoro methane
WCC-9S		12/21/94	<2	<2	<4	<4	<2	<2	<40	<2	<2	<2	3	3.1	<2	<40	<10	<20	<2	22	<2	<2	<4	<2
WCC-9S	Dup	12/21/94	<2	<2	<4	<4	<2	<2	<40	<2	<2	<2	3.1	3.3	<2	<40	<10	<20	<2	26	<2	<2	<4	<2
WCC-9S		3/13/95	<2	<2	<4	7	<2	<2	<40	<2	<2	<2	8.4	<2	<2	<40	<10	<20	<2	56	<2	<2	<4	<2
WCC-9S		6/12/95	<2	<2	<4	<4	<2	<2	<40	<2	<2	<2	6.4	<2	<2	<40	<10	<20	<2	23	<2	<2	<4	<2
WCC-9S	Dup	6/12/95	<2	<2	<4	<4	<2	<2	<40	<2	<2	<2	6	<2	<2	<40	<10	<20	<2	21	<2	<2	<4	<2
WCC-9S		9/6/95	<5	<5	<5	11	<5	<5	<10	<5	<5	<5	19	<5	<5	<10	<5	<10	<5	64	<5	<5	<5	<5
WCC-9S		12/12/95	<2	<2	<2	4	<2	<2	<2	<2	<2	<2	4	3	<2		<2		<2	18	<2	<2	<4	<2
WCC-9S		2/29/96	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	17	<5	<5	<10	<5
WCC-9S		6/6/96	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5		<5	15	<5	<5	<5	<5
WCC-9S		9/18/96	<1	<1	<1	2	<1	1.1	<10	<1	<5	<1	3.9	2.9	<1	<10	<1	<10	<1	17	<1	<1	<1	<1
WCC-9S		12/17/96	<1	<1	<1	3	<1	1.5	<10	<1	<5	<1	3.5	2.8	<1	<10	<1	<10	<1	18	<1	<1	<1	<1
WCC-9S		5/7/97	<1	<1	<1	2	<1	1	<10	<1	<5	<1	3.5	3	<1	<10	<1	<10	<1	16	<1	<1	<1	<1
WCC-9S		7/2/97	<1.0	<1.0	<1	4	<1	<1	<10	<1.0	<5	<1	<1.0	1.9	6.7	<10	<1	<10	<1	29	<1.0	<1	<1	<1
WCC-9S		7/23/97	<1.0	<1.0	<1	8	<1	<1	<10	<1.0	<5	<1	<1.0	2	7.6	<10	<1	<10	<1	43	12	<1	<1	<1
WCC-9S		8/5/97	<1.0	<1.0	<1	10	<1	<1	<10	<1.0	<5	<1	8.2	2.6	<1.0	<10	<1	<10	<1	51	20	<1	<1	<1
WCC-9S	Dup	8/5/97	<1.0	<1.0	<1	4	<1	<1	<10	<1.0	<5	<1	<1.0	1.3	<1.0	<10	<1	<10	<1	20	16	<1	<1	<1
WCC-9S		8/20/97	<1.0	<1.0	<1	6	<1	<1	<10	<1.0	<5	<1	<1.0	2	9	<10	<1	<10	<1	31	<1.0	<1	<1	<1
WCC-9S		9/4/97	<1.0	<1.0	<1	10	<1	<1	<10	<1.0	<5	<1	<1.0	2.4	8.2	<10	<1	<10	<1	48	24	<1	<1	<1
WCC-9S		9/16/97	1.3	<1.0	<1	10	<1	<1	<10	<1.0	<5	<1	<1.0	2.4	8.1	<10	<1	<10	<1	58	29	<1	<1	<1
WCC-9S	Dup	9/16/97	<1.0	1.4	<1	11	<1	<1	<10	<1.0	<5	<1	8	2.4	<1.0	<10	<1	<10	<1	59	30	<1	<1	<1
WCC-9S		9/23/98	<1	3.5	<1	17	<1	<1		<1	<1	<1	12	<1	<1		<5		<1	130	<1	<1	<2	<1
WCC-9S		10/21/98	<0.5	<0.5	<0.5	14	<1	<0.5		<0.5	<0.5	<0.5	20	<0.5	<0.5		<2.5		1	120	<0.5	<0.5	<1	<0.5
WCC-9S		3/2/99	<0.5	<0.5	<0.5	7	<1	<0.5		<0.5	<0.5	<0.5	14	2	<0.5		<2.5		<0.5	44	<0.5	<0.5	<1	<0.5
WCC-9S		7/13/99	<0.5	<0.5	<0.5	12	<1	<0.5		<0.5	<0.5	<0.5	24	2.2	<0.5		<2.5		<0.5	56	<0.5	<0.5	<1	<0.5
WCC-9S		6/20/00	<0.5	<0.5	<0.5	14	<0.5			<0.5	<0.5	<0.5	49	<0.5	<0.5		<2.5		<0.5	78	<0.5	<0.5	<1.0	<0.5
WCC-9S		1/19/01	1.3	<1	<1	6.52	<0.5	<1	<10	<1	<1	<0.5	6.8	<1	<1	<5	<1	<5	<1	73	8.7	<1	<1	0.54 J
WCC-10S		7/13/89	<1	<1		2				<1			3	<1	<1			<5		86	<1			
WCC-10S	Dup	7/13/89	<1	<1		1				<1			3	<1	<1			0.5		87	<1			
WCC-10S		8/23/89	<1	<1		4				<1			4	<1	<1			5		81	<1			
WCC-10S		11/20/91																		87				
WCC-10S		6/16/92	<5	<5		10			35	<5			<5	<5	<5	13		<10		120	<5			
WCC-10S		9/21/92	<1	<1	<1	9	<1	<1	<5	<1	<1	1	4	<1	<1	<5	8	<5	<1	120	<1	<1	<1	<1
WCC-10S	Dup	9/21/92	<1	<1	<1	9	<1	<1	<5	<1	<1	1	4	<1	<1	<5	8	<5	<1	110	<1	<1	<1	<1
WCC-10S		12/8/92	<1	<1	<1	8	<1	<1	<5	<1	<1	<1	5	<1	<1	<5	3	<5	<1	110	<1	<1	<1	<1
WCC-10S		3/16/93	<2	<2	<2	9	<2	<2	<10	<2	<5	<5	6	<2	<2	<10	<10	<5	<2	130	<2	<2	<2	<5
WCC-10S		6/7/93	<2	<2	<4	13	<2	<2	<40	<2	<2	<2	4	<2	<2	<40	<4	<20	<2	120	<2	<2	<2	<2
WCC-10S		8/25/93	<2	<2	<4	<4	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	120	<2	<2	<2	<2
WCC-10S		11/19/93	<2	<2	<4	9	<2	<2	<40	<2	<2	<2	2	<2	<2	<40	<10	<20	<2	82	<2	<2	<2	<2
WCC-10S		2/23/94	<2	<2	<4	10	<2	<2	<40	<2	<2	<2	5	<2	<2	<40	<10	<20	<2	110	<2	<2	<2	<2
WCC-10S		6/10/94	<2	<2	<4	17	<2	<2	<40	<2	<2	<2	4.3	<2	<2	<40	<20	<20	<2	120	<2	<2	<6	<2
WCC-10S		9/8/94	<2	<2	<4	17	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	130	<2	<2	<6	<2
WCC-10S		12/22/94			<4		<2	<2	<40		<2	<2					<10		<2			<2	<4	<2
WCC-10S	Dup	12/22/94	<2	<2	<4	14	<2	<2	<40	<2	<2	<2	3.1	<2	<2	<40	<10	<20	<2	99	<2	<2	<4	<2
WCC-10S		3/13/95	<2	<2	<4	19	<2	<2	<40	<2	<2	<2	2.2	<2	<2	<40	<10	<20	2.4	120	<2	<2	<4	<2
WCC-10S	Dup	3/13/95	<2	<2	<4	19	<2	<2	<40	<2	<2	<2	2.2	<2	<2	<40	<10	<20	<2	120	<2	<2	<4	<2
WCC-10S		6/12/95	<2	<2	<4	20	<2	<2	<40	<2	17	<2	2.3	<2	<2		<10	<20	<2	140	<2	<2	<2	<2
WCC-10S		9/6/95	<5	<5	<5	27	<5	<5	<10	<5	14	<5	<5	<5	<5	<10	<5	<10	<5	160	<5	<5	<5	<5
WCC-10S		12/16/95	<2	<2	<2	23	<2	<2	<2	<2	<2	<2	4	<2	<2		<2		<2	135	<2	<2	<4	<2
WCC-10S		3/1/96	<5	<5	<5	20	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	120	<5	<5	<10	<5
WCC-10S		6/6/96	<5	<5	<5	22	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5		<5	140	<5	<5	<5	<5
WCC-10S		9/19/96	<2	<2	<2	22	<2	<2	<20	<2	<10	<2	2.5	<2	<2	<20	<2	<20	<2	120	<2	<2	<2	<2
WCC-10S		5/7/97	<2.5	<2.5	<2.5	29	<2.5	<2.5	<25	<2.5	<12	<2.5	3.2	<2.5	<2.5	<25	<2.5	<25	<2.5	160	<2.5	<2.5	<2.5	<2.5
WCC-10S		7/2/97	<2.0	<2.0	<2.0	25	<2.0	<2.0	<20	<2.0	<10	<2.0	2.5	<2.0	<2.0	<20	<2.0	<20	<2.0	140	<2.0	<2.0	<2.0	<2.0
WCC-10S		7/23/97	<2.0	<2.0	<2.0	26	<2.0	<2.0	<20	<2.0	<10	<2.0	2.8	<2.0	<2.0	<20	<2.0	<20	<2.0	150	10	<2.0	<2.0	<2.0
WCC-10S	Dup	7/23/97	<2.0	<2.0	<2.0	26	<2.0	<2.0	<20	<2.0	<10	<2.0	2.9	<2.0	<2.0	<20	<2.0	<20	<2.0	150	10	<2.0	<2.0	<2.0
WCC-10S		8/5/97	<2.5	<2.5	<2.5	30	<2.5	<2.5	<25	<2.5	<12	<2.5	2.6	<2.5	<2.5	<25	<2.5	<25	<2.5	140	15	<2.5	<2.5	<2.5
WCC-10S		8/21/97	<2.0	<2.0	<2.0	25	<2.0	<2.0	<20	<2.0	<10	<2.0	2.6	<2.0	<2.0	<20	<2.0	<20	<2.0	120	<2.0	<2.0	<2.0	<2.0
WCC-10S		9/4/97	<2.5	<2.5	<2.5	28	<2.5	<2.5	<25	<2.5	<12	<2.5	2.7	<2.5	<2.5	<25	<2.5	<25	<2.5	140	18	<2.5	<2.5	<2.5
WCC-10S		9/17/97	<2.5	<2.5	<2.5	29	<2.5	<2.5	<25	<2.5	<12	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<25	<2.5	150	23	<2.5	<2.5	<2.5
WCC-10S		3/2/99	<0.5	<0.5		29				<0.5			2.5	0.92	<0.5					150	<0.5			
WCC-10S		4/8/99	<0.5	<0.5	<0.5	29	<0.5	<0.5		<0.5	<0.5	0.92	2.5	0.92	<0.5		<2.5		2.5	150	<0.5	<0.5	<1	<0.5
WCC-10S		7/14/99	<1	<1	1.2	190	<1	<1		<1	<1	<1	<1	1.3	<1		<5		<1	200	<1	<1	<1	<1
WCC-10S		6/22/00	0.94	<0.5	<0.5	34	<0.5			<0.5	<0.5	1.3	2.8	<0.5	<0.5		<2.5		3	160	<0.5	<0.5	<1.0	<0.5
WCC-10S		1/18/01	<2.5	<2.5	<2.5	24	<1.2	<2.5	<25	<2.5	<2.5	<1.2	1.5	<2.5	<2.5	<12	<2.5	<12	<2.5	94	<2.5	<2.5	<2.5	<5

Units = ug/L

BOE-C6-0048761

Table 5
Summary of Historical Volatile Organic Compounds
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	1,1,-DCA	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	Isopropyl benzene	Acetone	Benzene	Carbon disulfide	Carbon tetra chloride	Chloro form	cis-1,2-DCE	trans-1,2-DCE	MEK	Methylene chloride	MIBK	PCE	TCE	Toluene	Ethyl Benzene	Xylenes (total)	Trichloro fluoro methane
WCC-11S	11/15/91				10														80				
WCC-11S	6/16/92	<5	<5		21			<10	<5			<5	<5	<5	<10		<10		120	<5			
WCC-11S	9/21/92	<1	<1	<1	17	<1	<1	<5	<1	<1	<1	<1	2	<1	<5	9	<5	<1	140	<1	<1	<1	2
WCC-11S	12/8/92	<1	<1	<1	13	<1	<1	<5	<1	<1	<1	<1	6	<1	<5	4	<5	<1	83	<1	<1	<1	<1
WCC-11S	3/16/93	<2	<2	<2	25	<2	<2	<10	<2	<5	<5	<2	4	<2	<10	<10	<5	<2	160	<2	<2	<2	<5
WCC-11S	6/7/93	<2	<2	<4	16	<2	<2	<40	<2	<2	<2	<2	5	<2	<40	<4	<20	<2	110	<2	<2	<2	<2
WCC-11S	8/24/93	<2	<2	<4	14	<2	<2	<40	<2	<2	<2	<2	4	<2	<40	<4	<20	<2	97	<2	<2	<2	<2
WCC-11S	11/19/93	<2	<2	<4	14	<2	<2	<40	<2	<2	<2	<2	3	<2	<40	<10	<20	<2	100	<2	<2	<2	<2
WCC-11S Dup	11/19/93	<2	<2	<4	14	<2	<2	<40	<2	<2	<2	<2	3	<2	<40	<10	<20	<2	100	<2	<2	<2	<4
WCC-11S	2/23/94	<2	<2	<4	16	<2	<2	<40	<2	<2	<2	<2	4	<2	<40	<10	<20	<2	100	<2	<2	<2	<2
WCC-11S	6/10/94	<2	<2	<4	16	<2	<2	<40	<2	<2	<2	<2	4.8	<2	<40	<20	<20	<2	85	<2	<2	<6	<2
WCC-11S	9/8/94	<2	<2	<4	20	<2	<2	<40	<2	<2	<2	<2	4.8	<2	<40	<10	<20	<2	140	<2	<2	<6	<2
WCC-11S Dup	9/8/94	<2	<2	<4	19	<2	<2	<40	<2	<2	<2	<2	5.9	<2	<40	<10	<20	<2	120	<2	<2	<6	<2
WCC-11S	12/21/94	<2	5.7	<4	26	<2	<2	<40	<2	<2	<2	<2	4.2	<2	<40	<10	<20	<2	130	10	<2	<4	<2
WCC-11S	3/13/95	<2	<2	<4	16	<2	<2	<40	<2	<2	<2	<2	5.6	<2	<40	<10	<20	<2	100	<2	<2	<4	<2
WCC-11S	6/12/95	<2	<2	<4	22	<2	<2	<40	<2	<2	<2	<2	6	<2	<40	<10	<20	<2	130	<2	<2	<2	<2
WCC-11S	9/6/95	<5	<5	<5	31	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	190	<5	<5	<5	<5
WCC-11S Dup	9/6/95	<5	<5	<5	30	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	200	<5	<5	<5	<5
WCC-11S	12/15/95	<2	<2	<2	34	<2	<2	<2	<2	<2	<2	<2	5	<2		<2		<2	210	<2	<2	<4	<2
WCC-11S	3/1/96	<5	<5	<5	30	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	170	<5	<5	<10	<5
WCC-11S	6/6/96	<5	<5	<5	28	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5		<5	170	<5	<5	<5	<5
WCC-11S Dup	6/6/96	<5	<5	<5	29	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5		<5	170	<5	<5	<5	<5
WCC-11S	9/19/96	<5	<5	<5	22	<5	<5	<50	<5	<25	<5	<5	<5	<5	<50	<5	<50	<5	150	<5	<5	<5	<5
WCC-11S	12/18/96	<2	<2	<2	28	<2	<2	<20	<2	<10	<2	<2	6.1	<2	<20	<2	<20	<2	170	<2	<2	<2	<2
WCC-11S	5/8/97	<2.5	<2.5	<2.5	33	<2.5	<2.5	<25	<2.5	<12	<2.5	<2.5	5.1	<2.5	<25	<2.5	<25	<2.5	170	<2.5	<2.5	<2.5	<2.5
WCC-11S	7/2/97	<2.0	<2.0	<2.0	29	<2.0	<2.0	<20	<2.0	<10	<2.0	<2.0	4.4	<2.0	<20	<2.0	<20	<2.0	160	<2.0	<2.0	<2.0	<2.0
WCC-11S	7/24/97	<2.5	<2.5	<2.5	31	<2.5	<2.5	<25	<2.5	<12	<2.5	<2.5	4.9	<2.5	<25	<2.5	<25	<2.5	150	10	<2.5	<2.5	<2.5
WCC-11S	8/5/97	<2.5	<2.5	<2.5	33	<2.5	<2.5	<25	<2.5	<12	<2.5	<2.5	5.2	<2.5	<25	<2.5	<25	<2.5	160	15	<2.5	<2.5	<2.5
WCC-11S	8/21/97	<2.5	<2.5	<2.5	30	<2.5	<2.5	<25	<2.5	<12	<2.5	<2.5	5	<2.5	<25	<2.5	<25	<2.5	150	<2.5	<2.5	<2.5	<2.5
WCC-11S	9/4/97	<2.5	<2.5	<2.5	29	<2.5	<2.5	<25	<2.5	<12	<2.5	<2.5	4.7	<2.5	<25	<2.5	<25	<2.5	140	21	<2.5	<2.5	<2.5
WCC-11S Dup	9/4/97	<2.5	<2.5	<2.5	28	<2.5	<2.5	<25	<2.5	<12	<2.5	<2.5	4.5	<2.5	<25	<2.5	<25	<2.5	150	19	<2.5	<2.5	<2.5
WCC-11S	9/17/97	<2.5	<2.5	<2.5	29	<2.5	<2.5	<25	<2.5	<12	<2.5	<2.5	4.9	<2.5	<25	<2.5	<25	<2.5	160	19	<2.5	<2.5	<2.5
WCC-11S	9/28/98	<1	2.1	<1	51	<1	<1		<1	<1	<1	<1	<1	<1		<5		<1	230	<1	<1	<2	<1
WCC-11S	10/21/98	<1	<1	<1	35	<1	<1		<1	<1	<1	<1	2	<1		<5		<1	140	<1	<1	<2	<1
WCC-11S	3/4/99	<0.5	<0.5	<0.5	22	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	6.9	<0.5		<2.5		<0.5	120	<0.5	<0.5	<1	<0.5
WCC-11S	7/14/99	<0.5	<0.5	<0.5	38	<0.5	<0.5		<0.5	<0.5	1.1	2.8	1.2	<0.5		<2.5		3.1	170	<0.5	<0.5	<1	<0.5
WCC-11S	6/22/00	<0.5	<0.5	<0.5	24	<0.5			<0.5	<0.5	<0.5	<0.5	11	<0.5		<2.5		<0.5	110	<0.5	<0.5	<1.0	<0.5
WCC-11S	1/23/01	0.45 J	<1	<1	13	<0.5	<1	<10	<1	<1	<0.5	0.22	9	0.32 J	<5	<1	<5	<1	64	2.3	<1	<1	<2
WCC-12S	11/18/91		17		300														900				
WCC-12S	6/16/92	<5	<5		250			<10	<5			<5	<5	<5	<10		<10		660	<5			
WCC-12S Dup	6/16/92	<5	<5		260			<10	<5			<5	<5	<5	<10		<10		710	<5			
WCC-12S	9/22/92	7	1	<1	130	<1	<1	<5	<1	<1	<1	3	3	<1	<5	7	<5	<1	500	<1	<1	<1	4
WCC-12S	12/8/92	<5	<5	<5	160	<5	<5	<30	<5	<5	<5	<5	5	<5	<30	20	<30	<5	550	<5	<5	<5	<5
WCC-12S	3/17/93	7	<2	<2	100	<2	<2	<10	<2	<5	<5	3	4	8	<10	<10	<5	<2	410	<2	<2	<2	<5
WCC-12S	6/7/93	2	<2	<4	130	<2	<2	<40	<2	<2	<2	<2	5	<2	<40	<4	<20	<2	370	<2	<2	<2	<2
WCC-12S	8/25/93	<4	<4	<8	100	<4	<4	<80	<4	<4	<4	<4	<4	<4	<80	<8	<40	<4	390	9	<4	<4	<4
WCC-12S	11/19/93	9	<2	<4	45	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	220	<2	<2	<2	<2
WCC-12S	2/24/94	7.7	<2	<4	89	<2	<2	<40	<2	<2	<2	<2	2.9	<2	<40	<10	<20	<2	270	<2	<2	<2	<2
WCC-12S Dup	2/24/94	7.7	<2	<4	77	<2	<2	<40	<2	<2	<2	<2	3.3	<2	<40	<10	<20	<2	220	<2	<2	<2	<2
WCC-12S	6/13/94	15	<2	<4	84	<2	<2	<40	<2	<2	<2	2.2	2.6	<2	<40	<10	<20	<2	270	<2	<2	<6	<2
WCC-12S	9/9/94	<2	<2	<4	97	<2	<2	<40	<2	<2	<2	<2	<2	<2	<40	<10	<20	<2	160	<2	<2	<6	<2
WCC-12S	12/22/94	17	<2	<4	52	<2	<2	<40	<2	<2	<2	<2	2.1	<2	<40	<10	<20	<2	190	<2	<2	<4	<2
WCC-12S	3/14/95	18	<2	<4	53	<2	<2	<40	<2	<2	<2	2.9	<2	<2	<40	<10	<20	<2	230	<2	<2	<4	<2
WCC-12S	6/12/95	28	<2	<4	72	<2	<2	<40	<2	<2	<2	3.2	<2	<2	<40	<10	<20	<2	330	<2	<2	<2	<2
WCC-12S	9/6/95	32	<5	<5	60	<5	<5	<10	<5	33	<5	<5	<5	<5	<10	<5	<10	<5	300	<5	<5	<5	<5
WCC-12S	12/15/95	10	<2	<2	44	<2	<2	<2	<2	<2	<2	2	3	<2		<2		<2	140	<2	<2	<4	<2
WCC-12S	3/1/96	13	<5	<5	47	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	150	<5	<5	<10	<5
WCC-12S	6/7/96	12	<5	<5	37	<5	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5		<5	140	<5	<5	<5	<5
WCC-12S	9/19/96	15	<2	<2	48	<2	<2	<20	<2	<10	<2	2.2	2.5	<2	<20	<2	<20	<2	150	<2	<2	<2	<2
WCC-12S	12/18/96	16	<2	<2	43	<2	<2	<20	<2	<10	<2	2	2.5	<2	<20	<2	<20	<2	150	<2	<2	<2	<2
WCC-12S	5/8/97	16	<2.5	<2.5	47	<2.5	<2.5	<25	<2.5	<12	<2.5	<2.5	2.6	<2.5	<25	<2.5	<25	<2.5	150	<2.5	<2.5	<2.5	<2.5
WCC-12S	7/2/97	14	<2.0	<2.0	38	<2.0	<2.0	<20	<2.0	<10	<2.0	<2.0	2.4	<2.0	<20	<2.0	<20	<2.0	130	<2.0	<2.0	<2.0	<2.0
WCC-12S Dup	7/2/97	14	<2.0	<2.0	38	<2.0	<2.0	<20	<2.0	<10	<2.0	<2.0	2.4	<2.0	<20	<2.0	<20	<2.0	130	<2.0	<2.0	<2.0	<2.0

Units = ug/L

BOE-C6-0048762

Table 5
Summary of Historical Volatile Organic Compounds
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	1,1,-DCA	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	Isopropyl benzene	Acetone	Benzene	Carbon disulfide	Carbon tetra chloride	Chloro form	cis-1,2-DCE	trans-1,2-DCE	MEK	Methylene chloride	MIBK	PCE	TCE	Toluene	Ethyl Benzene	Xylenes (total)	Trichloro fluoro methane
WCC-12S	7/23/97	14	<2.0	<2.0	34	<2.0	<2.0	<20	<2.0	<10	<2.0	<2.0	2.2	<2.0	<20	<2.0	<20	<2.0	140	9.2	<2.0	<2.0	<2.0
WCC-12S	8/6/97	14	<2.0	<2.0	42	<2.0	<2.0	<20	<2.0	<10	<2.0	<2.0	2.8	<2.0	<20	<2.0	<20	<2.0	140	20	<2.0	<2.0	<2.0
WCC-12S	8/21/97	13	<2.0	<2.5	39	<2.5	<2.5	<25	<2.0	<12	<2.5	2	2.4	<2.0	<20	<2.5	<20	<2.5	120	<2.0	<2.5	<2.5	<2.5
WCC-12S	9/4/97	18	<2.5	<2.5	37	85	<2.5	<25	<2.5	<12	<2.5	<2.5	2.9	<2.5	<25	2.7	<25	4.7	130	20	<2.5	<2.5	<2.5
WCC-12S	9/17/97	13	<2.5	<2.5	40	13	<2.5	<25	<2.5	<12	<2.5	<2.5	3	<2.5	<25	<2.5	<25	<2.5	150	27	<2.5	<2.5	<2.5
WCC-12S Dup	9/17/97			<2.5		<2.5	<2.5	<25		<12	<2.5					<2.5		<2.5			<2.5	<2.5	<2.5
WCC-12S	9/23/98	130	<2.5	<2.5	120	130	<2.5		<2.5	<2.5	<2.5	10	3.8	<2.5	<25	<12.5	<25	3.2	600	<2.5	<2.5	<5	<2.5
WCC-12S Dup	9/23/98	11	<2.5		34				<2.5			<2.5	<2.5	<2.5	<25		<25		120	23			
WCC-12S	10/21/98	110	<2.5	<2.5	120	110	<2.5		<2.5	<2.5	<2.5	9	3	<2.5		<12.5		3	530	<2.5	<2.5	<5	<2.5
WCC-12S	3/2/99	19	<0.5	<0.5	46	19	<0.5		<0.5	<0.5	<0.5	1.9	2.5	<0.5		<2.5		0.75	140	<0.5	<0.5	<1	<0.5
WCC-12S	7/13/99	20	<0.5	<0.5	49	20	<0.5		<0.5	<0.5	<0.5	1.9	3	<0.5		<2.5		0.63	130	<0.5	<0.5	<1	<0.5
WCC-12S	6/21/00	24	<0.5	<0.5	47	<0.5			<0.5	<0.5	<0.5	2.8	1.9	<0.5		<2.5		1	160	<0.5	<0.5	<1.0	<0.5
WCC-12S	1/22/01	18	<2.5	<2.5	40	<1.2	<2.5	<25	<2.5	<2.5	<1.2	2	1.4 J	<2.5	<12	<2.5	<12	<2.5	130	4.9	<2.5	<2.5	<5
DAC-P1	10/9/89							<1,000															
DAC-P1	10/9/89	<200	<200		<200				<200			85	<200	<200	<1,000		<1,000		17000	<200			
DAC-P1	6/17/92	<5	<5		<5			<30	<5			10	13	<5	<10		<10		21000	<5			
DAC-P1	6/23/92	<1	<1	9	4	<1	<1	<5	5	<1	4	54	71	1	<5	4	<5	13	28000	<1	<1	<1	1
DAC-P1 Dup	6/23/92	<1	<0.5	9	4	<1	<1	<5	5	<1	4	51	70	2	<5	4	<5	13	28000	<1	<1	<1	1
DAC-P1	12/9/92	<500	<500	<500	<300	<500	<500	<3,000	<500	<500	<500	<500	<500	<500	<3,000	2,000	<3,000	<500	29000	<500	<500	<500	<500
DAC-P1	3/18/93	<2	44	5	21	<2	<2	<10	5	<5	<5	44	68	2	<10	<10	7	10	21000	260	<2	<2	<5
DAC-P1	6/8/93	<100	<100	<200	<200	<100	<100	<2,000	<100	<100	<100	<100	<100	<100	<2,000	<200	<1,000	<100	28000	130	<100	<100	<100
DAC-P1	8/25/93	<200	<200	<400	<400	<200	<200	<4,000	<200	<200	<200	<200	<200	<200	<4,000	<400	<2,000	<200	27000	300	<200	<200	<200
DAC-P1	11/19/93	<20	<20	<40	<40	<20	<20	<400	<20	<20	<20	52	81	<20	<400	<100	<200	<20	24000	<20	<20	<20	<20
DAC-P1	2/24/94	<20	<20	<40	<40	<20	<20	<400	<20	<20	<20	47	89	<20	<400	<100	<200	<20	20000	<20	<20	<20	<20
DAC-P1	6/13/94	<20	<20	<40	<40	<20	<20	<400	<20	<20	<20	46	92	<20	<400	<100	<200	<20	20000	<20	<20	<60	<20
DAC-P1	9/9/94	<200	<200	<400	<400	<200	<200	<4000	<200	<200	<200	<200	<200	<200	<4,000	<1000	<2,000	<200	18000	<200	<200	<600	<200
DAC-P1	12/22/94	<200	<200	<400	<400	<200	<200	<4,000	<200	<200	<200	<200	<200	<200	<4,000	<1,000	<2,000	<200	11000	<200	<200	<400	<200
DAC-P1	3/14/95	<200	<200	<400	<400	<200	<200	<4,000	<200	<200	<200	<200	<200	<200	<4,000	<1,000	<2,000	<200	21000	<200	<200	<400	<200
DAC-P1	6/13/95	<200	<200	<400	<400	<200	<200	<4,000	<200	<200	<200	<200	<200	<200	<4,000	<1,000	<2000	<200	18000	<200	<200	<200	<200
DAC-P1	9/7/95	<5	<5	<5	12	<5	<5	<10	<5	<5	<5	33	89	<5	<10	<5	<10	17	13000	53	<5	<5	<5
DAC-P1	12/16/95	2	38	4	120	<2	<2	<2	5	<2	<2	45	130	5		<2		11	20000	680	<2	<4	<2
DAC-P1	3/4/96	<100	<100	<100	100	<100	<100	<200	<100	<100	<100	<100	100	<100	<200	<100	<200	<100	15000	260	<100	<200	<100
DAC-P1 Dup	3/4/96			<100		<100	<100	<200		<100	<100					<100		<100			<100	<200	<100
DAC-P1	6/7/96	<50	<50	<50	190	<50	<50	<100	<50	<50	<50	<50	95	<50	<100	<50		<50	13000	490	<50	<50	<50
DAC-P1 Dup	6/7/96	<25	45	<25	180	<25	<25	<50	<25	<25	<25	29	95	<25	<50	<25		<25	12000	490	<25	<25	<25
DAC-P1	9/19/96	<250	<250	<250	350	<250	<250	<2500	<250	<1,200	<250	<250	<250	<250	<2,500	<250	<2,500	<250	15000	740	<250	<250	<250
DAC-P1	12/19/96	<500	<500	<500	<500	<500	<500	<5,000	<500	<2,500	<500	<500	<500	<500	<5,000	<500	<5,000	<500	15000	610	<500	<500	<500
DAC-P1	5/9/97	<250	<250	<250	<250	<250	<250	<2,500	<250	<1,200	<250	<250	<250	<250	<2,500	<250	<2,500	<250	15000	<250	<250	<250	<250
DAC-P1	7/8/97	<250	<250	<250	<250	<250	<250	<2,500	<250	<1,200	<250	<250	<250	<250	<2,500	<250	<2,500	<250	13000	450	<250	<250	<250
DAC-P1	7/24/97	<50	<50	<50	<50	<50	<50	<500	<50	<250	<50	<50	<50	<50	<500	<50	<500	<50	3200	110	<50	<50	<50
DAC-P1	8/6/97	<250	<250	<250	<250	<250	<250	<2,500	<250	<1,200	<250	<250	<250	<250	<2,500	<250	<2,500	<250	15000	460	<250	<250	<250
DAC-P1	8/22/97	<250	<250	<250	470	<250	<250	<2,500	<250	<1,200	<250	<250	<250	<250	<2,500	<250	<2,500	<250	17000	1300	<250	<250	<250
DAC-P1	9/5/97	<250	<250	<250	270	<250	<250	<2,500	<250	<1,200	<250	<250	<250	<250	<2,500	<250	<2,500	<250	15000	810	<250	<250	<250
DAC-P1	9/18/97	<250	<250	<250	<250	<250	<250	2,900	<250	<1,200	<250	<250	<250	<250	<2,500	<250	<2,500	<250	14000	540	<250	<250	<250
DAC-P1	4/8/99	<50	<50	<50	<50	<50	<50		<50	<50	<50	<50	69	<50		<250		<50	14,000	<50	<50	<100	<50
DAC-P1	7/16/99	<125	<125	<125	<125	<125	<125		<125	<125	<125	<125	<125	<125		670		<125	18000	<125	<125	<250	<125
DAC-P1	6/26/00	<50	<50	<50	<50	<50	<50		<50	<50	<50	<50	79	<50			<50	<50	14000	<50	<50	<100	<50
DAC-P1	1/18/01	<250	<250	<250	<200	<120	<250	<250	<250	370	<120	<250	<250	<250	<1200	<250	<1200	<250	10000	<250	<250	<250	<500
TMW-1	7/15/98	<5	12	<5	900	<5	<5		<5	<5	<5	7.1	<5	<5		<25		<5	540	<5	<5	<10	22
TMW-1	9/22/98	<5	5.6	<5	730	<5	<5		<5	<5	<5	5.4	<5	<5		<25		<5	410	<5	<5	<10	<5
TMW-1	10/19/98	<2.5	4	<2.5	670	<2.5	<2.5		<2.5	<2.5	<2.5	4.7	<2.5	<2.5		<12.5		<2.5	370	<2.5	<2.5	<5	23
TMW-1	3/5/99	<1.25	1.3	<1.25	330	<1.25	<1.25		<1.25	<1.25	<1.25	4.7	<1.25	<1.25		<6.25		<1.25	320	<1.25	<1.25	<2.5	18
TMW-1	7/15/99	<2.5	<2.5	<2.5	600	<2.5	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<12.5		<2.5	340	<2.5	<2.5	<5.0	14
TMW-1	6/23/00	<2.5	<2.5	<2.5	340	<2.5			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<13		<2.5	350	<2.5	<2.5	<5.0	19
TMW-1	1/29/01	<5	<5	<5	140	<2.5	<5	<50	<5	<5	<2.5	4.3	<5	<5	<25	<5	<25	<5	380	5.3	<5	<5	26
TMW-1	7/18/01	0	<1	<1	240	<0.5	<1	<10	<1	<1	<0.5	3.2	0.32	0.49	<5	0.66	<5	2	360	14	<1	<1	14
TMW-2	7/15/98	<250	6,900	<250	36,000	<250	<250		<250	<250	<250	350	710	630		<1250		<250	34,000	<250	<250	<500	<250
TMW-2	9/23/98	1,500	5,600	<250	34,000	1500	<250		<250	<250	<250	290	770	650		<1250		<250	31,000	<250	<250	<500	<250
TMW-2	10/20/98	1,600	5,100	<125	33,000	1600	<125		<125	<125	<125	270	810	700		<625		<125	32,000	<125	<125	<250	<125
TMW-2	3/6/99	1,600	4,300	<125	39,000	1600	<125		<125	<125	<125	250	660	600		<625		<125	36,000	<125	<125	<250	<125
TMW-2	7/16/99	1900	2700	<125	43,000	1900	<125		<125	<125	<125	280	1000	930		670		<125	32000	<125	<125	<250	<125

Units = ug/L

BOE-C6-0048763

Table 5
Summary of Historical Volatile Organic Compounds
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	1,1,-DCA	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	Isopropyl benzene	Acetone	Benzene	Carbon disulfide	Carbon tetra chloride	Chloro form	cis-1,2-DCE	trans-1,2-DCE	MEK	Methylene chloride	MIBK	PCE	TCE	Toluene	Ethyl Benzene	Xylenes (total)	Trichloro fluoro methane
TMW-2	6/26/00	1400	1900	<100	28,000	<100			<100	<100	<100	230	850	580		<500		<100	28000	480	<100	<200	<100
TMW-2	2/3/01	1400	960	<250	24,000	74 J	<250	<250	<250	<250	<120	170	1000	510	18,000	51 J	<1200	<250	21000	960	<250	<250	<500
TMW-2	7/18/01	1,400	1,100	53	30,000	93	<100	<1,000	56	<100	<50	170	4300	590	75,000	34	760	<100	20,000	2,800	<100	<100	<200
TMW-3	7/31/98	<50	<50	<50	200	<50	<50		<50	<50	<50	<50	<50	<50		<250		<50	8,100	<50	<50	<100	<50
TMW-3	9/22/98	<100	<100	<100	150	<100	<100		<100	<100	<100	<100	<100	<100		<500		<100	12,000	<100	<100	<200	<100
TMW-3	10/20/98	<50	<50	<50	330	<50	<50		<50	<50	<50	<50	<50	<50		<250		<50	9,900	<50	<50	<100	<50
TMW-3	3/5/99	<50	<50	<50	210	<50	<50		<50	<50	<50	<50	<50	<50		<250		<50	8,200	<50	<50	<100	<50
TMW-3	7/15/99	<50	<50	<50	340	<50	<50		<50	<50	<50	<50	<50	<50		<250		<50	7800	<50	<50	<100	<50
TMW-3	6/22/00	<10	<10	<10	96	<10			<10	<10	<10	<10	12	<10		<50		<10	3500	<10	<10	<20	<10
TMW-3	1/29/01	<50	<50	<50	76	<25	<50	<500	<50	<50	<25	<50	<50	<50	<250	<50	<250	<50	2200	20 J	<50	<50	<100
TMW-3	7/19/01	22	<50	24	350	<25	<50	<500	<50	<50	<25	<50	42	<50	<250	<50	<250	<50	8,800	20	<50	<50	<100
TMW-4	7/14/98	55	<25	43	1,500	<25	<25		<25	<25	<25	<25	110	66		<125		<25	2,300	<25	<25	<50	<25
TMW-4	9/22/98	47	19	28	1,800	47	<10		<10	<10	<10	21	83	58		<50		<10	2,600	<10	<10	<20	<10
TMW-4	10/20/98	56	22	29	2,400	56	<10		10	<50	<10	20	98	73		<50		<10	2,900	<10	<10	<20	<10
TMW-4	3/4/99	<50	<50	<50	2,000	<50	<50		<50	<50	<50	<50	64	54		<250		<50	2,900	<50	<50	<100	<50
TMW-4	7/15/99	42	10	10	2,500	23	<10		<10	<10	<10	30	77	64		75		<10	2500	<10	<10	<20	<10
TMW-4	6/22/00	22	<5.0	<5	890	15			<5	<5.0	<5	17	39	27		<25		<5	1700	<5	<5	10	<5
TMW-4	1/29/01	19 J	<50	<50	1,100	12 J	<50	<500	<50	<50	<25	14	29 J	21 J	<250	<50	<250	<50	2000	<50	<50	<50	<100
TMW-4	7/17/01	12	<5	6.1	850	7.1	<5	<50	<5	<5	<2.5	12	22	15	<25	1.6	<25	<5	1,800	4.9	<5	<5	<10
TMW-5	7/14/98	<25	<25	<25	460	<25	<25		<25	0.25	<25	<25	<25	<25		<125		<25	3,700	<25	<25	<50	<25
TMW-5	9/22/98	<12.5	<12.5	<12.5	470	<12.5	<12.5		<12.5	<12.5	<12.5	24	<12.5	<12.5		<62.5		<12.5	3,500	<12.5	<12.5	<25	<12.5
TMW-5	10/19/98	<25	<25	<25	530	<25	<25		<25	<25	<25	28	<25	<25		<125		<25	5,000	<25	<25	<50	<25
TMW-5	3/4/99	<50	<50	<50	500	<50	<50		<50	<50	<50	4,500	<50	<50		<250		<50	<50	<50	<50	<100	<50
TMW-5	7/14/99	<50	<50		710				<50			<50	<50	<50					4300	<50			
TMW-5	7/15/99	<2.5	<2.5	<2.5	9	<2.5	<2.5		<2.5	<2.5	<2.5	560	<2.5	<2.5		<12.5		<2.5	130	<2.5	<2.5	<2.5	<2.5
TMW-5	6/22/00	<13	<13	<13	650	<13			<13	<13	<13	<13	<13	<13		<63		<13	4100	<13	<13	<25	<13
TMW-5	1/23/01	<50	<50	<50	460	<25	<50	<500	<50	<50	<25	15	<50	<50	<250	<50	<250	<50	2900	<50	<50	<50	<100
TMW-5	7/17/01	5.8	<10	13	630	11	<10	<100	<10	<10	<5	19	7	<10	<50	<10	<50	<10	4,700	20	<10	<10	<20
TMW-6	7/14/98	<2.5	<2.5	<2.5	26	<2.5	<2.5		<2.5	<2.5	<2.5	550	3.4	<2.5		<12.5		<2.5	490	<2.5	<2.5	<5.0	<2.5
TMW-6	9/22/98	<2.5	<2.5	<2.5	11	<2.5	<2.5		<2.5	<2.5	<2.5	630	<2.5	<2.5		<12.5		<2.5	240	<2.5	<2.5	<5.0	<2.5
TMW-6	10/19/98	<2.5	<2.5	<2.5	11	<2.5	<2.5		<2.5	<2.5	<2.5	500	<2.5	<2.5		<12.5		<2.5	210	<2.5	<2.5	<5.0	<2.5
TMW-6	3/4/99	<2.5	<2.5	<2.5	8	<2.5	<2.5		<2.5	<2.5	<2.5	630	<2.5	<2.5		<12.5		<2.5	170	<2.5	<2.5	<5.0	<2.5
TMW-6	6/22/00	<2.5	<2.5	<2.5	<2.5	<2.5			<2.5	<2.5	<2.5	100	<2.5	<2.5		13		<2.5	540	<2.5	<2.5	<5.1	<2.5
TMW-6	1/29/01	<5	<5	<5	7	<2.5	<5	<50	<5	<5	<2.5	270	<5	<5	<25	<5	<25	<5	81	14	<5	<5	<10
TMW-6	7/17/01	0.23	<1	<1	4.1	<0.5	<1	<10	<1	<1	<0.5	250	<1	<1	<5	<1	<5	<1	55	15	<1	<1	<2
TMW-7	7/14/98	73	20	29	3,000	73	<12.5		40	<12.5	<12.5	26	120	83		<62.5		<12.5	3,500	<12.5	<12.5	<25	<12.5
TMW-7	9/22/98	36	<12.5	17	1,700	36	<12.5		19	<12.5	<12.5	13	70	48		<62.5		<12.5	2,700	<12.5	<12.5	<25	<12.5
TMW-7	10/20/98	44	<10	17	2,400	44	<10		23	<10	<10	14	89	65		<50		<10	3,000	<10	<10	20	<10
TMW-7	3/5/99	41	<12.5	14	2,200	41	<12.5		16	<12.5	<12.5	13	75	54		<62.5		<12.5	2,900	<12.5	<12.5	<25	<12.5
TMW-7	7/15/99	36	<12.5	<12.5	2,100	36	<12.5		13	<12.5	<12.5	13	69	57		110		<12.5	2500	<12.5	<12.5	<25	<12.5
TMW-7	6/23/00	<10	<10	<10	850	<10			<10	<10	<10	<10	34	24		<50		<10	2000	<10	<10	<20	<10
TMW-7	1/22/01	14 J	<25	<25	640	<12	<25	<250	<25	<25	<12	5.5	26	17 J	<120	<25	<120	<25	1700	17 J	<25	<25	<50
TMW-7	7/18/01	10	<5	4.8	560	5.2	<5	<50	<5	<5	<2.5	4.3	21	12	<25	<5	<25	<5	1,800	5.6	<5	<5	<10
TMW-8	7/15/98	96	37	37	7,000	96	<25		62	<25	<25	38	140	120		<125		<25	5,700	<25	<25	<50	<25
TMW-8	9/22/98	31	<12.5	<12.5	2,000	31	<12.5		23	<12.5	<12.5	14	54	40		<62.5		<12.5	2,600	<12.5	<12.5	<25	<12.5
TMW-8	10/20/98	18	<10	<10	1,300	18	<10		13	<10	<10	<10	32	25		<50		<10	2,100	<10	<10	<20	<10
TMW-8	3/5/99	52	<12.5	18	3,800	52	<12.5		38	<12.5	<12.5	21	93	71		<62.5		<12.5	3,900	<12.5	<12.5	<25	<12.5
TMW-8	7/15/99	52	<12.5	13	3,500	52	<12.5		27	<12.5	<12.5	16	92	74		<62.5		<12.5	3000	<12.5	<12.5	<25	<12.5
TMW-8	6/23/00	45	<13	13	2,300	22			23	<13	<13	<13	81	56		<63		<13	2900	<13	<13	<25	<13
TMW-8	1/25/01	39 J	<50	<50	2,189	<25	<50	<500	<50	<50	<25	<50	63	51	<250	<50	<250	<50	2500	18 J	<50	<50	<100
TMW-8	7/18/01	35	<10	7	2,200	9	<10	<100	13	<10	<5	6.4	78	50	<50	<10	<50	<10	2,500	26	<10	<10	<20
TMW-9	7/14/98	<1	<1	<1	24	<1	<1		<1	<1	<1	2.9	<1			<5		2.1	290	<1	<1	<2	<1
TMW-9	9/22/98	<1	<1	<1	14	<1	<1		<1	<1	<1	2	<1	<1		<5		2.3	250	<1	<1	<1	<1
TMW-9	10/19/98	<2.5	<2.5	<2.5	51	<2.5	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<12.5		3.5	420	<2.5	<2.5	<5	<2.5
TMW-9	3/4/99	<5	<5	<5	110	<5	<5		<5	<5	<5	<5	<5	<5		<25		<5	760	<5	<5	<10	<5
TMW-9	7/14/99	<5	<5	<5	290	<5	<5		<5	<5	<5	<5	<5	<5		<25		<5	1200	<5	<5	<10	<5

Units = ug/L

BOE-C6-0048764

Table 5
Summary of Historical Volatile Organic Compounds
Boeing Realty Corporation Former C-6 Facility

Well	Date Sampled	1,1,-DCA	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	Isopropyl benzene	Acetone	Benzene	Carbon disulfide	Carbon tetra chloride	Chloro form	cis-1,2-DCE	trans-1,2-DCE	MEK	Methylene chloride	MIBK	PCE	TCE	Toluene	Ethyl Benzene	Xylenes (total)	Trichloro fluoro methane
TMW-9	6/23/00	<5	<5	<5	220	<5			<5	<5.0	<5	<5	<5	<5		<25		<5	1000	<5	<5	<10	<5
TMW-9	1/29/01	<12	<12	<12	170	<6.2	<12	<120	<12	<12	<6.2	<12	<12	<12	<62	<12	<62	<12	850	19	<12	<12	<25
TMW-10	3/3/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	4.2	<0.5	<0.5		<2.5		0.94	3.8	<0.5	<0.5	<1.0	0.51
TMW-10	7/13/99	<0.5	<0.5	<0.5	1	<0.5	<0.5		<0.5	<0.5	<0.5	4.9	<0.5	<0.5		<2.5		1.3	4.4	<0.5	<0.5	<1.0	0.82
TMW-10	6/20/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	4.7	<0.5	<0.5		<2.5		1	4.1	<0.5	<0.5	<1.0	<0.5
TMW-10	1/19/01	<12	<12	<12	<12.5	<6.2	<12	<120	<12	<12	<6.2	3.3	<12	<12	<62	<12	<62	<12	850	13	<12	<12	<25
TMW-10	5/10/01	<1	1.7	<1	<1	<0.5	0.22 J	5.7 J	<1	<1	<0.5	2.7	<1	<1	<5	110 E		0.94 J	3.6	<1	<1	<1	1.2 J
TMW-10	7/18/01	<1	<1	<1	<1	<0.5	<1	<10	<1	<1	<0.5	2.3	<1	<1	<5	0.96	<5	0.83	3.6	<1	<1	<1	1.1
TMW-11	3/3/99	<1.25	<1.25	<1.25	<1.25	99	<1.25		<1.25	<1.25	1.7	430	<1.25	<1.25		<6.25		1.9	21	<1.25	<1.25	<2.5	<1.25
TMW-11	7/13/99	<1.25	<1.25	<1.25	2	<1.25	<1.25		<1.25	<1.25	1.7	450	<1.25	<1.25		<6.25		1.7	23	<1.25	<1.25	<2.5	<1.25
TMW-11	6/20/00	<2.5	<2.5	<2.5	<2.5	<2.5			<2.5	<2.5	<2.5	740	<2.5	<2.5		<13		<2.5	47	<2.5	<2.5	<2.5	<2.5
TMW-11	1/24/01	<10	<10	<10	<10	<5	<10	<100	<10	<10	<5	720	<10	<10	<50	<10	<50	<10	21	13	<10	<10	<20
TMW-11	7/17/01	<2	<2	<2	<2	<1	<2	<20	<2	<2	2	430	<2	<2	<10	0.75	<10	2.5	11	4.9	<2	<2	<4
TMW-12	3/3/99	<10	<10	<10	20	<10	<10		<20	<10	<10	3,100	<10	<10		<50		15	700	<10	<10	<20	<10
TMW-12	7/13/99	<10	<10	<10	32	<10	<10		<20	<10	<10	2,800	<10	<10		<50		<10	760	<10	<10	<20	<10
TMW-12	6/21/00	<10	<10	<10	25	<10			<10	<10	<10	2100	<10	<10		<50		13	440	<10	<10	<20	<10
TMW-12	1/22/01	<25	<25	<25	18	<12	<25	<250	<25	<25	<12	1500	<25	<25	<120	<25	<120	<25	310	<25	<25	<25	<50
TMW-12	7/17/01	<5	<5	<5	16	<2.5	<5	<50	<5	<5	2.9	1,400	<5	<5	<25	<5	<25	12	170	7	<5	<5	<10
TMW-13	3/3/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	4.6	31	<0.5	<0.5		<2.5		5.8	120	<0.5	<0.5	<1.0	<0.5
TMW-13	7/13/99	<0.5	<0.5	<0.5	1	<0.5	<0.5		<0.5	<0.5	4.5	29	<0.5	<0.5		<2.5		5.6	116	<0.5	<0.5	<1.0	<0.5
TMW-13	6/21/00	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	3	14	<0.5	<0.5		<2.5		2.9	97	<0.5	<0.5	<1.0	<0.5
TMW-13	5/10/01	<1	2.6	<1	<1	<1	<2	<20	<2	0.6 J	1.1	7.1	<1	<1	<10	61		<2	64	<1	<1	<2	<2
TMW-13	7/17/01	<1	<1	<1	0.39	<0.5	<1	<10	<1	<1	1.2	11	<1	<1	<5	0.93	<5	2	72	<1	<1	<1	<2
TMW-14	3/3/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	3.8	4.6	<0.5	<0.5		<2.5		2.5	15	<0.5	<0.5	<1.0	<0.5
TMW-14	7/13/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	2.9	4.4	<0.5	<0.5		<2.5		1.8	13	<0.5	<0.5	<1.0	<0.5
TMW-14	6/21/00	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	1.8	5.8	<0.5	<0.5		<2.5		1	10	1.3	0.57	1.8	<0.5
TMW-14	1/25/01	<1	<1	<1	0.92 J	<0.5	<1	<10	<1	<1	1.1	5.4	<1	<1	<5	0.4 J	<5	<1	9.2	16	0.26 J	1.2	<2
TMW-14	7/18/01	<1	<1	<1	<1	<0.5	<1	<10	<1	<1	1.5	3.5	<1	<1	<5	1.2	<5	0.82	9.4	15	<1	<1	<2
TMW-15	3/3/99	<0.5	<0.5	<0.5	1	<0.5	<0.5		<0.5	<0.5	<0.5	12	<0.5	<0.5		<2.5		<0.5	40	<0.5	<0.5	<1.0	<0.5
TMW-15	7/13/99	<0.5	<0.5	<0.5	2	<0.5	<0.5		<0.5	<0.5	<0.5	11	<0.5	<0.5		<2.5		<0.5	39	<0.5	<0.5	<1.0	<0.5
TMW-15	6/22/00	<0.5	<0.5	<0.5	2	<0.5			<0.5	<0.5	<0.5	11	<0.5	<0.5		<2.5		<0.5	35	<0.5	<0.5	1	<0.5
TMW-15	1/25/01	<1	<1	<1	0.83 J	<0.5	<1	<10	<1	<1	<0.5	8.7	<1	<1	<5	0.39 J	<5	<1	29	15	0.46 J	1.8	<2
TMW-15	7/19/01	<1	<1	<1	0.58	<0.5	<1	<10	<1	<1	<0.5	5.1	<1	<1	<5	0.74	<5	<1	25	17	<1	<1	<2
TMW-16	3/6/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<2.5		2.1	4.5	<0.5	<0.5	<1.0	<0.5
TMW-16	7/16/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<2.5		0.98	2.7	<0.5	<0.5	<1.0	<0.5
TMW-16	6/22/00			<0.5		<0.5				<0.5	<0.5					<2.5		<0.5			<0.5	<1.0	<0.5
TMW-16	6/26/00	<0.5	<0.5		3				<0.5			<0.5	<0.5	<0.5					2.9	6.2			
TMW-16	1/25/01	<1	<1	<1	0.29 J	<0.5	<1	<10	<1	<1	<0.5	0.31	<1	<1	<5	<1	<5	1.1	2.5	12	0.63 J	2.3	<2
TMW-17	5/20/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	1.5	<0.5	<0.5		<2.5		<0.5	32	<0.5	<0.5	<1.0	<0.5
TMW-17	7/14/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	1.6	<0.5	<0.5		<2.5		<0.5	32	<0.5	<0.5	<1.0	<0.5
TMW-17	1/14/00	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	1.6	<0.5	<0.5		<2.5		<0.5	25	<1.0	<0.5	<1.0	<0.5
BL-1	7/17/01	<1	<1	<1	<1	<0.5	0.31	<10	0.77	<1	<0.5	<1	11	<1	<5	4.8	<5	<1	0.99	6.4	<1	<1	<2
BL-1 Dup	7/17/01	0.35	<1	<1	<1	<0.5	0.32	<10	0.81	<1	<0.5	<1	12	<1	<5	6	<5	<1	1	6.9	<1	<1	<2

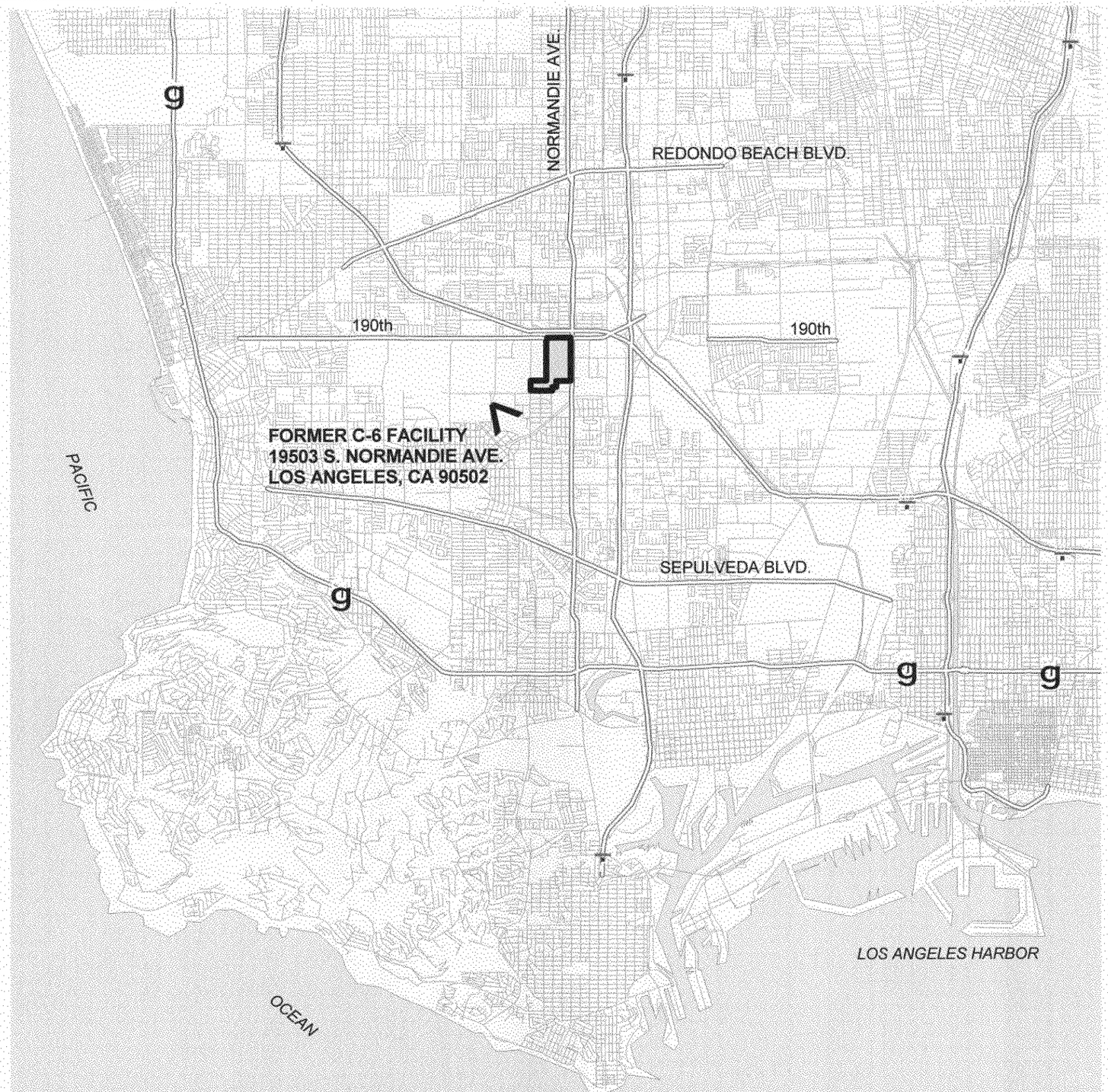
1,1-DCA - 1,1-Dichloroethane
1,1,1-TCA - 1,1,1-Trichloroethane
1,1,2-TCA - 1,1,2-Trichloroethane
1,1-DCE - 1,1-Dichloroethene
1,2-DCA - 1,2-Dichloroethene
cis-1,2-DCE - cis-1,2-Dichloroethene
MEK - methyl-ethyl-ketone
PCE - Tetrachloroethene
TCE - Trichloroethene

Units = ug/L

BOE-C6-0048765

Figures

ENGLAND
GEOSYSTEM
ENVIRONMENTAL ENGINEERING



N

EXPLANATION

BOEING REALTY CORPORATION:
FORMER C-6 FACILITY

REFERENCE:
Base map downloaded from 'Tiger File' data website hosted by ESRI.

0 1 2 Miles

APPROXIMATE HORIZONTAL SCALE

FIGURE 1

SITE LOCATION MAP

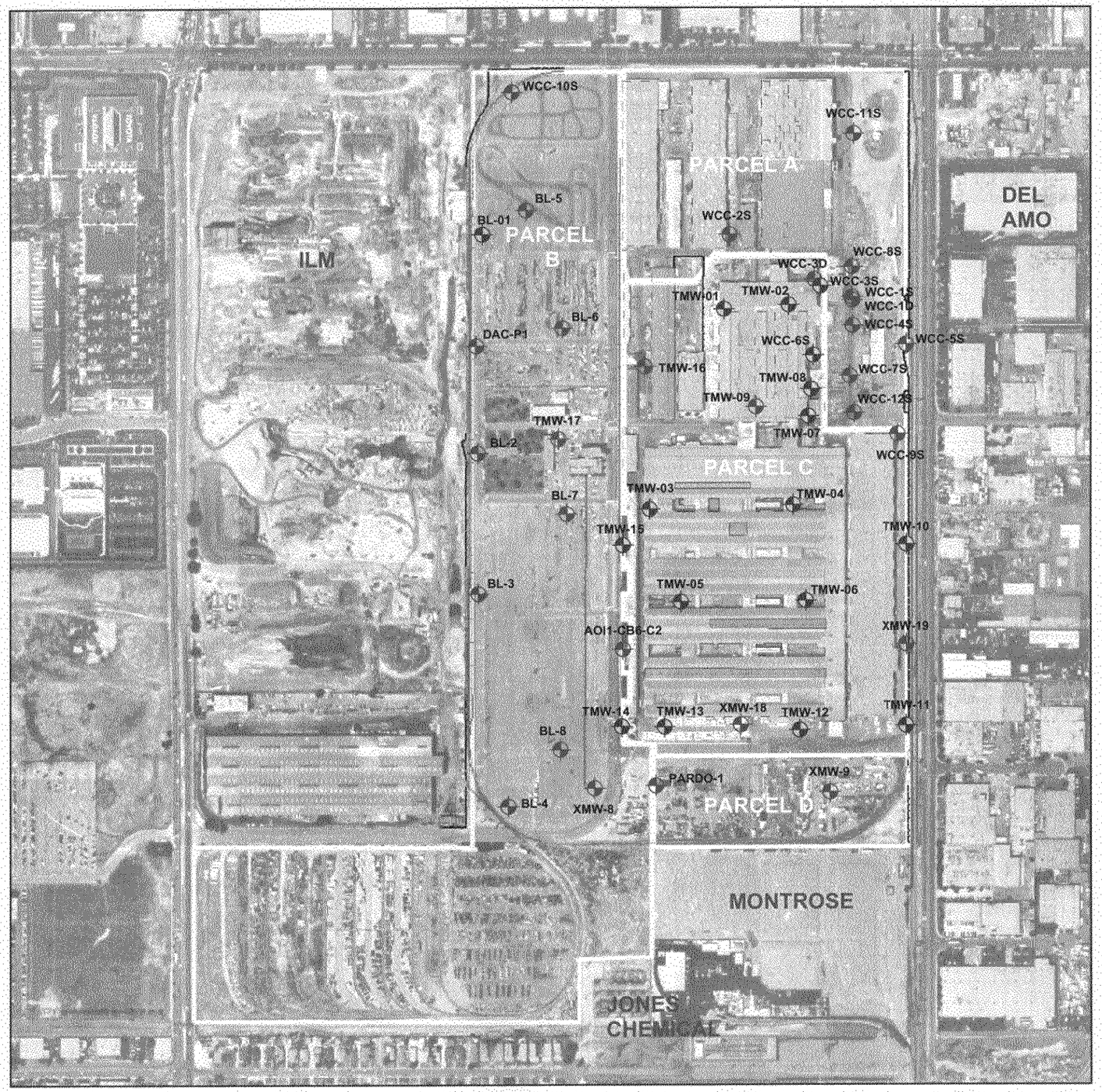
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

PREPARED FOR

BOEING REALTY CORPORATION
LONG BEACH, CALIFORNIA

HALEY & ALDRICH
ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING

Y:\ArcGis\887.002\GWREPORT\JULY2001\FIGURE2 Y:\PDFS\887.002\FIGURE2



N

EXPLANATION

WCC-2S	BOEING GROUND WATER MONITORING WELL
WCC-6S	BOEING GROUND WATER MONITORING WELL SAMPLED DURING JULY 2001

REFERENCE:
AERIAL PHOTO PROVIDED BY GLOBE EXPLORER
AND ORTHORECTIFIED TO NAD 83
CALIFORNIA STATE PLANE ZONE 5 IN FEET

0 300 600 Feet

APPROXIMATE HORIZONTAL SCALE

FIGURE 2

SITE PLAN SHOWING GROUNDWATER MONITORING WELL SAMPLE LOCATIONS SEMI ANNUAL EVENT JULY 2001

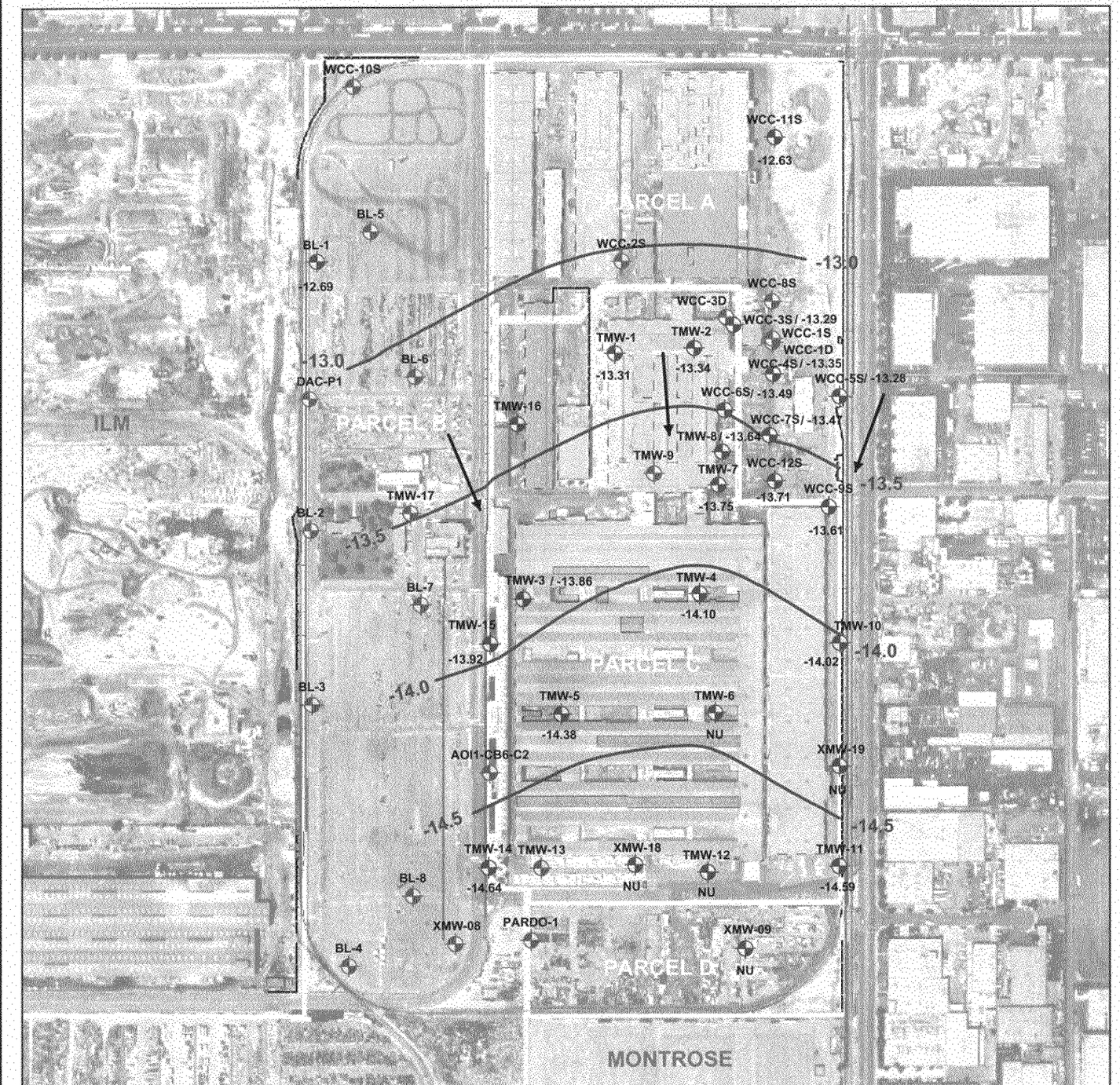
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

PREPARED FOR

BOEING REALTY CORPORATION
LONG BEACH, CALIFORNIA

HALEY & ALDRICH
ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING

Y:\ArcGis\887.002\GWREPORT.JULY2001\FIGURE3 Y:\PDFS\887.002\FIGURE3



N

EXPLANATION

WCC-2S	BOEING GROUND WATER MONITORING WELL
WCC-6S -13.49	BOEING GROUNDWATER MONITORING WELL SHOWING GROUNDWATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL (MSL)
-14.0	LINE OF EQUAL GROUNDWATER ELEVATION IN FEET RELATIVE TO MSL
←	DIRECTION OF GROUNDWATER FLOW

NOTES:
1. CONTOUR INTERVAL = 0.5 FOOT
2. NU = DAMAGED CASING, DATA NOT USED FOR CONTOURING

REFERENCE:
AERIAL PHOTO PROVIDED BY GLOBE EXPLORER
AND ORTHORECTIFIED TO NAD 83
CALIFORNIA STATE PLANE ZONE 5 IN FEET

0 200 400 Feet

APPROXIMATE HORIZONTAL SCALE

FIGURE 3

GROUNDWATER ELEVATION MAP
SEMI ANNUAL EVENT
JULY 2001

FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

PREPARED FOR

BOEING REALTY CORPORATION
LONG BEACH, CALIFORNIA

HALEY & ALDRICH ENGLAND GEOSYSTEM ENVIRONMENTAL ENGINEERING

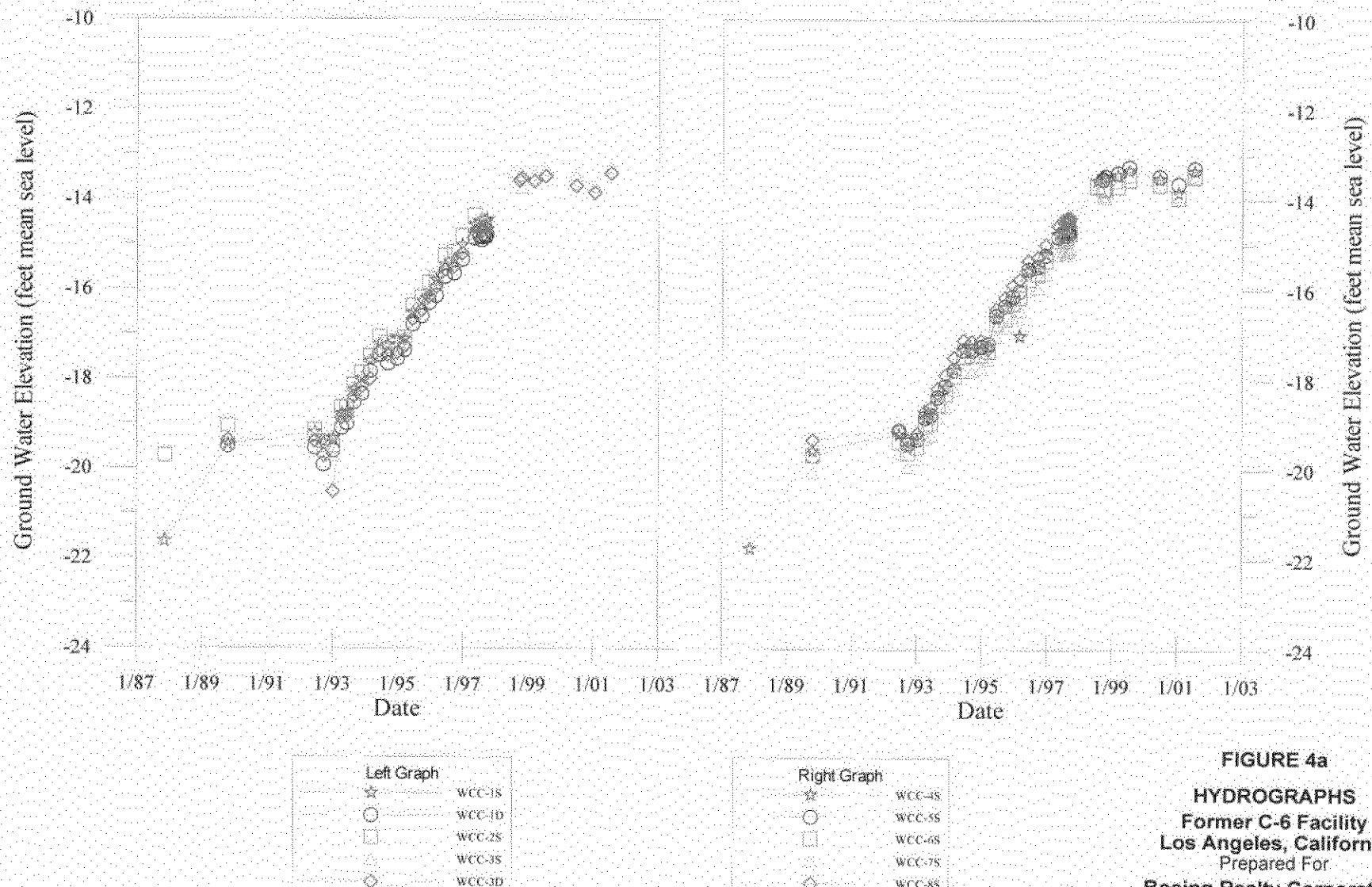


FIGURE 4a

HYDROGRAPHS

Former C-6 Facility
Los Angeles, California

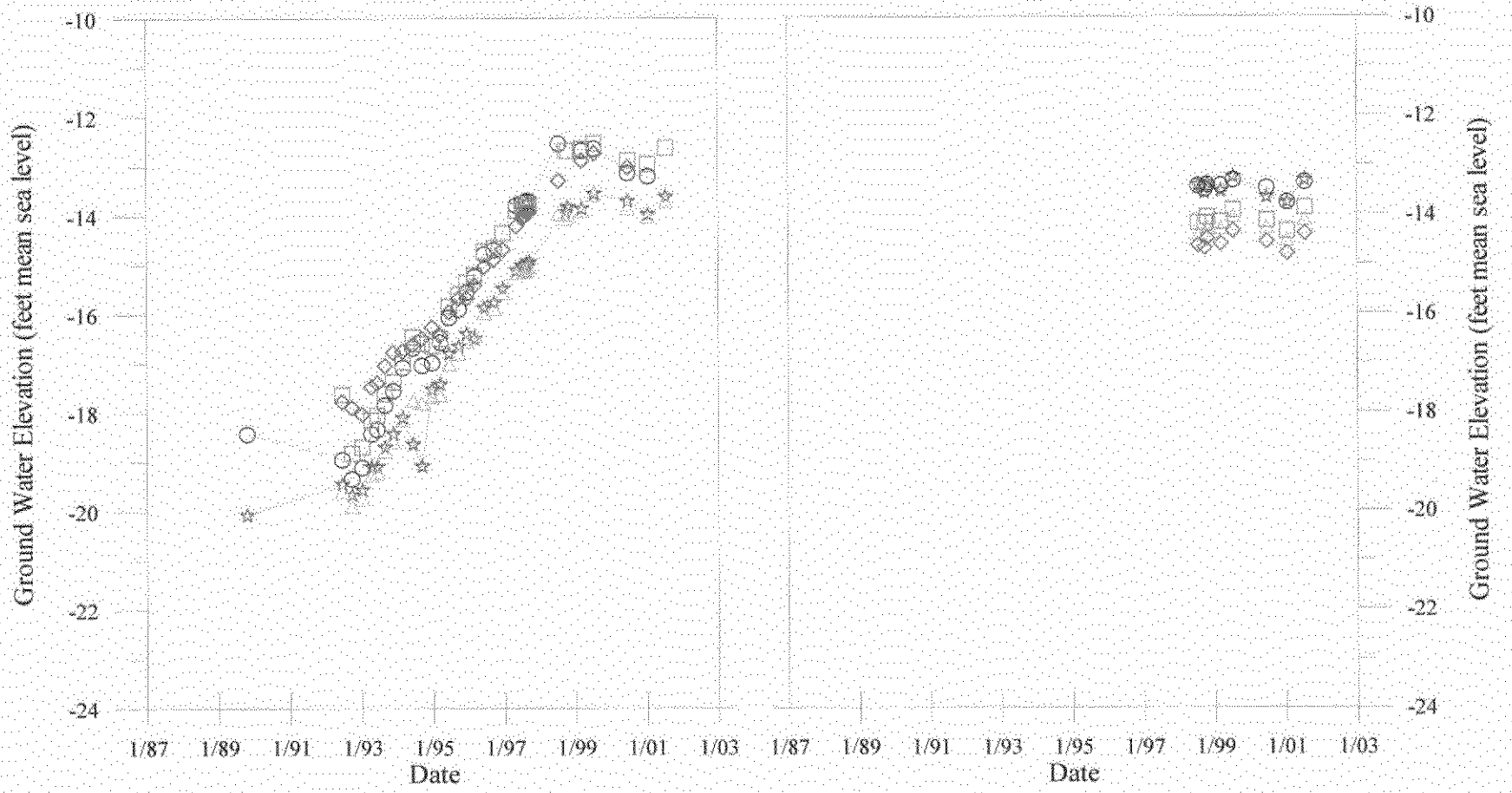
Prepared For

Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

ENGLAND GEOSYSTEM

BOE-C6-0048770



Left Graph
- WCC-9S
- WCC-10S
- WCC-11S
- WCC-12S
- DAC-P1

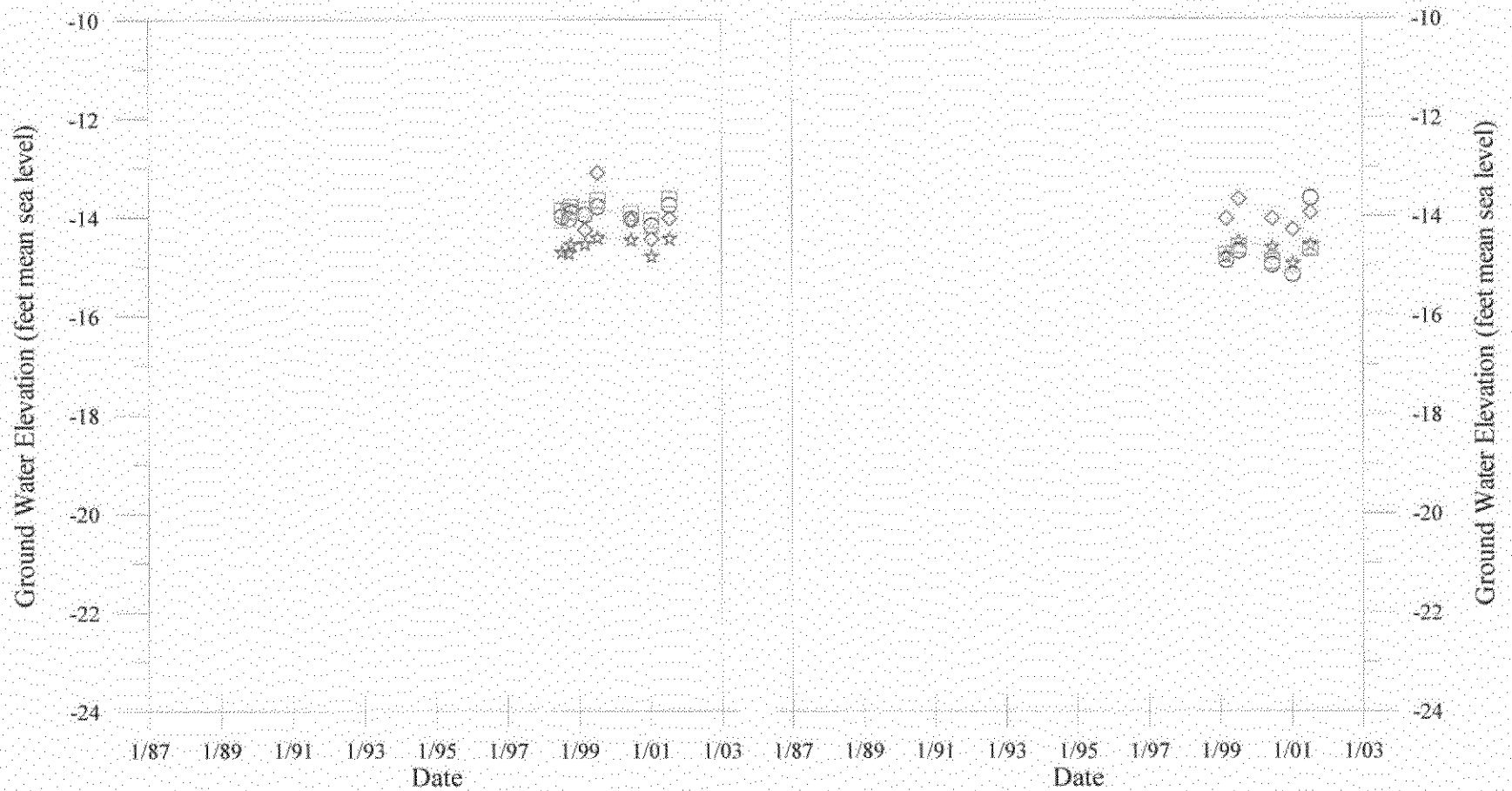
Right Graph
- TMW-1
- TMW-2
- TMW-3
- TMW-4
- TMW-5

FIGURE 4b

HYDROGRAPHS
Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING



Left Graph
- TMW-6
- TMW-7
- TMW-8
- TMW-9
- TMW-10

Right Graph
- TMW-11
- TMW-12
- TMW-13
- TMW-14
- TMW-15

FIGURE 4c

HYDROGRAPHS
Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING

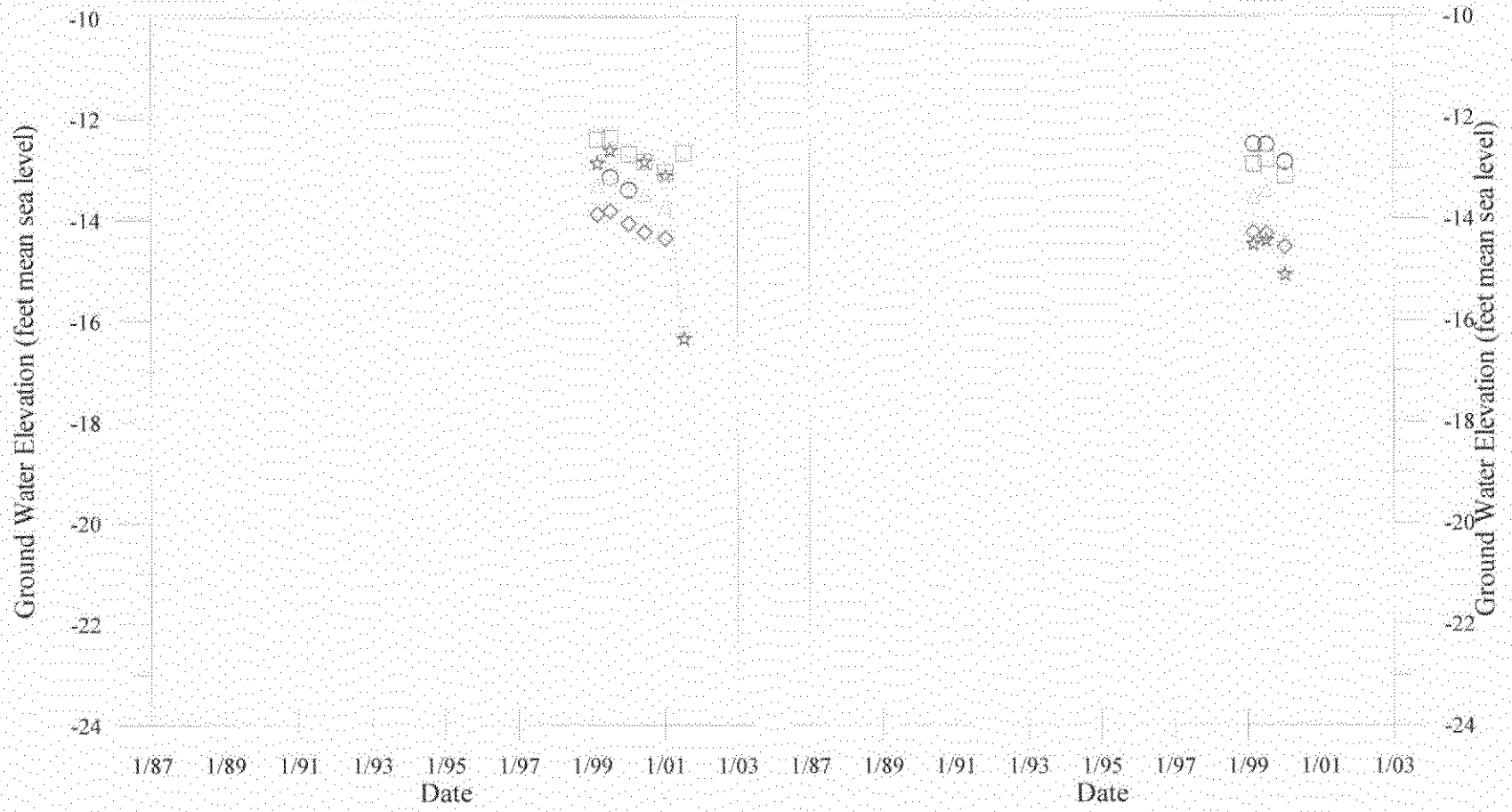


FIGURE 4d

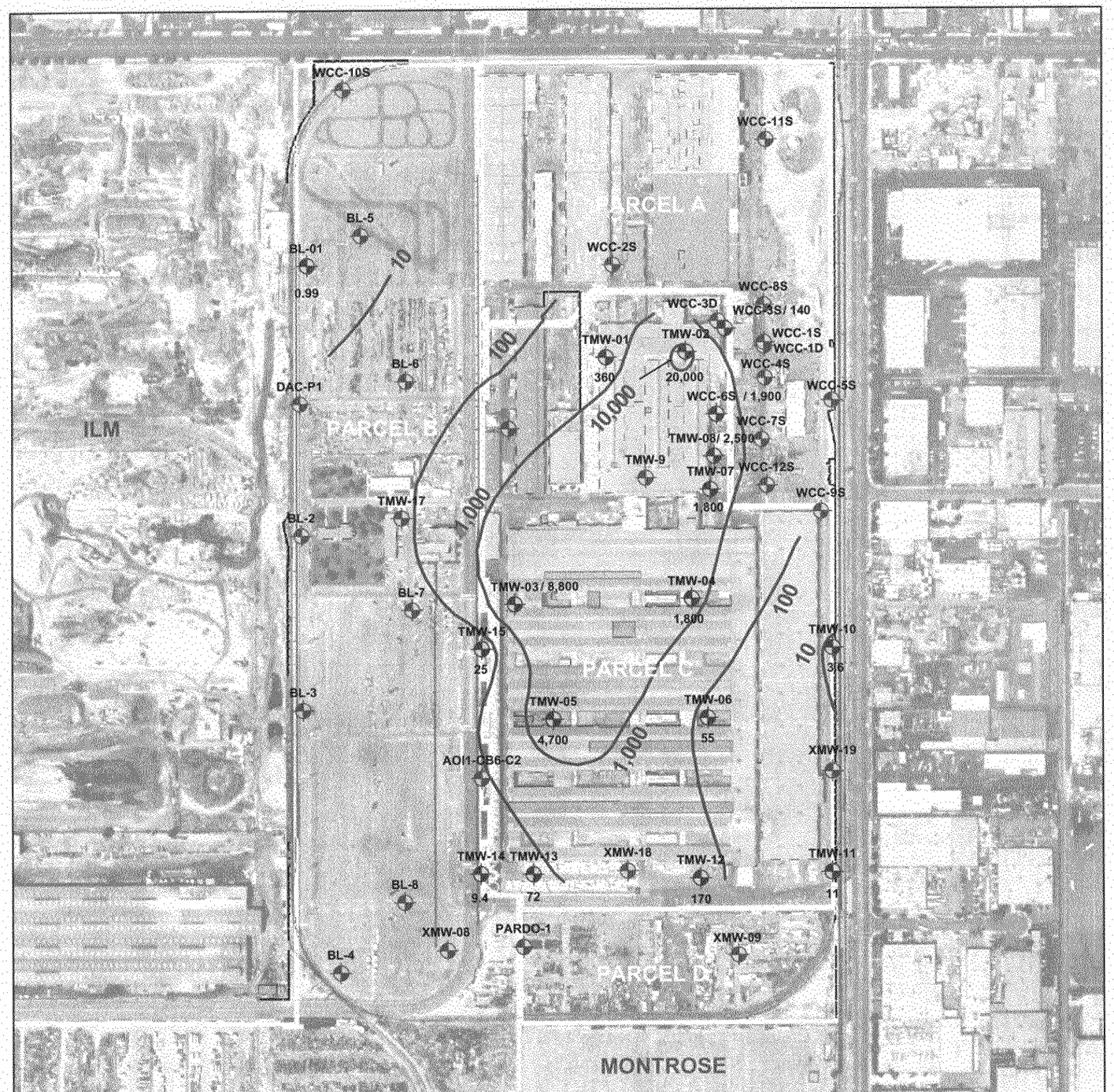
HYDROGRAPHS

Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

ENGLAND GEOSYSTEM
Environmental Engineering

Y:\ArcGis\887.002\GWREPORT\JULY2001\FIGURE5 Y:\PDFS\887.002\FIGURE5



N

EXPLANATION

WCC-2S	BOEING GROUNDWATER MONITORING WELL
WCC-6S 1,900	BOEING GROUNDWATER MONITORING WELL SHOWING TCE CONCENTRATION IN ug/l
100	LINE OF EQUAL TCE CONCENTRATION IN ug/l

NOTE:
1. ISOCONCENTRATION CONTOUR INTERVAL = VARIABLE

REFERENCE:
AERIAL PHOTO PROVIDED BY GLOBE EXPLORER
AND ORTHORECTIFIED TO NAD 83
CALIFORNIA STATE PLANE ZONE 5 IN FEET

0 200 400 Feet

APPROXIMATE HORIZONTAL SCALE

FIGURE 5

TCE DISTRIBUTION IN GROUNDWATER
SEMI ANNUAL EVENT
JULY 2001

FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

PREPARED FOR

BOEING REALTY CORPORATION
LONG BEACH, CALIFORNIA

HALEY & ALDRICH ENGLAND GEOSYSTEM ENVIRONMENTAL ENGINEERING

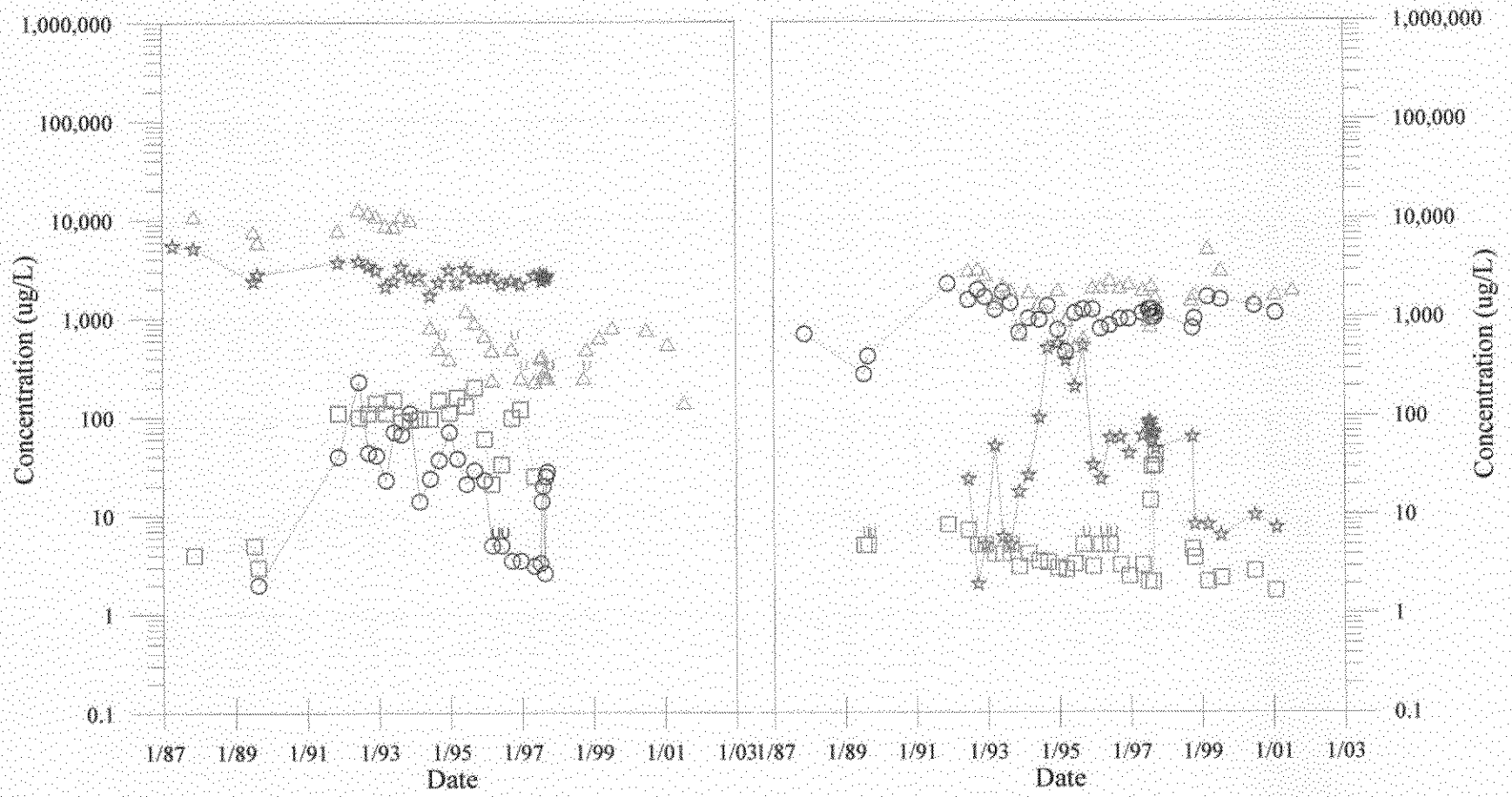


FIGURE 6a

TCE CONCENTRATION VS. TIME

Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

U = Not Detected

HALEY & ALDRICH

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING

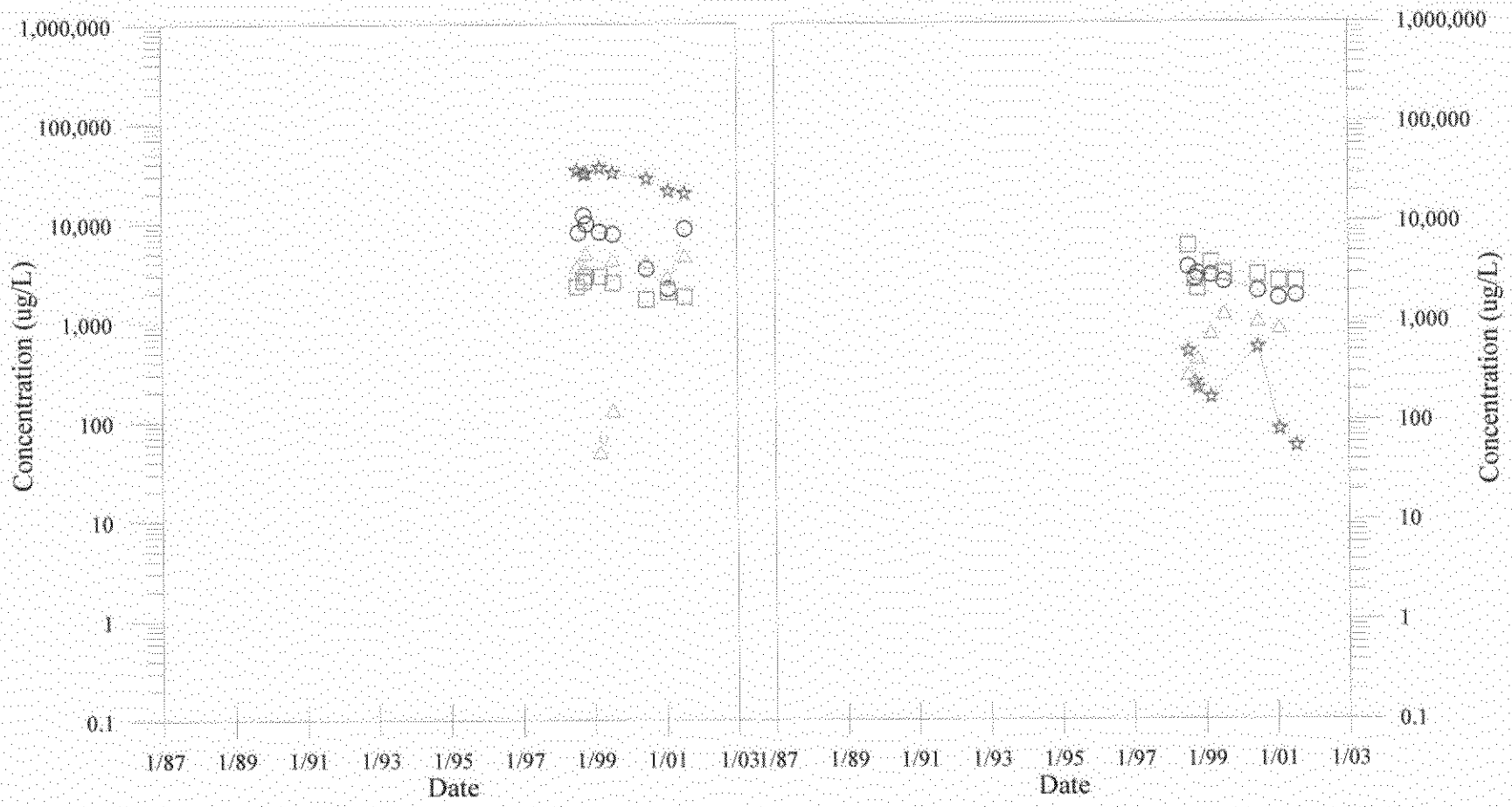


FIGURE 6c

TCE CONCENTRATION VS. TIME

Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

U = Not Detected

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING

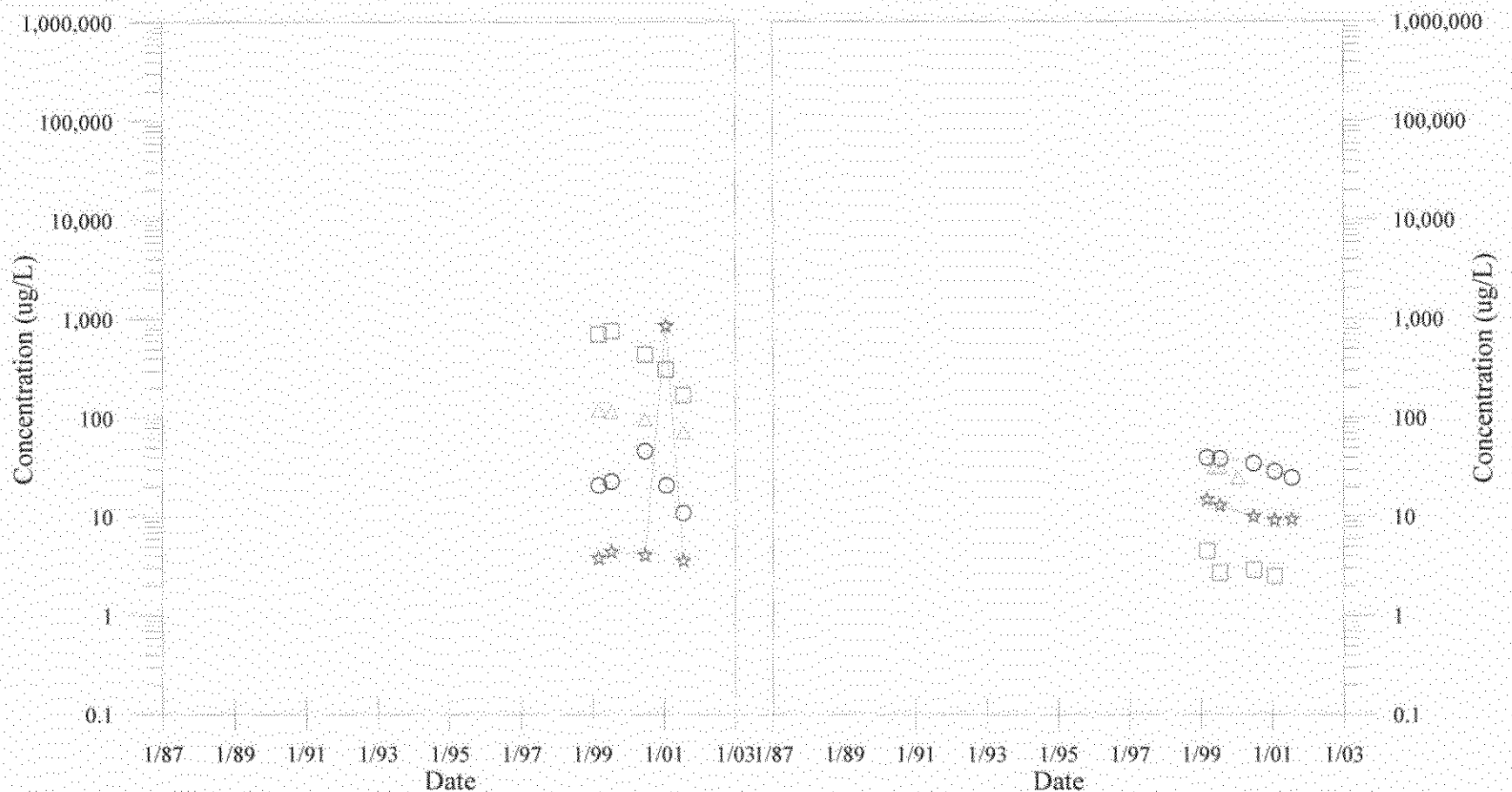


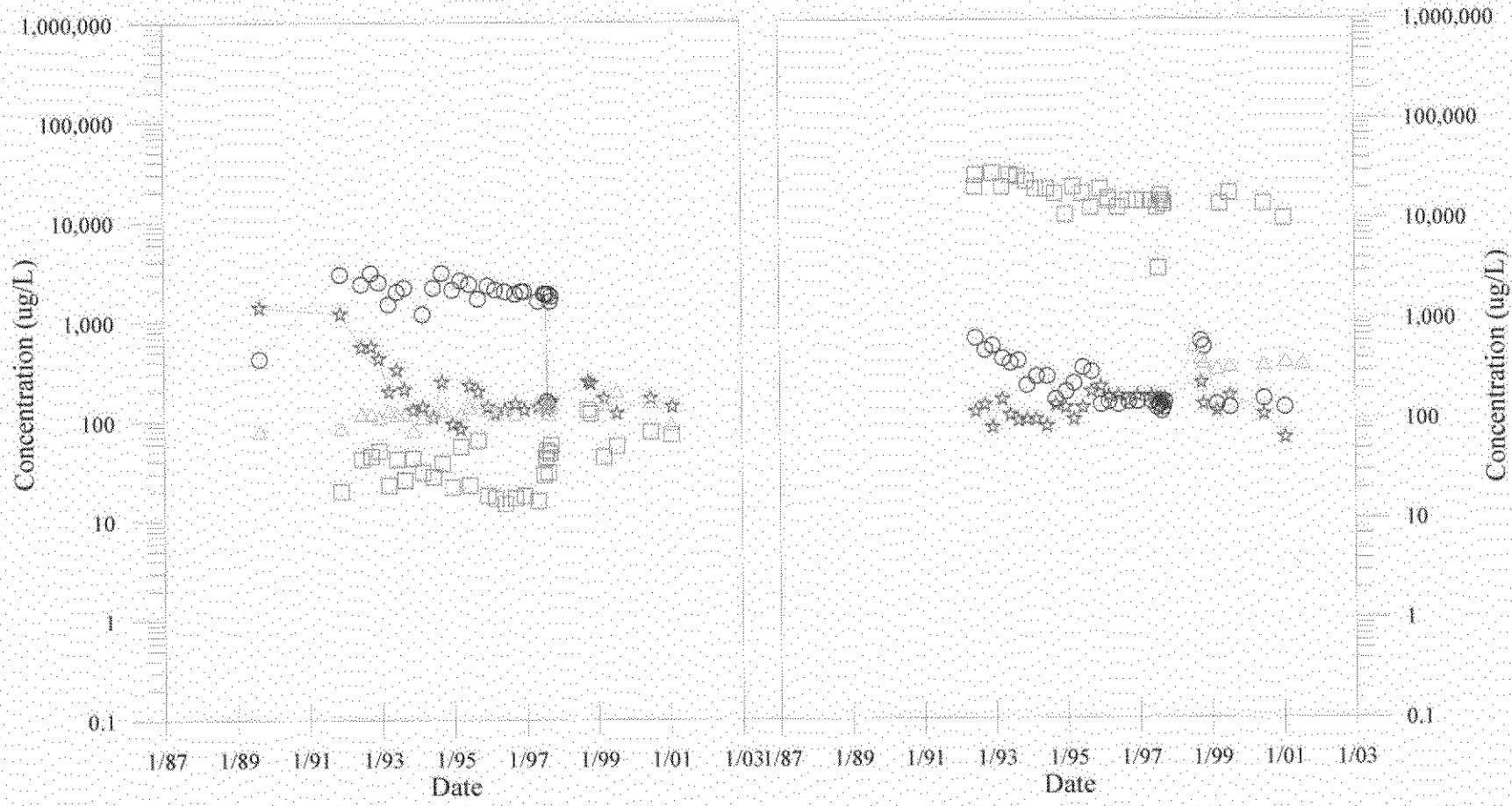
FIGURE 6d

TCE CONCENTRATION VS. TIME
Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

U = Not Detected

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING



Left Graph
- WCC-7S
- WCC-8S
- WCC-9S
- WCC-10S

Right Graph
- WCC-11S
- WCC-12S
- DAC-P1
- TMW-1

U = Not Detected

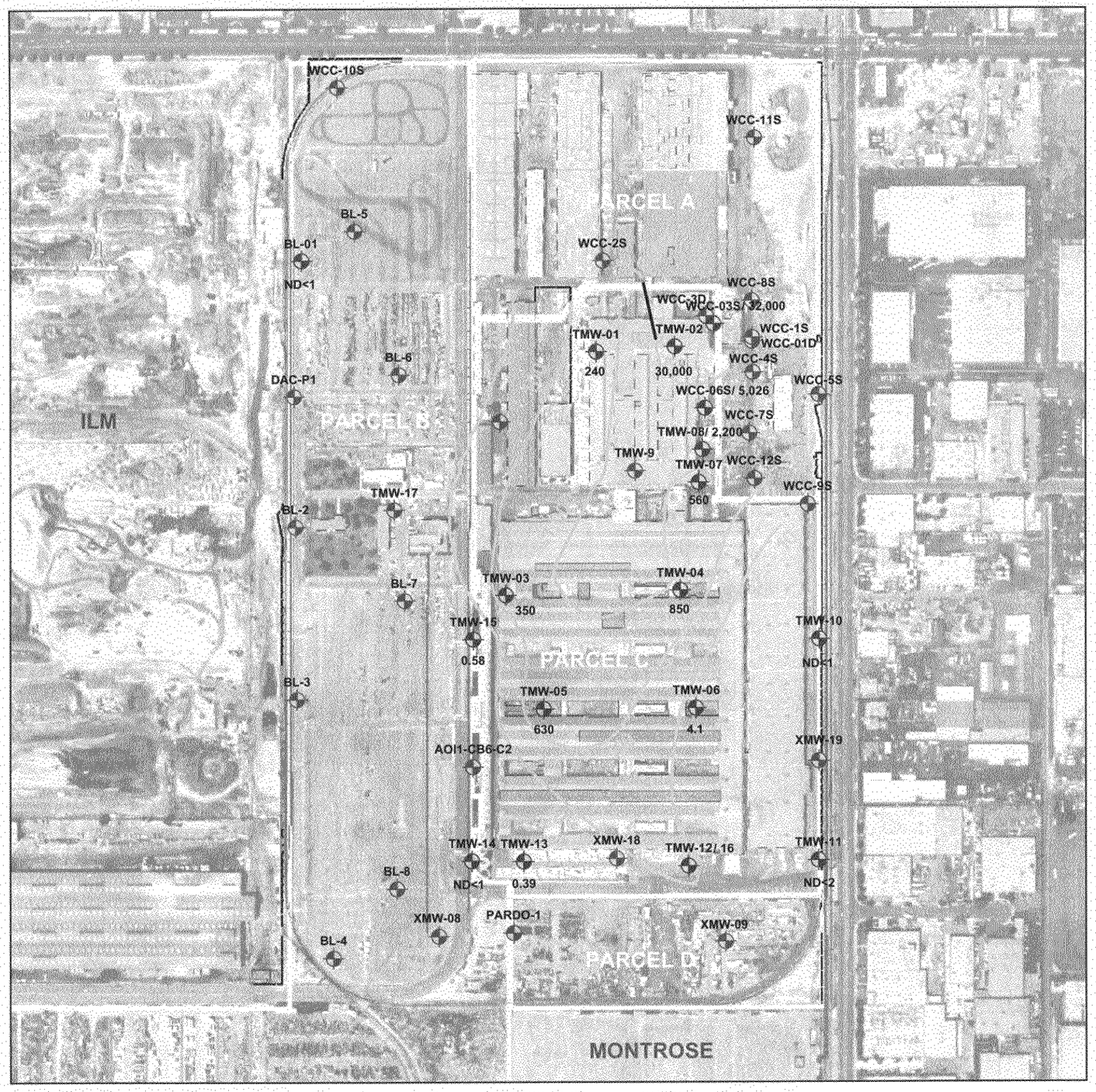
FIGURE 6b

TCE CONCENTRATION VS. TIME
Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING

Y:\ArcGis\887.002\GWREPORT\JULY2001\FIGURE7 Y:\PDFS\887.002\FIGURE7



N

EXPLANATION

WCC-2S	BOEING GROUNDWATER MONITORING WELL
WCC-6S 5,026	BOEING GROUNDWATER MONITORING WELL SHOWING 1,1-DCE CONCENTRATION IN ug/l
100	LINE OF EQUAL 1,1-DCE CONCENTRATION IN ug/l

NOTE:
1. ISOCONCENTRATION CONTOUR INTERVAL = VARIABLE

REFERENCE:
AERIAL PHOTO PROVIDED BY GLOBE EXPLORER AND ORTHORECTIFIED TO NAD 83 CALIFORNIA STATE PLANE ZONE 5 IN FEET

0 200 400 Feet

APPROXIMATE HORIZONTAL SCALE

FIGURE 7

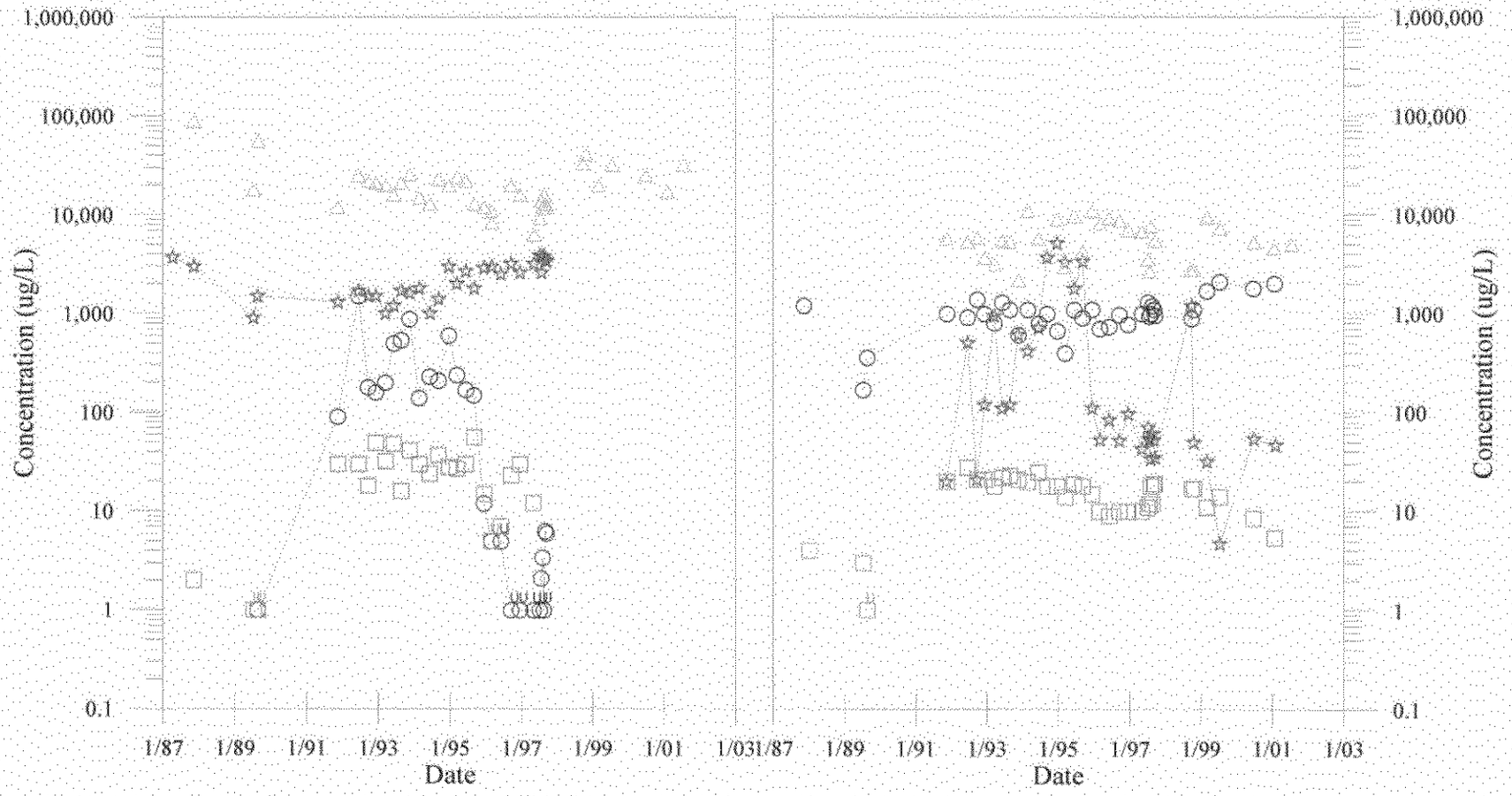
1,1-DCE DISTRIBUTION IN GROUNDWATER
SEMI ANNUAL EVENT
JULY 2001

FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

PREPARED FOR

BOEING REALTY CORPORATION
LONG BEACH, CALIFORNIA

HALEY & ALDRICH
ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING



Left Graph
- WCC-1S
- WCC-1D
- WCC-2S
- WCC-3S

Right Graph
- WCC-3D
- WCC-4S
- WCC-5S
- WCC-6S

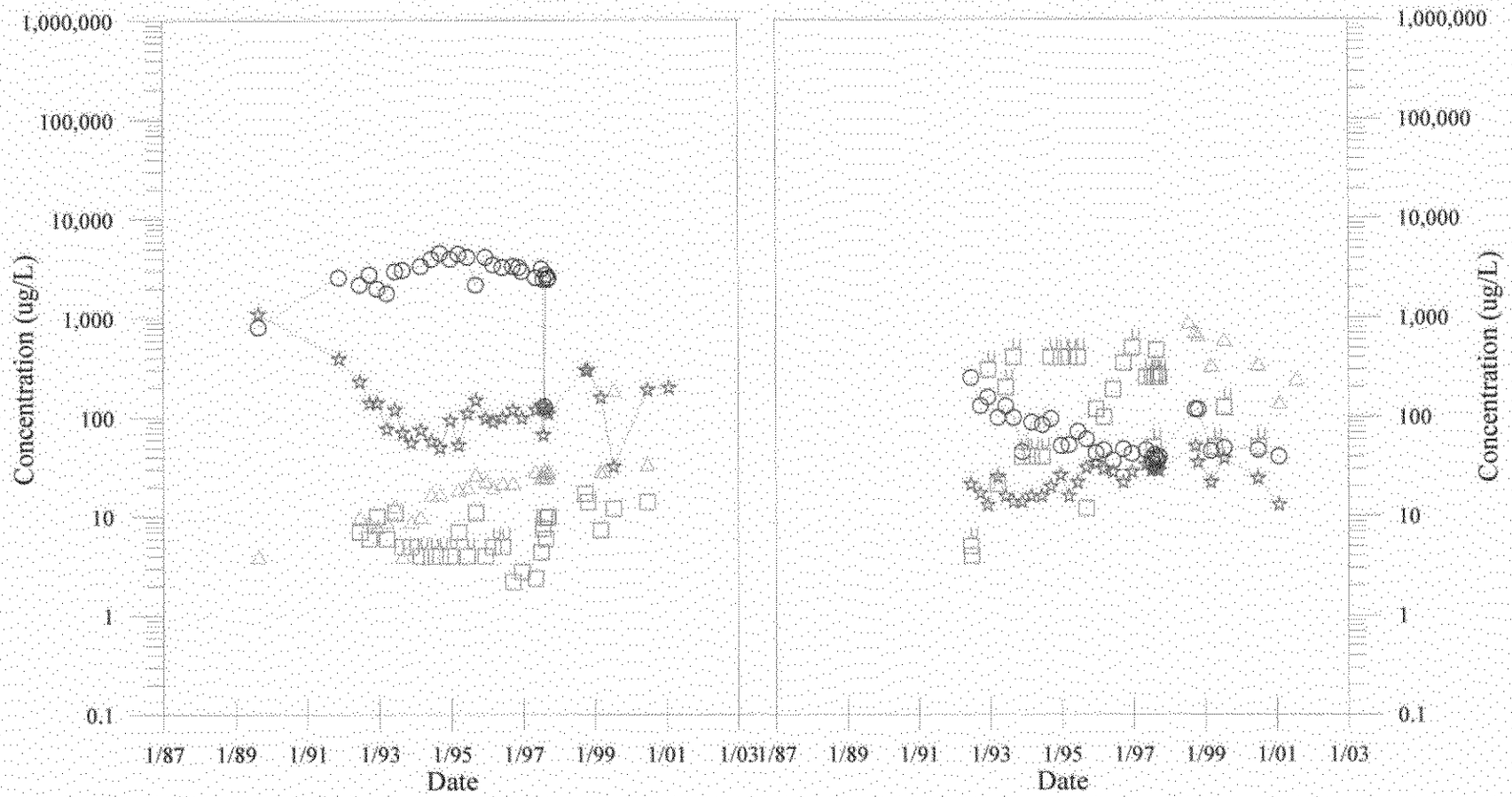
U = Not Detected

FIGURE 8a

1,1-DCE CONCENTRATION VS. TIME
Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING



Left Graph
- WCC-7S
- WCC-8S
- WCC-9S
- WCC-10S

Right Graph
- WCC-11S
- WCC-12S
- DAC-P1
- TMW-1

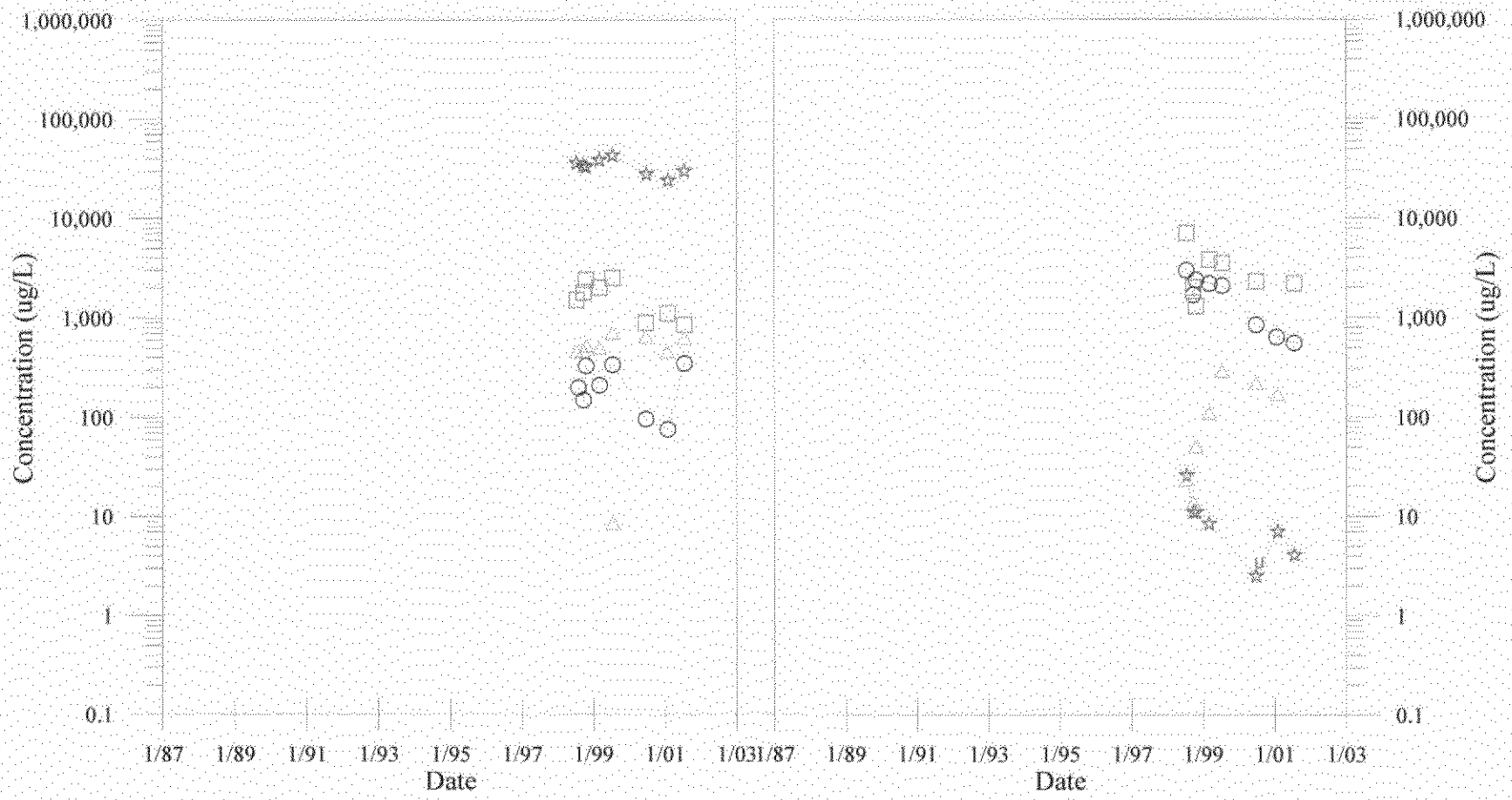
FIGURE 8b

1,1-DCE CONCENTRATION VS. TIME
Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

U = Not Detected

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING



Left Graph
- TMW-2
- TMW-3
- TMW-4
- TMW-5

Right Graph
- TMW-6
- TMW-7
- TMW-8
- TMW-9

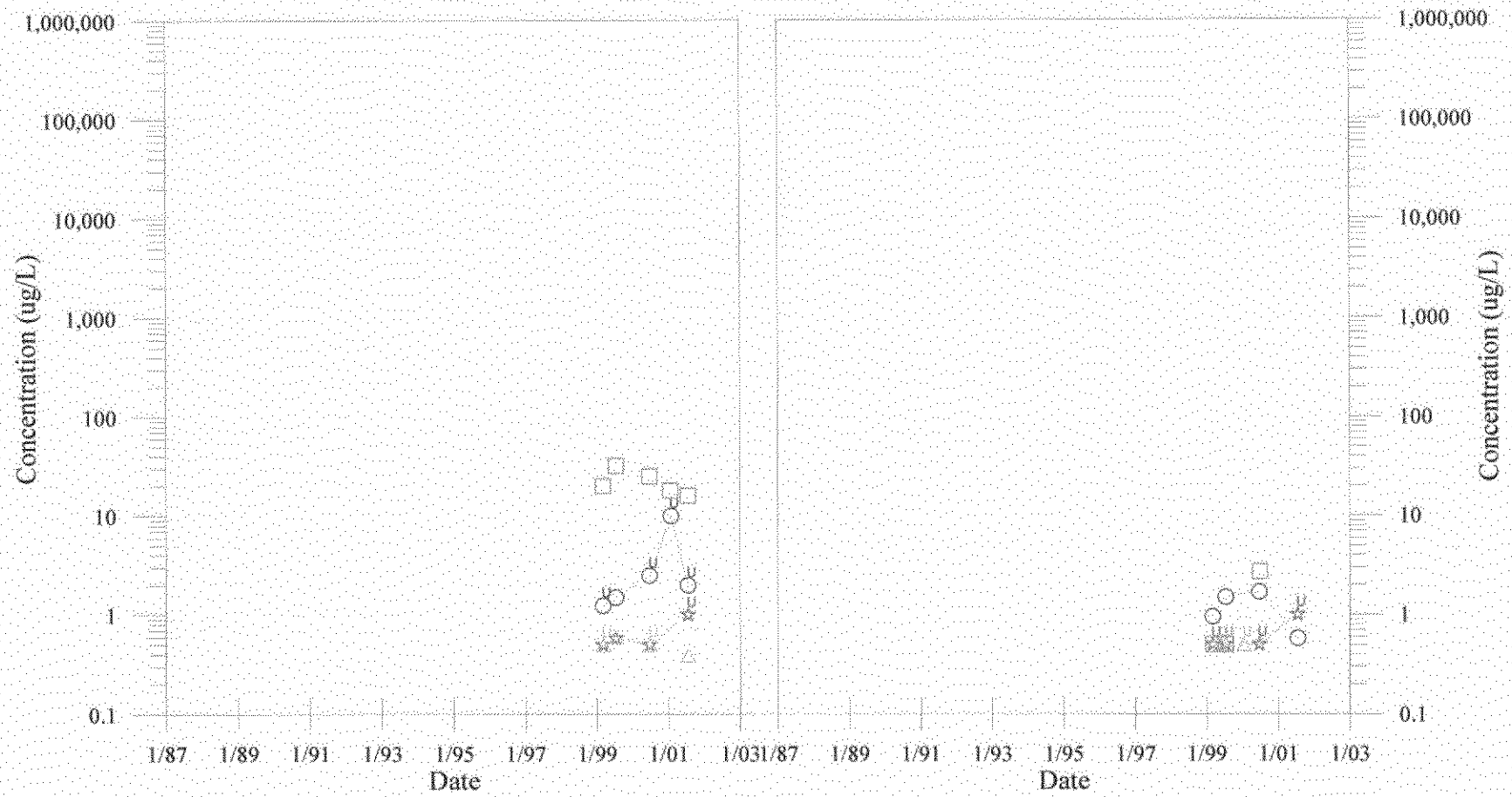
FIGURE 8c

1,1-DCE CONCENTRATION VS. TIME
Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

U = Not Detected

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING



Left Graph
- TMW-10
- TMW-11
- TMW-12
- TMW-13

Right Graph
- TMW-14
- TMW-15
- TMW-16
- TMW-17

FIGURE 8d

1,1-DCE CONCENTRATION VS. TIME

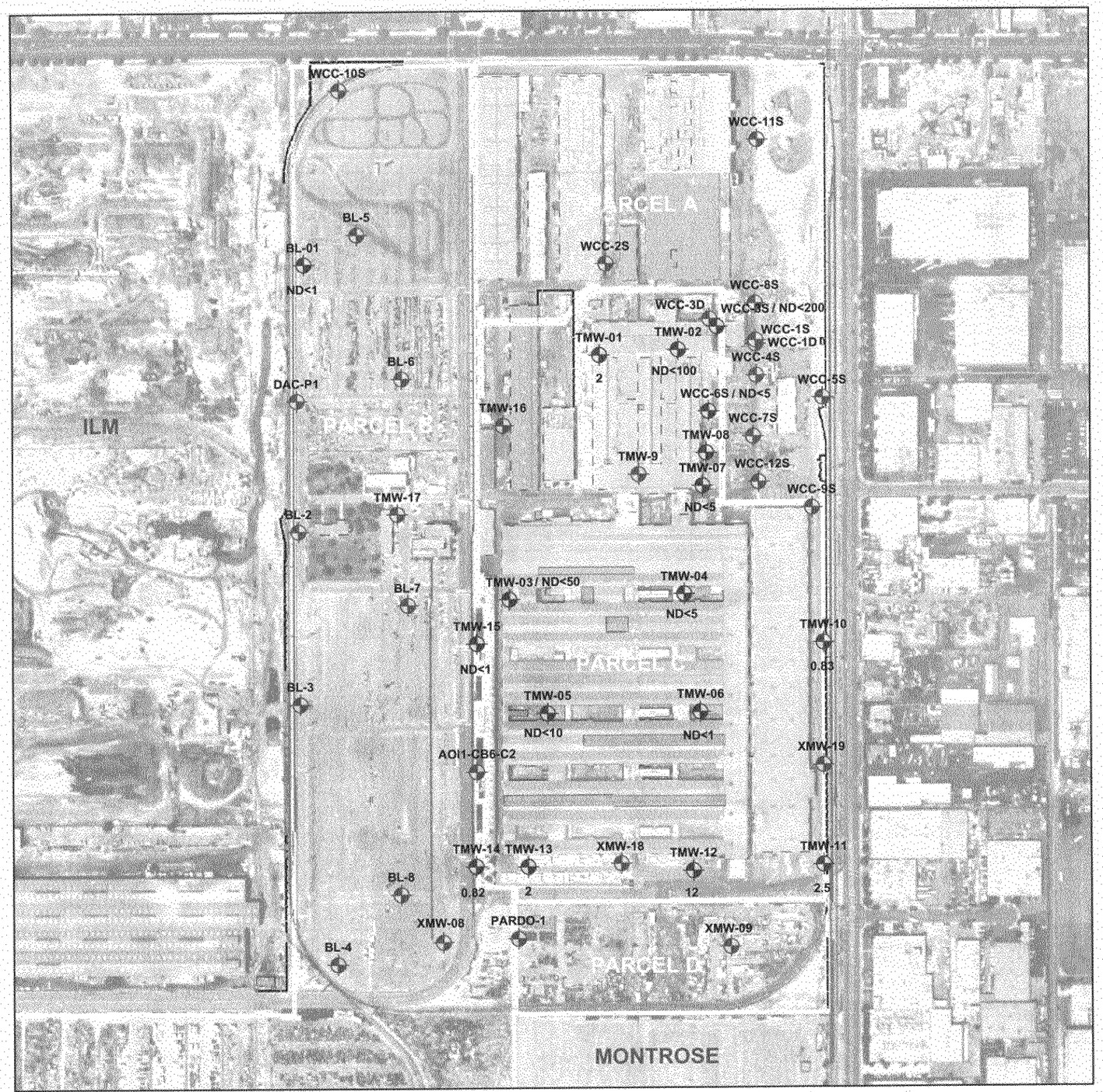
Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

U = Not Detected

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING

Y:\ArcGis\887.002\GWREPORT\JULY2001\FIGURE9 Y:\PDFS\887.002\FIGURE9



N

EXPLANATION

WCC-2S — BOEING GROUNDWATER MONITORING WELL

WCC-6S / ND<5 — BOEING GROUNDWATER MONITORING WELL SHOWING PCE CONCENTRATION IN ug/l

REFERENCE:
AERIAL PHOTO PROVIDED BY GLOBE EXPLORER
AND ORTHORECTIFIED TO NAD 83
CALIFORNIA STATE PLANE ZONE 5 IN FEET

0 200 400 Feet

APPROXIMATE HORIZONTAL SCALE

FIGURE 9

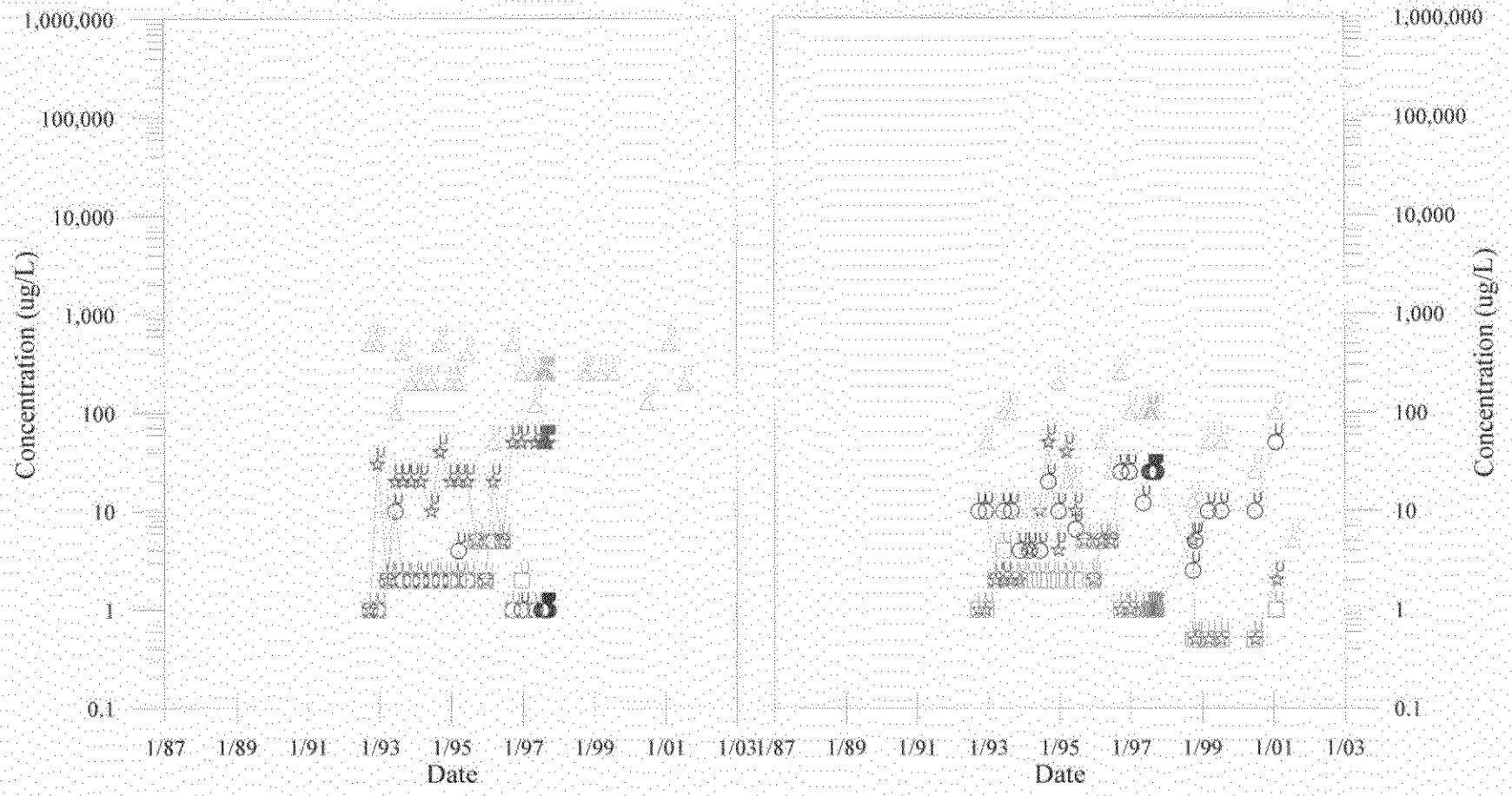
PCE DISTRIBUTION IN GROUNDWATER
SEMI ANNUAL EVENT
JULY 2001

FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

PREPARED FOR

BOEING REALTY CORPORATION
LONG BEACH, CALIFORNIA

HALEY & ALDRICH
ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING



Left Graph
- WCC-1S
- WCC-1D
- WCC-2S
- WCC-3S

Right Graph
- WCC-3D
- WCC-4S
- WCC-5S
- WCC-6S

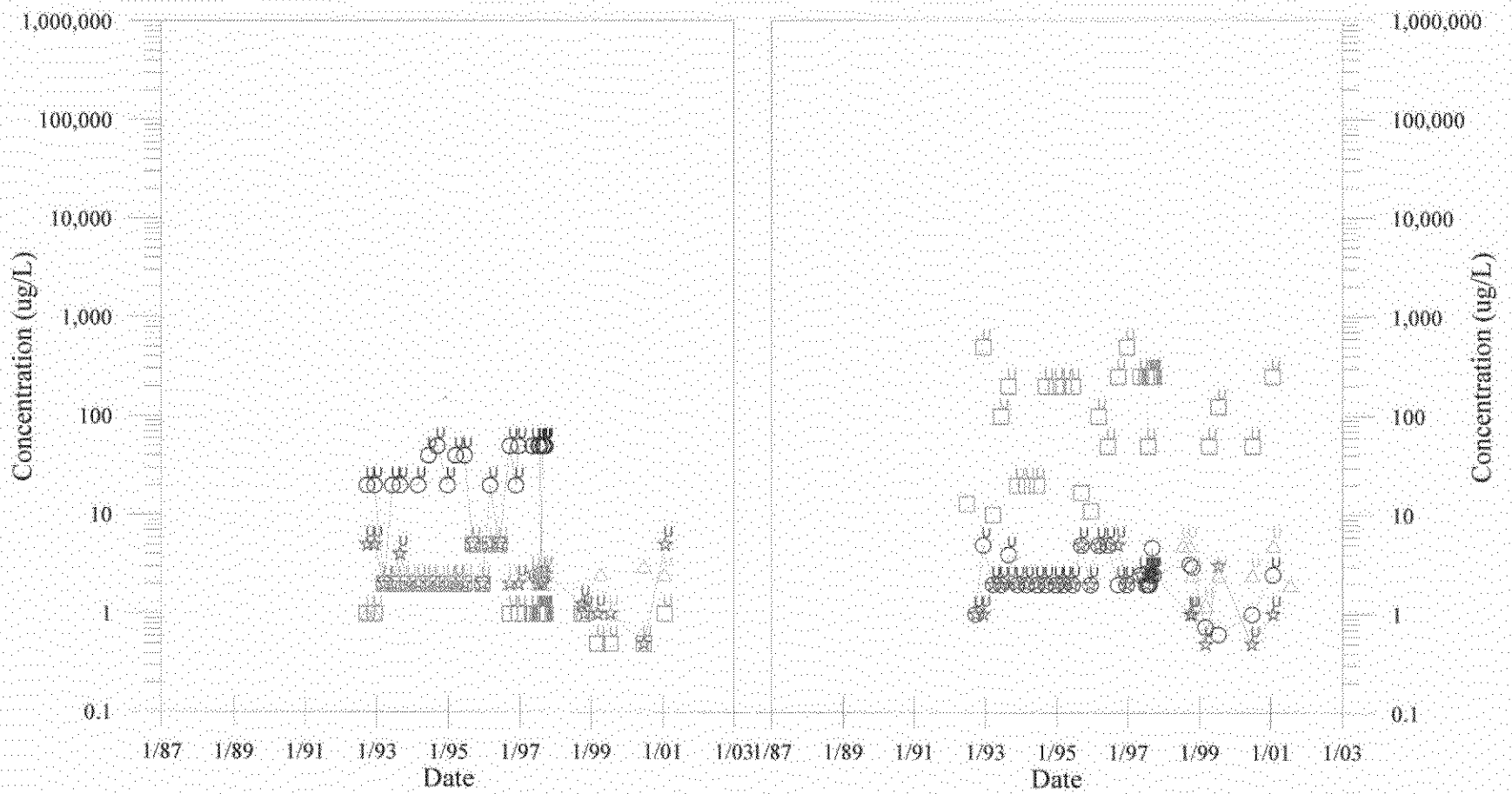
U = Not Detected

FIGURE 10a

PCE CONCENTRATION VS. TIME
Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

ENGLAND GEOSYSTEM
ENVIRONMENTAL CONSULTANTS



Left Graph
- WCC-7S
- WCC-8S
- WCC-9S
- WCC-10S

Right Graph
- WCC-11S
- WCC-12S
- DAC-P1
- TMW-1

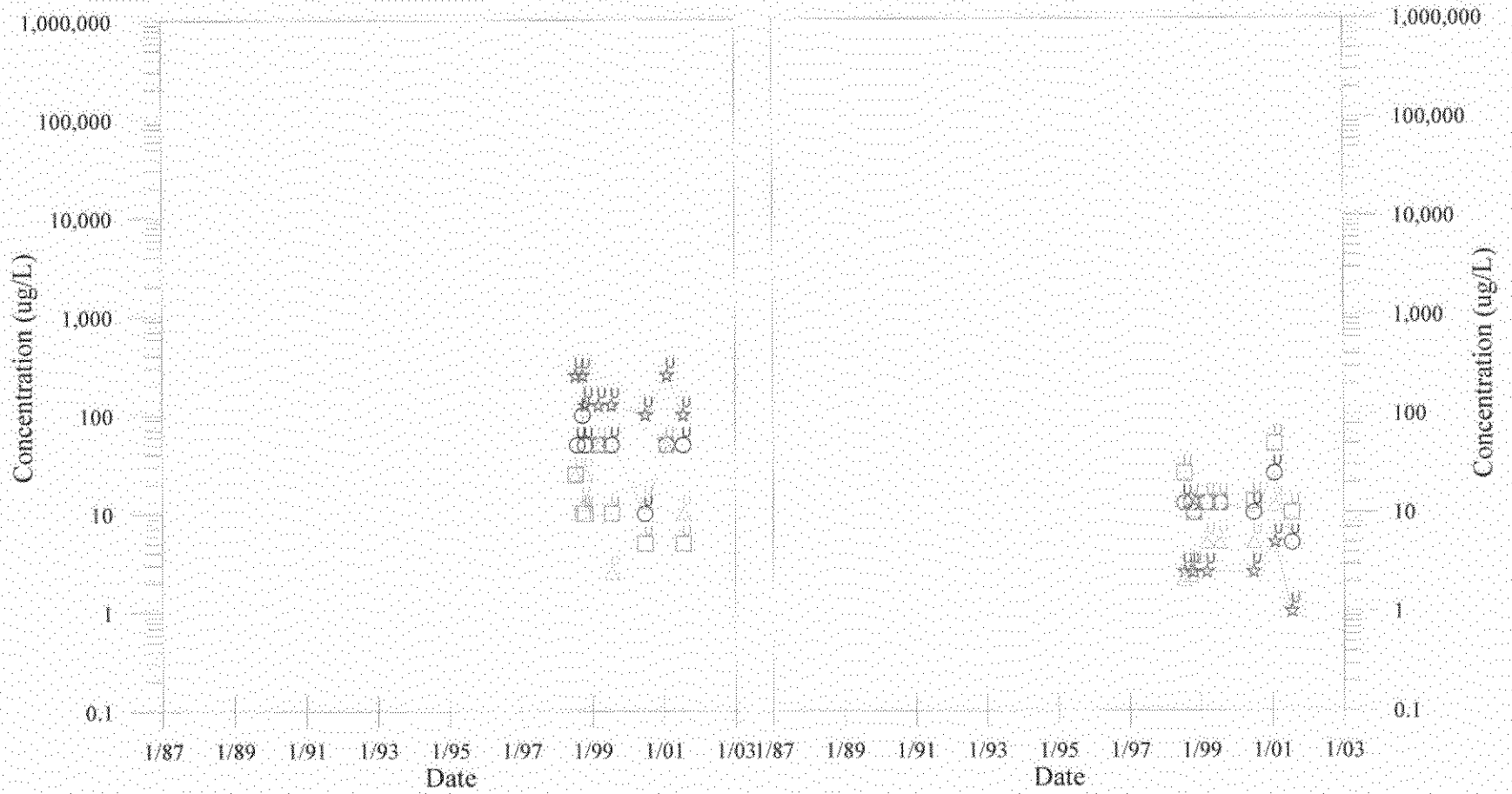
U = Not Detected

FIGURE 10b

PCE CONCENTRATION VS. TIME
Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING



Left Graph
- TMW-2
- TMW-3
- TMW-4
- TMW-5

Right Graph
- TMW-6
- TMW-7
- TMW-8
- TMW-9

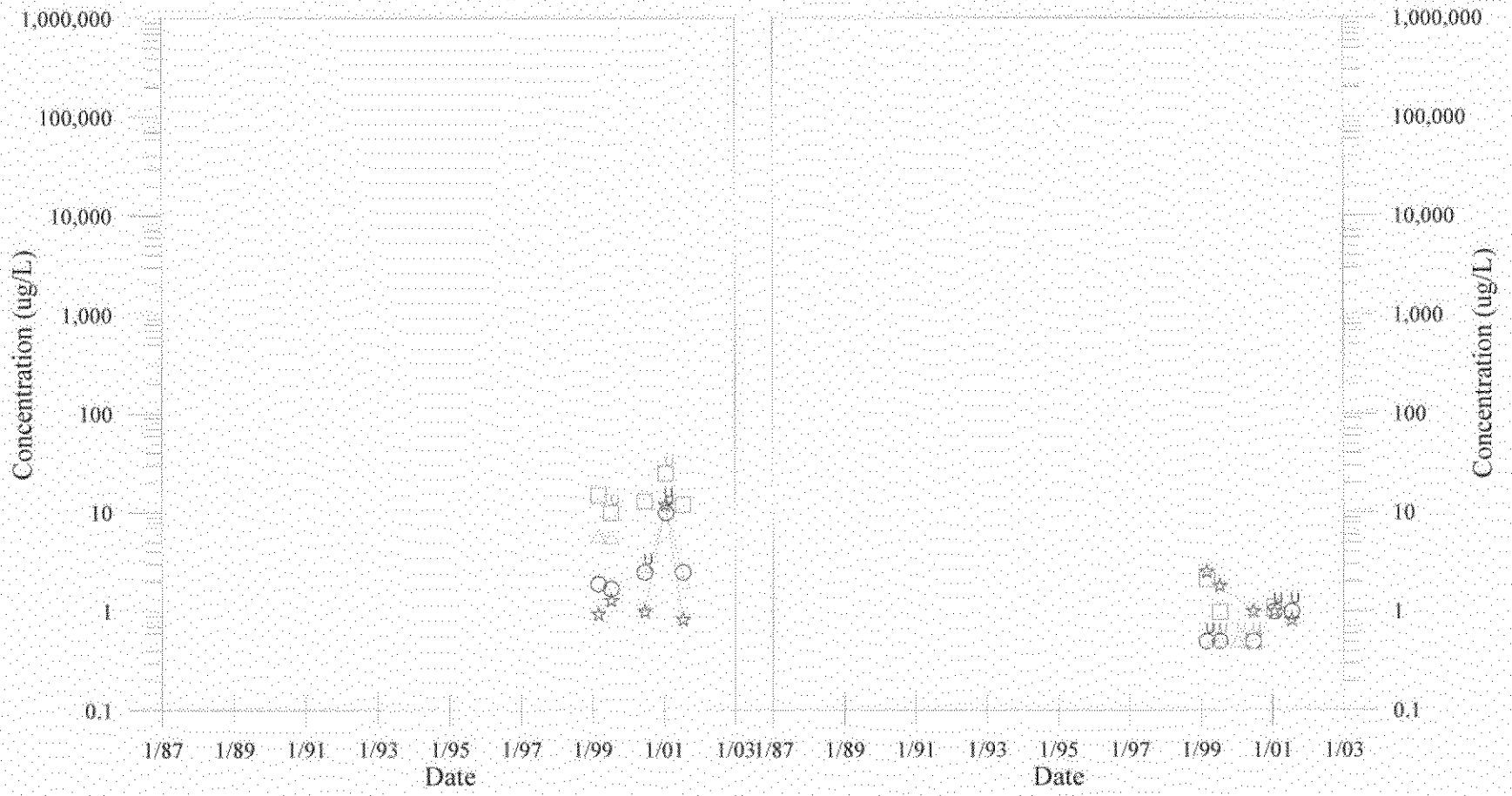
FIGURE 10c

PCE CONCENTRATION VS. TIME
Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

U = Not Detected

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING



Left Graph
- TMW-10
- TMW-11
- TMW-12
- TMW-13

Right Graph
- TMW-14
- TMW-15
- TMW-16
- TMW-17

FIGURE 10d

PCE CONCENTRATION VS. TIME

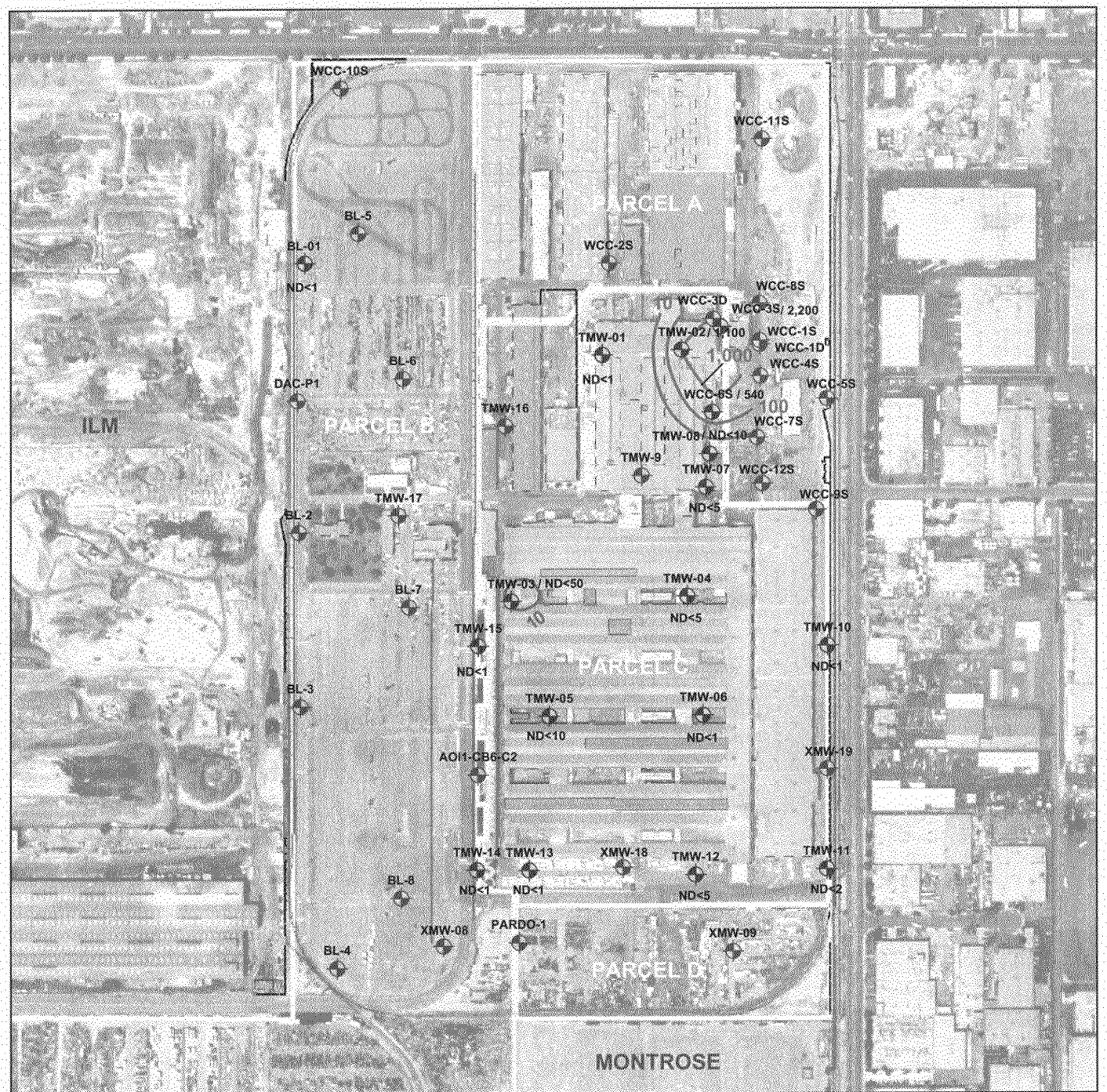
Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

U = Not Detected

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING

Y:\ArcGis\887.002\GWREPORTJULY2001\FIGURE11 Y:\PDFS\887.002\FIGURE11



N

EXPLANATION

WCC-2S	BOEING GROUNDWATER MONITORING WELL
WCC-6S 540	BOEING GROUNDWATER MONITORING WELL SHOWING 1,1,1-TCA CONCENTRATION IN ug/l
100	LINE OF EQUAL 1,1,1-TCA CONCENTRATION IN ug/l

NOTE:
1. ISOCONCENTRATION CONTOUR INTERVAL = VARIABLE

REFERENCE:
AERIAL PHOTO PROVIDED BY GLOBE EXPLORER
AND ORTHORECTIFIED TO NAD 83
CALIFORNIA STATE PLANE ZONE 5 IN FEET

0 200 400 Feet

APPROXIMATE HORIZONTAL SCALE

FIGURE 11

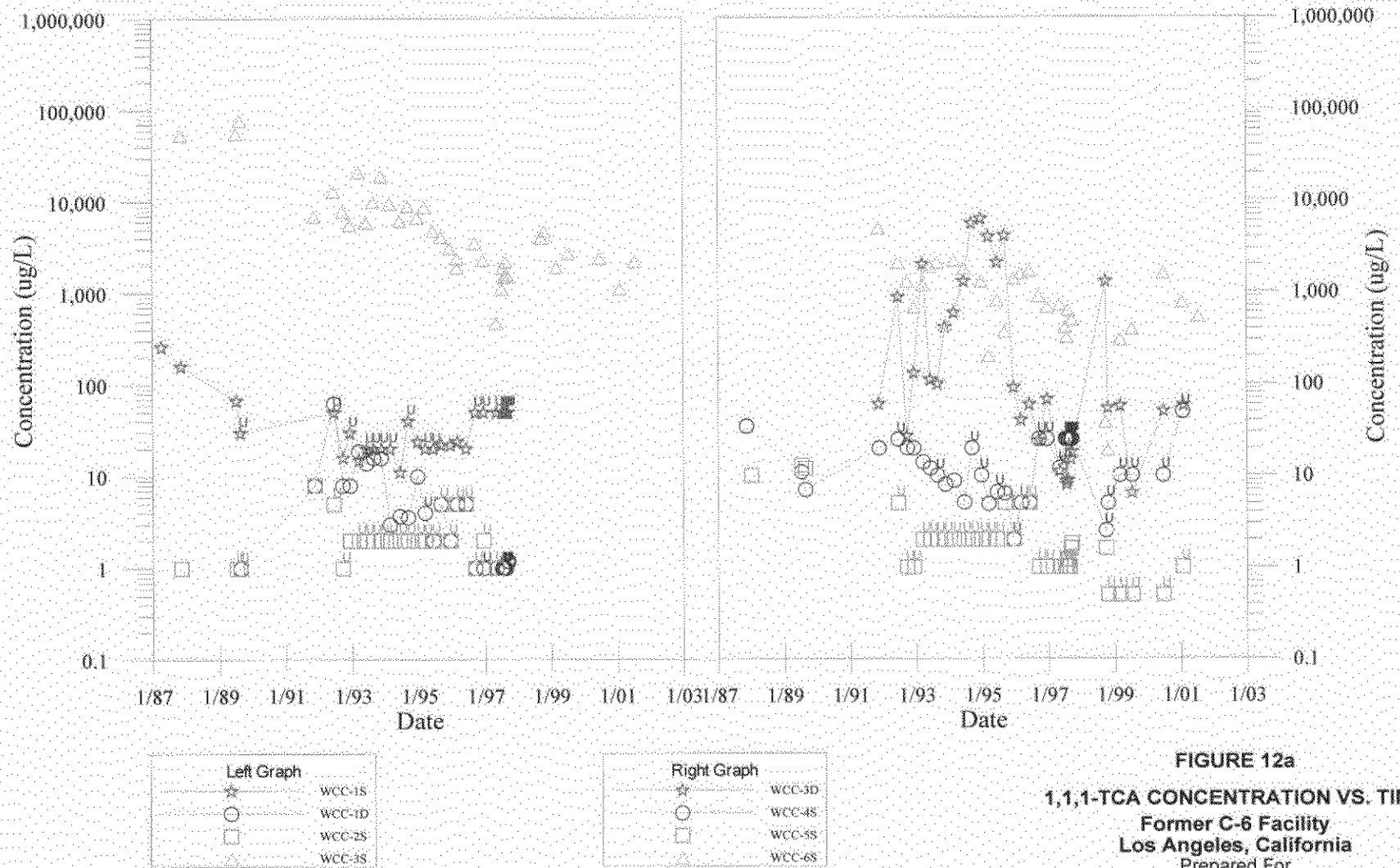
1,1,1-TCA DISTRIBUTION IN GROUNDWATER
SEMI ANNUAL EVENT
JULY 2001

FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

PREPARED FOR

BOEING REALTY CORPORATION
LONG BEACH, CALIFORNIA

HALEY & ALDRICH ENGLAND GEOSYSTEM ENVIRONMENTAL ENGINEERING



U = Not Detected

FIGURE 12a

1,1,1-TCA CONCENTRATION VS. TIME

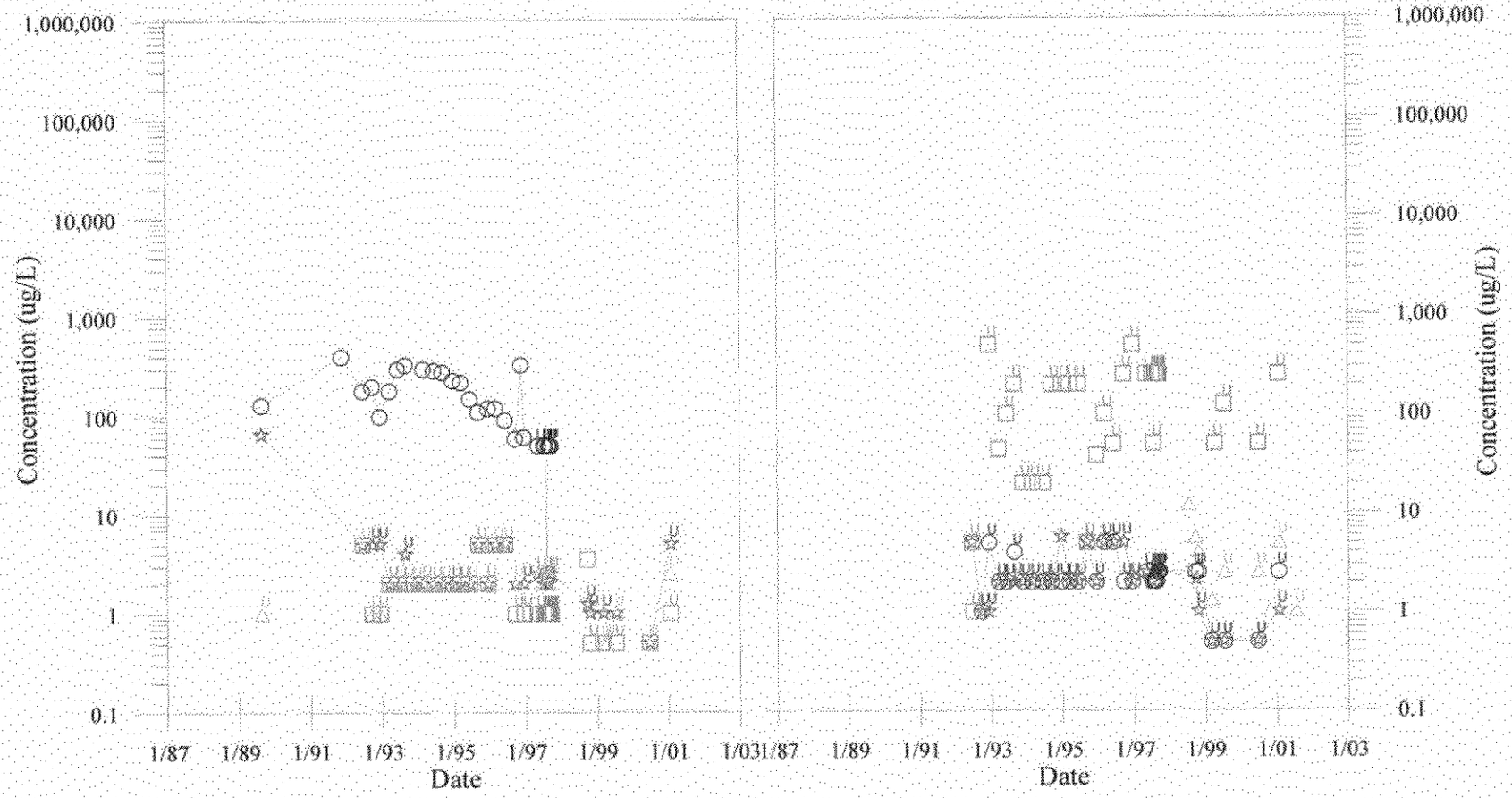
Former C-6 Facility
Los Angeles, California

Prepared For

Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING



Left Graph
- WCC-7S
- WCC-8S
- WCC-9S
- WCC-10S

Right Graph
- WCC-11S
- WCC-12S
- DAC-P1
- TMW-1

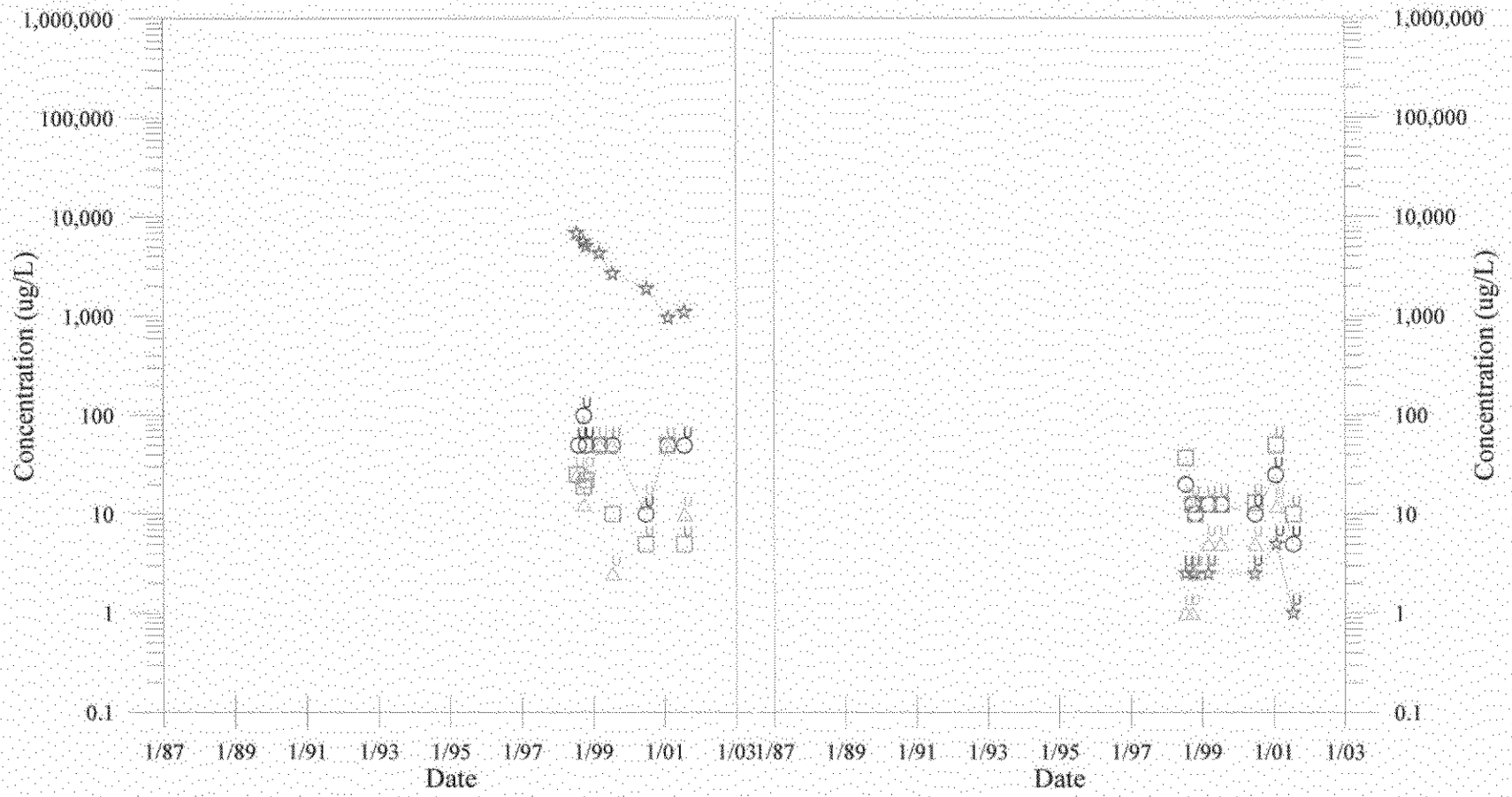
U = Not Detected

FIGURE 12b

1,1,1-TCA CONCENTRATION VS. TIME
Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING



Left Graph
- TMW-2
- TMW-3
- TMW-4
- TMW-5

Right Graph
- TMW-6
- TMW-7
- TMW-8
- TMW-9

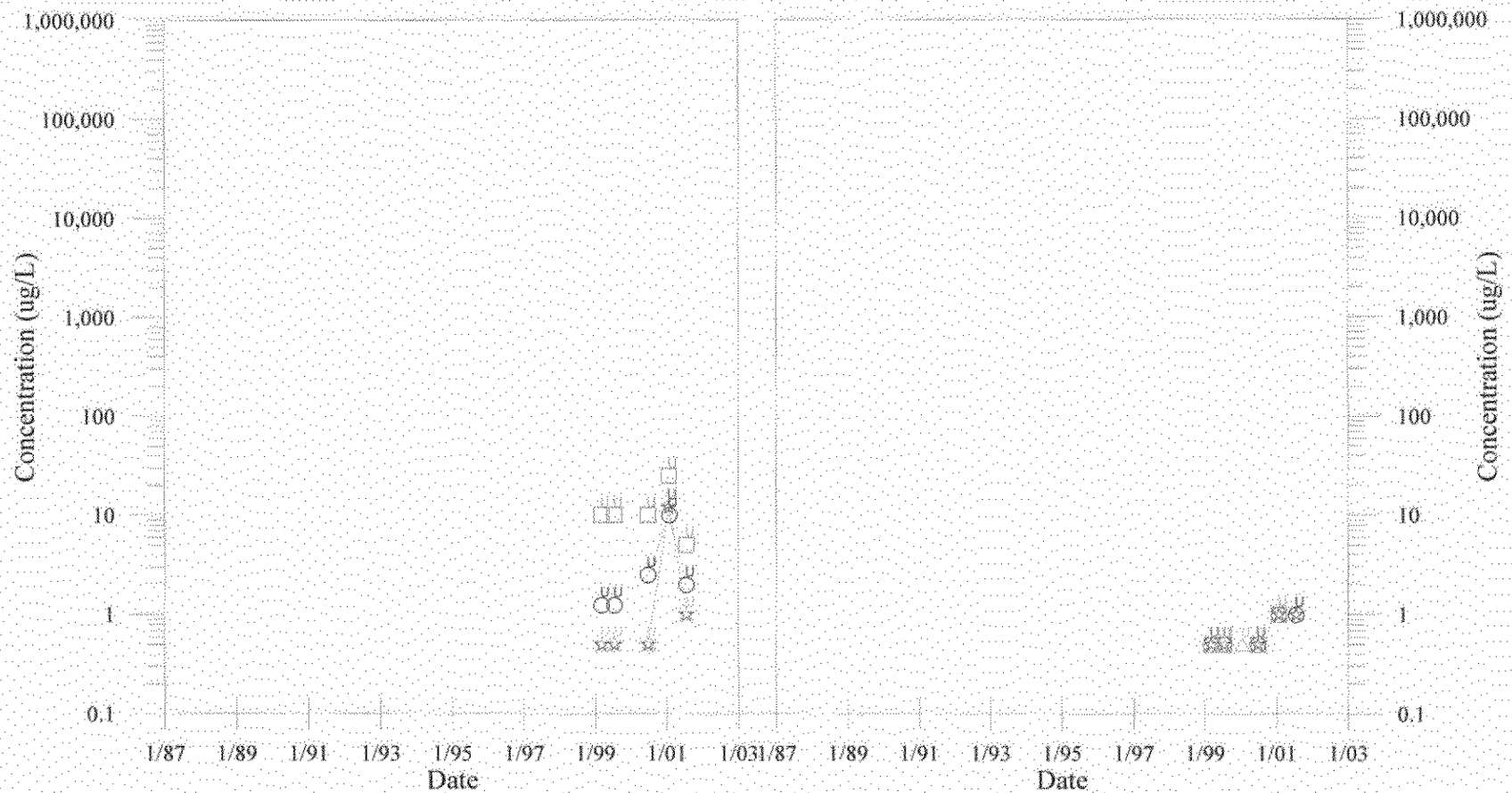
FIGURE 12c

1,1,1-TCA CONCENTRATION VS. TIME
Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

U = Not Detected

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING



Left Graph
- TMW-10
- TMW-11
- TMW-12
- TMW-13

Right Graph
- TMW-14
- TMW-15
- TMW-16
- TMW-17

U = Not Detected

FIGURE 12d

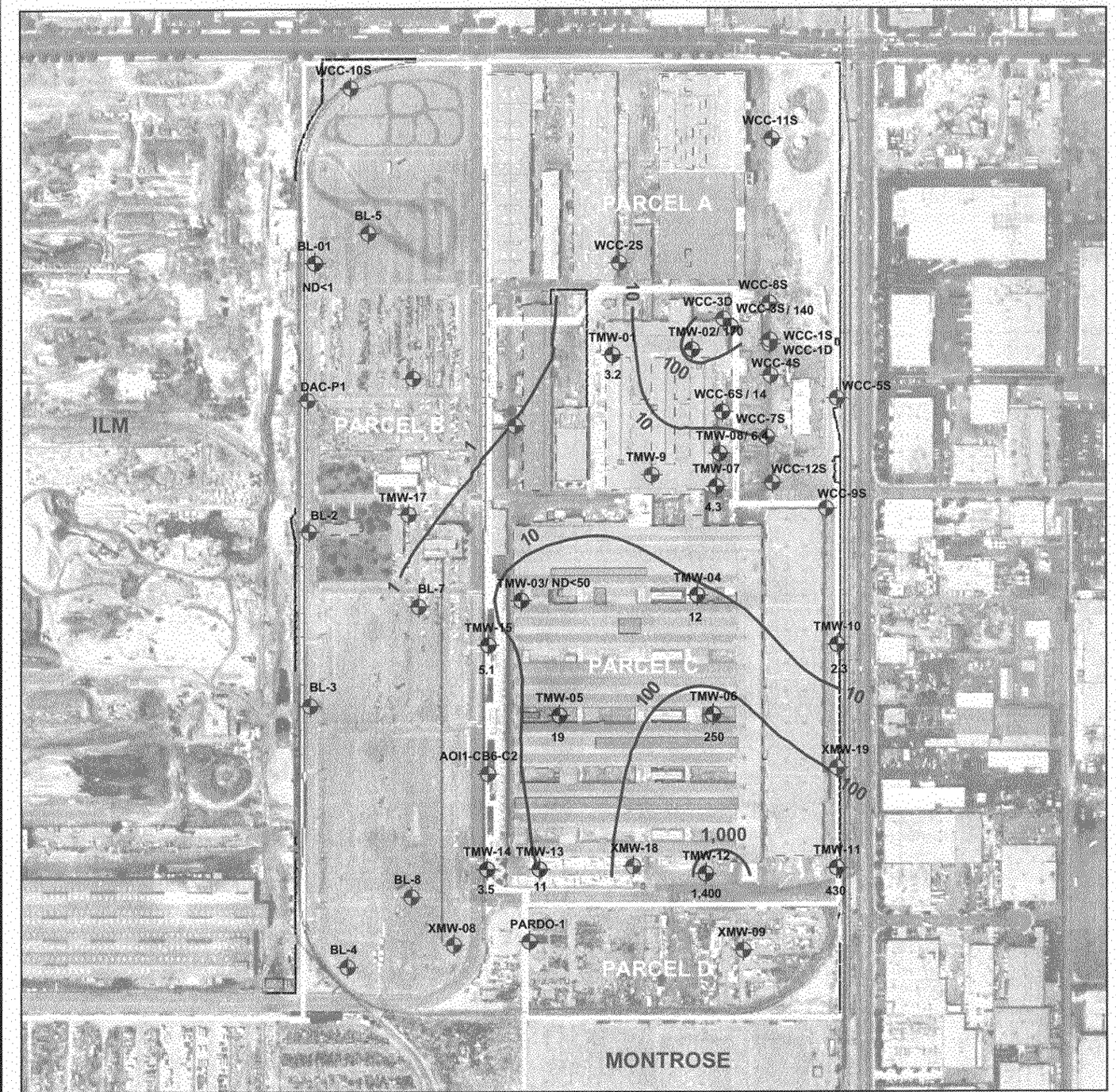
1,1,1-TCA CONCENTRATION VS. TIME

Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

ENGLAND GEOSYSTEM ENVIRONMENTAL ENGINEERING

Y:\ArcGis\887.002\GWREPORT.JULY2001\FIGURE13 Y:\PDFS\887.002\FIGURE13



N

EXPLANATION

WCC-2S	BOEING GROUNDWATER MONITORING WELL
WCC-6S 14	BOEING GROUNDWATER MONITORING WELL SHOWING CHLOROFORM CONCENTRATION IN ug/l
100	LINE OF EQUAL CHLOROFORM CONCENTRATION IN ug/l

NOTE:
1. ISOCONCENTRATION CONTOUR INTERVAL = VARIABLE

REFERENCE:
AERIAL PHOTO PROVIDED BY GLOBE EXPLORER
AND ORTHORECTIFIED TO NAD 83
CALIFORNIA STATE PLANE ZONE 5 IN FEET

0 200 400 Feet

APPROXIMATE HORIZONTAL SCALE

FIGURE 13

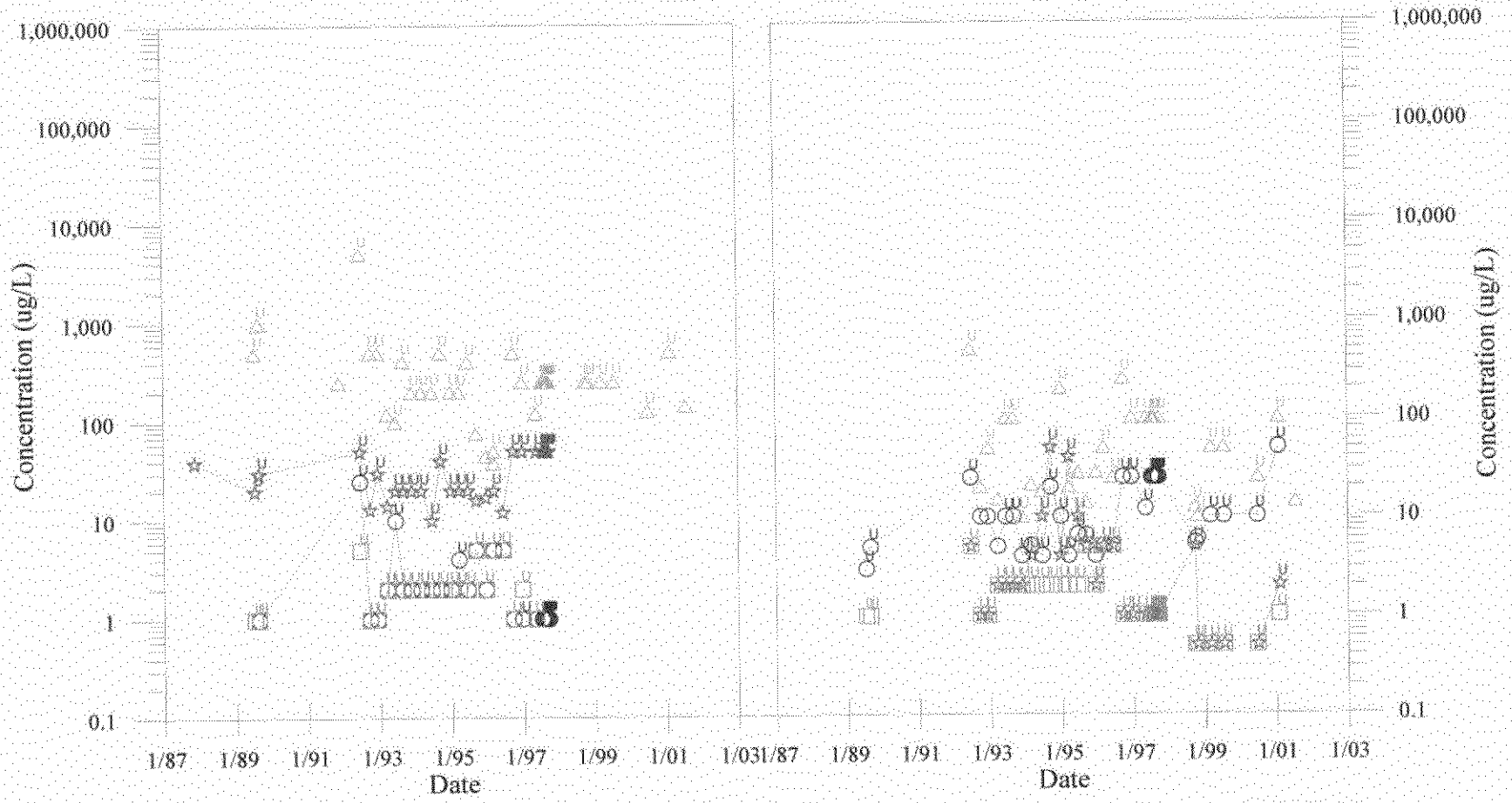
CHLOROFORM DISTRIBUTION IN GROUNDWATER
SEMI ANNUAL EVENT
JULY 2001

FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

PREPARED FOR

BOEING REALTY CORPORATION
LONG BEACH, CALIFORNIA

HALEY & ALDRICH ENGLAND GEOSYSTEM ENVIRONMENTAL ENGINEERING



Left Graph
- WCC-1S
- WCC-1D
- WCC-2S
- WCC-3S

Right Graph
- WCC-3D
- WCC-4S
- WCC-5S
- WCC-6S

FIGURE 14a

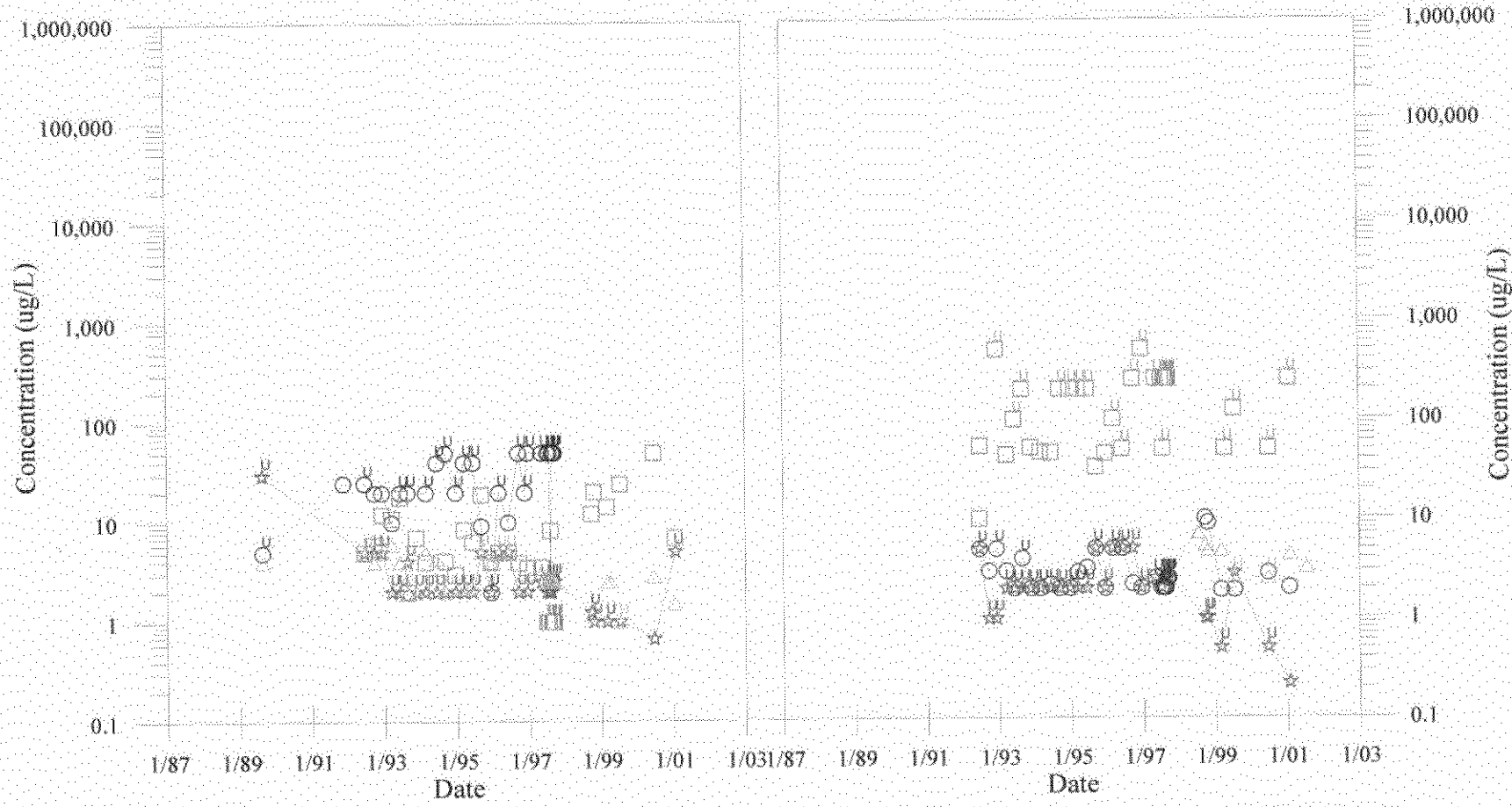
CHLOROFORM CONCENTRATION VS. TIME

Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

U = Not Detected

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING



Left Graph
- WCC-7S
- WCC-8S
- WCC-9S
- WCC-10S

Right Graph
- WCC-11S
- WCC-12S
- DAC-P1
- TMW-1

U = Not Detected

FIGURE 14b

CHLOROFORM CONCENTRATION VS. TIME

Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING

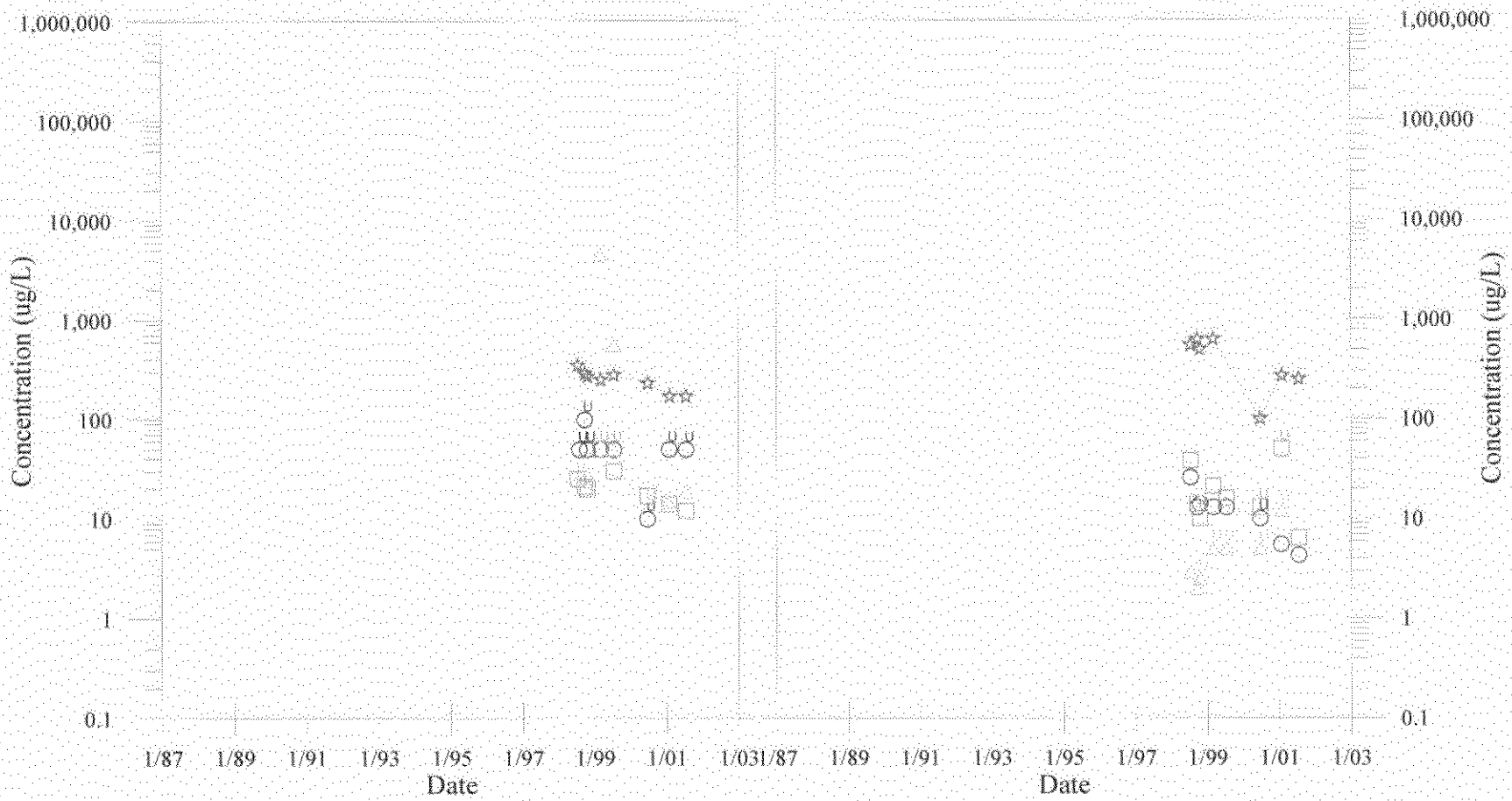


FIGURE 14c

CHLOROFORM CONCENTRATION VS. TIME

Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

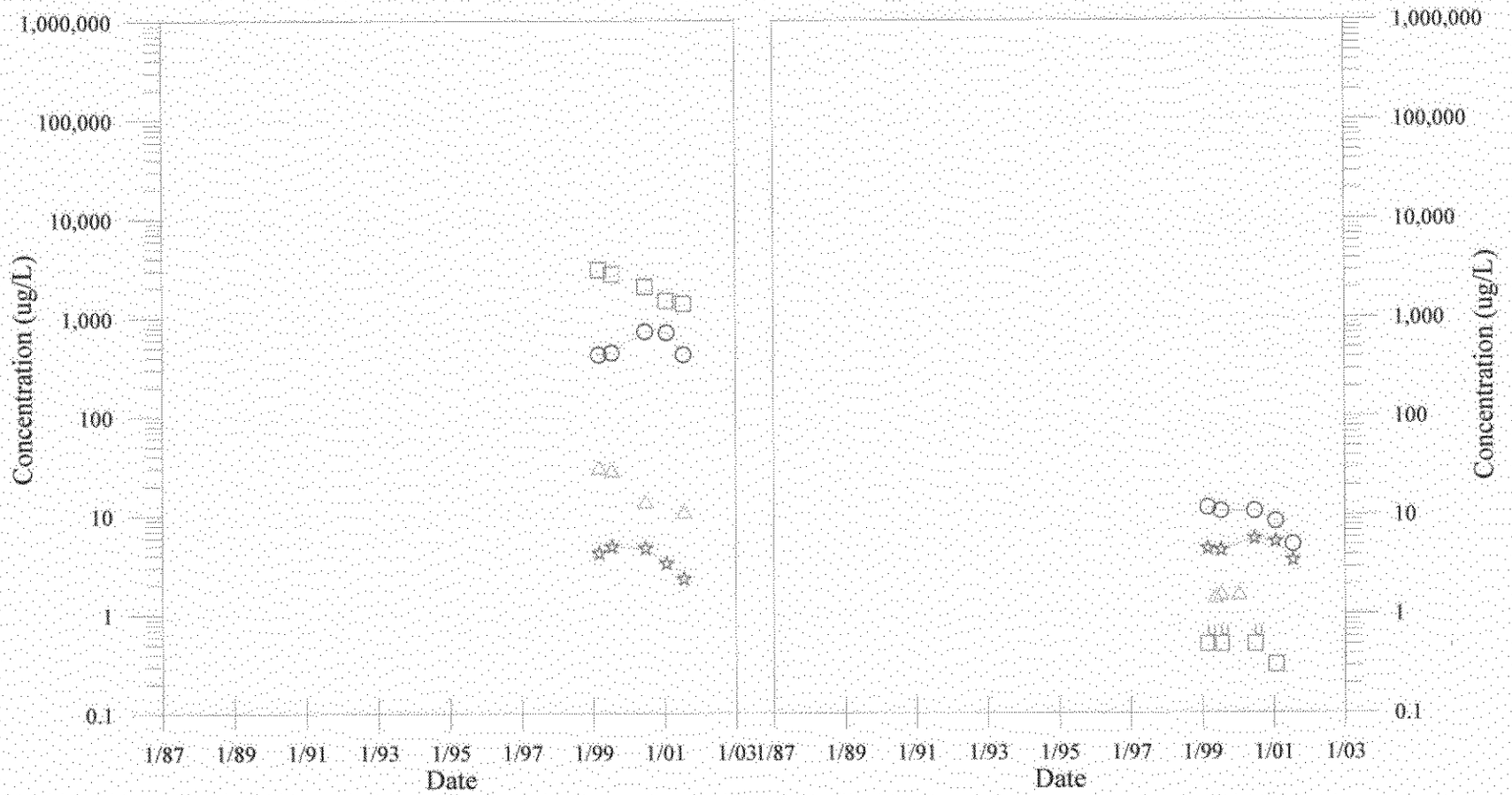
Left Graph
- TMW-2
- TMW-3
- TMW-4
- TMW-5

Right Graph
- TMW-6
- TMW-7
- TMW-8
- TMW-9

U = Not Detected

HALEY & ALDRICH

ENGLAND GEOSYSTEM



Left Graph
- TMW-10
- TMW-11
- TMW-12
- TMW-13

Right Graph
- TMW-14
- TMW-15
- TMW-16
- TMW-17

FIGURE 14d

CHLOROFORM CONCENTRATION VS. TIME
Former C-6 Facility
Los Angeles, California
Prepared For
Boeing Realty Corporation
Long Beach, California

HALEY & ALDRICH

U = Not Detected

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING

APPENDIX A

Appendix A1

Field Data

WELL GAUGING DATA SHEET

ENGLAND
GEOSYSTEM
ENVIRONMENTAL ENGINEERING

2001 Semi-Annual Groundwater Sampling Event
Well Gauging Data Sheet
Boeing Realty Corporation (BRC), Former C-6 Facility

Well	Date	Time	PID (ppm)	Diameter (inches)	Depth to Water (feet)	Total Depth (feet)	Comments
WCC-3S	7/16/2001	11:37	78.4	4	64.45	91.20	
WCC-3D	7/16/2001	11:29	1.1	4	64.58	139.55	Missing well cover.
WCC-4S	7/16/2001	12:33	14.7	4	63.00	89.90	
WCC-5S	7/16/2001	13:58	8.4	4	62.12	90.22	
WCC-6S	7/16/2001	11:05	22.1	4	64.81	88.81	
WCC-7S	7/16/2001	12:58	2.1	4	63.70	90.56	
WCC-9S	7/16/2001	11:54	67.3	4	60.54	89.57	
WCC-10S	7/16/2001	14:01	---	---	---	---	Well had been previously abandoned.
WCC-11S	7/16/2001	8:46	0.0	4	64.00	91.34	
WCC-12S	7/16/2001	14:38	12.7	4	60.64	90.59	

BOE-C6-0048801

2001 Semi-Annual Groundwater Sampling Event
Well Gauging Data Sheet
Boeing Realty Corporation (BRC), Former C-6 Facility

Well	Date	Time	PID (ppm)	Diameter (inches)	Depth to Water (feet)	Total Depth (feet)	Comments
DAC-P1	7/16/2001	13:37	12.5	4	65.73	90.62	
TMW-1	7/16/2001	11:21	2.1	2	64.55	80.16	
TMW-2	7/16/2001	11:11	11.6	2	64.52	80.03	
TMW-3	7/16/2001	10:13	3.1	2	64.93	82.03	
TMW-4	7/16/2001	10:46	0.0	2	64.45	78.53	Backfill between well casing and borehole annulus has settled approximately 31 feet, leaving a void.
TMW-5	7/16/2001	10:32	0.0	2	64.50	80.18	Backfill between well casing and borehole annulus has settled leaving a void. Top of casing was buried under approximately 4-feet of soil.
TMW-6	7/16/2001	10:36	1.1	2	64.57	79.95	Backfill between well casing and borehole annulus has settled leaving a void.
TMW-7	7/16/2001	10:52	0.0	2	64.87	82.32	
TMW-8	7/16/2001	11:04	88.1	2	64.70	79.90	
TMW-9	7/16/2001	10:55	---	---	---	---	Well destroyed or buried - could not gauge or sample.

BOE-C6-0048802

2001 Semi-Annual Groundwater Sampling Event
Well Gauging Data Sheet
Boeing Realty Corporation (BRC), Former C-6 Facility

Well	Date	Time	PID (ppm)	Diameter (inches)	Depth to Water (feet)	Total Depth (feet)	Comments
TMW-10	7/16/2001	12:05	0.0	2	61.54	78.22	
TMW-11	7/16/2001	12:17	0.0	2	62.06	78.39	
TMW-12	7/16/2001	9:18	0.0	2	64.47	78.13	Well box has been completely removed leaving only the exposed 2-inch casing ~1-foot bgs. Three 5-gallon buckets of Humble Hydraulic H46 oil were sitting directly next to well.
TMW-13	7/16/2001	15:33	86.2	2	65.57	78.90	Well head buried by ~3-feet of soil.
TMW-14	7/16/2001	9:47	0.0	2	72.85	88.32	
TMW-15	7/16/2001	9:59	0.0	2	69.18	87.82	
TMW-16	7/16/2001	10:22	12.5	2	67.27	76.68	
BL-1	7/16/2001	13:41	0.0	2	71.03	83.63	
BL-2	7/16/2001	13:38	---	---	---	---	Well had been previously abandoned.
BL-3	7/16/2001	13:00	---	---	---	---	Well destroyed during construction at the off-site location.

BOE-C6-0048803

2001 Semi-Annual Groundwater Sampling Event
Well Gauging Data Sheet
Boeing Realty Corporation (BRC), Former C-6 Facility

Well	Date	Time	PID (ppm)	Diameter (inches)	Depth to Water (feet)	Total Depth (feet)	Comments
XMW-09	7/16/2001	9:06	0.0	4	68.44	79.16	
XMW-18	7/16/2001	9:31	0.0	4	66.05	140.75	
XMW-19	7/16/2001	12:10	4.4	4	64.03	79.91	

Notes:
Depth to water measurements taken from top of monitoring well casing representing the wellhead survey point.
ppm = parts per million
PID = Photoinonization Detector
--- = Well not measured due to prior abandonment or accidental destruction.
• Wells were measyred by TAIT Environmental Management, Inc. personnel on July 16, 2001 using a Solinist water/product interface meter and Mini Rae PID.

BOE-C6-0048804

Appendix A2

Field Data

GROUNDWATER
SAMPLING DATA SHEETS

ENGLAND
GEOSYSTEM
ENVIRONMENTAL ENGINEERING

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Page __ of __

Project Name: BRC, Former, C-6 Facility
Project No.: EM2303
Well Identification: TMW-1
Measurement Point Description: TOC - north west side.
Date: 7-18-1
Prepared By: RK
Weather: Sunny

Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	Well Diameter (in)				Gallons/Foot				One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
							0.75	2	4	6		
64.55	80.16	15.61	0.75	2	4	6	0.02	0.16	0.65	1.47	2.4	7.4

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Salinity (%)	PID/FID (ppm)
13:21	0	0	0	NA	6.88	22.8	7990	0.29	5.5	-27	0.1	NA
13:25	1	2.4	0.6	NA	6.81	23.0	520	0.30	4.6	-4	0.2	NA
13:30	2	4.8	0.48	NA	6.75	23.4	220	0.35	5.7	11	0.2	NA
13:35	3	7.4	0.48	NA	6.74	23.5	130	0.37	3.9	16	0.2	NA

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
13:21	13:35	0.52	7.4	3	N/A	N/A	13:50	TMW-1-071820d-1012

Notes: NA = 2" well did not allow for enough room to gauge wells while purging.

ft-bmp = feet below measuring point
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TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

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Project Name: BRC, Former, C-6 Facility
Project No.: EM2303
Well Identification: TMW-2
Measurement Point Description: TOC - northwest side

Date: 7-18-1
Prepared By: RK
Weather: Sunny

Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	Well Diameter (in)				Gallons/Foot				One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
							0.75	2	4	6		
64.52	80.03	15.51	0.75	(2)	4	6	0.02	(0.16)	0.65	1.47	2.4	7.4

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Salinity (%)	PID/FID (ppm)
12:20	0	0	0	NA	6.33	23.2	120	0.33	4.8	-176	0.2	NA
12:24	1	2.4	0.6	NA	6.37	22.6	80	0.32	2.3	-180	0.2	NA
12:29	2	4.8	0.48	NA	6.42	23.1	10	0.30	3.2	-133	0.1	NA
12:35	3	7.4	0.4	NA	6.44	23.0	9	0.30	1.8	-131	0.2	NA

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
12:20	12:35	0.49	7.4	3	–	NA	12:50	TMW-2-0718200-1011

Notes: 2" well did not allow enough room for water level measurement, During purge = NA

ft-bmp = feet below measuring point
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BOE-C6-0048807

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Page __ of __

Project Name: BRC Former C-6 Facility
Project No.: EM2303
Well Identification: TMW-3
Measurement Point Description:
Date: 7-19-1
Prepared By: RK
Weather: Sunny

Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	Well Diameter (in)				Gallons/Foot				One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
							0.75	2	4	6		
64.93	82.03	17.1	0.75	2	4	6	0.02	0.16	0.65	1.47	2.7	8.2

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Salinity (%)	PID/FID (ppm)
10:00	0	0	0	N/A	6.92	22.4	>990	0.21	5.5	-117	0.1	N/A
10:04	1	2.7	0.67	N/A	6.92	22.8	250	0.21	7.1	-54	0.1	N/A
10:08	2	5.4	0.65	N/A	6.92	22.9	100	0.21	5.1	-19	0.1	N/A
10:11	3	8.2	0.9	N/A	6.92	23.1	79	0.21	4.9	4	0.1	N/A

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
10:00	10:11	6.6	8.2	3	—	N/A	10:25	TMW-3_071901_1015

Notes: 2" well did not allow enough room for water level measurement, During Purge = N/A

ft-bmp = feet below measuring point
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BOE-C6-0048808

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: BRC, Former C-6 Facility
Project No.: EM2303
Well Identification: TMW-4
Measurement Point Description: TOC-north
Date: 7/17/01
Prepared By: SE/RK
Weather: clear

Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	Well Diameter (in)				Gallons/Foot				One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
							0.75	2	4	6		
64.45	78.53	14.08	0.75	(2)	4	6	0.02	(0.16)	0.65	1.47	2.0	6.0

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Salinity (%)	PID/FID (ppm)
14:42	0	0	NA	NA	7.12	23.4	600	0.17	8.5	78	0.1	NA
14:45	1	2	0.66	NA	7.08	23.2	98	0.18	6.7	81	0.1	NA
14:48	2	4	0.66	NA	7.07	23.2	44	0.18	6.2	81	0.1	NA
14:51	3	6	0.66	NA	7.08	23.2	12	0.18	6.9	81	0.1	NA

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
14:42	14:51	0.66	6	3	—	N/A	14:55	TMW-4_07172001_1007

Notes: NA = Not able to guage depth to water during purge due to well diameter (too small 2")
* Borehole backfill has settled around casing to a depth of ~ 31' bgs.
Rinsate Blank collected after sampling well (TMW-4_07172001_0002) @ 15:01

ft-bmp = feet below measuring point
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TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: BRC, Former C-6 Fac.
Project No.: EM2303
Well Identification: TMW-5
Measurement Point Description: TOC-north
Date: 7/17/01
Prepared By: SEE / RK
Weather: clear

Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	Well Diameter (in)				Gallons/Foot				One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
			0.75	2	4	6	0.75	2	4	6		
64.50	80.18	15.68	0.75	(2)	4	6	0.02	(0.16)	0.65	1.47	3.0	9.0

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Salinity (%)	PID/FID (ppm)
12:55	—	—	—	—	7.25	23.7	>990	0.09	8.5	51	0.0	1
13:00	1	3	~0.6	NA	7.28	24.0	450	81	5.5	60	0.0	1
13:09	2	6	0.3	NA	7.31	23.9	140	79	6.3	65	0.0	1
13:13	3	9	0.75	NA	7.32	23.9	70	78	6.3	61	0.0	1

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
12:55	13:13	0.5	9.0	3	—	NA	13:19	TMW-5_07172001_1005

Notes: NA= Not able to guage due to 2" dia meter well.
Well TOC was burried ~ 4' bgs.
Grout backfill/borehole has settled att- there is no backfill around casing

ft-bmp = feet below measuring point
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TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: BRC, Former C-6 Facility
Date: 7/17/01
Project No.: EM2303
Prepared By: SE/RK
Well Identification: TMW-6
Weather: clear
Measurement Point Description: TOC-north

Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	Well Diameter (in)				Gallons/Foot				One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
							0.75	2	4	6		
64.57	79.95	15.38	0.75	(2)	4	6	0.02	(0.16)	0.65	1.47	2.5	7.5

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (µS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Salinity (%)	PID/FID (ppm)
14:00	—	—	—	—	7.25	24.6	>990	0.18	11.0	110	0.1	—
14:06	1	2.5	.41	NA	7.02	23.2	260	0.18	7.1	100	0.1	—
14:11	2	5.0	0.5	NA	7.08	23.1	43	0.18	7.3	95	0.1	—
14:17	3	7.5	0.41	NA	7.08	22.9	26	0.18	8.6	93	0.1	—

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
14:00	14:17	0.4	7.5	3	—	NA	14:21	TMW-6_07172001_1006

Notes: NA = Not able to gauge during purge due to well dia (2"). Backfill/Borehole has settled leaving only the 2" PVC casing freely moving in bore hole.

ft-bmp = feet below measuring point

BOE-C6-0048811

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

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Project Name: BRC Former C-6 Facility
Project No.: EM2302
Well Identification: TMW-7
Measurement Point Description: TOC-Northwest Side
Date: 7-18-1
Prepared By: RK
Weather: Sunny

Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	Well Diameter (in)				Gallons/Foot				One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
							0.75	2	4	6		
64.87	82.32	17.45	0.75	(2)	4	6	0.02	(0.16)	0.65	1.47	2.7	8.3

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Salinity (%)	PID/FID (ppm)
11:00	0	0	0	NA	6.93	23.6	860	0.20	5.8	24	0.1	NA
11:05	1	2.7	0.54	NA	6.89	25.1	460	0.20	6.7	16	0.1	NA
11:09	2	5.4	0.67	NA	6.91	24.9	100	0.19	7.2	15	0.1	NA
11:13	3	8.3	0.67	NA	6.92	23.8	10	0.19	6.4	34	0.1	NA

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
11:00	11:13	0.67	8.3	3	—	NA	11:25	TMW-7-07182001-1009

Notes: 2" well did not allow enough room for water level measurement, During Purge = NA

ft-bmp = feet below measuring point
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BOE-C6-0048812

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

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Project Name: BRC Former C-6 Facility
Project No.: EM2203
Well Identification: TMW-8
Measurement Point Description: TOC-north west side
Date: 7-18-1
Prepared By: RK
Weather: Sunny

Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	Well Diameter (in)				Gallons/Foot				One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
							0.75	2	4	6		
64.70	79.90	15.2	0.75	(2)	4	6	0.02	(0.16)	0.65	1.47	2.4	7.2

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Salinity (%)	PID/FID (ppm)
11:37	0	0	0	NA	6.91	23.3	360	0.16	5.0	-156	0.1	NA
11:44	1	2.4	0.34	NA	6.71	24.3	110	0.16	0.9	-119	0.1	NA
11:47	2	4.8	0.8	NA	6.69	24.4	43	0.16	3.3	-109	0.1	NA
11:52	3	7.2	0.48	NA	6.66	24.4	22	0.16	0.7	-105	0.1	NA

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
11:37	11:52	0.54	7.2	3	—	NA	12:00	TMW-8_071820d_1010

Notes: 2" well did not allow enough room for water level measurement. During Purge = NA

ft-bmp = feet below measuring point

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

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Project Name: BRC, Former C-6 Facility
Project No.: Em 2302
Well Identification: TMW-10
Measurement Point Description: TOC - North Side
Date: 7-18-1
Prepared By: RK
Weather: Sunny

Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	Well Diameter (in)				Gallons/Foot				One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
							0.75	2	4	6		
61.54	78.22	16.68	0.75	(2)	4	6	0.02	(0.16)	0.65	1.47	2.6	8.0

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Salinity (%)	PID/FID (ppm)
10:00	0	0	0	NA	6.97	25.6	>990	0.17	6.7	37	0.1	NA
10:06	1	2.6	0.43	NA	6.97	25.1	440	0.18	3.7	2	0.1	NA
10:13	2	5.2	0.37	NA	6.98	24.5	140	0.17	4.1	31	0.1	NA
10:17	3	8.0	0.65	NA	6.99	24.8	100	0.17	6.9	6	0.1	NA

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
10:00	10:17	0.48	8.0	3	—	NA	10:25	TMW-10_07182001_1008

Notes: 2" well did not allow enough room for water level measurements during purge ±NA
Collected Field Blank S-0004

ft-bmp = feet below measuring point
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BOE-C6-0048814

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: BRC, Former C-6 Facility
Project No.: EM 2303
Well Identification: TMW-11
Measurement Point Description: TOC-north
Date: 7/17/01
Prepared By: SE/RK
Weather: clear

Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	Well Diameter (in)				Gallons/Foot				One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
							0.75	2	4	6		
62.06	78.39	16.33	0.75	2	4	6	0.02	0.16	0.65	1.47	3.0	9.0

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Salinity (%)	PID/FID (ppm)
10:45	—	0	—	—	6.96	24.2	>990	0.23	8.5	109	0.1	—
10:49	1	3	0.75	NA	6.89	24.1	>990	0.23	3.0	91	0.1	—
10:57	2	6	0.37	NA	6.89	24.0	110	0.23	3.0	84	0.1	—
11:00	3	9	1.0	NA	6.89	24.0	39	0.23	5.0	83	0.1	—

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
10:45	11:00	0.6	9	3	—	NA	11:05	TMW-11-07172001_1001

Notes: NA= 2" well did not allow for enough room to gauge wells while purge.

ft-bmp = feet below measuring point
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TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: BRC, Former C-6 Facility
Date: 7/17/01
Project No.: EM 2303
Prepared By: SEE
Well Identification: TMW-12
Weather: Clear
Measurement Point Description: TOC-north

Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	Well Diameter (in)				Gallons/Foot				One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
							0.75	2	4	6		
64.47	78.13	13.66	0.75	(2)	4	6	0.02	(0.16)	0.65	1.47	2.0	6.0

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Salinity (%)	PID/FID (ppm)
11:23	0	0	–	–	6.84	24.1	7990	0.21	4.0	113	0.1	–
11:27	1	2	0.5	NA	6.81	23.9	340	0.20	5.0	102	0.1	–
11:31	2	4	~~0.5~~	NA	6.79	24.2	83	0.20	2.6	91	0.1	–
11:35	3	6	0.5	NA	6.79	24.2	40	0.20	2.4	87	0.1	–

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
11:23	11:35	0.5	6	3	–	NA	11:38	TMW-12_07172001_1003

Notes: NA = Not able to insert water level measure due to 2" well diameter.
* Well box was completely removed all that was left was the 2" casing approx 1' bgs.
(3) 5-gallons buckets of Humble Hydraulic H 46 Oil were sitting directly next to well.

ft-bmp = feet below measuring point
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TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: Former C-6 Facility
Project No.: EM2303
Well Identification: TMW-13
Measurement Point Description:

Date: 7/17/01
Prepared By: SEE
Weather: clear

Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	Well Diameter (in)				Gallons/Foot				One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
							0.75	2	4	6		
65.57	78.90	13.33	0.75	2	4	6	0.02	0.16	0.65	1.47	2.0	6.0

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Salinity (%)	PID/FID (ppm)
12:12 SEE ~~12:07~~	—	—	—	—	6.92	23.7	300	0.16	5.5	46	0.1	—
12:15	1	2	0.6	—	6.88	24.2	110	0.16	6.4	66	0.1	—
12:20	2	4	0.4	—	6.97	24.5	44	0.16	8.7	77	0.1	—
12:25	3	6	0.4	—	6.89	24.4	33	0.16	5.9	79	0.1	—

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
12:12 ~~12:07~~ SEE	12:25	0.46	6	3	—	NA	12:29	TMW-13_07172001_1004

Notes: NA = 2" well does not allow enough room for water meter during purge.
Well has been burried ~ 3-feet bgs.
ID = TMW-13_07172001_0004
Field Blank collected from well (Arrowhead Distilled Water)

ft-bmp = feet below measuring point
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TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

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Project Name: BRC Former, C-6 Facility
Project No.: EM2303
Well Identification: TMW-14
Measurement Point Description: TOC - North west Side
Date: 7-18-1
Prepared By: RK
Weather: Sunny

Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	Well Diameter (in)				Gallons/Foot				One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
			0.75	2	4	6	0.75	2	4	6		
72.85	88.32	15.47	0.75	2	4	6	0.02	0.16	0.65	1.47	2.4	7.4

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Salinity (%)	PID/FID (ppm)
14:23	0	0	0	NA	6.72	24.7	420	0.34	6.1	51	0.2	NA
14:27	1	2.4	0.6	NA	6.70	24.6	12	0.33	5.3	60	0.2	NA
14:31	2	4.8	0.6	NA	6.69	24.6	7	0.33	5.0	64	0.2	NA
14:36	3	7.4	0.48	NA	6.69	24.7	10	0.33	5.0	64	0.2	NA

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
14:23	14:36	0.56	7.4	3	—	NA	14:50	TMW-14-07182001-1013

Notes: NA = 2" well did not allow for enough room to gauge wells while purge.
collected Rinsate Blank 0002

ft-bmp = feet below measuring point
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BOE-C6-0048818

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Page __ of __

Project Name: BRC Former C-6 Facility
Project No.: EM2303
Well Identification: TMW-15
Measurement Point Description: TOC-North Side
Date: 7-19-1
Prepared By: RK
Weather: Sunny

Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	Well Diameter (in)				Gallons/Foot				One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
							0.75	2	4	6		
69.18	87.82	18.64	0.75	(2)	4	6	0.02	(0.16)	0.65	1.47	2.9	8.9

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (µS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Salinity (%)	PID/FID (ppm)
9:15	0	0	0	NA	7.05	22.3	>990	81 mSM	2.1	-254	0.0	NA
9:20	1	3		NA	7.19	23.9	>990	91 mSM	2.4	-199	0.0	NA
9:25	2	6		NA	7.20	23.7	850	98 mSM	3.4	-182	0.0	NA
9:31	3	9		NA	7.20	23.9	240	0.11 SM	4.4	-145	0.1	NA

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
9:15	9:31		8.9	3	—	NA	9:40	TMW-15_07192001-1014

Notes: 2" well did not allow enough room for water level measurement during Purge=NA
collected Field Blanks-TMW-15_07192001-0004

ft-bmp = feet below measuring point
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BOE-C6-0048819

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Page __ of __

Project Name: BRC Former, C-6 Facility
Project No.: EM2303
Well Identification: WCC-3S
Measurement Point Description: TOC-northwest side
Date: 7-19-1
Prepared By: RK
Weather: Sunny

Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	Well Diameter (in)				Gallons/Foot				One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
			0.75	2	4	6	0.75	2	4	6		
64.45	91.20	26.75	0.75	2	4	6	0.02	0.16	0.65	1.47	17.38	52.16

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Salinity (%)	PID/FID (ppm)
10:57	0	0	0	N/A	6.27	23.4	3	0.36	2.3	-150	0.2	N/A
11:05	1	17.5	2.1	N/A	6.28	23.8	7	0.35	1.6	-163	0.2	N/A
11:12	2	35	2.4	N/A	6.28	23.9	-8	0.34	1.9	-167	0.2	N/A
11:17	3	52.16	3.4	N/A	6.31	23.9	-9	0.33	2.1	-170	0.2	N/A

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
10:57	11:17	2.6	52.16	3	—	N/A	11:30	WCC-3S_07192001_1016

Notes: collected Duplicate Samples WCC-3S 07192001_0003
well pipe 4" Diameter

ft-bmp = feet below measuring point
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BOE-C6-0048820

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Page __ of __

Project Name: BRC Former C-6 Facility
Project No.: EM 2303
Well Identification: WCC-6S
Measurement Point Description: TOC - northwest side
Date: 7-19-1
Prepared By: RK
Weather: Sunny

Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	Well Diameter (in)				Gallons/Foot				One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
							0.75	2	4	6		
64.81	88.91	24	0.75	2	(4)	6	0.02	0.16	(0.65)	1.47	15.6	46.8

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Salinity (%)	PID/FID (ppm)
11:45	0	0	0	N/A	6.94	23.4	220	0.24	5.8	-78	0.1	N/A
11:57	1	15.5	1.3	N/A	6.77	23.5	31	0.24	2.5	-84	0.1	N/A
12:09	2	31	1.3	N/A	6.77	23.5	21	0.22	2.9	-91	0.1	N/A
12:18	3	46.8	1.7	N/A	6.78	23.4	26	0.21	2.2	-88	0.1	N/A

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
11:45	12:18	1.4	46.8	3	—	N/A	12:35	WCC-6S_07192001_1017

Notes: well pipe 4" Diameter. collected Rinsate Samples WCC-6S_07192001_0002

ft-bmp = feet below measuring point

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BOE-C6-0048821

APPENDIX B

BOE-C6-0048822

Appendix B

Analytical Reports and Chain-of-Custody Records (STL, Los Angeles)

EIG170296
EIG180304
EIG190320

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING

SEVERN TRENT SERVICES

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Tel: 714 258 8610
Fax: 714 258 0921
www.stl-inc.com

July 27, 2001

STL LOT NUMBER: E1G170296
NELAC Certification Number: 01118CA
PO/CONTRACT: 05220-SEV001

Mehmet Pehlivan
Tait Environmental
701 Park Center Dr
Santa Ana, CA 92705

Dear Mr. Pehlivan,

This report contains the analytical results for the 11 samples received under chain of custody by STL Los Angeles on July 17, 2001. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures met method-specified acceptance criteria. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed at our facility meet all the requirements of NELAC. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 309.

Sincerely,

Diane Suzuki
Project Manager
CC: Project File

This report contains 000059 pages.

RECEIVED
SEP 26 2001
ENGLAND GEOSYSTEM
☐ ELECTRONIC ☒ SCAN

STL Los Angeles is a part of Severn Trent Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

BOE-C6-0048824

[redacted]

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

40337

STL-4124 (0700)

Client: TAIT	Project Manager: M. Pehlivan	Date: 7/17/01	Chain of Custody Number: 051630
Address: 701 N. Parkcenter Dr.	Telephone Number (Area Code)/Fax Number: (714) 560-8200 / (714) 560-8235	Lab Number: EIG170296	Page 1 of 1
City: Santa Ana; State: CA; Zip Code: 92705	Site Contact:	Lab Contact: D. Suzuki	
Project Name and Location (State): BRC, Former C-6 Facility	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): VOC (8260)	Special Instructions/ Conditions of Receipt
BL-1_07172001_1000	7/17/01	10:05		X							3				X	
BL-1_07172001_0003	↓	10:02		X							3				X	
TMW-11_07172001_1001		11:05		X							3				X	
TMW-12_07172001_1003		11:38		X							3				X	
TMW-13_07172001_1004		12:29		X							3				X	
TMW-13_07172001_0004		12:21		X							3				X	
TMW-5_07172001_1005		13:19		X							3				X	
TMW-6_07172001_1006		14:21		X							3				X	
TMW-4_07172001_1007		14:55		X							3				X	
TMW-4_07172001_0002	↓	15:01		X							3				X	
TRIP BLANKS	↓	—		X							3				X	

000002

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [X] 14 Days [ ] 21 Days [ ] Other ____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: [signature]	7/17/01	16:00	1. Received By: [signature] D.E.S.D	7/17/01	1600
2. Relinquished By: [signature] D.E.S.D	7/17/01	1715	2. Received By: [signature]	7/17/01	1715
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

BOE-C6-0048825

STL LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 7/17/01

Quantims Lot #: EIG 170 296
Quote #: 40337
Client Name: TAIT
Project: BRC C-6
Received by: Royce S.
Date/Time Received: 7/17/01 17:17
Delivered by : ☐ Client ☐ Airborne ☐ Fed Ex ☐ DHL ☐ Ultra-Ex ☐ Rey B.
☐ UPS ☒ DES ☐ Other _____

	Initial / Date
Custody Seal Status: ☐ Intact ☐ Broken ☒ None	AR 7/17/01
Custody Seal #(s): ☒ No Seal #	
Sample Container(s): ☒ STL-LA ☐ Client ☐ N/A	
Temperature(s) (COOLER/BLANK) in °C: 4°C (CORRECTED TEMP) 4.2°C	
Thermometer Used : ☒ IR (Infra-red) ☐ Digital (Probe)	
Samples: ☒ Intact ☐ Broken ☐ Other	
Anomalies: ☒ No ☐ Yes (See Clouseau)	
Labeled by AR	
Labeling checked by JS	

Turn Around Time: ☐ RUSH-24HR ☐ RUSH-48HR ☐ RUSH-72HR ☒ NORMAL
Short-Hold Notification: ☐ Ph ☐ Wet Chem ☐ Metals (Filter/Pres) ☐ Encore ☒ N/A
Outside Analysis(es) (Test/Lab/Date Sent Out) : - none.

********** LEAVE NO BLANK SPACES ; USE N/A **********

Fraction	1→11										PH
VOAh /*	3										N/A

k:HCl na:Sodium Hydroxide zna:Zinc Acetate/Sodium Hydroxide s: H2SO4 n:HNO3 n/f:HNO3-Field filtered n/f/f:HNO3-Lab filtered
CGJ:Clear Glass Jar CGB:Clear Glass Bottle AGJ:Amber Glass Jar AGB:Amber Glass Bottle PB: Poly Bottle E:Encore Sampler V:VOA

* Number of VOA's w/ Headspace present

LOGGED BY/DATE: Pragia Smith 7/17/01 REVIEWED BY/DATE: T Swart 7-20-01

000003

EXECUTIVE SUMMARY - Detection Highlights

E1G170296

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
BL_1_07172001_1000 07/17/01 10:05 001				
Vinyl chloride	2.8	0.50	ug/L	SW846 8260B
Methylene chloride	4.8	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	11	1.0	ug/L	SW846 8260B
Benzene	0.77 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.99 J	1.0	ug/L	SW846 8260B
Toluene	6.4	1.0	ug/L	SW846 8260B
Isopropylbenzene	0.31 J	1.0	ug/L	SW846 8260B
BL_1_07172001_0003 07/17/01 10:02 002				
Vinyl chloride	3.0	0.50	ug/L	SW846 8260B
Methylene chloride	6.0	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	0.35 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	12	1.0	ug/L	SW846 8260B
Benzene	0.81 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.0	1.0	ug/L	SW846 8260B
Toluene	6.9	1.0	ug/L	SW846 8260B
Isopropylbenzene	0.32 J	1.0	ug/L	SW846 8260B
TMW_11_07172001_1001 07/17/01 11:05 003				
Methylene chloride	0.75 J	2.0	ug/L	SW846 8260B
Chloroform	430	10	ug/L	SW846 8260B
Chloroform	390 E	2.0	ug/L	SW846 8260B
Carbon tetrachloride	2.0	1.0	ug/L	SW846 8260B
Trichloroethene	12	10	ug/L	SW846 8260B
Trichloroethene	11	2.0	ug/L	SW846 8260B
Toluene	5.2 J	10	ug/L	SW846 8260B
Toluene	4.9	2.0	ug/L	SW846 8260B
Tetrachloroethene	2.5	2.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	0.83 J	2.0	ug/L	SW846 8260B
TMW_12_07172001_1003 07/17/01 11:38 004				
Chloroform	1400	25	ug/L	SW846 8260B
Chloroform	1100 E	5.0	ug/L	SW846 8260B
Carbon tetrachloride	2.9	2.5	ug/L	SW846 8260B
Trichloroethene	210	25	ug/L	SW846 8260B
Trichloroethene	170	5.0	ug/L	SW846 8260B
Toluene	7.6 J	25	ug/L	SW846 8260B
Toluene	6.7	5.0	ug/L	SW846 8260B
Tetrachloroethene	12	5.0	ug/L	SW846 8260B
Tetrahydrofuran	120 J	250	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E1G170296

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TMW_13_07172001_1004 07/17/01 12:29 005				
Methylene chloride	0.93 J	1.0	ug/L	SW846 8260B
Chloroform	11	1.0	ug/L	SW846 8260B
Carbon tetrachloride	1.2	0.50	ug/L	SW846 8260B
Trichloroethene	72	1.0	ug/L	SW846 8260B
Tetrachloroethene	2.0	1.0	ug/L	SW846 8260B
TMW_13_07172001_0004 07/17/01 12:21 006				
Acetone	6.5 J	10	ug/L	SW846 8260B
Toluene	1.4	1.0	ug/L	SW846 8260B
Xylenes (total)	0.82 J	1.0	ug/L	SW846 8260B
TMW_5_07172001_1005 07/17/01 13:19 007				
1,1-Dichloroethane	5.8 J	10	ug/L	SW846 8260B
cis-1,2-Dichloroethene	7.0 J	10	ug/L	SW846 8260B
Chloroform	18 J	50	ug/L	SW846 8260B
Chloroform	19	10	ug/L	SW846 8260B
Trichloroethene	4700	50	ug/L	SW846 8260B
Trichloroethene	3500 E	10	ug/L	SW846 8260B
Toluene	24 J	50	ug/L	SW846 8260B
Toluene	20	10	ug/L	SW846 8260B
1,1,2-Trichloroethane	13	10	ug/L	SW846 8260B
1,2-Dichloroethane	11	5.0	ug/L	SW846 8260B
TMW_6_07172001_1006 07/17/01 14:21 008				
1,1-Dichloroethane	0.23 J	1.0	ug/L	SW846 8260B
Chloroform	250	5.0	ug/L	SW846 8260B
Chloroform	200 E	1.0	ug/L	SW846 8260B
Trichloroethene	63	5.0	ug/L	SW846 8260B
Trichloroethene	55	1.0	ug/L	SW846 8260B
Bromodichloromethane	0.49 J	1.0	ug/L	SW846 8260B
Toluene	17	5.0	ug/L	SW846 8260B
Toluene	15	1.0	ug/L	SW846 8260B
TMW_4_07172001_1007 07/17/01 14:55 009				
Methylene chloride	1.6 J	5.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	21 J	25	ug/L	SW846 8260B
trans-1,2-Dichloroethene	15	5.0	ug/L	SW846 8260B
1,1-Dichloroethane	15 J	25	ug/L	SW846 8260B
1,1-Dichloroethane	12	5.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E1G170296

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TMW_4_07172001_1007 07/17/01 14:55 009				
cis-1,2-Dichloroethene	25	25	ug/L	SW846 8260B
cis-1,2-Dichloroethene	22	5.0	ug/L	SW846 8260B
Chloroform	16 J	25	ug/L	SW846 8260B
Chloroform	12	5.0	ug/L	SW846 8260B
Trichloroethene	1800	25	ug/L	SW846 8260B
Trichloroethene	1300 E	5.0	ug/L	SW846 8260B
Toluene	4.9 J	5.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	6.1	5.0	ug/L	SW846 8260B
1,2-Dichloroethane	7.1	2.5	ug/L	SW846 8260B
TMW_4_07172001_0002 07/17/01 15:01 010				
Acetone	5.9 J	10	ug/L	SW846 8260B
2-Butanone	6.0	5.0	ug/L	SW846 8260B
Toluene	1.4	1.0	ug/L	SW846 8260B
Xylenes (total)	0.87 J	1.0	ug/L	SW846 8260B

METHODS SUMMARY

E1G170296

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E1G170296

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EGHFX	001	BL_1_07172001_1000	07/17/01	10:05
EGHF0	002	BL_1_07172001_0003	07/17/01	10:02
EGHF8	003	TMW_11_07172001_1001	07/17/01	11:05
EGHGA	004	TMW_12_07172001_1003	07/17/01	11:38
EGHGC	005	TMW_13_07172001_1004	07/17/01	12:29
EGHGD	006	TMW_13_07172001_0004	07/17/01	12:21
EGHGE	007	TMW_5_07172001_1005	07/17/01	13:19
EGHGF	008	TMW_6_07172001_1006	07/17/01	14:21
EGHGG	009	TMW_4_07172001_1007	07/17/01	14:55
EGHGH	010	TMW_4_07172001_0002	07/17/01	15:01
EGHGJ	011	TRIP BLANKS	07/17/01	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TAIT ENVIRONMENTAL

Client Sample ID: BL_1_07172001_1000

GC/MS Volatiles

Lot-Sample #...: E1G170296-001 **Work Order #...:** EGHFX1AA **Matrix.....:** WATER
Date Sampled...: 07/17/01 10:05 **Date Received..:** 07/17/01 17:15 **MS Run #.....:** 1200115
Prep Date.....: 07/18/01 **Analysis Date..:** 07/18/01
Prep Batch #...: 1200253 **Analysis Time..:** 22:50
Dilution Factor: 1
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	**2.8**	**0.50**	**ug/L**	**0.30**
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	**4.8**	**1.0**	**ug/L**	**0.30**
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	**11**	**1.0**	**ug/L**	**0.30**
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	**0.77 J**	**1.0**	**ug/L**	**0.30**
Trichloroethene	**0.99 J**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	**6.4**	**1.0**	**ug/L**	**0.30**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.70
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

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TAIT ENVIRONMENTAL

Client Sample ID: BL_1_07172001_1000

GC/MS Volatiles

Lot-Sample #...: E1G170296-001 **Work Order #...:** EGHFX1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	**0.31 J**	**1.0**	**ug/L**	**0.30**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(75 - 120)
1,2-Dichloroethane-d4	97	(65 - 130)
Toluene-d8	101	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: BL_1_07172001_0003

GC/MS Volatiles

Lot-Sample #...: E1G170296-002 **Work Order #...:** EGHF01AA **Matrix.....:** WATER
Date Sampled...: 07/17/01 10:02 **Date Received..:** 07/17/01 17:15 **MS Run #.....:** 1200115
Prep Date.....: 07/19/01 **Analysis Date..:** 07/19/01
Prep Batch #...: 1200253 **Analysis Time..:** 03:50
Dilution Factor: 1
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	**3.0**	**0.50**	**ug/L**	**0.30**
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	**6.0**	**1.0**	**ug/L**	**0.30**
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	**0.35 J**	**1.0**	**ug/L**	**0.20**
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	**12**	**1.0**	**ug/L**	**0.30**
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	**0.81 J**	**1.0**	**ug/L**	**0.30**
Trichloroethene	**1.0**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	**6.9**	**1.0**	**ug/L**	**0.30**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.70
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

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TAIT ENVIRONMENTAL

Client Sample ID: BL_1_07172001_0003

GC/MS Volatiles

Lot-Sample #...: E1G170296-002 **Work Order #...:** EGHF01AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	**0.32 J**	**1.0**	**ug/L**	**0.30**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 120)
1,2-Dichloroethane-d4	100	(65 - 130)
Toluene-d8	101	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_11_07172001_1001

GC/MS Volatiles

Lot-Sample #...: E1G170296-003 **Work Order #...:** EGHF81AA **Matrix.....:** WATER
Date Sampled...: 07/17/01 11:05 **Date Received..:** 07/17/01 17:15 **MS Run #.....:** 1201175
Prep Date.....: 07/19/01 **Analysis Date..:** 07/19/01
Prep Batch #...: 1201324 **Analysis Time..:** 22:50
Dilution Factor: 10
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/L	4.0
Chloromethane	ND	20	ug/L	3.0
Vinyl chloride	ND	5.0	ug/L	3.0
Chloroethane	ND	20	ug/L	3.0
Bromomethane	ND	20	ug/L	10
Trichlorofluoromethane	ND	20	ug/L	3.0
1,1,2-Trichlorotrifluoro-ethane	ND	10	ug/L	4.0
Methylene chloride	ND	10	ug/L	3.0
Methyl tert-butyl ether	ND	10	ug/L	5.0
Carbon disulfide	ND	10	ug/L	3.0
Acetone	ND	100	ug/L	30
trans-1,2-Dichloroethene	ND	10	ug/L	3.0
1,1-Dichloroethane	ND	10	ug/L	2.0
2,2-Dichloropropane	ND	10	ug/L	3.0
cis-1,2-Dichloroethene	ND	10	ug/L	3.0
Chloroform	**430**	**10**	**ug/L**	**3.0**
Bromochloromethane	ND	10	ug/L	3.0
1,1,1-Trichloroethane	ND	10	ug/L	2.0
2-Butanone	ND	50	ug/L	30
1,1-Dichloropropene	ND	10	ug/L	3.0
Carbon tetrachloride	ND	5.0	ug/L	3.0
1,2-Dibromoethane	ND	10	ug/L	3.0
Benzene	ND	10	ug/L	3.0
Trichloroethene	**12**	**10**	**ug/L**	**3.0**
Bromodichloromethane	ND	10	ug/L	3.0
4-Methyl-2-pentanone	ND	50	ug/L	30
Toluene	**5.2 J**	**10**	**ug/L**	**3.0**
1,1,2-Trichloroethane	ND	10	ug/L	3.0
1,2-Dichloroethane	ND	5.0	ug/L	4.0
Tetrachloroethene	ND	10	ug/L	7.0
2-Hexanone	ND	50	ug/L	30
Dibromochloromethane	ND	10	ug/L	4.0
Chlorobenzene	ND	10	ug/L	3.0
1,1,1,2-Tetrachloroethane	ND	10	ug/L	3.0
Ethylbenzene	ND	10	ug/L	2.0
Xylenes (total)	ND	10	ug/L	8.0

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_11_07172001_1001

GC/MS Volatiles

Lot-Sample #...: E1G170296-003 **Work Order #...:** EGHF81AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	10	ug/L	3.0
Bromoform	ND	10	ug/L	3.0
Isopropylbenzene	ND	10	ug/L	3.0
1,1,2,2-Tetrachloroethane	ND	10	ug/L	4.0
1,2,3-Trichloropropane	ND	10	ug/L	4.0
n-Propylbenzene	ND	10	ug/L	4.0
Bromobenzene	ND	10	ug/L	3.0
1,3,5-Trimethylbenzene	ND	10	ug/L	2.0
2-Chlorotoluene	ND	10	ug/L	3.0
4-Chlorotoluene	ND	10	ug/L	3.0
tert-Butylbenzene	ND	10	ug/L	2.0
1,2,4-Trimethylbenzene	ND	10	ug/L	3.0
sec-Butylbenzene	ND	10	ug/L	3.0
p-Isopropyltoluene	ND	10	ug/L	3.0
1,3-Dichlorobenzene	ND	10	ug/L	3.0
1,4-Dichlorobenzene	ND	10	ug/L	3.0
n-Butylbenzene	ND	10	ug/L	3.0
1,2-Dichlorobenzene	ND	10	ug/L	3.0
1,2-Dibromo-3-chloro-propane	ND	20	ug/L	7.0
1,2,4-Trichloro-benzene	ND	10	ug/L	3.0
Hexachlorobutadiene	ND	10	ug/L	3.0
1,2,3-Trichlorobenzene	ND	10	ug/L	4.0
Acrolein	ND	200	ug/L	120
Tert-amyl methyl ether	ND	20	ug/L	5.0
Acrylonitrile	ND	200	ug/L	100
Tert-butyl ethyl ether	ND	20	ug/L	5.0
t-Butanol	ND	250	ug/L	60
Iodomethane	ND	20	ug/L	10
Isopropyl ether	ND	20	ug/L	5.0
2-Chloroethyl vinyl ether	ND	50	ug/L	20
Tetrahydrofuran	ND	100	ug/L	20
Vinyl acetate	ND	50	ug/L	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 120)
1,2-Dichloroethane-d4	99	(65 - 130)
Toluene-d8	108	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_11_07172001_1001

GC/MS Volatiles

Lot-Sample #...:	E1G170296-003	**Work Order #...:**	EGHF82AA	**Matrix.....:**	WATER
Date Sampled...:	07/17/01 11:05	**Date Received..:**	07/17/01 17:15	**MS Run #.....:**	1201175
Prep Date.....:	07/20/01	**Analysis Date..:**	07/20/01		
Prep Batch #...:	1201324	**Analysis Time..:**	05:20		
Dilution Factor:	2				
Analyst ID.....:	004648	**Instrument ID..:**	MSH		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	2.0	ug/L	0.80
Chloromethane	ND	4.0	ug/L	0.60
Vinyl chloride	ND	1.0	ug/L	0.60
Chloroethane	ND	4.0	ug/L	0.60
Bromomethane	ND	4.0	ug/L	2.0
Trichlorofluoromethane	ND	4.0	ug/L	0.60
1,1,2-Trichlorotrifluoro-ethane	ND	2.0	ug/L	0.80
Methylene chloride	**0.75 J**	**2.0**	**ug/L**	**0.60**
Methyl tert-butyl ether	ND	2.0	ug/L	1.0
Carbon disulfide	ND	2.0	ug/L	0.60
Acetone	ND	20	ug/L	6.0
trans-1,2-Dichloroethene	ND	2.0	ug/L	0.60
1,1-Dichloroethane	ND	2.0	ug/L	0.40
2,2-Dichloropropane	ND	2.0	ug/L	0.60
cis-1,2-Dichloroethene	ND	2.0	ug/L	0.60
Chloroform	**390 E**	**2.0**	**ug/L**	**0.60**
Bromochloromethane	ND	2.0	ug/L	0.60
1,1,1-Trichloroethane	ND	2.0	ug/L	0.40
2-Butanone	ND	10	ug/L	6.0
1,1-Dichloropropene	ND	2.0	ug/L	0.60
Carbon tetrachloride	**2.0**	**1.0**	**ug/L**	**0.60**
1,2-Dibromoethane	ND	2.0	ug/L	0.60
Benzene	ND	2.0	ug/L	0.60
Trichloroethene	**11**	**2.0**	**ug/L**	**0.60**
Bromodichloromethane	ND	2.0	ug/L	0.60
4-Methyl-2-pentanone	ND	10	ug/L	6.0
Toluene	**4.9**	**2.0**	**ug/L**	**0.60**
1,1,2-Trichloroethane	ND	2.0	ug/L	0.60
1,2-Dichloroethane	ND	1.0	ug/L	0.80
Tetrachloroethene	**2.5**	**2.0**	**ug/L**	**1.4**
2-Hexanone	ND	10	ug/L	6.0
Dibromochloromethane	ND	2.0	ug/L	0.80
Chlorobenzene	ND	2.0	ug/L	0.60
1,1,1,2-Tetrachloroethane	ND	2.0	ug/L	0.60
Ethylbenzene	ND	2.0	ug/L	0.40
Xylenes (total)	ND	2.0	ug/L	1.6

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_11_07172001_1001

GC/MS Volatiles

Lot-Sample #...: E1G170296-003 **Work Order #...:** EGHF82AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	2.0	ug/L	0.60
Bromoform	ND	2.0	ug/L	0.60
Isopropylbenzene	ND	2.0	ug/L	0.60
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L	0.80
1,2,3-Trichloropropane	ND	2.0	ug/L	0.80
n-Propylbenzene	ND	2.0	ug/L	0.80
Bromobenzene	ND	2.0	ug/L	0.60
1,3,5-Trimethylbenzene	ND	2.0	ug/L	0.40
2-Chlorotoluene	ND	2.0	ug/L	0.60
4-Chlorotoluene	ND	2.0	ug/L	0.60
tert-Butylbenzene	ND	2.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	2.0	ug/L	0.60
sec-Butylbenzene	ND	2.0	ug/L	0.60
p-Isopropyltoluene	ND	2.0	ug/L	0.60
1,3-Dichlorobenzene	ND	2.0	ug/L	0.60
1,4-Dichlorobenzene	ND	2.0	ug/L	0.60
n-Butylbenzene	ND	2.0	ug/L	0.60
1,2-Dichlorobenzene	ND	2.0	ug/L	0.60
1,2-Dibromo-3-chloro-propane	ND	4.0	ug/L	1.4
1,2,4-Trichloro-benzene	ND	2.0	ug/L	0.60
Hexachlorobutadiene	ND	2.0	ug/L	0.60
1,2,3-Trichlorobenzene	**0.83 J**	**2.0**	**ug/L**	**0.80**
Acrolein	ND	40	ug/L	24
Tert-amyl methyl ether	ND	4.0	ug/L	1.0
Acrylonitrile	ND	40	ug/L	20
Tert-butyl ethyl ether	ND	4.0	ug/L	1.0
t-Butanol	ND	50	ug/L	12
Iodomethane	ND	4.0	ug/L	2.0
Isopropyl ether	ND	4.0	ug/L	1.0
2-Chloroethyl vinyl ether	ND	10	ug/L	4.0
Tetrahydrofuran	ND	20	ug/L	4.0
Vinyl acetate	ND	10	ug/L	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(75 - 120)
1,2-Dichloroethane-d4	102	(65 - 130)
Toluene-d8	111	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_12_07172001_1003

GC/MS Volatiles

Lot-Sample #...: E1G170296-004 **Work Order #...:** EGHGA1AA **Matrix.....:** WATER
Date Sampled...: 07/17/01 11:38 **Date Received..:** 07/17/01 17:15 **MS Run #.....:** 1200115
Prep Date.....: 07/19/01 **Analysis Date..:** 07/19/01
Prep Batch #...: 1200253 **Analysis Time..:** 04:50
Dilution Factor: 25
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	25	ug/L	10
Chloromethane	ND	50	ug/L	7.5
Vinyl chloride	ND	12	ug/L	7.5
Chloroethane	ND	50	ug/L	7.5
Bromomethane	ND	50	ug/L	25
Trichlorofluoromethane	ND	50	ug/L	7.5
1,1,2-Trichlorotrifluoro-ethane	ND	25	ug/L	10
Methylene chloride	ND	25	ug/L	7.5
Methyl tert-butyl ether	ND	25	ug/L	12
Carbon disulfide	ND	25	ug/L	7.5
Acetone	ND	250	ug/L	75
trans-1,2-Dichloroethene	ND	25	ug/L	7.5
1,1-Dichloroethane	ND	25	ug/L	5.0
2,2-Dichloropropane	ND	25	ug/L	7.5
cis-1,2-Dichloroethene	ND	25	ug/L	7.5
Chloroform	**1400**	**25**	**ug/L**	**7.5**
Bromochloromethane	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
2-Butanone	ND	120	ug/L	75
1,1-Dichloropropene	ND	25	ug/L	7.5
Carbon tetrachloride	ND	12	ug/L	7.5
1,2-Dibromoethane	ND	25	ug/L	7.5
Benzene	ND	25	ug/L	7.5
Trichloroethene	**210**	**25**	**ug/L**	**7.5**
Bromodichloromethane	ND	25	ug/L	7.5
4-Methyl-2-pentanone	ND	120	ug/L	75
Toluene	**7.6 J**	**25**	**ug/L**	**7.5**
1,1,2-Trichloroethane	ND	25	ug/L	7.5
1,2-Dichloroethane	ND	12	ug/L	10
Tetrachloroethene	ND	25	ug/L	18
2-Hexanone	ND	120	ug/L	75
Dibromochloromethane	ND	25	ug/L	10
Chlorobenzene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
Ethylbenzene	ND	25	ug/L	5.0
Xylenes (total)	ND	25	ug/L	20

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_12_07172001_1003

GC/MS Volatiles

Lot-Sample #...: E1G170296-004 **Work Order #...:** EGHGA1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	25	ug/L	7.5
Bromoform	ND	25	ug/L	7.5
Isopropylbenzene	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
1,2,3-Trichloropropane	ND	25	ug/L	10
n-Propylbenzene	ND	25	ug/L	10
Bromobenzene	ND	25	ug/L	7.5
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
1,2,4-Trimethylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
p-Isopropyltoluene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
n-Butylbenzene	ND	25	ug/L	7.5
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	18
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
Hexachlorobutadiene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
Acrolein	ND	500	ug/L	300
Tert-amyl methyl ether	ND	50	ug/L	12
Acrylonitrile	ND	500	ug/L	250
Tert-butyl ethyl ether	ND	50	ug/L	12
t-Butanol	ND	620	ug/L	150
Iodomethane	ND	50	ug/L	25
Isopropyl ether	ND	50	ug/L	12
2-Chloroethyl vinyl ether	ND	120	ug/L	50
Tetrahydrofuran	**120 J**	**250**	**ug/L**	**50**
Vinyl acetate	ND	120	ug/L	50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 120)
1,2-Dichloroethane-d4	97	(65 - 130)
Toluene-d8	103	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_12_07172001_1003

GC/MS Volatiles

Lot-Sample #...: E1G170296-004 **Work Order #...:** EGHGA2AA **Matrix.....:** WATER
Date Sampled...: 07/17/01 11:38 **Date Received..:** 07/17/01 17:15 **MS Run #.....:** 1201175
Prep Date.....: 07/20/01 **Analysis Date..:** 07/20/01
Prep Batch #...: 1201324 **Analysis Time..:** 05:50
Dilution Factor: 5
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	5.0	ug/L	2.0
Chloromethane	ND	10	ug/L	1.5
Vinyl chloride	ND	2.5	ug/L	1.5
Chloroethane	ND	10	ug/L	1.5
Bromomethane	ND	10	ug/L	5.0
Trichlorofluoromethane	ND	10	ug/L	1.5
1,1,2-Trichlorotrifluoro-ethane	ND	5.0	ug/L	2.0
Methylene chloride	ND	5.0	ug/L	1.5
Methyl tert-butyl ether	ND	5.0	ug/L	2.5
Carbon disulfide	ND	5.0	ug/L	1.5
Acetone	ND	50	ug/L	15
trans-1,2-Dichloroethene	ND	5.0	ug/L	1.5
1,1-Dichloroethane	ND	5.0	ug/L	1.0
2,2-Dichloropropane	ND	5.0	ug/L	1.5
cis-1,2-Dichloroethene	ND	5.0	ug/L	1.5
Chloroform	**1100 E**	**5.0**	**ug/L**	**1.5**
Bromochloromethane	ND	5.0	ug/L	1.5
1,1,1-Trichloroethane	ND	5.0	ug/L	1.0
2-Butanone	ND	25	ug/L	15
1,1-Dichloropropene	ND	5.0	ug/L	1.5
Carbon tetrachloride	**2.9**	**2.5**	**ug/L**	**1.5**
1,2-Dibromoethane	ND	5.0	ug/L	1.5
Benzene	ND	5.0	ug/L	1.5
Trichloroethene	**170**	**5.0**	**ug/L**	**1.5**
Bromodichloromethane	ND	5.0	ug/L	1.5
4-Methyl-2-pentanone	ND	25	ug/L	15
Toluene	**6.7**	**5.0**	**ug/L**	**1.5**
1,1,2-Trichloroethane	ND	5.0	ug/L	1.5
1,2-Dichloroethane	ND	2.5	ug/L	2.0
Tetrachloroethene	**12**	**5.0**	**ug/L**	**3.5**
2-Hexanone	ND	25	ug/L	15
Dibromochloromethane	ND	5.0	ug/L	2.0
Chlorobenzene	ND	5.0	ug/L	1.5
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	1.5
Ethylbenzene	ND	5.0	ug/L	1.0
Xylenes (total)	ND	5.0	ug/L	4.0

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_12_07172001_1003

GC/MS Volatiles

Lot-Sample #...: E1G170296-004 **Work Order #...:** EGHGA2AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	5.0	ug/L	1.5
Bromoform	ND	5.0	ug/L	1.5
Isopropylbenzene	ND	5.0	ug/L	1.5
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	2.0
1,2,3-Trichloropropane	ND	5.0	ug/L	2.0
n-Propylbenzene	ND	5.0	ug/L	2.0
Bromobenzene	ND	5.0	ug/L	1.5
1,3,5-Trimethylbenzene	ND	5.0	ug/L	1.0
2-Chlorotoluene	ND	5.0	ug/L	1.5
4-Chlorotoluene	ND	5.0	ug/L	1.5
tert-Butylbenzene	ND	5.0	ug/L	1.0
1,2,4-Trimethylbenzene	ND	5.0	ug/L	1.5
sec-Butylbenzene	ND	5.0	ug/L	1.5
p-Isopropyltoluene	ND	5.0	ug/L	1.5
1,3-Dichlorobenzene	ND	5.0	ug/L	1.5
1,4-Dichlorobenzene	ND	5.0	ug/L	1.5
n-Butylbenzene	ND	5.0	ug/L	1.5
1,2-Dichlorobenzene	ND	5.0	ug/L	1.5
1,2-Dibromo-3-chloro-propane	ND	10	ug/L	3.5
1,2,4-Trichloro-benzene	ND	5.0	ug/L	1.5
Hexachlorobutadiene	ND	5.0	ug/L	1.5
1,2,3-Trichlorobenzene	ND	5.0	ug/L	2.0
Acrolein	ND	100	ug/L	60
Tert-amyl methyl ether	ND	10	ug/L	2.5
Acrylonitrile	ND	100	ug/L	50
Tert-butyl ethyl ether	ND	10	ug/L	2.5
t-Butanol	ND	120	ug/L	30
Iodomethane	ND	10	ug/L	5.0
Isopropyl ether	ND	10	ug/L	2.5
2-Chloroethyl vinyl ether	ND	25	ug/L	10
Tetrahydrofuran	ND	50	ug/L	10
Vinyl acetate	ND	25	ug/L	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	110	(75 - 120)
1,2-Dichloroethane-d4	102	(65 - 130)
Toluene-d8	110	(80 - 130)

NOTE(S):

E Estimated result. Result concentration exceeds the calibration range.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_13_07172001_1004

GC/MS Volatiles

Lot-Sample #...: E1G170296-005 Work Order #...: EGHGC1AA Matrix.....: WATER
Date Sampled...: 07/17/01 12:29 Date Received..: 07/17/01 17:15 MS Run #.....: 1200115
Prep Date.....: 07/19/01 Analysis Date..: 07/19/01
Prep Batch #...: 1200253 Analysis Time..: 05:20
Dilution Factor: 1
Analyst ID.....: 004648 Instrument ID..: MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	**0.93 J**	**1.0**	**ug/L**	**0.30**
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	**11**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	**1.2**	**0.50**	**ug/L**	**0.30**
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**72**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	**2.0**	**1.0**	**ug/L**	**0.70**
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_13_07172001_1004

GC/MS Volatiles

Lot-Sample #...: E1G170296-005 **Work Order #...:** EGHGC1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 120)
1,2-Dichloroethane-d4	100	(65 - 130)
Toluene-d8	104	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_13_07172001_0004

GC/MS Volatiles

Lot-Sample #...:	E1G170296-006	**Work Order #...:**	EGHGD1AA	**Matrix.....:**	WATER
Date Sampled...:	07/17/01 12:21	**Date Received..:**	07/17/01 17:15	**MS Run #.....:**	1200115
Prep Date.....:	07/19/01	**Analysis Date..:**	07/19/01		
Prep Batch #...:	1200253	**Analysis Time..:**	05:50		
Dilution Factor:	1				
Analyst ID.....:	004648	**Instrument ID..:**	MSH		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	**6.5 J**	**10**	**ug/L**	**3.0**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	**1.4**	**1.0**	**ug/L**	**0.30**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.70
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	**0.82 J**	**1.0**	**ug/L**	**0.80**

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_13_07172001_0004

GC/MS Volatiles

Lot-Sample #...: E1G170296-006 **Work Order #...:** EGHGD1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 120)
1,2-Dichloroethane-d4	95	(65 - 130)
Toluene-d8	102	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_5_07172001_1005

GC/MS Volatiles

Lot-Sample #...: E1G170296-007 **Work Order #...:** EGHGE1AA **Matrix.....:** WATER
Date Sampled...: 07/17/01 13:19 **Date Received..:** 07/17/01 17:15 **MS Run #.....:** 1200115
Prep Date.....: 07/19/01 **Analysis Date..:** 07/19/01
Prep Batch #...: 1200253 **Analysis Time..:** 08:50
Dilution Factor: 50
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	50	ug/L	20
Chloromethane	ND	100	ug/L	15
Vinyl chloride	ND	25	ug/L	15
Chloroethane	ND	100	ug/L	15
Bromomethane	ND	100	ug/L	50
Trichlorofluoromethane	ND	100	ug/L	15
1,1,2-Trichlorotrifluoro-ethane	ND	50	ug/L	20
Methylene chloride	ND	50	ug/L	15
Methyl tert-butyl ether	ND	50	ug/L	25
Carbon disulfide	ND	50	ug/L	15
Acetone	ND	500	ug/L	150
trans-1,2-Dichloroethene	ND	50	ug/L	15
1,1-Dichloroethane	ND	50	ug/L	10
2,2-Dichloropropane	ND	50	ug/L	15
cis-1,2-Dichloroethene	ND	50	ug/L	15
Chloroform	**18 J**	**50**	**ug/L**	**15**
Bromochloromethane	ND	50	ug/L	15
1,1,1-Trichloroethane	ND	50	ug/L	10
2-Butanone	ND	250	ug/L	150
1,1-Dichloropropene	ND	50	ug/L	15
Carbon tetrachloride	ND	25	ug/L	15
1,2-Dibromoethane	ND	50	ug/L	15
Benzene	ND	50	ug/L	15
Trichloroethene	**4700**	**50**	**ug/L**	**15**
Bromodichloromethane	ND	50	ug/L	15
4-Methyl-2-pentanone	ND	250	ug/L	150
Toluene	**24 J**	**50**	**ug/L**	**15**
1,1,2-Trichloroethane	ND	50	ug/L	15
1,2-Dichloroethane	ND	25	ug/L	20
Tetrachloroethene	ND	50	ug/L	35
2-Hexanone	ND	250	ug/L	150
Dibromochloromethane	ND	50	ug/L	20
Chlorobenzene	ND	50	ug/L	15
1,1,1,2-Tetrachloroethane	ND	50	ug/L	15
Ethylbenzene	ND	50	ug/L	10
Xylenes (total)	ND	50	ug/L	40

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_5_07172001_1005

GC/MS Volatiles

Lot-Sample #...: E1G170296-007 **Work Order #...:** EGHGE1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	50	ug/L	15
Bromoform	ND	50	ug/L	15
Isopropylbenzene	ND	50	ug/L	15
1,1,2,2-Tetrachloroethane	ND	50	ug/L	20
1,2,3-Trichloropropane	ND	50	ug/L	20
n-Propylbenzene	ND	50	ug/L	20
Bromobenzene	ND	50	ug/L	15
1,3,5-Trimethylbenzene	ND	50	ug/L	10
2-Chlorotoluene	ND	50	ug/L	15
4-Chlorotoluene	ND	50	ug/L	15
tert-Butylbenzene	ND	50	ug/L	10
1,2,4-Trimethylbenzene	ND	50	ug/L	15
sec-Butylbenzene	ND	50	ug/L	15
p-Isopropyltoluene	ND	50	ug/L	15
1,3-Dichlorobenzene	ND	50	ug/L	15
1,4-Dichlorobenzene	ND	50	ug/L	15
n-Butylbenzene	ND	50	ug/L	15
1,2-Dichlorobenzene	ND	50	ug/L	15
1,2-Dibromo-3-chloro-propane	ND	100	ug/L	35
1,2,4-Trichloro-benzene	ND	50	ug/L	15
Hexachlorobutadiene	ND	50	ug/L	15
1,2,3-Trichlorobenzene	ND	50	ug/L	20
Acrolein	ND	1000	ug/L	600
Tert-amyl methyl ether	ND	100	ug/L	25
Acrylonitrile	ND	1000	ug/L	500
Tert-butyl ethyl ether	ND	100	ug/L	25
t-Butanol	ND	1200	ug/L	300
Iodomethane	ND	100	ug/L	50
Isopropyl ether	ND	100	ug/L	25
2-Chloroethyl vinyl ether	ND	250	ug/L	100
Tetrahydrofuran	ND	500	ug/L	100
Vinyl acetate	ND	250	ug/L	100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(75 - 120)
1,2-Dichloroethane-d4	95	(65 - 130)
Toluene-d8	101	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_5_07172001_1005

GC/MS Volatiles

Lot-Sample #...: E1G170296-007 Work Order #...: EGHGE2AA Matrix.....: WATER
Date Sampled...: 07/17/01 13:19 Date Received..: 07/17/01 17:15 MS Run #.....: 1201175
Prep Date.....: 07/20/01 Analysis Date..: 07/20/01
Prep Batch #...: 1201324 Analysis Time..: 06:20
Dilution Factor: 10
Analyst ID.....: 004648 Instrument ID..: MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/L	4.0
Chloromethane	ND	20	ug/L	3.0
Vinyl chloride	ND	5.0	ug/L	3.0
Chloroethane	ND	20	ug/L	3.0
Bromomethane	ND	20	ug/L	10
Trichlorofluoromethane	ND	20	ug/L	3.0
1,1,2-Trichlorotrifluoro-ethane	ND	10	ug/L	4.0
Methylene chloride	ND	10	ug/L	3.0
Methyl tert-butyl ether	ND	10	ug/L	5.0
Carbon disulfide	ND	10	ug/L	3.0
Acetone	ND	100	ug/L	30
trans-1,2-Dichloroethene	ND	10	ug/L	3.0
1,1-Dichloroethane	**5.8 J**	**10**	**ug/L**	**2.0**
2,2-Dichloropropane	ND	10	ug/L	3.0
cis-1,2-Dichloroethene	**7.0 J**	**10**	**ug/L**	**3.0**
Chloroform	**19**	**10**	**ug/L**	**3.0**
Bromochloromethane	ND	10	ug/L	3.0
1,1,1-Trichloroethane	ND	10	ug/L	2.0
2-Butanone	ND	50	ug/L	30
1,1-Dichloropropene	ND	10	ug/L	3.0
Carbon tetrachloride	ND	5.0	ug/L	3.0
1,2-Dibromoethane	ND	10	ug/L	3.0
Benzene	ND	10	ug/L	3.0
Trichloroethene	**3500 E**	**10**	**ug/L**	**3.0**
Bromodichloromethane	ND	10	ug/L	3.0
4-Methyl-2-pentanone	ND	50	ug/L	30
Toluene	**20**	**10**	**ug/L**	**3.0**
1,1,2-Trichloroethane	**13**	**10**	**ug/L**	**3.0**
1,2-Dichloroethane	**11**	**5.0**	**ug/L**	**4.0**
Tetrachloroethene	ND	10	ug/L	7.0
2-Hexanone	ND	50	ug/L	30
Dibromochloromethane	ND	10	ug/L	4.0
Chlorobenzene	ND	10	ug/L	3.0
1,1,1,2-Tetrachloroethane	ND	10	ug/L	3.0
Ethylbenzene	ND	10	ug/L	2.0
Xylenes (total)	ND	10	ug/L	8.0

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_5_07172001_1005

GC/MS Volatiles

Lot-Sample #...: E1G170296-007 **Work Order #...:** EGHGE2AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	10	ug/L	3.0
Bromoform	ND	10	ug/L	3.0
Isopropylbenzene	ND	10	ug/L	3.0
1,1,2,2-Tetrachloroethane	ND	10	ug/L	4.0
1,2,3-Trichloropropane	ND	10	ug/L	4.0
n-Propylbenzene	ND	10	ug/L	4.0
Bromobenzene	ND	10	ug/L	3.0
1,3,5-Trimethylbenzene	ND	10	ug/L	2.0
2-Chlorotoluene	ND	10	ug/L	3.0
4-Chlorotoluene	ND	10	ug/L	3.0
tert-Butylbenzene	ND	10	ug/L	2.0
1,2,4-Trimethylbenzene	ND	10	ug/L	3.0
sec-Butylbenzene	ND	10	ug/L	3.0
p-Isopropyltoluene	ND	10	ug/L	3.0
1,3-Dichlorobenzene	ND	10	ug/L	3.0
1,4-Dichlorobenzene	ND	10	ug/L	3.0
n-Butylbenzene	ND	10	ug/L	3.0
1,2-Dichlorobenzene	ND	10	ug/L	3.0
1,2-Dibromo-3-chloro-propane	ND	20	ug/L	7.0
1,2,4-Trichloro-benzene	ND	10	ug/L	3.0
Hexachlorobutadiene	ND	10	ug/L	3.0
1,2,3-Trichlorobenzene	ND	10	ug/L	4.0
Acrolein	ND	200	ug/L	120
Tert-amyl methyl ether	ND	20	ug/L	5.0
Acrylonitrile	ND	200	ug/L	100
Tert-butyl ethyl ether	ND	20	ug/L	5.0
t-Butanol	ND	250	ug/L	60
Iodomethane	ND	20	ug/L	10
Isopropyl ether	ND	20	ug/L	5.0
2-Chloroethyl vinyl ether	ND	50	ug/L	20
Tetrahydrofuran	ND	100	ug/L	20
Vinyl acetate	ND	50	ug/L	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 120)
1,2-Dichloroethane-d4	100	(65 - 130)
Toluene-d8	104	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_6_07172001_1006

GC/MS Volatiles

Lot-Sample #...: E1G170296-008 **Work Order #...:** EGHGF1AA **Matrix.....:** WATER
Date Sampled...: 07/17/01 14:21 **Date Received..:** 07/17/01 17:15 **MS Run #.....:** 1200115
Prep Date.....: 07/19/01 **Analysis Date..:** 07/19/01
Prep Batch #...: 1200253 **Analysis Time..:** 06:20
Dilution Factor: 5
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	5.0	ug/L	2.0
Chloromethane	ND	10	ug/L	1.5
Vinyl chloride	ND	2.5	ug/L	1.5
Chloroethane	ND	10	ug/L	1.5
Bromomethane	ND	10	ug/L	5.0
Trichlorofluoromethane	ND	10	ug/L	1.5
1,1,2-Trichlorotrifluoro-ethane	ND	5.0	ug/L	2.0
Methylene chloride	ND	5.0	ug/L	1.5
Methyl tert-butyl ether	ND	5.0	ug/L	2.5
Carbon disulfide	ND	5.0	ug/L	1.5
Acetone	ND	50	ug/L	15
trans-1,2-Dichloroethene	ND	5.0	ug/L	1.5
1,1-Dichloroethane	ND	5.0	ug/L	1.0
2,2-Dichloropropane	ND	5.0	ug/L	1.5
cis-1,2-Dichloroethene	ND	5.0	ug/L	1.5
Chloroform	**250**	**5.0**	**ug/L**	**1.5**
Bromochloromethane	ND	5.0	ug/L	1.5
1,1,1-Trichloroethane	ND	5.0	ug/L	1.0
2-Butanone	ND	25	ug/L	15
1,1-Dichloropropene	ND	5.0	ug/L	1.5
Carbon tetrachloride	ND	2.5	ug/L	1.5
1,2-Dibromoethane	ND	5.0	ug/L	1.5
Benzene	ND	5.0	ug/L	1.5
Trichloroethene	**63**	**5.0**	**ug/L**	**1.5**
Bromodichloromethane	ND	5.0	ug/L	1.5
4-Methyl-2-pentanone	ND	25	ug/L	15
Toluene	**17**	**5.0**	**ug/L**	**1.5**
1,1,2-Trichloroethane	ND	5.0	ug/L	1.5
1,2-Dichloroethane	ND	2.5	ug/L	2.0
Tetrachloroethene	ND	5.0	ug/L	3.5
2-Hexanone	ND	25	ug/L	15
Dibromochloromethane	ND	5.0	ug/L	2.0
Chlorobenzene	ND	5.0	ug/L	1.5
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	1.5
Ethylbenzene	ND	5.0	ug/L	1.0
Xylenes (total)	ND	5.0	ug/L	4.0

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_6_07172001_1006

GC/MS Volatiles

Lot-Sample #...: E1G170296-008 **Work Order #...:** EGHGF1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	5.0	ug/L	1.5
Bromoform	ND	5.0	ug/L	1.5
Isopropylbenzene	ND	5.0	ug/L	1.5
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	2.0
1,2,3-Trichloropropane	ND	5.0	ug/L	2.0
n-Propylbenzene	ND	5.0	ug/L	2.0
Bromobenzene	ND	5.0	ug/L	1.5
1,3,5-Trimethylbenzene	ND	5.0	ug/L	1.0
2-Chlorotoluene	ND	5.0	ug/L	1.5
4-Chlorotoluene	ND	5.0	ug/L	1.5
tert-Butylbenzene	ND	5.0	ug/L	1.0
1,2,4-Trimethylbenzene	ND	5.0	ug/L	1.5
sec-Butylbenzene	ND	5.0	ug/L	1.5
p-Isopropyltoluene	ND	5.0	ug/L	1.5
1,3-Dichlorobenzene	ND	5.0	ug/L	1.5
1,4-Dichlorobenzene	ND	5.0	ug/L	1.5
n-Butylbenzene	ND	5.0	ug/L	1.5
1,2-Dichlorobenzene	ND	5.0	ug/L	1.5
1,2-Dibromo-3-chloro-propane	ND	10	ug/L	3.5
1,2,4-Trichloro-benzene	ND	5.0	ug/L	1.5
Hexachlorobutadiene	ND	5.0	ug/L	1.5
1,2,3-Trichlorobenzene	ND	5.0	ug/L	2.0
Acrolein	ND	100	ug/L	60
Tert-amyl methyl ether	ND	10	ug/L	2.5
Acrylonitrile	ND	100	ug/L	50
Tert-butyl ethyl ether	ND	10	ug/L	2.5
t-Butanol	ND	120	ug/L	30
Iodomethane	ND	10	ug/L	5.0
Isopropyl ether	ND	10	ug/L	2.5
2-Chloroethyl vinyl ether	ND	25	ug/L	10
Tetrahydrofuran	ND	50	ug/L	10
Vinyl acetate	ND	25	ug/L	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 120)
1,2-Dichloroethane-d4	99	(65 - 130)
Toluene-d8	105	(80 - 130)

TAIT ENVIRONMENTAL

Client Sample ID: TMW_6_07172001_1006

GC/MS Volatiles

Lot-Sample #...:	E1G170296-008	**Work Order #...:**	EGHGF2AA	**Matrix.....:**	WATER
Date Sampled...:	07/17/01 14:21	**Date Received..:**	07/17/01 17:15	**MS Run #.....:**	1201175
Prep Date.....:	07/20/01	**Analysis Date..:**	07/20/01		
Prep Batch #...:	1201324	**Analysis Time..:**	06:49		
Dilution Factor:	1				
Analyst ID.....:	004648	**Instrument ID..:**	MSH		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	**0.23 J**	**1.0**	**ug/L**	**0.20**
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	**200 E**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**55**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	**0.49 J**	**1.0**	**ug/L**	**0.30**
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	**15**	**1.0**	**ug/L**	**0.30**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.70
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_6_07172001_1006

GC/MS Volatiles

Lot-Sample #...: E1G170296-008 **Work Order #...:** EGHGF2AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(75 - 120)
1,2-Dichloroethane-d4	104	(65 - 130)
Toluene-d8	107	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_4_07172001_1007

GC/MS Volatiles

Lot-Sample #...: E1G170296-009 Work Order #...: EGHGG1AA Matrix.....: WATER
Date Sampled...: 07/17/01 14:55 Date Received..: 07/17/01 17:15 MS Run #.....: 1200115
Prep Date.....: 07/19/01 Analysis Date..: 07/19/01
Prep Batch #...: 1200253 Analysis Time..: 06:50
Dilution Factor: 25
Analyst ID.....: 004648 Instrument ID..: MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	25	ug/L	10
Chloromethane	ND	50	ug/L	7.5
Vinyl chloride	ND	12	ug/L	7.5
Chloroethane	ND	50	ug/L	7.5
Bromomethane	ND	50	ug/L	25
Trichlorofluoromethane	ND	50	ug/L	7.5
1,1,2-Trichlorotrifluoro-ethane	ND	25	ug/L	10
Methylene chloride	ND	25	ug/L	7.5
Methyl tert-butyl ether	ND	25	ug/L	12
Carbon disulfide	ND	25	ug/L	7.5
Acetone	ND	250	ug/L	75
trans-1,2-Dichloroethene	**21 J**	**25**	**ug/L**	**7.5**
1,1-Dichloroethane	**15 J**	**25**	**ug/L**	**5.0**
2,2-Dichloropropane	ND	25	ug/L	7.5
cis-1,2-Dichloroethene	**25**	**25**	**ug/L**	**7.5**
Chloroform	**16 J**	**25**	**ug/L**	**7.5**
Bromochloromethane	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
2-Butanone	ND	120	ug/L	75
1,1-Dichloropropene	ND	25	ug/L	7.5
Carbon tetrachloride	ND	12	ug/L	7.5
1,2-Dibromoethane	ND	25	ug/L	7.5
Benzene	ND	25	ug/L	7.5
Trichloroethene	**1800**	**25**	**ug/L**	**7.5**
Bromodichloromethane	ND	25	ug/L	7.5
4-Methyl-2-pentanone	ND	120	ug/L	75
Toluene	ND	25	ug/L	7.5
1,1,2-Trichloroethane	ND	25	ug/L	7.5
1,2-Dichloroethane	ND	12	ug/L	10
Tetrachloroethene	ND	25	ug/L	18
2-Hexanone	ND	120	ug/L	75
Dibromochloromethane	ND	25	ug/L	10
Chlorobenzene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
Ethylbenzene	ND	25	ug/L	5.0
Xylenes (total)	ND	25	ug/L	20

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_4_07172001_1007

GC/MS Volatiles

Lot-Sample #...: E1G170296-009 **Work Order #...:** EGHGG1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	25	ug/L	7.5
Bromoform	ND	25	ug/L	7.5
Isopropylbenzene	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
1,2,3-Trichloropropane	ND	25	ug/L	10
n-Propylbenzene	ND	25	ug/L	10
Bromobenzene	ND	25	ug/L	7.5
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
1,2,4-Trimethylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
p-Isopropyltoluene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
n-Butylbenzene	ND	25	ug/L	7.5
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	18
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
Hexachlorobutadiene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
Acrolein	ND	500	ug/L	300
Tert-amyl methyl ether	ND	50	ug/L	12
Acrylonitrile	ND	500	ug/L	250
Tert-butyl ethyl ether	ND	50	ug/L	12
t-Butanol	ND	620	ug/L	150
Iodomethane	ND	50	ug/L	25
Isopropyl ether	ND	50	ug/L	12
2-Chloroethyl vinyl ether	ND	120	ug/L	50
Tetrahydrofuran	ND	250	ug/L	50
Vinyl acetate	ND	120	ug/L	50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 120)
1,2-Dichloroethane-d4	100	(65 - 130)
Toluene-d8	101	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_4_07172001_1007

GC/MS Volatiles

Lot-Sample #...: E1G170296-009 **Work Order #...:** EGHGG2AA **Matrix.....:** WATER
Date Sampled...: 07/17/01 14:55 **Date Received..:** 07/17/01 17:15 **MS Run #.....:** 1201285
Prep Date.....: 07/20/01 **Analysis Date..:** 07/20/01
Prep Batch #...: 1201534 **Analysis Time..:** 19:32
Dilution Factor: 5
Analyst ID.....: 015590 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	5.0	ug/L	2.0
Chloromethane	ND	10	ug/L	1.5
Vinyl chloride	ND	2.5	ug/L	1.5
Chloroethane	ND	10	ug/L	1.5
Bromomethane	ND	10	ug/L	5.0
Trichlorofluoromethane	ND	10	ug/L	1.5
1,1,2-Trichlorotrifluoro-ethane	ND	5.0	ug/L	2.0
Methylene chloride	**1.6 J**	**5.0**	**ug/L**	**1.5**
Methyl tert-butyl ether	ND	5.0	ug/L	2.5
Carbon disulfide	ND	5.0	ug/L	1.5
Acetone	ND	50	ug/L	15
trans-1,2-Dichloroethene	**15**	**5.0**	**ug/L**	**1.5**
1,1-Dichloroethane	**12**	**5.0**	**ug/L**	**1.0**
2,2-Dichloropropane	ND	5.0	ug/L	1.5
cis-1,2-Dichloroethene	**22**	**5.0**	**ug/L**	**1.5**
Chloroform	**12**	**5.0**	**ug/L**	**1.5**
Bromochloromethane	ND	5.0	ug/L	1.5
1,1,1-Trichloroethane	ND	5.0	ug/L	1.0
2-Butanone	ND	25	ug/L	15
1,1-Dichloropropene	ND	5.0	ug/L	1.5
Carbon tetrachloride	ND	2.5	ug/L	1.5
1,2-Dibromoethane	ND	5.0	ug/L	1.5
Benzene	ND	5.0	ug/L	1.5
Trichloroethene	**1300 E**	**5.0**	**ug/L**	**1.5**
Bromodichloromethane	ND	5.0	ug/L	1.5
4-Methyl-2-pentanone	ND	25	ug/L	15
Toluene	**4.9 J**	**5.0**	**ug/L**	**1.5**
1,1,2-Trichloroethane	**6.1**	**5.0**	**ug/L**	**1.5**
1,2-Dichloroethane	**7.1**	**2.5**	**ug/L**	**2.0**
Tetrachloroethene	ND	5.0	ug/L	3.5
2-Hexanone	ND	25	ug/L	15
Dibromochloromethane	ND	5.0	ug/L	2.0
Chlorobenzene	ND	5.0	ug/L	1.5
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	1.5
Ethylbenzene	ND	5.0	ug/L	1.0
Xylenes (total)	ND	5.0	ug/L	4.0

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_4_07172001_1007

GC/MS Volatiles

Lot-Sample #...: E1G170296-009 **Work Order #...:** EGHGG2AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	5.0	ug/L	1.5
Bromoform	ND	5.0	ug/L	1.5
Isopropylbenzene	ND	5.0	ug/L	1.5
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	2.0
1,2,3-Trichloropropane	ND	5.0	ug/L	2.0
n-Propylbenzene	ND	5.0	ug/L	2.0
Bromobenzene	ND	5.0	ug/L	1.5
1,3,5-Trimethylbenzene	ND	5.0	ug/L	1.0
2-Chlorotoluene	ND	5.0	ug/L	1.5
4-Chlorotoluene	ND	5.0	ug/L	1.5
tert-Butylbenzene	ND	5.0	ug/L	1.0
1,2,4-Trimethylbenzene	ND	5.0	ug/L	1.5
sec-Butylbenzene	ND	5.0	ug/L	1.5
p-Isopropyltoluene	ND	5.0	ug/L	1.5
1,3-Dichlorobenzene	ND	5.0	ug/L	1.5
1,4-Dichlorobenzene	ND	5.0	ug/L	1.5
n-Butylbenzene	ND	5.0	ug/L	1.5
1,2-Dichlorobenzene	ND	5.0	ug/L	1.5
1,2-Dibromo-3-chloro-propane	ND	10	ug/L	3.5
1,2,4-Trichloro-benzene	ND	5.0	ug/L	1.5
Hexachlorobutadiene	ND	5.0	ug/L	1.5
1,2,3-Trichlorobenzene	ND	5.0	ug/L	2.0
Acrolein	ND	100	ug/L	60
Tert-amyl methyl ether	ND	10	ug/L	2.5
Acrylonitrile	ND	100	ug/L	50
Tert-butyl ethyl ether	ND	10	ug/L	2.5
t-Butanol	ND	120	ug/L	30
Iodomethane	ND	10	ug/L	5.0
Isopropyl ether	ND	10	ug/L	2.5
2-Chloroethyl vinyl ether	ND	25	ug/L	10
Tetrahydrofuran	ND	50	ug/L	10
Vinyl acetate	ND	25	ug/L	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(75 - 120)
1,2-Dichloroethane-d4	104	(65 - 130)
Toluene-d8	106	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_4_07172001_0002

GC/MS Volatiles

Lot-Sample #...:	E1G170296-010	**Work Order #...:**	EGHGH1AA	**Matrix.....:**	WATER
Date Sampled...:	07/17/01 15:01	**Date Received..:**	07/17/01 17:15	**MS Run #.....:**	1200115
Prep Date.....:	07/19/01	**Analysis Date..:**	07/19/01		
Prep Batch #...:	1200253	**Analysis Time..:**	07:20		
Dilution Factor:	1				
Analyst ID.....:	004648	**Instrument ID..:**	MSH		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	**5.9 J**	**10**	**ug/L**	**3.0**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	**6.0**	**5.0**	**ug/L**	**3.0**
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	**1.4**	**1.0**	**ug/L**	**0.30**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.70
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	**0.87 J**	**1.0**	**ug/L**	**0.80**

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_4_07172001_0002

GC/MS Volatiles

Lot-Sample #...: E1G170296-010 **Work Order #...:** EGHGH1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 120)
1,2-Dichloroethane-d4	97	(65 - 130)
Toluene-d8	102	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TRIP BLANKS

GC/MS Volatiles

Lot-Sample #...: E1G170296-011
Date Sampled...: 07/17/01
Prep Date.....: 07/19/01
Prep Batch #...: 1200253
Dilution Factor: 1
Analyst ID.....: 004648

Work Order #...: EGHGJ1AA
Date Received..: 07/17/01 17:15
Analysis Date..: 07/19/01
Analysis Time..: 01:20

Instrument ID..: MSH
Method.....: SW846 8260B

Matrix.....: WATER
MS Run #.....: 1200115

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.70
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

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TAIT ENVIRONMENTAL

Client Sample ID: TRIP BLANKS

GC/MS Volatiles

Lot-Sample #...: E1G170296-011 **Work Order #...:** EGHGJ1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 120)
1,2-Dichloroethane-d4	94	(65 - 130)
Toluene-d8	100	(80 - 130)

QC DATA ASSOCIATION SUMMARY

E1G170296

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8260B		1200253	1200115
002	WATER	SW846 8260B		1200253	1200115
003	WATER	SW846 8260B		1201324	1201175
004	WATER	SW846 8260B		1200253	1200115
	WATER	SW846 8260B		1201324	1201175
005	WATER	SW846 8260B		1200253	1200115
006	WATER	SW846 8260B		1200253	1200115
007	WATER	SW846 8260B		1200253	1200115
	WATER	SW846 8260B		1201324	1201175
008	WATER	SW846 8260B		1200253	1200115
	WATER	SW846 8260B		1201324	1201175
009	WATER	SW846 8260B		1200253	1200115
	WATER	SW846 8260B		1201534	1201285
010	WATER	SW846 8260B		1200253	1200115
011	WATER	SW846 8260B		1200253	1200115

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G170296
MB Lot-Sample #: E1G190000-253

Work Order #...: EGLC21AA

Matrix.....: WATER

Prep Date.....: 07/18/01
Prep Batch #...: 1200253

Analysis Time..: 22:20
Instrument ID..: MSH

Analysis Date..: 07/18/01
Dilution Factor: 1

Analyst ID.....: 004648

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G170296 **Work Order #...:** EGLC21AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Tert-amyl methyl ether	ND	2.0	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Tert-butyl ethyl ether	ND	2.0	ug/L	SW846 8260B
t-Butanol	ND	25	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
Isopropyl ether	ND	2.0	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 120)
1,2-Dichloroethane-d4	96	(65 - 130)
Toluene-d8	102	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G170296
MB Lot-Sample #: E1G200000-324

Work Order #...: EGN881AA

Matrix.....: WATER

Prep Date.....: 07/19/01
Prep Batch #...: 1201324

Analysis Time..: 21:50
Instrument ID..: MSH

Analysis Date..: 07/19/01
Dilution Factor: 1

Analyst ID.....: 004648

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G170296 **Work Order #...:** EGN881AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Tert-amyl methyl ether	ND	2.0	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Tert-butyl ethyl ether	ND	2.0	ug/L	SW846 8260B
t-Butanol	ND	25	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
Isopropyl ether	ND	2.0	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(75 - 120)
1,2-Dichloroethane-d4	97	(65 - 130)
Toluene-d8	108	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G170296
MB Lot-Sample #: E1G200000-534
Work Order #...: EGP4H1AA
Matrix.....: WATER
Prep Date.....: 07/20/01
Analysis Time..: 09:19
Analysis Date..: 07/20/01
Prep Batch #...: 1201534
Instrument ID..: MSH
Dilution Factor: 1
Analyst ID.....: 015590

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G170296 **Work Order #...:** EGP4H1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Tert-amyl methyl ether	ND	2.0	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Tert-butyl ethyl ether	ND	2.0	ug/L	SW846 8260B
t-Butanol	ND	25	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
Isopropyl ether	ND	2.0	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 120)
1,2-Dichloroethane-d4	100	(65 - 130)
Toluene-d8	104	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1G170296 **Work Order #...:** EGLC21AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G190000-253
Prep Date.....: 07/18/01 **Analysis Date..:** 07/18/01
Prep Batch #...: 1200253 **Analysis Time..:** 21:50
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 004648

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**10.0**	**10.8**	**ug/L**	**108**	**SW846 8260B**
Benzene	**10.0**	**9.08**	**ug/L**	**91**	**SW846 8260B**
Trichloroethene	**10.0**	**9.26**	**ug/L**	**93**	**SW846 8260B**
Toluene	**10.0**	**8.90**	**ug/L**	**89**	**SW846 8260B**
Chlorobenzene	**10.0**	**8.85**	**ug/L**	**88**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(75 - 120)
1,2-Dichloroethane-d4	99	(65 - 130)
Toluene-d8	103	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1G170296 **Work Order #...:** EGN881AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G200000-324
Prep Date.....: 07/20/01 **Analysis Date..:** 07/19/01
Prep Batch #...: 1201324 **Analysis Time..:** 21:20
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 004648

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**10.0**	**10.3**	**ug/L**	**103**	**SW846 8260B**
Benzene	**10.0**	**8.74**	**ug/L**	**87**	**SW846 8260B**
Trichloroethene	**10.0**	**8.80**	**ug/L**	**88**	**SW846 8260B**
Toluene	**10.0**	**8.72**	**ug/L**	**87**	**SW846 8260B**
Chlorobenzene	**10.0**	**8.58**	**ug/L**	**86**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	110	(75 - 120)
1,2-Dichloroethane-d4	104	(65 - 130)
Toluene-d8	113	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1G170296 **Work Order #...:** EGP4H1AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G200000-534
Prep Date.....: 07/20/01 **Analysis Date..:** 07/20/01
Prep Batch #...: 1201534 **Analysis Time..:** 08:49
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**10.0**	**10.5**	**ug/L**	**105**	**SW846 8260B**
Benzene	**10.0**	**9.02**	**ug/L**	**90**	**SW846 8260B**
Trichloroethene	**10.0**	**9.02**	**ug/L**	**90**	**SW846 8260B**
Toluene	**10.0**	**8.75**	**ug/L**	**88**	**SW846 8260B**
Chlorobenzene	**10.0**	**8.82**	**ug/L**	**88**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 120)
1,2-Dichloroethane-d4	101	(65 - 130)
Toluene-d8	103	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1G170296 **Work Order #...:** EGLC21AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G190000-253
Prep Date.....: 07/18/01 **Analysis Date..:** 07/18/01
Prep Batch #...: 1200253 **Analysis Time..:** 21:50
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 004648

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**108**	**(70 - 130)**	**SW846 8260B**
Benzene	**91**	**(75 - 120)**	**SW846 8260B**
Trichloroethene	**93**	**(75 - 130)**	**SW846 8260B**
Toluene	**89**	**(80 - 120)**	**SW846 8260B**
Chlorobenzene	**88**	**(80 - 120)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(75 - 120)
1,2-Dichloroethane-d4	99	(65 - 130)
Toluene-d8	103	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1G170296 **Work Order #...:** EGN881AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G200000-324
Prep Date.....: 07/20/01 **Analysis Date..:** 07/19/01
Prep Batch #...: 1201324 **Analysis Time..:** 21:20
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 004648

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**103**	**(70 - 130)**	**SW846 8260B**
Benzene	**87**	**(75 - 120)**	**SW846 8260B**
Trichloroethene	**88**	**(75 - 130)**	**SW846 8260B**
Toluene	**87**	**(80 - 120)**	**SW846 8260B**
Chlorobenzene	**86**	**(80 - 120)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	110	(75 - 120)
1,2-Dichloroethane-d4	104	(65 - 130)
Toluene-d8	113	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1G170296 **Work Order #...:** EGP4H1AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G200000-534
Prep Date.....: 07/20/01 **Analysis Date..:** 07/20/01
Prep Batch #...: 1201534 **Analysis Time..:** 08:49
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**105**	**(70 - 130)**	**SW846 8260B**
Benzene	**90**	**(75 - 120)**	**SW846 8260B**
Trichloroethene	**90**	**(75 - 130)**	**SW846 8260B**
Toluene	**88**	**(80 - 120)**	**SW846 8260B**
Chlorobenzene	**88**	**(80 - 120)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 120)
1,2-Dichloroethane-d4	101	(65 - 130)
Toluene-d8	103	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1G170296 **Work Order #...:** EGKFK1AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: E1G180290-002 EGKFK1AK-MSD
Date Sampled...: 07/18/01 09:45 **Date Received..:** 07/18/01 16:40 **MS Run #.....:** 1200115
Prep Date.....: 07/19/01 **Analysis Date..:** 07/19/01
Prep Batch #...: 1200253 **Analysis Time..:** 07:50
Dilution Factor: 1 **Analyst ID.....:** 004648 **Instrument ID..:** MSH

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**10.0**	**11.3**	**ug/L**	**113**		**SW846 8260B**
	ND	**10.0**	**11.7**	**ug/L**	**117**	**3.9**	**SW846 8260B**
Benzene	**ND**	**10.0**	**9.91**	**ug/L**	**99**		**SW846 8260B**
	ND	**10.0**	**10.0**	**ug/L**	**100**	**1.2**	**SW846 8260B**
Trichloroethene	**3.4**	**10.0**	**13.4**	**ug/L**	**101**		**SW846 8260B**
	3.4	**10.0**	**13.8**	**ug/L**	**104**	**2.4**	**SW846 8260B**
Toluene	**ND**	**10.0**	**9.50**	**ug/L**	**95**		**SW846 8260B**
	ND	**10.0**	**9.65**	**ug/L**	**96**	**1.6**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.31**	**ug/L**	**93**		**SW846 8260B**
	ND	**10.0**	**9.49**	**ug/L**	**95**	**1.9**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 120)
	105	(75 - 120)
1,2-Dichloroethane-d4	104	(65 - 130)
	106	(65 - 130)
Toluene-d8	105	(80 - 130)
	106	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E1G170296	**Work Order #...:**	EGMTM1A0-MS EGMTM1A1-MSD	**Matrix.....:**	WATER
MS Lot-Sample #:	E1G190308-004				
Date Sampled...:	07/19/01 12:29	**Date Received..:**	07/19/01 17:00	**MS Run #.....:**	1201285
Prep Date.....:	07/20/01	**Analysis Date..:**	07/20/01		
Prep Batch #...:	1201534	**Analysis Time..:**	18:02		
Dilution Factor:	1	**Analyst ID.....:**	015590	**Instrument ID..:**	MSH

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**10.0**	**10.9**	**ug/L**	**109**		**SW846 8260B**
	ND	**10.0**	**11.6**	**ug/L**	**116**	**6.2**	**SW846 8260B**
Benzene	**ND**	**10.0**	**9.12**	**ug/L**	**91**		**SW846 8260B**
	ND	**10.0**	**9.80**	**ug/L**	**98**	**7.2**	**SW846 8260B**
Trichloroethene	**9.0**	**10.0**	**17.7**	**ug/L**	**86**		**SW846 8260B**
	9.0	**10.0**	**17.9**	**ug/L**	**89**	**1.5**	**SW846 8260B**
Toluene	**ND**	**10.0**	**8.72**	**ug/L**	**87**		**SW846 8260B**
	ND	**10.0**	**9.54**	**ug/L**	**95**	**9.0**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.00**	**ug/L**	**90**		**SW846 8260B**
	ND	**10.0**	**9.51**	**ug/L**	**95**	**5.5**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(75 - 120)
	114	(75 - 120)
1,2-Dichloroethane-d4	102	(65 - 130)
	120	(65 - 130)
Toluene-d8	102	(80 - 130)
	114	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1G170296 **Work Order #...:** EGMVW1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: E1G190314-001 EGMVW1AE-MSD
Date Sampled...: 07/19/01 07:45 **Date Received..:** 07/19/01 18:50 **MS Run #.....:** 1201175
Prep Date.....: 07/20/01 **Analysis Date..:** 07/20/01
Prep Batch #...: 1201324 **Analysis Time..:** 04:20
Dilution Factor: 1 **Analyst ID.....:** 004648 **Instrument ID..:** MSH

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**10.0**	**10.5**	**ug/L**	**105**		**SW846 8260B**
	ND	**10.0**	**10.2**	**ug/L**	**102**	**3.3**	**SW846 8260B**
Benzene	**ND**	**10.0**	**9.16**	**ug/L**	**92**		**SW846 8260B**
	ND	**10.0**	**8.99**	**ug/L**	**90**	**1.9**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**9.24**	**ug/L**	**92**		**SW846 8260B**
	ND	**10.0**	**8.91**	**ug/L**	**89**	**3.6**	**SW846 8260B**
Toluene	**ND**	**10.0**	**8.98**	**ug/L**	**90**		**SW846 8260B**
	ND	**10.0**	**8.59**	**ug/L**	**86**	**4.4**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**8.80**	**ug/L**	**88**		**SW846 8260B**
	ND	**10.0**	**8.60**	**ug/L**	**86**	**2.3**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	108	(75 - 120)
	109	(75 - 120)
1,2-Dichloroethane-d4	102	(65 - 130)
	106	(65 - 130)
Toluene-d8	108	(80 - 130)
	107	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E1G170296	**Work Order #...:**	EGKFK1AJ-MS EGKFK1AK-MSD	**Matrix.....:**	WATER
MS Lot-Sample #:	E1G180290-002				
Date Sampled...:	07/18/01 09:45	**Date Received..:**	07/18/01 16:40	**MS Run #.....:**	1200115
Prep Date.....:	07/19/01	**Analysis Date..:**	07/19/01		
Prep Batch #...:	1200253	**Analysis Time..:**	07:50		
Dilution Factor:	1	**Analyst ID.....:**	004648	**Instrument ID..:**	MSH

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**113**	**(70 - 130)**			**SW846 8260B**
	117	**(70 - 130)**	**3.9**	**(0-25)**	**SW846 8260B**
Benzene	**99**	**(75 - 120)**			**SW846 8260B**
	100	**(75 - 120)**	**1.2**	**(0-25)**	**SW846 8260B**
Trichloroethene	**101**	**(75 - 130)**			**SW846 8260B**
	104	**(75 - 130)**	**2.4**	**(0-25)**	**SW846 8260B**
Toluene	**95**	**(80 - 120)**			**SW846 8260B**
	96	**(80 - 120)**	**1.6**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**93**	**(80 - 120)**			**SW846 8260B**
	95	**(80 - 120)**	**1.9**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 120)
	105	(75 - 120)
1,2-Dichloroethane-d4	104	(65 - 130)
	106	(65 - 130)
Toluene-d8	105	(80 - 130)
	106	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E1G170296	**Work Order #...:**	EGMTM1A0-MS EGMTM1A1-MSD	**Matrix.....:**	WATER
MS Lot-Sample #:	E1G190308-004				
Date Sampled...:	07/19/01 12:29	**Date Received..:**	07/19/01 17:00	**MS Run #.....:**	1201285
Prep Date.....:	07/20/01	**Analysis Date..:**	07/20/01		
Prep Batch #...:	1201534	**Analysis Time..:**	18:02		
Dilution Factor:	1	**Analyst ID.....:**	015590	**Instrument ID..:**	MSH

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**109**	**(70 - 130)**			**SW846 8260B**
	116	**(70 - 130)**	**6.2**	**(0-25)**	**SW846 8260B**
Benzene	**91**	**(75 - 120)**			**SW846 8260B**
	98	**(75 - 120)**	**7.2**	**(0-25)**	**SW846 8260B**
Trichloroethene	**86**	**(75 - 130)**			**SW846 8260B**
	89	**(75 - 130)**	**1.5**	**(0-25)**	**SW846 8260B**
Toluene	**87**	**(80 - 120)**			**SW846 8260B**
	95	**(80 - 120)**	**9.0**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**90**	**(80 - 120)**			**SW846 8260B**
	95	**(80 - 120)**	**5.5**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(75 - 120)
	114	(75 - 120)
1,2-Dichloroethane-d4	102	(65 - 130)
	120	(65 - 130)
Toluene-d8	102	(80 - 130)
	114	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E1G170296	**Work Order #...:**	EGMVW1AD-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E1G190314-001		EGMVW1AE-MSD		
Date Sampled...:	07/19/01 07:45	**Date Received..:**	07/19/01 18:50	**MS Run #.....:**	1201175
Prep Date.....:	07/20/01	**Analysis Date..:**	07/20/01		
Prep Batch #...:	1201324	**Analysis Time..:**	04:20		
Dilution Factor:	1	**Analyst ID.....:**	004648	**Instrument ID..:**	MSH

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**105**	**(70 - 130)**			**SW846 8260B**
	102	**(70 - 130)**	**3.3**	**(0-25)**	**SW846 8260B**
Benzene	**92**	**(75 - 120)**			**SW846 8260B**
	90	**(75 - 120)**	**1.9**	**(0-25)**	**SW846 8260B**
Trichloroethene	**92**	**(75 - 130)**			**SW846 8260B**
	89	**(75 - 130)**	**3.6**	**(0-25)**	**SW846 8260B**
Toluene	**90**	**(80 - 120)**			**SW846 8260B**
	86	**(80 - 120)**	**4.4**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**88**	**(80 - 120)**			**SW846 8260B**
	86	**(80 - 120)**	**2.3**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	108	(75 - 120)
	109	(75 - 120)
1,2-Dichloroethane-d4	102	(65 - 130)
	106	(65 - 130)
Toluene-d8	108	(80 - 130)
	107	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

SEVERN
TRENT
SERVICES

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Tel: 714 258 8610
Fax: 714 258 0921
www.stl-inc.com

July 30, 2001

STL LOT NUMBER: E1G180304
NELAC Certification Number: 01118CA
PO/CONTRACT: 05220-SEV001

Mehmet Pehlivan
Tait Environmental
701 Park Center Dr
Santa Ana, CA 92705

Dear Mr. Pehlivan,

This report contains the analytical results for the nine samples received under chain of custody by STL Los Angeles on July 18, 2001. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures met method-specified acceptance criteria. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed at our facility meet all the requirements of NELAC. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 309.

Sincerely,

Diane Suzuki
Project Manager
CC: Project File

This report contains 000047 pages.

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SEP 26 2001
ENGLAND GEOSYSTEM
☐ ELECTRONIC ☒ SCAN

STL Los Angeles is a part of Severn Trent Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

BOE-C6-0048883

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: Tait Env. Mgmt.	Project Manager: M. Pehlivan	Date: 7-18-1	Chain of Custody Number: 052166
Address: 701 N. Parkcenter Dr.	Telephone Number (Area Code)/Fax Number: (714) 560-8200 (714) 560-8235	Lab Number: E1G180304	Page 1 of 1
City: Santa Ana; State: CA; Zip Code: 92705	Site Contact:	Lab Contact: D. Suzuki	
Project Name and Location (State): BRC Former C-6 Facility	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): VOC (8260)	Special Instructions/ Conditions of Receipt
TMW-10-07182001-1008	7-18-1	10:25		X							3				X	
TMW-10-07182001-0004	7-18-1	10:25		X							3				X	
TMW-7-07182001-1009	7-18-1	11:25		X							3				X	
TMW-8-07182001-1010	7-18-1	12:00		X							3				X	
TMW-2-07182001-1011	7-18-1	12:50		X							3				X	
TMW-1-07182001-1012	7-18-1	13:50		X							3				X	
TMW-14-07182001-1013	7-18-1	14:50		X							3				X	
TMW-14-07182001-0002	7-18-1	15:00		X							3				X	
TMW-14-07182001-0001	7-18-1	–		X							3				X	
					Requesting Raw Data											

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

1. Relinquished By: Richard Munda	Date: 15:48	Time: 7-18-1	1. Received By: [signature]	Date: 7-18-01	Time: 1548
2. Relinquished By: [signature]	Date: 1730	Time: 7-18-01	2. Received By: Pacoelle	Date: 7/18/01	Time: 17:30
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

200002

BOE-C6-0048884

STL LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 7/18/01

Quantims Lot #: EIG180304
Quote #: 40337
Client Name: TATT
Project: Boring C-6
Received by: Pr colk
Date/Time Received: 7/18/01 17:30
Delivered by : ☐Client ☐Airborne ☐Fed Ex ☐DHL ☐Ultra-Ex ☐Rey B. ☐UPS ☐DES ☒Other Mike H.

Initial / Date

Custody Seal Status: ☐Intact ☐Broken ☒None ..... AR 7/18/01
Custody Seal #(s): ☒No Seal # .....
Sample Container(s): ☒STL-LA ☐Client ☐N/A .....
Temperature(s) (COOLER/BLANK) in °C: 4.0 °C (CORRECTED TEMP) 4.2°C
Thermometer Used : ☒IR (Infra-red) ☐Digital (Probe) .....
Samples: ☒Intact ☐Broken ☐Other .....
Anomalies: ☒No ☐Yes (See Clouseau) .....
Labeled by RS .....
Labeling checked by AR .....

Turn Around Time: ☐RUSH-24HR ☐RUSH-48HR ☐RUSH-72HR ☒NORMAL .....
Short-Hold Notification: ☐Ph ☐Wet Chem ☐Metals (Filter/Pres) ☐Encore ☒N/A ...
Outside Analysis(es) (Test/Lab/Date Sent Out) : — none.

•••••••••• LEAVE NO BLANK SPACES ; USE N/A ••••••••••

Fraction	1→9										PH
VOAh /*	3										N/A

h:HCl na:Sodium Hydroxide zna:Zinc Acetate/Sodium Hydroxide s:H2SO4 n:HNO3 nf:HNO3-Field filtered nfl:HNO3-Lab filtered
CGL:Clear Glass Jar CGB:Clear Glass Bottle AGJ:Amber Glass Jar AGB:Amber Glass Bottle PB: Poly Bottle E:Encore Sampler V:VOA
* Number of VOA's w/ Headspace present

LOGGED BY/DATE: Pr colk 7/18/01 REVIEWED BY/DATE: MM 7/18/01

000003

EXECUTIVE SUMMARY - Detection Highlights

E1G180304

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TMW_10_07182001_1008 07/18/01 10:25 001				
Dichlorodifluoromethane	1.4	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	1.1 J	2.0	ug/L	SW846 8260B
Methylene chloride	0.96 J	1.0	ug/L	SW846 8260B
Chloroform	2.3	1.0	ug/L	SW846 8260B
Trichloroethene	3.6	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.83 J	1.0	ug/L	SW846 8260B
TMW_10_07182001_0004 07/18/01 10:25 002				
Toluene	1.4	1.0	ug/L	SW846 8260B
Xylenes (total)	0.96 J	1.0	ug/L	SW846 8260B
TMW_7_07182001_1009 07/18/01 11:25 003				
trans-1,2-Dichloroethene	12	5.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	14 J	25	ug/L	SW846 8260B
1,1-Dichloroethane	10	5.0	ug/L	SW846 8260B
1,1-Dichloroethane	9.6 J	25	ug/L	SW846 8260B
cis-1,2-Dichloroethene	21	5.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	20 J	25	ug/L	SW846 8260B
Chloroform	4.3 J	5.0	ug/L	SW846 8260B
Trichloroethene	1800	25	ug/L	SW846 8260B
Trichloroethene	1700 E	5.0	ug/L	SW846 8260B
Toluene	5.6	5.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	4.8 J	5.0	ug/L	SW846 8260B
1,2-Dichloroethane	5.2	2.5	ug/L	SW846 8260B
TMW_8_07182001_1010 07/18/01 12:00 004				
trans-1,2-Dichloroethene	50	50	ug/L	SW846 8260B
trans-1,2-Dichloroethene	50	10	ug/L	SW846 8260B
1,1-Dichloroethane	33 J	50	ug/L	SW846 8260B
1,1-Dichloroethane	35	10	ug/L	SW846 8260B
cis-1,2-Dichloroethene	69	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	78	10	ug/L	SW846 8260B
Chloroform	6.4 J	10	ug/L	SW846 8260B
Benzene	13	10	ug/L	SW846 8260B
Trichloroethene	2500	50	ug/L	SW846 8260B
Trichloroethene	2400 E	10	ug/L	SW846 8260B
Toluene	27 J	50	ug/L	SW846 8260B
Toluene	26	10	ug/L	SW846 8260B
1,1,2-Trichloroethane	6.8 J	10	ug/L	SW846 8260B
1,2-Dichloroethane	8.8	5.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E1G180304

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TMW_2_07182001_1011 07/18/01 12:50 005				
Methylene chloride	34 J	100	ug/L	SW846 8260B
trans-1,2-Dichloroethene	680	500	ug/L	SW846 8260B
trans-1,2-Dichloroethene	590	100	ug/L	SW846 8260B
1,1-Dichloroethane	1400	500	ug/L	SW846 8260B
1,1-Dichloroethane	1400	100	ug/L	SW846 8260B
cis-1,2-Dichloroethene	4300	500	ug/L	SW846 8260B
cis-1,2-Dichloroethene	4300	100	ug/L	SW846 8260B
Chloroform	170 J	500	ug/L	SW846 8260B
Chloroform	170	100	ug/L	SW846 8260B
1,1,1-Trichloroethane	1200	500	ug/L	SW846 8260B
1,1,1-Trichloroethane	1100	100	ug/L	SW846 8260B
2-Butanone	75000	2500	ug/L	SW846 8260B
2-Butanone	82000 E	500	ug/L	SW846 8260B
Benzene	56 J	100	ug/L	SW846 8260B
Trichloroethene	20000	500	ug/L	SW846 8260B
Trichloroethene	19000 E	100	ug/L	SW846 8260B
4-Methyl-2-pentanone	760	500	ug/L	SW846 8260B
Toluene	2900	500	ug/L	SW846 8260B
Toluene	2800	100	ug/L	SW846 8260B
1,1,2-Trichloroethane	53 J	100	ug/L	SW846 8260B
1,2-Dichloroethane	93	50	ug/L	SW846 8260B
TMW_1_07182001_1012 07/18/01 13:50 006				
Trichlorofluoromethane	18	10	ug/L	SW846 8260B
Trichlorofluoromethane	14	2.0	ug/L	SW846 8260B
Methylene chloride	0.66 J	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	0.49 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	0.29 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.32 J	1.0	ug/L	SW846 8260B
Chloroform	2.9 J	5.0	ug/L	SW846 8260B
Chloroform	3.2	1.0	ug/L	SW846 8260B
Trichloroethene	360	5.0	ug/L	SW846 8260B
Trichloroethene	320 E	1.0	ug/L	SW846 8260B
Bromodichloromethane	0.78 J	1.0	ug/L	SW846 8260B
Toluene	13	5.0	ug/L	SW846 8260B
Toluene	14	1.0	ug/L	SW846 8260B
Tetrachloroethene	2.0	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E1G180304

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TMW_14_07182001_1013 07/18/01 14:50	**007**			
Methylene chloride	1.2	1.0	ug/L	SW846 8260B
Chloroform	3.5	1.0	ug/L	SW846 8260B
Carbon tetrachloride	1.5	0.50	ug/L	SW846 8260B
Trichloroethene	9.4	1.0	ug/L	SW846 8260B
Toluene	15	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.82 J	1.0	ug/L	SW846 8260B
TMW_14_07182001_0002 07/18/01 15:00	**008**			
Toluene	1.4	1.0	ug/L	SW846 8260B

METHODS SUMMARY

E1G180304

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E1G180304

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EGKJW	001	TMW_10_07182001_1008	07/18/01	10:25
EGKJ0	002	TMW_10_07182001_0004	07/18/01	10:25
EGKJ1	003	TMW_7_07182001_1009	07/18/01	11:25
EGKJ2	004	TMW_8_07182001_1010	07/18/01	12:00
EGKJ8	005	TMW_2_07182001_1011	07/18/01	12:50
EGKJ9	006	TMW_1_07182001_1012	07/18/01	13:50
EGKKA	007	TMW_14_07182001_1013	07/18/01	14:50
EGKKC	008	TMW_14_07182001_0002	07/18/01	15:00
EGKKD	009	TMW_14_07182001_0001	07/18/01	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_10_07182001_1008

GC/MS Volatiles

Lot-Sample #...: E1G180304-001 **Work Order #...:** EGKJW1AA **Matrix.....:** WATER
Date Sampled...: 07/18/01 10:25 **Date Received..:** 07/18/01 17:30 **MS Run #.....:** 1202036
Prep Date.....: 07/20/01 **Analysis Date..:** 07/20/01
Prep Batch #...: 1202140 **Analysis Time..:** 22:52
Dilution Factor: 1
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	**1.4**	**1.0**	**ug/L**	**0.40**
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	**1.1 J**	**2.0**	**ug/L**	**0.30**
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	**0.96 J**	**1.0**	**ug/L**	**0.30**
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	**2.3**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**3.6**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	**0.83 J**	**1.0**	**ug/L**	**0.70**
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

(Continued on next page)

TAIT ENVIRONMENTAL

Client Sample ID: TMW_10_07182001_1008

GC/MS Volatiles

Lot-Sample #...: E1G180304-001 **Work Order #...:** EGKJW1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 120)
1,2-Dichloroethane-d4	102	(65 - 130)
Toluene-d8	107	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_10_07182001_0004

GC/MS Volatiles

Lot-Sample #...: E1G180304-002 **Work Order #...:** EGKJ01AA **Matrix.....:** WATER
Date Sampled...: 07/18/01 10:25 **Date Received..:** 07/18/01 17:30 **MS Run #.....:** 1202036
Prep Date.....: 07/20/01 **Analysis Date..:** 07/20/01
Prep Batch #...: 1202140 **Analysis Time..:** 23:22
Dilution Factor: 1
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	**1.4**	**1.0**	**ug/L**	**0.30**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.70
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	**0.96 J**	**1.0**	**ug/L**	**0.80**

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_10_07182001_0004

GC/MS Volatiles

Lot-Sample #...: E1G180304-002 **Work Order #...:** EGKJ01AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 120)
1,2-Dichloroethane-d4	100	(65 - 130)
Toluene-d8	105	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_7_07182001_1009

GC/MS Volatiles

Lot-Sample #...: E1G180304-003 **Work Order #...:** EGKJ11AA **Matrix.....:** WATER
Date Sampled...: 07/18/01 11:25 **Date Received..:** 07/18/01 17:30 **MS Run #.....:** 1202036
Prep Date.....: 07/21/01 **Analysis Date..:** 07/21/01
Prep Batch #...: 1202140 **Analysis Time..:** 00:52
Dilution Factor: 25
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	25	ug/L	10
Chloromethane	ND	50	ug/L	7.5
Vinyl chloride	ND	12	ug/L	7.5
Chloroethane	ND	50	ug/L	7.5
Bromomethane	ND	50	ug/L	25
Trichlorofluoromethane	ND	50	ug/L	7.5
1,1,2-Trichlorotrifluoro-ethane	ND	25	ug/L	10
Methylene chloride	ND	25	ug/L	7.5
Methyl tert-butyl ether	ND	25	ug/L	12
Carbon disulfide	ND	25	ug/L	7.5
Acetone	ND	250	ug/L	75
trans-1,2-Dichloroethene	**14 J**	**25**	**ug/L**	**7.5**
1,1-Dichloroethane	**9.6 J**	**25**	**ug/L**	**5.0**
2,2-Dichloropropane	ND	25	ug/L	7.5
cis-1,2-Dichloroethene	**20 J**	**25**	**ug/L**	**7.5**
Chloroform	ND	25	ug/L	7.5
Bromochloromethane	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
2-Butanone	ND	120	ug/L	75
1,1-Dichloropropene	ND	25	ug/L	7.5
Carbon tetrachloride	ND	12	ug/L	7.5
1,2-Dibromoethane	ND	25	ug/L	7.5
Benzene	ND	25	ug/L	7.5
Trichloroethene	**1800**	**25**	**ug/L**	**7.5**
Bromodichloromethane	ND	25	ug/L	7.5
4-Methyl-2-pentanone	ND	120	ug/L	75
Toluene	ND	25	ug/L	7.5
1,1,2-Trichloroethane	ND	25	ug/L	7.5
1,2-Dichloroethane	ND	12	ug/L	10
Tetrachloroethene	ND	25	ug/L	18
2-Hexanone	ND	120	ug/L	75
Dibromochloromethane	ND	25	ug/L	10
Chlorobenzene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
Ethylbenzene	ND	25	ug/L	5.0
Xylenes (total)	ND	25	ug/L	20

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_7_07182001_1009

GC/MS Volatiles

Lot-Sample #...: E1G180304-003 **Work Order #...:** EGKJ11AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	25	ug/L	7.5
Bromoform	ND	25	ug/L	7.5
Isopropylbenzene	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
1,2,3-Trichloropropane	ND	25	ug/L	10
n-Propylbenzene	ND	25	ug/L	10
Bromobenzene	ND	25	ug/L	7.5
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
1,2,4-Trimethylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
p-Isopropyltoluene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
n-Butylbenzene	ND	25	ug/L	7.5
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	18
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
Hexachlorobutadiene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
Acrolein	ND	500	ug/L	300
Tert-amyl methyl ether	ND	50	ug/L	12
Acrylonitrile	ND	500	ug/L	250
Tert-butyl ethyl ether	ND	50	ug/L	12
t-Butanol	ND	620	ug/L	150
Iodomethane	ND	50	ug/L	25
Isopropyl ether	ND	50	ug/L	12
2-Chloroethyl vinyl ether	ND	120	ug/L	50
Tetrahydrofuran	ND	250	ug/L	50
Vinyl acetate	ND	120	ug/L	50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 120)
1,2-Dichloroethane-d4	100	(65 - 130)
Toluene-d8	105	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_7_07182001_1009

GC/MS Volatiles

Lot-Sample #...:	E1G180304-003	**Work Order #...:**	EGKJ12AA	**Matrix.....:**	WATER
Date Sampled...:	07/18/01 11:25	**Date Received..:**	07/18/01 17:30	**MS Run #.....:**	1204247
Prep Date.....:	07/23/01	**Analysis Date..:**	07/23/01		
Prep Batch #...:	1204471	**Analysis Time..:**	16:47		
Dilution Factor:	5				
Analyst ID.....:	015590	**Instrument ID..:**	MSH		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	5.0	ug/L	2.0
Chloromethane	ND	10	ug/L	1.5
Vinyl chloride	ND	2.5	ug/L	1.5
Chloroethane	ND	10	ug/L	1.5
Bromomethane	ND	10	ug/L	5.0
Trichlorofluoromethane	ND	10	ug/L	1.5
1,1,2-Trichlorotrifluoro-ethane	ND	5.0	ug/L	2.0
Methylene chloride	ND	5.0	ug/L	1.5
Methyl tert-butyl ether	ND	5.0	ug/L	2.5
Carbon disulfide	ND	5.0	ug/L	1.5
Acetone	ND	50	ug/L	15
trans-1,2-Dichloroethene	**12**	**5.0**	**ug/L**	**1.5**
1,1-Dichloroethane	**10**	**5.0**	**ug/L**	**1.0**
2,2-Dichloropropane	ND	5.0	ug/L	1.5
cis-1,2-Dichloroethene	**21**	**5.0**	**ug/L**	**1.5**
Chloroform	**4.3 J**	**5.0**	**ug/L**	**1.5**
Bromochloromethane	ND	5.0	ug/L	1.5
1,1,1-Trichloroethane	ND	5.0	ug/L	1.0
2-Butanone	ND	25	ug/L	15
1,1-Dichloropropene	ND	5.0	ug/L	1.5
Carbon tetrachloride	ND	2.5	ug/L	1.5
1,2-Dibromoethane	ND	5.0	ug/L	1.5
Benzene	ND	5.0	ug/L	1.5
Trichloroethene	**1700 E**	**5.0**	**ug/L**	**1.5**
Bromodichloromethane	ND	5.0	ug/L	1.5
4-Methyl-2-pentanone	ND	25	ug/L	15
Toluene	**5.6**	**5.0**	**ug/L**	**1.5**
1,1,2-Trichloroethane	**4.8 J**	**5.0**	**ug/L**	**1.5**
1,2-Dichloroethane	**5.2**	**2.5**	**ug/L**	**2.0**
Tetrachloroethene	ND	5.0	ug/L	3.5
2-Hexanone	ND	25	ug/L	15
Dibromochloromethane	ND	5.0	ug/L	2.0
Chlorobenzene	ND	5.0	ug/L	1.5
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	1.5
Ethylbenzene	ND	5.0	ug/L	1.0
Xylenes (total)	ND	5.0	ug/L	4.0

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_7_07182001_1009

GC/MS Volatiles

Lot-Sample #...: E1G180304-003 **Work Order #...:** EGKJ12AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	5.0	ug/L	1.5
Bromoform	ND	5.0	ug/L	1.5
Isopropylbenzene	ND	5.0	ug/L	1.5
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	2.0
1,2,3-Trichloropropane	ND	5.0	ug/L	2.0
n-Propylbenzene	ND	5.0	ug/L	2.0
Bromobenzene	ND	5.0	ug/L	1.5
1,3,5-Trimethylbenzene	ND	5.0	ug/L	1.0
2-Chlorotoluene	ND	5.0	ug/L	1.5
4-Chlorotoluene	ND	5.0	ug/L	1.5
tert-Butylbenzene	ND	5.0	ug/L	1.0
1,2,4-Trimethylbenzene	ND	5.0	ug/L	1.5
sec-Butylbenzene	ND	5.0	ug/L	1.5
p-Isopropyltoluene	ND	5.0	ug/L	1.5
1,3-Dichlorobenzene	ND	5.0	ug/L	1.5
1,4-Dichlorobenzene	ND	5.0	ug/L	1.5
n-Butylbenzene	ND	5.0	ug/L	1.5
1,2-Dichlorobenzene	ND	5.0	ug/L	1.5
1,2-Dibromo-3-chloro-propane	ND	10	ug/L	3.5
1,2,4-Trichloro-benzene	ND	5.0	ug/L	1.5
Hexachlorobutadiene	ND	5.0	ug/L	1.5
1,2,3-Trichlorobenzene	ND	5.0	ug/L	2.0
Acrolein	ND	100	ug/L	60
Tert-amyl methyl ether	ND	10	ug/L	2.5
Acrylonitrile	ND	100	ug/L	50
Tert-butyl ethyl ether	ND	10	ug/L	2.5
t-Butanol	ND	120	ug/L	30
Iodomethane	ND	10	ug/L	5.0
Isopropyl ether	ND	10	ug/L	2.5
2-Chloroethyl vinyl ether	ND	25	ug/L	10
Tetrahydrofuran	ND	50	ug/L	10
Vinyl acetate	ND	25	ug/L	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	109	(75 - 120)
1,2-Dichloroethane-d4	96	(65 - 130)
Toluene-d8	101	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_8_07182001_1010

GC/MS Volatiles

Lot-Sample #...: E1G180304-004 **Work Order #...:** EGKJ21AA **Matrix.....:** WATER
Date Sampled...: 07/18/01 12:00 **Date Received..:** 07/18/01 17:30 **MS Run #.....:** 1202036
Prep Date.....: 07/21/01 **Analysis Date..:** 07/21/01
Prep Batch #...: 1202140 **Analysis Time..:** 01:22
Dilution Factor: 50
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	50	ug/L	20
Chloromethane	ND	100	ug/L	15
Vinyl chloride	ND	25	ug/L	15
Chloroethane	ND	100	ug/L	15
Bromomethane	ND	100	ug/L	50
Trichlorofluoromethane	ND	100	ug/L	15
1,1,2-Trichlorotrifluoro-ethane	ND	50	ug/L	20
Methylene chloride	ND	50	ug/L	15
Methyl tert-butyl ether	ND	50	ug/L	25
Carbon disulfide	ND	50	ug/L	15
Acetone	ND	500	ug/L	150
trans-1,2-Dichloroethene	**50**	**50**	**ug/L**	**15**
1,1-Dichloroethane	**33 J**	**50**	**ug/L**	**10**
2,2-Dichloropropane	ND	50	ug/L	15
cis-1,2-Dichloroethene	**69**	**50**	**ug/L**	**15**
Chloroform	ND	50	ug/L	15
Bromochloromethane	ND	50	ug/L	15
1,1,1-Trichloroethane	ND	50	ug/L	10
2-Butanone	ND	250	ug/L	150
1,1-Dichloropropene	ND	50	ug/L	15
Carbon tetrachloride	ND	25	ug/L	15
1,2-Dibromoethane	ND	50	ug/L	15
Benzene	ND	50	ug/L	15
Trichloroethene	**2500**	**50**	**ug/L**	**15**
Bromodichloromethane	ND	50	ug/L	15
4-Methyl-2-pentanone	ND	250	ug/L	150
Toluene	**27 J**	**50**	**ug/L**	**15**
1,1,2-Trichloroethane	ND	50	ug/L	15
1,2-Dichloroethane	ND	25	ug/L	20
Tetrachloroethene	ND	50	ug/L	35
2-Hexanone	ND	250	ug/L	150
Dibromochloromethane	ND	50	ug/L	20
Chlorobenzene	ND	50	ug/L	15
1,1,1,2-Tetrachloroethane	ND	50	ug/L	15
Ethylbenzene	ND	50	ug/L	10
Xylenes (total)	ND	50	ug/L	40

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_8_07182001_1010

GC/MS Volatiles

Lot-Sample #...: E1G180304-004 Work Order #...: EGKJ21AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	50	ug/L	15
Bromoform	ND	50	ug/L	15
Isopropylbenzene	ND	50	ug/L	15
1,1,2,2-Tetrachloroethane	ND	50	ug/L	20
1,2,3-Trichloropropane	ND	50	ug/L	20
n-Propylbenzene	ND	50	ug/L	20
Bromobenzene	ND	50	ug/L	15
1,3,5-Trimethylbenzene	ND	50	ug/L	10
2-Chlorotoluene	ND	50	ug/L	15
4-Chlorotoluene	ND	50	ug/L	15
tert-Butylbenzene	ND	50	ug/L	10
1,2,4-Trimethylbenzene	ND	50	ug/L	15
sec-Butylbenzene	ND	50	ug/L	15
p-Isopropyltoluene	ND	50	ug/L	15
1,3-Dichlorobenzene	ND	50	ug/L	15
1,4-Dichlorobenzene	ND	50	ug/L	15
n-Butylbenzene	ND	50	ug/L	15
1,2-Dichlorobenzene	ND	50	ug/L	15
1,2-Dibromo-3-chloro-propane	ND	100	ug/L	35
1,2,4-Trichloro-benzene	ND	50	ug/L	15
Hexachlorobutadiene	ND	50	ug/L	15
1,2,3-Trichlorobenzene	ND	50	ug/L	20
Acrolein	ND	1000	ug/L	600
Tert-amyl methyl ether	ND	100	ug/L	25
Acrylonitrile	ND	1000	ug/L	500
Tert-butyl ethyl ether	ND	100	ug/L	25
t-Butanol	ND	1200	ug/L	300
Iodomethane	ND	100	ug/L	50
Isopropyl ether	ND	100	ug/L	25
2-Chloroethyl vinyl ether	ND	250	ug/L	100
Tetrahydrofuran	ND	500	ug/L	100
Vinyl acetate	ND	250	ug/L	100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 120)
1,2-Dichloroethane-d4	101	(65 - 130)
Toluene-d8	109	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_8_07182001_1010

GC/MS Volatiles

Lot-Sample #...: E1G180304-004 **Work Order #...:** EGKJ22AA **Matrix.....:** WATER
Date Sampled...: 07/18/01 12:00 **Date Received..:** 07/18/01 17:30 **MS Run #.....:** 1204247
Prep Date.....: 07/23/01 **Analysis Date..:** 07/23/01
Prep Batch #...: 1204471 **Analysis Time..:** 17:17
Dilution Factor: 10
Analyst ID.....: 015590 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/L	4.0
Chloromethane	ND	20	ug/L	3.0
Vinyl chloride	ND	5.0	ug/L	3.0
Chloroethane	ND	20	ug/L	3.0
Bromomethane	ND	20	ug/L	10
Trichlorofluoromethane	ND	20	ug/L	3.0
1,1,2-Trichlorotrifluoro-ethane	ND	10	ug/L	4.0
Methylene chloride	ND	10	ug/L	3.0
Methyl tert-butyl ether	ND	10	ug/L	5.0
Carbon disulfide	ND	10	ug/L	3.0
Acetone	ND	100	ug/L	30
trans-1,2-Dichloroethene	**50**	**10**	**ug/L**	**3.0**
1,1-Dichloroethane	**35**	**10**	**ug/L**	**2.0**
2,2-Dichloropropane	ND	10	ug/L	3.0
cis-1,2-Dichloroethene	**78**	**10**	**ug/L**	**3.0**
Chloroform	**6.4 J**	**10**	**ug/L**	**3.0**
Bromochloromethane	ND	10	ug/L	3.0
1,1,1-Trichloroethane	ND	10	ug/L	2.0
2-Butanone	ND	50	ug/L	30
1,1-Dichloropropene	ND	10	ug/L	3.0
Carbon tetrachloride	ND	5.0	ug/L	3.0
1,2-Dibromoethane	ND	10	ug/L	3.0
Benzene	**13**	**10**	**ug/L**	**3.0**
Trichloroethene	**2400 E**	**10**	**ug/L**	**3.0**
Bromodichloromethane	ND	10	ug/L	3.0
4-Methyl-2-pentanone	ND	50	ug/L	30
Toluene	**26**	**10**	**ug/L**	**3.0**
1,1,2-Trichloroethane	**6.8 J**	**10**	**ug/L**	**3.0**
1,2-Dichloroethane	**8.8**	**5.0**	**ug/L**	**4.0**
Tetrachloroethene	ND	10	ug/L	7.0
2-Hexanone	ND	50	ug/L	30
Dibromochloromethane	ND	10	ug/L	4.0
Chlorobenzene	ND	10	ug/L	3.0
1,1,1,2-Tetrachloroethane	ND	10	ug/L	3.0
Ethylbenzene	ND	10	ug/L	2.0
Xylenes (total)	ND	10	ug/L	8.0

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_8_07182001_1010

GC/MS Volatiles

Lot-Sample #...: E1G180304-004 Work Order #...: EGKJ22AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	10	ug/L	3.0
Bromoform	ND	10	ug/L	3.0
Isopropylbenzene	ND	10	ug/L	3.0
1,1,2,2-Tetrachloroethane	ND	10	ug/L	4.0
1,2,3-Trichloropropane	ND	10	ug/L	4.0
n-Propylbenzene	ND	10	ug/L	4.0
Bromobenzene	ND	10	ug/L	3.0
1,3,5-Trimethylbenzene	ND	10	ug/L	2.0
2-Chlorotoluene	ND	10	ug/L	3.0
4-Chlorotoluene	ND	10	ug/L	3.0
tert-Butylbenzene	ND	10	ug/L	2.0
1,2,4-Trimethylbenzene	ND	10	ug/L	3.0
sec-Butylbenzene	ND	10	ug/L	3.0
p-Isopropyltoluene	ND	10	ug/L	3.0
1,3-Dichlorobenzene	ND	10	ug/L	3.0
1,4-Dichlorobenzene	ND	10	ug/L	3.0
n-Butylbenzene	ND	10	ug/L	3.0
1,2-Dichlorobenzene	ND	10	ug/L	3.0
1,2-Dibromo-3-chloro-propane	ND	20	ug/L	7.0
1,2,4-Trichloro-benzene	ND	10	ug/L	3.0
Hexachlorobutadiene	ND	10	ug/L	3.0
1,2,3-Trichlorobenzene	ND	10	ug/L	4.0
Acrolein	ND	200	ug/L	120
Tert-amyl methyl ether	ND	20	ug/L	5.0
Acrylonitrile	ND	200	ug/L	100
Tert-butyl ethyl ether	ND	20	ug/L	5.0
t-Butanol	ND	250	ug/L	60
Iodomethane	ND	20	ug/L	10
Isopropyl ether	ND	20	ug/L	5.0
2-Chloroethyl vinyl ether	ND	50	ug/L	20
Tetrahydrofuran	ND	100	ug/L	20
Vinyl acetate	ND	50	ug/L	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(75 - 120)
1,2-Dichloroethane-d4	102	(65 - 130)
Toluene-d8	105	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_2_07182001_1011

GC/MS Volatiles

Lot-Sample #...: E1G180304-005 **Work Order #...:** EGKJ81AA **Matrix.....:** WATER
Date Sampled...: 07/18/01 12:50 **Date Received..:** 07/18/01 17:30 **MS Run #.....:** 1202036
Prep Date.....: 07/21/01 **Analysis Date..:** 07/21/01
Prep Batch #...: 1202140 **Analysis Time..:** 01:51
Dilution Factor: 500
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	500	ug/L	200
Chloromethane	ND	1000	ug/L	150
Vinyl chloride	ND	250	ug/L	150
Chloroethane	ND	1000	ug/L	150
Bromomethane	ND	1000	ug/L	500
Trichlorofluoromethane	ND	1000	ug/L	150
1,1,2-Trichlorotrifluoro-ethane	ND	500	ug/L	200
Methylene chloride	ND	500	ug/L	150
Methyl tert-butyl ether	ND	500	ug/L	250
Carbon disulfide	ND	500	ug/L	150
Acetone	ND	5000	ug/L	1500
trans-1,2-Dichloroethene	**680**	**500**	**ug/L**	**150**
1,1-Dichloroethane	**1400**	**500**	**ug/L**	**100**
2,2-Dichloropropane	ND	500	ug/L	150
cis-1,2-Dichloroethene	**4300**	**500**	**ug/L**	**150**
Chloroform	**170 J**	**500**	**ug/L**	**150**
Bromochloromethane	ND	500	ug/L	150
1,1,1-Trichloroethane	**1200**	**500**	**ug/L**	**100**
2-Butanone	**75000**	**2500**	**ug/L**	**1500**
1,1-Dichloropropene	ND	500	ug/L	150
Carbon tetrachloride	ND	250	ug/L	150
1,2-Dibromoethane	ND	500	ug/L	150
Benzene	ND	500	ug/L	150
Trichloroethene	**20000**	**500**	**ug/L**	**150**
Bromodichloromethane	ND	500	ug/L	150
4-Methyl-2-pentanone	ND	2500	ug/L	1500
Toluene	**2900**	**500**	**ug/L**	**150**
1,1,2-Trichloroethane	ND	500	ug/L	150
1,2-Dichloroethane	ND	250	ug/L	200
Tetrachloroethene	ND	500	ug/L	350
2-Hexanone	ND	2500	ug/L	1500
Dibromochloromethane	ND	500	ug/L	200
Chlorobenzene	ND	500	ug/L	150
1,1,1,2-Tetrachloroethane	ND	500	ug/L	150
Ethylbenzene	ND	500	ug/L	100
Xylenes (total)	ND	500	ug/L	400

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_2_07182001_1011

GC/MS Volatiles

Lot-Sample #...: E1G180304-005 **Work Order #...:** EGKJ81AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	500	ug/L	150
Bromoform	ND	500	ug/L	150
Isopropylbenzene	ND	500	ug/L	150
1,1,2,2-Tetrachloroethane	ND	500	ug/L	200
1,2,3-Trichloropropane	ND	500	ug/L	200
n-Propylbenzene	ND	500	ug/L	200
Bromobenzene	ND	500	ug/L	150
1,3,5-Trimethylbenzene	ND	500	ug/L	100
2-Chlorotoluene	ND	500	ug/L	150
4-Chlorotoluene	ND	500	ug/L	150
tert-Butylbenzene	ND	500	ug/L	100
1,2,4-Trimethylbenzene	ND	500	ug/L	150
sec-Butylbenzene	ND	500	ug/L	150
p-Isopropyltoluene	ND	500	ug/L	150
1,3-Dichlorobenzene	ND	500	ug/L	150
1,4-Dichlorobenzene	ND	500	ug/L	150
n-Butylbenzene	ND	500	ug/L	150
1,2-Dichlorobenzene	ND	500	ug/L	150
1,2-Dibromo-3-chloro-propane	ND	1000	ug/L	350
1,2,4-Trichloro-benzene	ND	500	ug/L	150
Hexachlorobutadiene	ND	500	ug/L	150
1,2,3-Trichlorobenzene	ND	500	ug/L	200
Acrolein	ND	10000	ug/L	6000
Tert-amyl methyl ether	ND	1000	ug/L	250
Acrylonitrile	ND	10000	ug/L	5000
Tert-butyl ethyl ether	ND	1000	ug/L	250
t-Butanol	ND	12000	ug/L	3000
Iodomethane	ND	1000	ug/L	500
Isopropyl ether	ND	1000	ug/L	250
2-Chloroethyl vinyl ether	ND	2500	ug/L	1000
Tetrahydrofuran	ND	5000	ug/L	1000
Vinyl acetate	ND	2500	ug/L	1000

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 120)
1,2-Dichloroethane-d4	100	(65 - 130)
Toluene-d8	106	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_2_07182001_1011

GC/MS Volatiles

Lot-Sample #...: E1G180304-005 **Work Order #...:** EGKJ82AA **Matrix.....:** WATER
Date Sampled...: 07/18/01 12:50 **Date Received..:** 07/18/01 17:30 **MS Run #.....:** 1204247
Prep Date.....: 07/23/01 **Analysis Date..:** 07/23/01
Prep Batch #...: 1204471 **Analysis Time..:** 17:47
Dilution Factor: 100
Analyst ID.....: 015590 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	100	ug/L	40
Chloromethane	ND	200	ug/L	30
Vinyl chloride	ND	50	ug/L	30
Chloroethane	ND	200	ug/L	30
Bromomethane	ND	200	ug/L	100
Trichlorofluoromethane	ND	200	ug/L	30
1,1,2-Trichlorotrifluoro-ethane	ND	100	ug/L	40
Methylene chloride	**34 J**	**100**	**ug/L**	**30**
Methyl tert-butyl ether	ND	100	ug/L	50
Carbon disulfide	ND	100	ug/L	30
Acetone	ND	1000	ug/L	300
trans-1,2-Dichloroethene	**590**	**100**	**ug/L**	**30**
1,1-Dichloroethane	**1400**	**100**	**ug/L**	**20**
2,2-Dichloropropane	ND	100	ug/L	30
cis-1,2-Dichloroethene	**4300**	**100**	**ug/L**	**30**
Chloroform	**170**	**100**	**ug/L**	**30**
Bromochloromethane	ND	100	ug/L	30
1,1,1-Trichloroethane	**1100**	**100**	**ug/L**	**20**
2-Butanone	**82000 E**	**500**	**ug/L**	**300**
1,1-Dichloropropene	ND	100	ug/L	30
Carbon tetrachloride	ND	50	ug/L	30
1,2-Dibromoethane	ND	100	ug/L	30
Benzene	**56 J**	**100**	**ug/L**	**30**
Trichloroethene	**19000 E**	**100**	**ug/L**	**30**
Bromodichloromethane	ND	100	ug/L	30
4-Methyl-2-pentanone	**760**	**500**	**ug/L**	**300**
Toluene	**2800**	**100**	**ug/L**	**30**
1,1,2-Trichloroethane	**53 J**	**100**	**ug/L**	**30**
1,2-Dichloroethane	**93**	**50**	**ug/L**	**40**
Tetrachloroethene	ND	100	ug/L	70
2-Hexanone	ND	500	ug/L	300
Dibromochloromethane	ND	100	ug/L	40
Chlorobenzene	ND	100	ug/L	30
1,1,1,2-Tetrachloroethane	ND	100	ug/L	30
Ethylbenzene	ND	100	ug/L	20
Xylenes (total)	ND	100	ug/L	80

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_2_07182001_1011

GC/MS Volatiles

Lot-Sample #...: E1G180304-005 **Work Order #...:** EGKJ82AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	100	ug/L	30
Bromoform	ND	100	ug/L	30
Isopropylbenzene	ND	100	ug/L	30
1,1,2,2-Tetrachloroethane	ND	100	ug/L	40
1,2,3-Trichloropropane	ND	100	ug/L	40
n-Propylbenzene	ND	100	ug/L	40
Bromobenzene	ND	100	ug/L	30
1,3,5-Trimethylbenzene	ND	100	ug/L	20
2-Chlorotoluene	ND	100	ug/L	30
4-Chlorotoluene	ND	100	ug/L	30
tert-Butylbenzene	ND	100	ug/L	20
1,2,4-Trimethylbenzene	ND	100	ug/L	30
sec-Butylbenzene	ND	100	ug/L	30
p-Isopropyltoluene	ND	100	ug/L	30
1,3-Dichlorobenzene	ND	100	ug/L	30
1,4-Dichlorobenzene	ND	100	ug/L	30
n-Butylbenzene	ND	100	ug/L	30
1,2-Dichlorobenzene	ND	100	ug/L	30
1,2-Dibromo-3-chloro-propane	ND	200	ug/L	70
1,2,4-Trichloro-benzene	ND	100	ug/L	30
Hexachlorobutadiene	ND	100	ug/L	30
1,2,3-Trichlorobenzene	ND	100	ug/L	40
Acrolein	ND	2000	ug/L	1200
Tert-amyl methyl ether	ND	200	ug/L	50
Acrylonitrile	ND	2000	ug/L	1000
Tert-butyl ethyl ether	ND	200	ug/L	50
t-Butanol	ND	2500	ug/L	600
Iodomethane	ND	200	ug/L	100
Isopropyl ether	ND	200	ug/L	50
2-Chloroethyl vinyl ether	ND	500	ug/L	200
Tetrahydrofuran	ND	1000	ug/L	200
Vinyl acetate	ND	500	ug/L	200

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 120)
1,2-Dichloroethane-d4	93	(65 - 130)
Toluene-d8	98	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_1_07182001_1012

GC/MS Volatiles

Lot-Sample #...: E1G180304-006 **Work Order #...:** EGKJ91AA **Matrix.....:** WATER
Date Sampled...: 07/18/01 13:50 **Date Received..:** 07/18/01 17:30 **MS Run #.....:** 1202036
Prep Date.....: 07/21/01 **Analysis Date..:** 07/21/01
Prep Batch #...: 1202140 **Analysis Time..:** 02:21
Dilution Factor: 5
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	5.0	ug/L	2.0
Chloromethane	ND	10	ug/L	1.5
Vinyl chloride	ND	2.5	ug/L	1.5
Chloroethane	ND	10	ug/L	1.5
Bromomethane	ND	10	ug/L	5.0
Trichlorofluoromethane	**18**	**10**	**ug/L**	**1.5**
1,1,2-Trichlorotrifluoro-ethane	ND	5.0	ug/L	2.0
Methylene chloride	ND	5.0	ug/L	1.5
Methyl tert-butyl ether	ND	5.0	ug/L	2.5
Carbon disulfide	ND	5.0	ug/L	1.5
Acetone	ND	50	ug/L	15
trans-1,2-Dichloroethene	ND	5.0	ug/L	1.5
1,1-Dichloroethane	ND	5.0	ug/L	1.0
2,2-Dichloropropane	ND	5.0	ug/L	1.5
cis-1,2-Dichloroethene	ND	5.0	ug/L	1.5
Chloroform	**2.9 J**	**5.0**	**ug/L**	**1.5**
Bromochloromethane	ND	5.0	ug/L	1.5
1,1,1-Trichloroethane	ND	5.0	ug/L	1.0
2-Butanone	ND	25	ug/L	15
1,1-Dichloropropene	ND	5.0	ug/L	1.5
Carbon tetrachloride	ND	2.5	ug/L	1.5
1,2-Dibromoethane	ND	5.0	ug/L	1.5
Benzene	ND	5.0	ug/L	1.5
Trichloroethene	**360**	**5.0**	**ug/L**	**1.5**
Bromodichloromethane	ND	5.0	ug/L	1.5
4-Methyl-2-pentanone	ND	25	ug/L	15
Toluene	**13**	**5.0**	**ug/L**	**1.5**
1,1,2-Trichloroethane	ND	5.0	ug/L	1.5
1,2-Dichloroethane	ND	2.5	ug/L	2.0
Tetrachloroethene	ND	5.0	ug/L	3.5
2-Hexanone	ND	25	ug/L	15
Dibromochloromethane	ND	5.0	ug/L	2.0
Chlorobenzene	ND	5.0	ug/L	1.5
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	1.5
Ethylbenzene	ND	5.0	ug/L	1.0
Xylenes (total)	ND	5.0	ug/L	4.0

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_1_07182001_1012

GC/MS Volatiles

Lot-Sample #...: E1G180304-006 **Work Order #...:** EGKJ91AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	5.0	ug/L	1.5
Bromoform	ND	5.0	ug/L	1.5
Isopropylbenzene	ND	5.0	ug/L	1.5
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	2.0
1,2,3-Trichloropropane	ND	5.0	ug/L	2.0
n-Propylbenzene	ND	5.0	ug/L	2.0
Bromobenzene	ND	5.0	ug/L	1.5
1,3,5-Trimethylbenzene	ND	5.0	ug/L	1.0
2-Chlorotoluene	ND	5.0	ug/L	1.5
4-Chlorotoluene	ND	5.0	ug/L	1.5
tert-Butylbenzene	ND	5.0	ug/L	1.0
1,2,4-Trimethylbenzene	ND	5.0	ug/L	1.5
sec-Butylbenzene	ND	5.0	ug/L	1.5
p-Isopropyltoluene	ND	5.0	ug/L	1.5
1,3-Dichlorobenzene	ND	5.0	ug/L	1.5
1,4-Dichlorobenzene	ND	5.0	ug/L	1.5
n-Butylbenzene	ND	5.0	ug/L	1.5
1,2-Dichlorobenzene	ND	5.0	ug/L	1.5
1,2-Dibromo-3-chloro-propane	ND	10	ug/L	3.5
1,2,4-Trichloro-benzene	ND	5.0	ug/L	1.5
Hexachlorobutadiene	ND	5.0	ug/L	1.5
1,2,3-Trichlorobenzene	ND	5.0	ug/L	2.0
Acrolein	ND	100	ug/L	60
Tert-amyl methyl ether	ND	10	ug/L	2.5
Acrylonitrile	ND	100	ug/L	50
Tert-butyl ethyl ether	ND	10	ug/L	2.5
t-Butanol	ND	120	ug/L	30
Iodomethane	ND	10	ug/L	5.0
Isopropyl ether	ND	10	ug/L	2.5
2-Chloroethyl vinyl ether	ND	25	ug/L	10
Tetrahydrofuran	ND	50	ug/L	10
Vinyl acetate	ND	25	ug/L	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(75 - 120)
1,2-Dichloroethane-d4	98	(65 - 130)
Toluene-d8	106	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_1_07182001_1012

GC/MS Volatiles

Lot-Sample #...: E1G180304-006 Work Order #...: EGKJ92AA Matrix.....: WATER
Date Sampled...: 07/18/01 13:50 Date Received..: 07/18/01 17:30 MS Run #.....: 1204247
Prep Date.....: 07/23/01 Analysis Date..: 07/23/01
Prep Batch #...: 1204471 Analysis Time..: 18:17
Dilution Factor: 1
Analyst ID.....: 015590 Instrument ID..: MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	**14**	**2.0**	**ug/L**	**0.30**
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	**0.66 J**	**1.0**	**ug/L**	**0.30**
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	**0.49 J**	**1.0**	**ug/L**	**0.30**
1,1-Dichloroethane	**0.29 J**	**1.0**	**ug/L**	**0.20**
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	**0.32 J**	**1.0**	**ug/L**	**0.30**
Chloroform	**3.2**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**320 E**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	**0.78 J**	**1.0**	**ug/L**	**0.30**
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	**14**	**1.0**	**ug/L**	**0.30**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	**2.0**	**1.0**	**ug/L**	**0.70**
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_1_07182001_1012

GC/MS Volatiles

Lot-Sample #...: E1G180304-006 **Work Order #...:** EGKJ92AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(75 - 120)
1,2-Dichloroethane-d4	98	(65 - 130)
Toluene-d8	104	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_14_07182001_1013

GC/MS Volatiles

Lot-Sample #...:	E1G180304-007	**Work Order #...:**	EGKKA1AA	**Matrix.....:**	WATER
Date Sampled...:	07/18/01 14:50	**Date Received..:**	07/18/01 17:30	**MS Run #.....:**	1202036
Prep Date.....:	07/20/01	**Analysis Date..:**	07/20/01		
Prep Batch #...:	1202140	**Analysis Time..:**	23:52		
Dilution Factor:	1				
Analyst ID.....:	004648	**Instrument ID..:**	MSH		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	**1.2**	**1.0**	**ug/L**	**0.30**
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	**3.5**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	**1.5**	**0.50**	**ug/L**	**0.30**
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**9.4**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	**15**	**1.0**	**ug/L**	**0.30**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	**0.82 J**	**1.0**	**ug/L**	**0.70**
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_14_07182001_1013

GC/MS Volatiles

Lot-Sample #...: E1G180304-007 **Work Order #...:** EGKKA1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 120)
1,2-Dichloroethane-d4	98	(65 - 130)
Toluene-d8	102	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_14_07182001_0002

GC/MS Volatiles

Lot-Sample #...: E1G180304-008 **Work Order #...:** EGKKC1AA **Matrix.....:** WATER
Date Sampled...: 07/18/01 15:00 **Date Received..:** 07/18/01 17:30 **MS Run #.....:** 1202036
Prep Date.....: 07/21/01 **Analysis Date..:** 07/21/01
Prep Batch #...: 1202140 **Analysis Time..:** 00:22
Dilution Factor: 1
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	**1.4**	**1.0**	**ug/L**	**0.30**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.70
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_14_07182001_0002

GC/MS Volatiles

Lot-Sample #...: E1G180304-008 Work Order #...: EGKKC1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(75 - 120)
1,2-Dichloroethane-d4	97	(65 - 130)
Toluene-d8	103	(80 - 130)

TAIT ENVIRONMENTAL

Client Sample ID: TMW_14_07182001_0001

GC/MS Volatiles

Lot-Sample #...: E1G180304-009 **Work Order #...:** EGKKD1AA **Matrix.....:** WATER
Date Sampled...: 07/18/01 **Date Received..:** 07/18/01 17:30 **MS Run #.....:** 1202036
Prep Date.....: 07/20/01 **Analysis Date..:** 07/20/01
Prep Batch #...: 1202140 **Analysis Time..:** 22:22
Dilution Factor: 1
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.70
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_14_07182001_0001

GC/MS Volatiles

Lot-Sample #...: E1G180304-009 **Work Order #...:** EGKKD1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 120)
1,2-Dichloroethane-d4	96	(65 - 130)
Toluene-d8	105	(80 - 130)

QC DATA ASSOCIATION SUMMARY

E1G180304

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8260B		1202140	1202036
002	WATER	SW846 8260B		1202140	1202036
003	WATER	SW846 8260B		1202140	1202036
	WATER	SW846 8260B		1204471	1204247
004	WATER	SW846 8260B		1202140	1202036
	WATER	SW846 8260B		1204471	1204247
005	WATER	SW846 8260B		1202140	1202036
	WATER	SW846 8260B		1204471	1204247
006	WATER	SW846 8260B		1202140	1202036
	WATER	SW846 8260B		1204471	1204247
007	WATER	SW846 8260B		1202140	1202036
008	WATER	SW846 8260B		1202140	1202036
009	WATER	SW846 8260B		1202140	1202036

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G180304
MB Lot-Sample #: E1G210000-140

Work Order #...: EGQQN1AA

Matrix.....: WATER

Prep Date.....: 07/20/01
Prep Batch #...: 1202140

Analysis Time..: 21:22
Instrument ID..: MSH

Analysis Date..: 07/20/01
Dilution Factor: 1

Analyst ID.....: 004648

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G180304 **Work Order #...:** EGQQN1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Tert-amyl methyl ether	ND	2.0	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Tert-butyl ethyl ether	ND	2.0	ug/L	SW846 8260B
t-Butanol	ND	25	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
Isopropyl ether	ND	2.0	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 120)
1,2-Dichloroethane-d4	96	(65 - 130)
Toluene-d8	106	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G180304
MB Lot-Sample #: E1G230000-471
Analysis Date..: 07/23/01
Dilution Factor: 1

Work Order #...: EGRWL1AA
Prep Date.....: 07/23/01
Prep Batch #...: 1204471
Analyst ID.....: 015590

Matrix.....: WATER
Analysis Time..: 09:06
Instrument ID..: MSH

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G180304 **Work Order #...:** EGRWL1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Tert-amyl methyl ether	ND	2.0	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Tert-butyl ethyl ether	ND	2.0	ug/L	SW846 8260B
t-Butanol	ND	25	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
Isopropyl ether	ND	2.0	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(75 - 120)
1,2-Dichloroethane-d4	87	(65 - 130)
Toluene-d8	105	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1G180304 **Work Order #...:** EGQQN1AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G210000-140
Prep Date.....: 07/20/01 **Analysis Date..:** 07/20/01
Prep Batch #...: 1202140 **Analysis Time..:** 20:51
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 004648

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**10.0**	**10.8**	**ug/L**	**108**	**SW846 8260B**
Benzene	**10.0**	**9.09**	**ug/L**	**91**	**SW846 8260B**
Trichloroethene	**10.0**	**9.42**	**ug/L**	**94**	**SW846 8260B**
Toluene	**10.0**	**9.03**	**ug/L**	**90**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.01**	**ug/L**	**90**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	111	(75 - 120)
1,2-Dichloroethane-d4	106	(65 - 130)
Toluene-d8	113	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1G180304 **Work Order #...:** EGRWL1AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G230000-471
Prep Date.....: 07/23/01 **Analysis Date..:** 07/23/01
Prep Batch #...: 1204471 **Analysis Time..:** 08:36
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**10.0**	**10.3**	**ug/L**	**103**	**SW846 8260B**
Benzene	**10.0**	**9.15**	**ug/L**	**92**	**SW846 8260B**
Trichloroethene	**10.0**	**9.17**	**ug/L**	**92**	**SW846 8260B**
Toluene	**10.0**	**8.82**	**ug/L**	**88**	**SW846 8260B**
Chlorobenzene	**10.0**	**8.95**	**ug/L**	**90**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 120)
1,2-Dichloroethane-d4	79	(65 - 130)
Toluene-d8	97	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1G180304 **Work Order #...:** EGQQN1AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G210000-140
Prep Date.....: 07/20/01 **Analysis Date..:** 07/20/01
Prep Batch #...: 1202140 **Analysis Time..:** 20:51
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 004648

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**108**	**(70 - 130)**	**SW846 8260B**
Benzene	**91**	**(75 - 120)**	**SW846 8260B**
Trichloroethene	**94**	**(75 - 130)**	**SW846 8260B**
Toluene	**90**	**(80 - 120)**	**SW846 8260B**
Chlorobenzene	**90**	**(80 - 120)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	111	(75 - 120)
1,2-Dichloroethane-d4	106	(65 - 130)
Toluene-d8	113	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1G180304 **Work Order #...:** EGRWL1AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G230000-471
Prep Date.....: 07/23/01 **Analysis Date..:** 07/23/01
Prep Batch #...: 1204471 **Analysis Time..:** 08:36
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**103**	**(70 - 130)**	**SW846 8260B**
Benzene	**92**	**(75 - 120)**	**SW846 8260B**
Trichloroethene	**92**	**(75 - 130)**	**SW846 8260B**
Toluene	**88**	**(80 - 120)**	**SW846 8260B**
Chlorobenzene	**90**	**(80 - 120)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 120)
1,2-Dichloroethane-d4	79	(65 - 130)
Toluene-d8	97	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1G180304 **Work Order #...:** EGKJW1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: E1G180304-001 EGKJW1AD-MSD
Date Sampled...: 07/18/01 10:25 **Date Received..:** 07/18/01 17:30 **MS Run #.....:** 1202036
Prep Date.....: 07/21/01 **Analysis Date..:** 07/21/01
Prep Batch #...: 1202140 **Analysis Time..:** 06:51
Dilution Factor: 1 **Analyst ID.....:** 004648 **Instrument ID..:** MSH

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**10.0**	**10.5**	**ug/L**	**105**		**SW846 8260B**
	ND	**10.0**	**10.6**	**ug/L**	**106**	**1.5**	**SW846 8260B**
Benzene	**ND**	**10.0**	**9.27**	**ug/L**	**93**		**SW846 8260B**
	ND	**10.0**	**9.46**	**ug/L**	**95**	**2.0**	**SW846 8260B**
Trichloroethene	**3.6**	**10.0**	**12.8**	**ug/L**	**91**		**SW846 8260B**
	3.6	**10.0**	**12.8**	**ug/L**	**92**	**0.23**	**SW846 8260B**
Toluene	**ND**	**10.0**	**8.89**	**ug/L**	**89**		**SW846 8260B**
	ND	**10.0**	**9.27**	**ug/L**	**93**	**4.2**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**8.81**	**ug/L**	**88**		**SW846 8260B**
	ND	**10.0**	**9.01**	**ug/L**	**90**	**2.2**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	108	(75 - 120)
	107	(75 - 120)
1,2-Dichloroethane-d4	103	(65 - 130)
	107	(65 - 130)
Toluene-d8	107	(80 - 130)
	110	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1G180304 **Work Order #...:** EGP0T1AE-MS **Matrix.....:** WATER
MS Lot-Sample #: E1G200293-001 EGP0T1AF-MSD
Date Sampled...: 07/20/01 10:30 **Date Received..:** 07/20/01 16:05 **MS Run #.....:** 1204247
Prep Date.....: 07/23/01 **Analysis Date..:** 07/23/01
Prep Batch #...: 1204471 **Analysis Time..:** 13:47
Dilution Factor: 12.5 **Analyst ID.....:** 015590 **Instrument ID..:** MSH

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**125**	**133**	**ug/L**	**106**		**SW846 8260B**
	ND	**125**	**132**	**ug/L**	**106**	**0.60**	**SW846 8260B**
Benzene	**ND**	**125**	**123**	**ug/L**	**98**		**SW846 8260B**
	ND	**125**	**122**	**ug/L**	**98**	**0.57**	**SW846 8260B**
Trichloroethene	**1100**	**125**		**ug/L**	**0.0**		**SW846 8260B**
	Qualifiers: NC,MSB						
	1100	**125**		**ug/L**	**0.0**	**0.0**	**SW846 8260B**
	Qualifiers: NC,MSB						
Toluene	**ND**	**125**	**114**	**ug/L**	**91**		**SW846 8260B**
	ND	**125**	**117**	**ug/L**	**93**	**2.7**	**SW846 8260B**
Chlorobenzene	**ND**	**125**	**116**	**ug/L**	**93**		**SW846 8260B**
	ND	**125**	**118**	**ug/L**	**95**	**1.9**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	113	(75 - 120)
	109	(75 - 120)
1,2-Dichloroethane-d4	103	(65 - 130)
	97	(65 - 130)
Toluene-d8	111	(80 - 130)
	107	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E1G180304	**Work Order #...:**	EGKJW1AC-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E1G180304-001		EGKJW1AD-MSD		
Date Sampled...:	07/18/01 10:25	**Date Received..:**	07/18/01 17:30	**MS Run #.....:**	1202036
Prep Date.....:	07/21/01	**Analysis Date..:**	07/21/01		
Prep Batch #...:	1202140	**Analysis Time..:**	06:51		
Dilution Factor:	1	**Analyst ID.....:**	004648	**Instrument ID..:**	MSH

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**105**	**(70 - 130)**			**SW846 8260B**
	106	**(70 - 130)**	**1.5**	**(0-25)**	**SW846 8260B**
Benzene	**93**	**(75 - 120)**			**SW846 8260B**
	95	**(75 - 120)**	**2.0**	**(0-25)**	**SW846 8260B**
Trichloroethene	**91**	**(75 - 130)**			**SW846 8260B**
	92	**(75 - 130)**	**0.23**	**(0-25)**	**SW846 8260B**
Toluene	**89**	**(80 - 120)**			**SW846 8260B**
	93	**(80 - 120)**	**4.2**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**88**	**(80 - 120)**			**SW846 8260B**
	90	**(80 - 120)**	**2.2**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	108	(75 - 120)
	107	(75 - 120)
1,2-Dichloroethane-d4	103	(65 - 130)
	107	(65 - 130)
Toluene-d8	107	(80 - 130)
	110	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E1G180304	**Work Order #...:**	EGP0T1AE-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E1G200293-001		EGP0T1AF-MSD		
Date Sampled...:	07/20/01 10:30	**Date Received..:**	07/20/01 16:05	**MS Run #.....:**	1204247
Prep Date.....:	07/23/01	**Analysis Date..:**	07/23/01		
Prep Batch #...:	1204471	**Analysis Time..:**	13:47		
Dilution Factor:	12.5	**Analyst ID.....:**	015590	**Instrument ID..:**	MSH

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**106**	**(70 - 130)**			**SW846 8260B**
	106	**(70 - 130)**	**0.60**	**(0-25)**	**SW846 8260B**
Benzene	**98**	**(75 - 120)**			**SW846 8260B**
	98	**(75 - 120)**	**0.57**	**(0-25)**	**SW846 8260B**
Trichloroethene	**0.0 NC,MS**	**(75 - 130)**			**SW846 8260B**
	0.0 NC,MS	**(75 - 130)**	**0.0**	**(0-25)**	**SW846 8260B**
Toluene	**91**	**(80 - 120)**			**SW846 8260B**
	93	**(80 - 120)**	**2.7**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**93**	**(80 - 120)**			**SW846 8260B**
	95	**(80 - 120)**	**1.9**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	113	(75 - 120)
	109	(75 - 120)
1,2-Dichloroethane-d4	103	(65 - 130)
	97	(65 - 130)
Toluene-d8	111	(80 - 130)
	107	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

SEVERN TRENT SERVICES

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Tel: 714 258 8610
Fax: 714 258 0921
www.stl-inc.com

July 30, 2001

STL LOT NUMBER: E1G190320
NELAC Certification Number: 01118CA
PO/CONTRACT: 05220-SEV001

Mehmet Pehlivan
Tait Environmental
701 Park Center Drive
Santa Ana, CA 92705

Dear Mr. Pehlivan,

This report contains the analytical results for the eight samples received under chain of custody by STL Los Angeles on July 19, 2001. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures met method-specified acceptance criteria. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed at our facility meet all the requirements of NELAC. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 309.

Sincerely,

Diane Suzuki
Project Manager
CC: Project File

This report contains 000051 pages.

RECEIVED
SEP 26 2001
ENGLAND GEOSYSTEM
☐ ELECTRONIC ☒ SCAN

STL Los Angeles is a part of Severn Trent Laboratories, Inc.

BOE-C6-0048930

Chain of Custody Record

Drums
Pick-up
Paperwork Tomorrow
Generator, Red Flow

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: Tait ENV. Mgmt	Project Manager: M. Pehlivan	Date: 7-19-1	Chain of Custody Number: 052165
Address: 701 N. Parkcenter DR.	Telephone Number (Area Code)/Fax Number: (714)560-8200 (714)560-8235	Lab Number:	Page 1 of 1
City: Santa Ana; State: CA; Zip Code: 92705	Site Contact:	Lab Contact: D. Suzuki	
Project Name and Location (State): BRC, ~~[illegible]~~, Former C-6 Facility	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH	VOC(8260)	Special Instructions/ Conditions of Receipt
TMW-15_07192001_1014	7-19-1	9:40		X						3			X	
TMW-15_07192001_0004	" "	9:30		X						3			X	
TMW-3_07192001_1015	" "	10:25		X						3			X	
* WCC-3S_07192001_1016	" "	11:30		X						3			X	* ~~Vinyl~~ Vinyl chloride Det-Limit less Then 10 ug/L.
* WCC-3S_07192001_0003	" "	—		X						3			X	
* WCC-6S_07192001_1017	" "	12:35		X						3			X	
Trip Blanks	7-19-1	—		X						3			X	
WCC-6S_07192001_0002	" "	12:50		X						3			X	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A lee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other_____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	7-19-1	15:10	1. Received By: [signature]	7-19-01	1510
2. Relinquished By: [signature]	7-19-01	16:15	2. Received By: [signature]	7/19/01	16:15
3. Relinquished By:			3. Received By:		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

000002

BOE-C6-0048931

STL LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 7/19/01

Quantims Lot #: EIG190320
Quote #: 40337
Client Name: TAIT
Project: Boeing C-6
Received by: Pacolta
Date/Time Received: 7/19/01 16:15
Delivered by : ☐Client ☐Airborne ☐Fed Ex ☐DHL ☐Ultra-Ex ☐Rey B.
☐UPS ☐DES ☒Other Mike H

Initial / Date

Custody Seal Status: ☐Intact ☐Broken ☒None ..... AR 7/19/01
Custody Seal #(s): ☒No Seal # .....
Sample Container(s): ☒STL-LA ☐Client ☐N/A .....
Temperature(s) (COOLER/BLANK) in °C: 4° (CORRECTED TEMP) 4.2°C
Thermometer Used : ☒IR (Infra-red) ☐Digital (Probe) .....
Samples: ☒Intact ☐Broken ☐Other .....
Anomalies: ☒No ☐Yes (See Clouseau) .....
Labeled by RS .....
Labeling checked by AR .....

Turn Around Time: ☐RUSH-24HR ☐RUSH-48HR ☐RUSH-72HR ☒NORMAL .....
Short-Hold Notification: ☐Ph ☐Wet Chem ☐Metals (Filter/Pres) ☐Encore ☒N/A ...
Outside Analysis(es) (Test/Lab/Date Sent Out) : - none

********** LEAVE NO BLANK SPACES ; USE N/A **********

Fraction	1→8										PH
VOAh /*	3										N/A

x:HCl xx:Sodium Hydroxide xxx:Zinc Acetate/Sodium Hydroxide z: H2SO4 s:HNO3 n/f:HNO3-Field filtered n/fl:HNO3-Lab filtered
CGJ:Clear Glass Jar CGB:Clear Glass Bottle AGJ:Amber Glass Jar AGB:Amber Glass Bottle PB: Poly Bottle E:Encore Sampler V:VOA

* Number of VOA's w/ Headspace present

LOGGED BY/DATE: Pacolta 7/19/01 REVIEWED BY/DATE: T Swart 7-20-01

000003

EXECUTIVE SUMMARY - Detection Highlights

E1G190320

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TMW_15_07192001_1014 07/19/01 09:40 001				
Methylene chloride	0.74 J	1.0	ug/L	SW846 8260B
Chloroform	5.1	1.0	ug/L	SW846 8260B
Trichloroethene	25	1.0	ug/L	SW846 8260B
Toluene	17	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	0.43 J	1.0	ug/L	SW846 8260B
TMW_15_07192001_0004 07/19/01 09:30 002				
2-Butanone	5.6	5.0	ug/L	SW846 8260B
Toluene	1.6	1.0	ug/L	SW846 8260B
Ethylbenzene	0.23 J	1.0	ug/L	SW846 8260B
Xylenes (total)	1.4	1.0	ug/L	SW846 8260B
TMW_3_07192001_1015 07/19/01 10:25 003				
1,1-Dichloroethane	22 J	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	42 J	50	ug/L	SW846 8260B
Trichloroethene	8800	250	ug/L	SW846 8260B
Trichloroethene	8600 E	50	ug/L	SW846 8260B
Toluene	20 J	50	ug/L	SW846 8260B
1,1,2-Trichloroethane	24 J	50	ug/L	SW846 8260B
WCC_3S_07192001_1016 07/19/01 11:30 004				
trans-1,2-Dichloroethene	970 J	1000	ug/L	SW846 8260B
trans-1,2-Dichloroethene	960	200	ug/L	SW846 8260B
1,1-Dichloroethane	820 J	1000	ug/L	SW846 8260B
1,1-Dichloroethane	840	200	ug/L	SW846 8260B
cis-1,2-Dichloroethene	7900	1000	ug/L	SW846 8260B
cis-1,2-Dichloroethene	7900	200	ug/L	SW846 8260B
Chloroform	140 J	200	ug/L	SW846 8260B
1,1,1-Trichloroethane	2100	1000	ug/L	SW846 8260B
1,1,1-Trichloroethane	2200	200	ug/L	SW846 8260B
Benzene	410 J	1000	ug/L	SW846 8260B
Benzene	390	200	ug/L	SW846 8260B
Trichloroethene	140 J	200	ug/L	SW846 8260B
4-Methyl-2-pentanone	5900	5000	ug/L	SW846 8260B
4-Methyl-2-pentanone	6100	1000	ug/L	SW846 8260B
Toluene	73000	1000	ug/L	SW846 8260B
Toluene	70000 E	200	ug/L	SW846 8260B
Xylenes (total)	250	200	ug/L	SW846 8260B
Isopropyl ether	100 J	400	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E1G190320

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WCC_3S_07192001_0003 07/19/01 11:30	**005**			
trans-1,2-Dichloroethene	940 J	1000	ug/L	SW846 8260B
trans-1,2-Dichloroethene	940	200	ug/L	SW846 8260B
1,1-Dichloroethane	850 J	1000	ug/L	SW846 8260B
1,1-Dichloroethane	820	200	ug/L	SW846 8260B
cis-1,2-Dichloroethene	8400	1000	ug/L	SW846 8260B
cis-1,2-Dichloroethene	7800	200	ug/L	SW846 8260B
Chloroform	100 J	200	ug/L	SW846 8260B
1,1,1-Trichloroethane	2300	1000	ug/L	SW846 8260B
1,1,1-Trichloroethane	2200	200	ug/L	SW846 8260B
Benzene	430 J	1000	ug/L	SW846 8260B
Benzene	410	200	ug/L	SW846 8260B
Trichloroethene	140 J	200	ug/L	SW846 8260B
4-Methyl-2-pentanone	6600	5000	ug/L	SW846 8260B
4-Methyl-2-pentanone	6400	1000	ug/L	SW846 8260B
Toluene	75000	1000	ug/L	SW846 8260B
Toluene	72000 E	200	ug/L	SW846 8260B
Xylenes (total)	220	200	ug/L	SW846 8260B
WCC_6S_07192001_1017 07/19/01 12:35	**006**			
trans-1,2-Dichloroethene	100	25	ug/L	SW846 8260B
trans-1,2-Dichloroethene	110	5.0	ug/L	SW846 8260B
1,1-Dichloroethane	72	25	ug/L	SW846 8260B
1,1-Dichloroethane	74	5.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	990	25	ug/L	SW846 8260B
cis-1,2-Dichloroethene	980 E	5.0	ug/L	SW846 8260B
Chloroform	14 J	25	ug/L	SW846 8260B
Chloroform	14	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	540	25	ug/L	SW846 8260B
1,1,1-Trichloroethane	500 E	5.0	ug/L	SW846 8260B
Benzene	25	25	ug/L	SW846 8260B
Benzene	27	5.0	ug/L	SW846 8260B
Trichloroethene	1900	25	ug/L	SW846 8260B
Trichloroethene	1700 E	5.0	ug/L	SW846 8260B
Toluene	360	25	ug/L	SW846 8260B
Toluene	360	5.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	11 J	25	ug/L	SW846 8260B
1,1,2-Trichloroethane	14	5.0	ug/L	SW846 8260B
1,2-Dichloroethane	11 J	12	ug/L	SW846 8260B
1,2-Dichloroethane	11	2.5	ug/L	SW846 8260B
Ethylbenzene	6.0 J	25	ug/L	SW846 8260B
Ethylbenzene	7.6	5.0	ug/L	SW846 8260B
Xylenes (total)	34	25	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E1G190320

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WCC_6S_07192001_1017 07/19/01 12:35	**006**			
Xylenes (total)	38	5.0	ug/L	SW846 8260B
WCC_6S_07192001_0002 07/19/01 12:50	**008**			
Trichloroethene	0.37 J	1.0	ug/L	SW846 8260B
Toluene	2.8	1.0	ug/L	SW846 8260B

METHODS SUMMARY

E1G190320

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E1G190320

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EGMW3	001	TMW_15_07192001_1014	07/19/01	09:40
EGMW7	002	TMW_15_07192001_0004	07/19/01	09:30
EGMW8	003	TMW_3_07192001_1015	07/19/01	10:25
EGMW9	004	WCC_3S_07192001_1016	07/19/01	11:30
EGMXE	005	WCC_3S_07192001_0003	07/19/01	11:30
EGMXF	006	WCC_6S_07192001_1017	07/19/01	12:35
EGMXG	007	TRIP BLANK	07/19/01	
EGMXH	008	WCC_6S_07192001_0002	07/19/01	12:50

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_15_07192001_1014

GC/MS Volatiles

Lot-Sample #...: E1G190320-001 **Work Order #...:** EGMW31AA **Matrix.....:** WATER
Date Sampled...: 07/19/01 09:40 **Date Received..:** 07/19/01 16:15 **MS Run #.....:** 1202036
Prep Date.....: 07/21/01 **Analysis Date..:** 07/21/01
Prep Batch #...: 1202140 **Analysis Time..:** 02:51
Dilution Factor: 1
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	**0.74 J**	**1.0**	**ug/L**	**0.30**
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	**5.1**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**25**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	**17**	**1.0**	**ug/L**	**0.30**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.70
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

(Continued on next page)

TAIT ENVIRONMENTAL

Client Sample ID: TMW_15_07192001_1014

GC/MS Volatiles

Lot-Sample #...: E1G190320-001 **Work Order #...:** EGMW31AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	**0.43 J**	**1.0**	**ug/L**	**0.30**
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(75 - 120)
1,2-Dichloroethane-d4	102	(65 - 130)
Toluene-d8	108	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_15_07192001_0004

GC/MS Volatiles

Lot-Sample #...: E1G190320-002 **Work Order #...:** EGMW71AA **Matrix.....:** WATER
Date Sampled...: 07/19/01 09:30 **Date Received..:** 07/19/01 16:15 **MS Run #.....:** 1202036
Prep Date.....: 07/21/01 **Analysis Date..:** 07/21/01
Prep Batch #...: 1202140 **Analysis Time..:** 03:21
Dilution Factor: 1
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	**5.6**	**5.0**	**ug/L**	**3.0**
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	**1.6**	**1.0**	**ug/L**	**0.30**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.70
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	**0.23 J**	**1.0**	**ug/L**	**0.20**
Xylenes (total)	**1.4**	**1.0**	**ug/L**	**0.80**

(Continued on next page)

TAIT ENVIRONMENTAL

Client Sample ID: TMW_15_07192001_0004

GC/MS Volatiles

Lot-Sample #...: E1G190320-002 **Work Order #...:** EGMW71AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(75 - 120)
1,2-Dichloroethane-d4	102	(65 - 130)
Toluene-d8	109	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_3_07192001_1015

GC/MS Volatiles

Lot-Sample #...: E1G190320-003 **Work Order #...:** EGMW81AA **Matrix.....:** WATER
Date Sampled...: 07/19/01 10:25 **Date Received..:** 07/19/01 16:15 **MS Run #.....:** 1202036
Prep Date.....: 07/21/01 **Analysis Date..:** 07/21/01
Prep Batch #...: 1202140 **Analysis Time..:** 03:51
Dilution Factor: 250
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	250	ug/L	0.40
Chloromethane	ND	500	ug/L	0.30
Vinyl chloride	ND	120	ug/L	0.30
Chloroethane	ND	500	ug/L	0.30
Bromomethane	ND	500	ug/L	1.0
Trichlorofluoromethane	ND	500	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND	250	ug/L	0.40
Methylene chloride	ND	250	ug/L	0.30
Methyl tert-butyl ether	ND	250	ug/L	0.50
Carbon disulfide	ND	250	ug/L	0.30
Acetone	ND	2500	ug/L	3.0
trans-1,2-Dichloroethene	ND	250	ug/L	0.30
1,1-Dichloroethane	ND	250	ug/L	0.20
2,2-Dichloropropane	ND	250	ug/L	0.30
cis-1,2-Dichloroethene	ND	250	ug/L	0.30
Chloroform	ND	250	ug/L	0.30
Bromochloromethane	ND	250	ug/L	0.30
1,1,1-Trichloroethane	ND	250	ug/L	0.20
2-Butanone	ND	1200	ug/L	3.0
1,1-Dichloropropene	ND	250	ug/L	0.30
Carbon tetrachloride	ND	120	ug/L	0.30
1,2-Dibromoethane	ND	250	ug/L	0.30
Benzene	ND	250	ug/L	0.30
Trichloroethene	**8800**	**250**	**ug/L**	**0.30**
Bromodichloromethane	ND	250	ug/L	0.30
4-Methyl-2-pentanone	ND	1200	ug/L	3.0
Toluene	ND	250	ug/L	0.30
1,1,2-Trichloroethane	ND	250	ug/L	0.30
1,2-Dichloroethane	ND	120	ug/L	0.40
Tetrachloroethene	ND	250	ug/L	0.70
2-Hexanone	ND	1200	ug/L	3.0
Dibromochloromethane	ND	250	ug/L	0.40
Chlorobenzene	ND	250	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	250	ug/L	0.30
Ethylbenzene	ND	250	ug/L	0.20
Xylenes (total)	ND	250	ug/L	0.80

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_3_07192001_1015

GC/MS Volatiles

Lot-Sample #...: E1G190320-003 **Work Order #...:** EGMW81AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	250	ug/L	0.30
Bromoform	ND	250	ug/L	0.30
Isopropylbenzene	ND	250	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	250	ug/L	0.40
1,2,3-Trichloropropane	ND	250	ug/L	0.40
n-Propylbenzene	ND	250	ug/L	0.40
Bromobenzene	ND	250	ug/L	0.30
1,3,5-Trimethylbenzene	ND	250	ug/L	0.20
2-Chlorotoluene	ND	250	ug/L	0.30
4-Chlorotoluene	ND	250	ug/L	0.30
tert-Butylbenzene	ND	250	ug/L	0.20
1,2,4-Trimethylbenzene	ND	250	ug/L	0.30
sec-Butylbenzene	ND	250	ug/L	0.30
p-Isopropyltoluene	ND	250	ug/L	0.30
1,3-Dichlorobenzene	ND	250	ug/L	0.30
1,4-Dichlorobenzene	ND	250	ug/L	0.30
n-Butylbenzene	ND	250	ug/L	0.30
1,2-Dichlorobenzene	ND	250	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	500	ug/L	0.70
1,2,4-Trichloro-benzene	ND	250	ug/L	0.30
Hexachlorobutadiene	ND	250	ug/L	0.30
1,2,3-Trichlorobenzene	ND	250	ug/L	0.40
Acrolein	ND	5000	ug/L	12
Tert-amyl methyl ether	ND	500	ug/L	0.50
Acrylonitrile	ND	5000	ug/L	10
Tert-butyl ethyl ether	ND	500	ug/L	0.50
t-Butanol	ND	6200	ug/L	6.0
Iodomethane	ND	500	ug/L	1.0
Isopropyl ether	ND	500	ug/L	0.50
2-Chloroethyl vinyl ether	ND	1200	ug/L	2.0
Tetrahydrofuran	ND	2500	ug/L	2.0
Vinyl acetate	ND	1200	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 120)
1,2-Dichloroethane-d4	100	(65 - 130)
Toluene-d8	105	(80 - 130)

TAIT ENVIRONMENTAL

Client Sample ID: TMW_3_07192001_1015

GC/MS Volatiles

Lot-Sample #...: E1G190320-003 **Work Order #...:** EGMW82AA **Matrix.....:** WATER
Date Sampled...: 07/19/01 10:25 **Date Received..:** 07/19/01 16:15 **MS Run #.....:** 1204247
Prep Date.....: 07/23/01 **Analysis Date..:** 07/23/01
Prep Batch #...: 1204471 **Analysis Time..:** 15:47
Dilution Factor: 50
Analyst ID.....: 015590 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	50	ug/L	20
Chloromethane	ND	100	ug/L	15
Vinyl chloride	ND	25	ug/L	15
Chloroethane	ND	100	ug/L	15
Bromomethane	ND	100	ug/L	50
Trichlorofluoromethane	ND	100	ug/L	15
1,1,2-Trichlorotrifluoro-ethane	ND	50	ug/L	20
Methylene chloride	ND	50	ug/L	15
Methyl tert-butyl ether	ND	50	ug/L	25
Carbon disulfide	ND	50	ug/L	15
Acetone	ND	500	ug/L	150
trans-1,2-Dichloroethene	ND	50	ug/L	15
1,1-Dichloroethane	**22 J**	**50**	**ug/L**	**10**
2,2-Dichloropropane	ND	50	ug/L	15
cis-1,2-Dichloroethene	**42 J**	**50**	**ug/L**	**15**
Chloroform	ND	50	ug/L	15
Bromochloromethane	ND	50	ug/L	15
1,1,1-Trichloroethane	ND	50	ug/L	10
2-Butanone	ND	250	ug/L	150
1,1-Dichloropropene	ND	50	ug/L	15
Carbon tetrachloride	ND	25	ug/L	15
1,2-Dibromoethane	ND	50	ug/L	15
Benzene	ND	50	ug/L	15
Trichloroethene	**8600 E**	**50**	**ug/L**	**15**
Bromodichloromethane	ND	50	ug/L	15
4-Methyl-2-pentanone	ND	250	ug/L	150
Toluene	**20 J**	**50**	**ug/L**	**15**
1,1,2-Trichloroethane	**24 J**	**50**	**ug/L**	**15**
1,2-Dichloroethane	ND	25	ug/L	20
Tetrachloroethene	ND	50	ug/L	35
2-Hexanone	ND	250	ug/L	150
Dibromochloromethane	ND	50	ug/L	20
Chlorobenzene	ND	50	ug/L	15
1,1,1,2-Tetrachloroethane	ND	50	ug/L	15
Ethylbenzene	ND	50	ug/L	10
Xylenes (total)	ND	50	ug/L	40

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_3_07192001_1015

GC/MS Volatiles

Lot-Sample #...: E1G190320-003 **Work Order #...:** EGMW82AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	50	ug/L	15
Bromoform	ND	50	ug/L	15
Isopropylbenzene	ND	50	ug/L	15
1,1,2,2-Tetrachloroethane	ND	50	ug/L	20
1,2,3-Trichloropropane	ND	50	ug/L	20
n-Propylbenzene	ND	50	ug/L	20
Bromobenzene	ND	50	ug/L	15
1,3,5-Trimethylbenzene	ND	50	ug/L	10
2-Chlorotoluene	ND	50	ug/L	15
4-Chlorotoluene	ND	50	ug/L	15
tert-Butylbenzene	ND	50	ug/L	10
1,2,4-Trimethylbenzene	ND	50	ug/L	15
sec-Butylbenzene	ND	50	ug/L	15
p-Isopropyltoluene	ND	50	ug/L	15
1,3-Dichlorobenzene	ND	50	ug/L	15
1,4-Dichlorobenzene	ND	50	ug/L	15
n-Butylbenzene	ND	50	ug/L	15
1,2-Dichlorobenzene	ND	50	ug/L	15
1,2-Dibromo-3-chloro-propane	ND	100	ug/L	35
1,2,4-Trichloro-benzene	ND	50	ug/L	15
Hexachlorobutadiene	ND	50	ug/L	15
1,2,3-Trichlorobenzene	ND	50	ug/L	20
Acrolein	ND	1000	ug/L	600
Tert-amyl methyl ether	ND	100	ug/L	25
Acrylonitrile	ND	1000	ug/L	500
Tert-butyl ethyl ether	ND	100	ug/L	25
t-Butanol	ND	1200	ug/L	300
Iodomethane	ND	100	ug/L	50
Isopropyl ether	ND	100	ug/L	25
2-Chloroethyl vinyl ether	ND	250	ug/L	100
Tetrahydrofuran	ND	500	ug/L	100
Vinyl acetate	ND	250	ug/L	100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	108	(75 - 120)
1,2-Dichloroethane-d4	95	(65 - 130)
Toluene-d8	106	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

TAIT ENVIRONMENTAL

Client Sample ID: WCC_3S_07192001_1016

GC/MS Volatiles

Lot-Sample #...: E1G190320-004 **Work Order #...:** EGMW91AA **Matrix.....:** WATER
Date Sampled...: 07/19/01 11:30 **Date Received..:** 07/19/01 16:15 **MS Run #.....:** 1204232
Prep Date.....: 07/21/01 **Analysis Date..:** 07/21/01
Prep Batch #...: 1204436 **Analysis Time..:** 17:17
Dilution Factor: 1000
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1000	ug/L	400
Chloromethane	ND	2000	ug/L	300
Vinyl chloride	ND	500	ug/L	300
Chloroethane	ND	2000	ug/L	300
Bromomethane	ND	2000	ug/L	1000
Trichlorofluoromethane	ND	2000	ug/L	300
1,1,2-Trichlorotrifluoro-ethane	ND	1000	ug/L	400
Methylene chloride	ND	1000	ug/L	300
Methyl tert-butyl ether	ND	1000	ug/L	500
Carbon disulfide	ND	1000	ug/L	300
Acetone	ND	10000	ug/L	3000
trans-1,2-Dichloroethene	**970 J**	**1000**	**ug/L**	**300**
1,1-Dichloroethane	**820 J**	**1000**	**ug/L**	**200**
2,2-Dichloropropane	ND	1000	ug/L	300
cis-1,2-Dichloroethene	**7900**	**1000**	**ug/L**	**300**
Chloroform	ND	1000	ug/L	300
Bromochloromethane	ND	1000	ug/L	300
1,1,1-Trichloroethane	**2100**	**1000**	**ug/L**	**200**
2-Butanone	ND	5000	ug/L	3000
1,1-Dichloropropene	ND	1000	ug/L	300
Carbon tetrachloride	ND	500	ug/L	300
1,2-Dibromoethane	ND	1000	ug/L	300
Benzene	**410 J**	**1000**	**ug/L**	**300**
Trichloroethene	ND	1000	ug/L	300
Bromodichloromethane	ND	1000	ug/L	300
4-Methyl-2-pentanone	**5900**	**5000**	**ug/L**	**3000**
Toluene	**73000**	**1000**	**ug/L**	**300**
1,1,2-Trichloroethane	ND	1000	ug/L	300
1,2-Dichloroethane	ND	500	ug/L	400
Tetrachloroethene	ND	1000	ug/L	700
2-Hexanone	ND	5000	ug/L	3000
Dibromochloromethane	ND	1000	ug/L	400
Chlorobenzene	ND	1000	ug/L	300
1,1,1,2-Tetrachloroethane	ND	1000	ug/L	300
Ethylbenzene	ND	1000	ug/L	200
Xylenes (total)	ND	1000	ug/L	800

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TAIT ENVIRONMENTAL

Client Sample ID: WCC_3S_07192001_1016

GC/MS Volatiles

Lot-Sample #...: E1G190320-004 **Work Order #...:** EGMW91AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1000	ug/L	300
Bromoform	ND	1000	ug/L	300
Isopropylbenzene	ND	1000	ug/L	300
1,1,2,2-Tetrachloroethane	ND	1000	ug/L	400
1,2,3-Trichloropropane	ND	1000	ug/L	400
n-Propylbenzene	ND	1000	ug/L	400
Bromobenzene	ND	1000	ug/L	300
1,3,5-Trimethylbenzene	ND	1000	ug/L	200
2-Chlorotoluene	ND	1000	ug/L	300
4-Chlorotoluene	ND	1000	ug/L	300
tert-Butylbenzene	ND	1000	ug/L	200
1,2,4-Trimethylbenzene	ND	1000	ug/L	300
sec-Butylbenzene	ND	1000	ug/L	300
p-Isopropyltoluene	ND	1000	ug/L	300
1,3-Dichlorobenzene	ND	1000	ug/L	300
1,4-Dichlorobenzene	ND	1000	ug/L	300
n-Butylbenzene	ND	1000	ug/L	300
1,2-Dichlorobenzene	ND	1000	ug/L	300
1,2-Dibromo-3-chloro-propane	ND	2000	ug/L	700
1,2,4-Trichloro-benzene	ND	1000	ug/L	300
Hexachlorobutadiene	ND	1000	ug/L	300
1,2,3-Trichlorobenzene	ND	1000	ug/L	400
Acrolein	ND	20000	ug/L	12000
Tert-amyl methyl ether	ND	2000	ug/L	500
Acrylonitrile	ND	20000	ug/L	10000
Tert-butyl ethyl ether	ND	2000	ug/L	500
t-Butanol	ND	25000	ug/L	6000
Iodomethane	ND	2000	ug/L	1000
Isopropyl ether	ND	2000	ug/L	500
2-Chloroethyl vinyl ether	ND	5000	ug/L	2000
Tetrahydrofuran	ND	10000	ug/L	2000
Vinyl acetate	ND	5000	ug/L	2000

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(75 - 120)
1,2-Dichloroethane-d4	103	(65 - 130)
Toluene-d8	109	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: WCC_3S_07192001_1016

GC/MS Volatiles

Lot-Sample #...: E1G190320-004 **Work Order #...:** EGMW92AA **Matrix.....:** WATER
Date Sampled...: 07/19/01 11:30 **Date Received..:** 07/19/01 16:15 **MS Run #.....:** 1204232
Prep Date.....: 07/21/01 **Analysis Date..:** 07/21/01
Prep Batch #...: 1204436 **Analysis Time..:** 19:48
Dilution Factor: 200
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	200	ug/L	80
Chloromethane	ND	400	ug/L	60
Vinyl chloride	ND	100	ug/L	60
Chloroethane	ND	400	ug/L	60
Bromomethane	ND	400	ug/L	200
Trichlorofluoromethane	ND	400	ug/L	60
1,1,2-Trichlorotrifluoro-ethane	ND	200	ug/L	80
Methylene chloride	ND	200	ug/L	60
Methyl tert-butyl ether	ND	200	ug/L	100
Carbon disulfide	ND	200	ug/L	60
Acetone	ND	2000	ug/L	600
trans-1,2-Dichloroethene	**960**	**200**	**ug/L**	**60**
1,1-Dichloroethane	**840**	**200**	**ug/L**	**40**
2,2-Dichloropropane	ND	200	ug/L	60
cis-1,2-Dichloroethene	**7900**	**200**	**ug/L**	**60**
Chloroform	**140 J**	**200**	**ug/L**	**60**
Bromochloromethane	ND	200	ug/L	60
1,1,1-Trichloroethane	**2200**	**200**	**ug/L**	**40**
2-Butanone	ND	1000	ug/L	600
1,1-Dichloropropene	ND	200	ug/L	60
Carbon tetrachloride	ND	100	ug/L	60
1,2-Dibromoethane	ND	200	ug/L	60
Benzene	**390**	**200**	**ug/L**	**60**
Trichloroethene	**140 J**	**200**	**ug/L**	**60**
Bromodichloromethane	ND	200	ug/L	60
4-Methyl-2-pentanone	**6100**	**1000**	**ug/L**	**600**
Toluene	**70000 E**	**200**	**ug/L**	**60**
1,1,2-Trichloroethane	ND	200	ug/L	60
1,2-Dichloroethane	ND	100	ug/L	80
Tetrachloroethene	ND	200	ug/L	140
2-Hexanone	ND	1000	ug/L	600
Dibromochloromethane	ND	200	ug/L	80
Chlorobenzene	ND	200	ug/L	60
1,1,1,2-Tetrachloroethane	ND	200	ug/L	60
Ethylbenzene	ND	200	ug/L	40
Xylenes (total)	**250**	**200**	**ug/L**	**160**

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TAIT ENVIRONMENTAL

Client Sample ID: WCC_3S_07192001_1016

GC/MS Volatiles

Lot-Sample #...: E1G190320-004 **Work Order #...:** EGMW92AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	200	ug/L	60
Bromoform	ND	200	ug/L	60
Isopropylbenzene	ND	200	ug/L	60
1,1,2,2-Tetrachloroethane	ND	200	ug/L	80
1,2,3-Trichloropropane	ND	200	ug/L	80
n-Propylbenzene	ND	200	ug/L	80
Bromobenzene	ND	200	ug/L	60
1,3,5-Trimethylbenzene	ND	200	ug/L	40
2-Chlorotoluene	ND	200	ug/L	60
4-Chlorotoluene	ND	200	ug/L	60
tert-Butylbenzene	ND	200	ug/L	40
1,2,4-Trimethylbenzene	ND	200	ug/L	60
sec-Butylbenzene	ND	200	ug/L	60
p-Isopropyltoluene	ND	200	ug/L	60
1,3-Dichlorobenzene	ND	200	ug/L	60
1,4-Dichlorobenzene	ND	200	ug/L	60
n-Butylbenzene	ND	200	ug/L	60
1,2-Dichlorobenzene	ND	200	ug/L	60
1,2-Dibromo-3-chloro-propane	ND	400	ug/L	140
1,2,4-Trichloro-benzene	ND	200	ug/L	60
Hexachlorobutadiene	ND	200	ug/L	60
1,2,3-Trichlorobenzene	ND	200	ug/L	80
Acrolein	ND	4000	ug/L	2400
Tert-amyl methyl ether	ND	400	ug/L	100
Acrylonitrile	ND	4000	ug/L	2000
Tert-butyl ethyl ether	ND	400	ug/L	100
t-Butanol	ND	5000	ug/L	1200
Iodomethane	ND	400	ug/L	200
Isopropyl ether	**100 J**	**400**	**ug/L**	**100**
2-Chloroethyl vinyl ether	ND	1000	ug/L	400
Tetrahydrofuran	ND	2000	ug/L	400
Vinyl acetate	ND	1000	ug/L	400

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	111	(75 - 120)
1,2-Dichloroethane-d4	108	(65 - 130)
Toluene-d8	111	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

TAIT ENVIRONMENTAL

Client Sample ID: WCC_3S_07192001_0003

GC/MS Volatiles

Lot-Sample #...: E1G190320-005 **Work Order #...:** EGMXE1AA **Matrix.....:** WATER
Date Sampled...: 07/19/01 11:30 **Date Received..:** 07/19/01 16:15 **MS Run #.....:** 1204232
Prep Date.....: 07/21/01 **Analysis Date..:** 07/21/01
Prep Batch #...: 1204436 **Analysis Time..:** 17:47
Dilution Factor: 1000
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1000	ug/L	400
Chloromethane	ND	2000	ug/L	300
Vinyl chloride	ND	500	ug/L	300
Chloroethane	ND	2000	ug/L	300
Bromomethane	ND	2000	ug/L	1000
Trichlorofluoromethane	ND	2000	ug/L	300
1,1,2-Trichlorotrifluoro-ethane	ND	1000	ug/L	400
Methylene chloride	ND	1000	ug/L	300
Methyl tert-butyl ether	ND	1000	ug/L	500
Carbon disulfide	ND	1000	ug/L	300
Acetone	ND	10000	ug/L	3000
trans-1,2-Dichloroethene	**940 J**	**1000**	**ug/L**	**300**
1,1-Dichloroethane	**850 J**	**1000**	**ug/L**	**200**
2,2-Dichloropropane	ND	1000	ug/L	300
cis-1,2-Dichloroethene	**8400**	**1000**	**ug/L**	**300**
Chloroform	ND	1000	ug/L	300
Bromochloromethane	ND	1000	ug/L	300
1,1,1-Trichloroethane	**2300**	**1000**	**ug/L**	**200**
2-Butanone	ND	5000	ug/L	3000
1,1-Dichloropropene	ND	1000	ug/L	300
Carbon tetrachloride	ND	500	ug/L	300
1,2-Dibromoethane	ND	1000	ug/L	300
Benzene	**430 J**	**1000**	**ug/L**	**300**
Trichloroethene	ND	1000	ug/L	300
Bromodichloromethane	ND	1000	ug/L	300
4-Methyl-2-pentanone	**6600**	**5000**	**ug/L**	**3000**
Toluene	**75000**	**1000**	**ug/L**	**300**
1,1,2-Trichloroethane	ND	1000	ug/L	300
1,2-Dichloroethane	ND	500	ug/L	400
Tetrachloroethene	ND	1000	ug/L	700
2-Hexanone	ND	5000	ug/L	3000
Dibromochloromethane	ND	1000	ug/L	400
Chlorobenzene	ND	1000	ug/L	300
1,1,1,2-Tetrachloroethane	ND	1000	ug/L	300
Ethylbenzene	ND	1000	ug/L	200
Xylenes (total)	ND	1000	ug/L	800

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TAIT ENVIRONMENTAL

Client Sample ID: WCC_3S_07192001_0003

GC/MS Volatiles

Lot-Sample #...: E1G190320-005 **Work Order #...:** EGMXE1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1000	ug/L	300
Bromoform	ND	1000	ug/L	300
Isopropylbenzene	ND	1000	ug/L	300
1,1,2,2-Tetrachloroethane	ND	1000	ug/L	400
1,2,3-Trichloropropane	ND	1000	ug/L	400
n-Propylbenzene	ND	1000	ug/L	400
Bromobenzene	ND	1000	ug/L	300
1,3,5-Trimethylbenzene	ND	1000	ug/L	200
2-Chlorotoluene	ND	1000	ug/L	300
4-Chlorotoluene	ND	1000	ug/L	300
tert-Butylbenzene	ND	1000	ug/L	200
1,2,4-Trimethylbenzene	ND	1000	ug/L	300
sec-Butylbenzene	ND	1000	ug/L	300
p-Isopropyltoluene	ND	1000	ug/L	300
1,3-Dichlorobenzene	ND	1000	ug/L	300
1,4-Dichlorobenzene	ND	1000	ug/L	300
n-Butylbenzene	ND	1000	ug/L	300
1,2-Dichlorobenzene	ND	1000	ug/L	300
1,2-Dibromo-3-chloro-propane	ND	2000	ug/L	700
1,2,4-Trichloro-benzene	ND	1000	ug/L	300
Hexachlorobutadiene	ND	1000	ug/L	300
1,2,3-Trichlorobenzene	ND	1000	ug/L	400
Acrolein	ND	20000	ug/L	12000
Tert-amyl methyl ether	ND	2000	ug/L	500
Acrylonitrile	ND	20000	ug/L	10000
Tert-butyl ethyl ether	ND	2000	ug/L	500
t-Butanol	ND	25000	ug/L	6000
Iodomethane	ND	2000	ug/L	1000
Isopropyl ether	ND	2000	ug/L	500
2-Chloroethyl vinyl ether	ND	5000	ug/L	2000
Tetrahydrofuran	ND	10000	ug/L	2000
Vinyl acetate	ND	5000	ug/L	2000

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	109	(75 - 120)
1,2-Dichloroethane-d4	108	(65 - 130)
Toluene-d8	109	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: WCC_3S_07192001_0003

GC/MS Volatiles

Lot-Sample #...: E1G190320-005 **Work Order #...:** EGMXE2AA **Matrix.....:** WATER
Date Sampled...: 07/19/01 11:30 **Date Received..:** 07/19/01 16:15 **MS Run #.....:** 1204232
Prep Date.....: 07/21/01 **Analysis Date..:** 07/21/01
Prep Batch #...: 1204436 **Analysis Time..:** 20:18
Dilution Factor: 200
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	200	ug/L	80
Chloromethane	ND	400	ug/L	60
Vinyl chloride	ND	100	ug/L	60
Chloroethane	ND	400	ug/L	60
Bromomethane	ND	400	ug/L	200
Trichlorofluoromethane	ND	400	ug/L	60
1,1,2-Trichlorotrifluoro-ethane	ND	200	ug/L	80
Methylene chloride	ND	200	ug/L	60
Methyl tert-butyl ether	ND	200	ug/L	100
Carbon disulfide	ND	200	ug/L	60
Acetone	ND	2000	ug/L	600
trans-1,2-Dichloroethene	**940**	**200**	**ug/L**	**60**
1,1-Dichloroethane	**820**	**200**	**ug/L**	**40**
2,2-Dichloropropane	ND	200	ug/L	60
cis-1,2-Dichloroethene	**7800**	**200**	**ug/L**	**60**
Chloroform	**100 J**	**200**	**ug/L**	**60**
Bromochloromethane	ND	200	ug/L	60
1,1,1-Trichloroethane	**2200**	**200**	**ug/L**	**40**
2-Butanone	ND	1000	ug/L	600
1,1-Dichloropropene	ND	200	ug/L	60
Carbon tetrachloride	ND	100	ug/L	60
1,2-Dibromoethane	ND	200	ug/L	60
Benzene	**410**	**200**	**ug/L**	**60**
Trichloroethene	**140 J**	**200**	**ug/L**	**60**
Bromodichloromethane	ND	200	ug/L	60
4-Methyl-2-pentanone	**6400**	**1000**	**ug/L**	**600**
Toluene	**72000 E**	**200**	**ug/L**	**60**
1,1,2-Trichloroethane	ND	200	ug/L	60
1,2-Dichloroethane	ND	100	ug/L	80
Tetrachloroethene	ND	200	ug/L	140
2-Hexanone	ND	1000	ug/L	600
Dibromochloromethane	ND	200	ug/L	80
Chlorobenzene	ND	200	ug/L	60
1,1,1,2-Tetrachloroethane	ND	200	ug/L	60
Ethylbenzene	ND	200	ug/L	40
Xylenes (total)	**220**	**200**	**ug/L**	**160**

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TAIT ENVIRONMENTAL

Client Sample ID: WCC_3S_07192001_0003

GC/MS Volatiles

Lot-Sample #...: E1G190320-005 Work Order #...: EGMXE2AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	200	ug/L	60
Bromoform	ND	200	ug/L	60
Isopropylbenzene	ND	200	ug/L	60
1,1,2,2-Tetrachloroethane	ND	200	ug/L	80
1,2,3-Trichloropropane	ND	200	ug/L	80
n-Propylbenzene	ND	200	ug/L	80
Bromobenzene	ND	200	ug/L	60
1,3,5-Trimethylbenzene	ND	200	ug/L	40
2-Chlorotoluene	ND	200	ug/L	60
4-Chlorotoluene	ND	200	ug/L	60
tert-Butylbenzene	ND	200	ug/L	40
1,2,4-Trimethylbenzene	ND	200	ug/L	60
sec-Butylbenzene	ND	200	ug/L	60
p-Isopropyltoluene	ND	200	ug/L	60
1,3-Dichlorobenzene	ND	200	ug/L	60
1,4-Dichlorobenzene	ND	200	ug/L	60
n-Butylbenzene	ND	200	ug/L	60
1,2-Dichlorobenzene	ND	200	ug/L	60
1,2-Dibromo-3-chloro-propane	ND	400	ug/L	140
1,2,4-Trichloro-benzene	ND	200	ug/L	60
Hexachlorobutadiene	ND	200	ug/L	60
1,2,3-Trichlorobenzene	ND	200	ug/L	80
Acrolein	ND	4000	ug/L	2400
Tert-amyl methyl ether	ND	400	ug/L	100
Acrylonitrile	ND	4000	ug/L	2000
Tert-butyl ethyl ether	ND	400	ug/L	100
t-Butanol	ND	5000	ug/L	1200
Iodomethane	ND	400	ug/L	200
Isopropyl ether	ND	400	ug/L	100
2-Chloroethyl vinyl ether	ND	1000	ug/L	400
Tetrahydrofuran	ND	2000	ug/L	400
Vinyl acetate	ND	1000	ug/L	400

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	110	(75 - 120)
1,2-Dichloroethane-d4	104	(65 - 130)
Toluene-d8	112	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

TAIT ENVIRONMENTAL

Client Sample ID: WCC_6S_07192001_1017

GC/MS Volatiles

Lot-Sample #...: E1G190320-006 **Work Order #...:** EGMXF1AA **Matrix.....:** WATER
Date Sampled...: 07/19/01 12:35 **Date Received..:** 07/19/01 16:15 **MS Run #.....:** 1202036
Prep Date.....: 07/21/01 **Analysis Date..:** 07/21/01
Prep Batch #...: 1202140 **Analysis Time..:** 05:21
Dilution Factor: 25
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	25	ug/L	10
Chloromethane	ND	50	ug/L	7.5
Vinyl chloride	ND	12	ug/L	7.5
Chloroethane	ND	50	ug/L	7.5
Bromomethane	ND	50	ug/L	25
Trichlorofluoromethane	ND	50	ug/L	7.5
1,1,2-Trichlorotrifluoro-ethane	ND	25	ug/L	10
Methylene chloride	ND	25	ug/L	7.5
Methyl tert-butyl ether	ND	25	ug/L	12
Carbon disulfide	ND	25	ug/L	7.5
Acetone	ND	250	ug/L	75
trans-1,2-Dichloroethene	**100**	**25**	**ug/L**	**7.5**
1,1-Dichloroethane	**72**	**25**	**ug/L**	**5.0**
2,2-Dichloropropane	ND	25	ug/L	7.5
cis-1,2-Dichloroethene	**990**	**25**	**ug/L**	**7.5**
Chloroform	**14 J**	**25**	**ug/L**	**7.5**
Bromochloromethane	ND	25	ug/L	7.5
1,1,1-Trichloroethane	**540**	**25**	**ug/L**	**5.0**
2-Butanone	ND	120	ug/L	75
1,1-Dichloropropene	ND	25	ug/L	7.5
Carbon tetrachloride	ND	12	ug/L	7.5
1,2-Dibromoethane	ND	25	ug/L	7.5
Benzene	**25**	**25**	**ug/L**	**7.5**
Trichloroethene	**1900**	**25**	**ug/L**	**7.5**
Bromodichloromethane	ND	25	ug/L	7.5
4-Methyl-2-pentanone	ND	120	ug/L	75
Toluene	**360**	**25**	**ug/L**	**7.5**
1,1,2-Trichloroethane	**11 J**	**25**	**ug/L**	**7.5**
1,2-Dichloroethane	**11 J**	**12**	**ug/L**	**10**
Tetrachloroethene	ND	25	ug/L	18
2-Hexanone	ND	120	ug/L	75
Dibromochloromethane	ND	25	ug/L	10
Chlorobenzene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
Ethylbenzene	**6.0 J**	**25**	**ug/L**	**5.0**
Xylenes (total)	**34**	**25**	**ug/L**	**20**

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TAIT ENVIRONMENTAL

Client Sample ID: WCC_6S_07192001_1017

GC/MS Volatiles

Lot-Sample #...: E1G190320-006 **Work Order #...:** EGMXF1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	25	ug/L	7.5
Bromoform	ND	25	ug/L	7.5
Isopropylbenzene	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
1,2,3-Trichloropropane	ND	25	ug/L	10
n-Propylbenzene	ND	25	ug/L	10
Bromobenzene	ND	25	ug/L	7.5
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
1,2,4-Trimethylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
p-Isopropyltoluene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
n-Butylbenzene	ND	25	ug/L	7.5
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	18
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
Hexachlorobutadiene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
Acrolein	ND	500	ug/L	300
Tert-amyl methyl ether	ND	50	ug/L	12
Acrylonitrile	ND	500	ug/L	250
Tert-butyl ethyl ether	ND	50	ug/L	12
t-Butanol	ND	620	ug/L	150
Iodomethane	ND	50	ug/L	25
Isopropyl ether	ND	50	ug/L	12
2-Chloroethyl vinyl ether	ND	120	ug/L	50
Tetrahydrofuran	ND	250	ug/L	50
Vinyl acetate	ND	120	ug/L	50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(75 - 120)
1,2-Dichloroethane-d4	106	(65 - 130)
Toluene-d8	109	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: WCC_6S_07192001_1017

GC/MS Volatiles

Lot-Sample #...: E1G190320-006 **Work Order #...:** EGMXF2AA **Matrix.....:** WATER
Date Sampled...: 07/19/01 12:35 **Date Received..:** 07/19/01 16:15 **MS Run #.....:** 1204247
Prep Date.....: 07/23/01 **Analysis Date..:** 07/23/01
Prep Batch #...: 1204471 **Analysis Time..:** 16:17
Dilution Factor: 5
Analyst ID.....: 015590 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	5.0	ug/L	2.0
Chloromethane	ND	10	ug/L	1.5
Vinyl chloride	ND	2.5	ug/L	1.5
Chloroethane	ND	10	ug/L	1.5
Bromomethane	ND	10	ug/L	5.0
Trichlorofluoromethane	ND	10	ug/L	1.5
1,1,2-Trichlorotrifluoro-ethane	ND	5.0	ug/L	2.0
Methylene chloride	ND	5.0	ug/L	1.5
Methyl tert-butyl ether	ND	5.0	ug/L	2.5
Carbon disulfide	ND	5.0	ug/L	1.5
Acetone	ND	50	ug/L	15
trans-1,2-Dichloroethene	**110**	**5.0**	**ug/L**	**1.5**
1,1-Dichloroethane	**74**	**5.0**	**ug/L**	**1.0**
2,2-Dichloropropane	ND	5.0	ug/L	1.5
cis-1,2-Dichloroethene	**980 E**	**5.0**	**ug/L**	**1.5**
Chloroform	**14**	**5.0**	**ug/L**	**1.5**
Bromochloromethane	ND	5.0	ug/L	1.5
1,1,1-Trichloroethane	**500 E**	**5.0**	**ug/L**	**1.0**
2-Butanone	ND	25	ug/L	15
1,1-Dichloropropene	ND	5.0	ug/L	1.5
Carbon tetrachloride	ND	2.5	ug/L	1.5
1,2-Dibromoethane	ND	5.0	ug/L	1.5
Benzene	**27**	**5.0**	**ug/L**	**1.5**
Trichloroethene	**1700 E**	**5.0**	**ug/L**	**1.5**
Bromodichloromethane	ND	5.0	ug/L	1.5
4-Methyl-2-pentanone	ND	25	ug/L	15
Toluene	**360**	**5.0**	**ug/L**	**1.5**
1,1,2-Trichloroethane	**14**	**5.0**	**ug/L**	**1.5**
1,2-Dichloroethane	**11**	**2.5**	**ug/L**	**2.0**
Tetrachloroethene	ND	5.0	ug/L	3.5
2-Hexanone	ND	25	ug/L	15
Dibromochloromethane	ND	5.0	ug/L	2.0
Chlorobenzene	ND	5.0	ug/L	1.5
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	1.5
Ethylbenzene	**7.6**	**5.0**	**ug/L**	**1.0**
Xylenes (total)	**38**	**5.0**	**ug/L**	**4.0**

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TAIT ENVIRONMENTAL

Client Sample ID: WCC_6S_07192001_1017

GC/MS Volatiles

Lot-Sample #...: E1G190320-006 **Work Order #...:** EGMXF2AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	5.0	ug/L	1.5
Bromoform	ND	5.0	ug/L	1.5
Isopropylbenzene	ND	5.0	ug/L	1.5
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	2.0
1,2,3-Trichloropropane	ND	5.0	ug/L	2.0
n-Propylbenzene	ND	5.0	ug/L	2.0
Bromobenzene	ND	5.0	ug/L	1.5
1,3,5-Trimethylbenzene	ND	5.0	ug/L	1.0
2-Chlorotoluene	ND	5.0	ug/L	1.5
4-Chlorotoluene	ND	5.0	ug/L	1.5
tert-Butylbenzene	ND	5.0	ug/L	1.0
1,2,4-Trimethylbenzene	ND	5.0	ug/L	1.5
sec-Butylbenzene	ND	5.0	ug/L	1.5
p-Isopropyltoluene	ND	5.0	ug/L	1.5
1,3-Dichlorobenzene	ND	5.0	ug/L	1.5
1,4-Dichlorobenzene	ND	5.0	ug/L	1.5
n-Butylbenzene	ND	5.0	ug/L	1.5
1,2-Dichlorobenzene	ND	5.0	ug/L	1.5
1,2-Dibromo-3-chloro-propane	ND	10	ug/L	3.5
1,2,4-Trichloro-benzene	ND	5.0	ug/L	1.5
Hexachlorobutadiene	ND	5.0	ug/L	1.5
1,2,3-Trichlorobenzene	ND	5.0	ug/L	2.0
Acrolein	ND	100	ug/L	60
Tert-amyl methyl ether	ND	10	ug/L	2.5
Acrylonitrile	ND	100	ug/L	50
Tert-butyl ethyl ether	ND	10	ug/L	2.5
t-Butanol	ND	120	ug/L	30
Iodomethane	ND	10	ug/L	5.0
Isopropyl ether	ND	10	ug/L	2.5
2-Chloroethyl vinyl ether	ND	25	ug/L	10
Tetrahydrofuran	ND	50	ug/L	10
Vinyl acetate	ND	25	ug/L	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 120)
1,2-Dichloroethane-d4	100	(65 - 130)
Toluene-d8	101	(80 - 130)

NOTE(S):

E Estimated result. Result concentration exceeds the calibration range.

TAIT ENVIRONMENTAL

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: E1G190320-007 **Work Order #...:** EGMXG1AA **Matrix.....:** WATER
Date Sampled...: 07/19/01 **Date Received..:** 07/19/01 16:15 **MS Run #.....:** 1202036
Prep Date.....: 07/20/01 **Analysis Date..:** 07/20/01
Prep Batch #...: 1202140 **Analysis Time..:** 21:52
Dilution Factor: 1
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.70
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

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TAIT ENVIRONMENTAL

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: E1G190320-007 **Work Order #...:** EGMXG1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 120)
1,2-Dichloroethane-d4	99	(65 - 130)
Toluene-d8	105	(80 - 130)

TAIT ENVIRONMENTAL

Client Sample ID: WCC_6S_07192001_0002

GC/MS Volatiles

Lot-Sample #...: E1G190320-008 **Work Order #...:** EGMXH1AA **Matrix.....:** WATER
Date Sampled...: 07/19/01 12:50 **Date Received..:** 07/19/01 16:15 **MS Run #.....:** 1202036
Prep Date.....: 07/21/01 **Analysis Date..:** 07/21/01
Prep Batch #...: 1202140 **Analysis Time..:** 05:51
Dilution Factor: 1
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**0.37 J**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	**2.8**	**1.0**	**ug/L**	**0.30**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.70
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

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TAIT ENVIRONMENTAL

Client Sample ID: WCC_6S_07192001_0002

GC/MS Volatiles

Lot-Sample #...: E1G190320-008 **Work Order #...:** EGMXH1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 120)
1,2-Dichloroethane-d4	103	(65 - 130)
Toluene-d8	104	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

QC DATA ASSOCIATION SUMMARY

E1G190320

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8260B		1202140	1202036
002	WATER	SW846 8260B		1202140	1202036
003	WATER	SW846 8260B		1202140	1202036
	WATER	SW846 8260B		1204471	1204247
004	WATER	SW846 8260B		1204436	1204232
005	WATER	SW846 8260B		1204436	1204232
006	WATER	SW846 8260B		1202140	1202036
	WATER	SW846 8260B		1204471	1204247
007	WATER	SW846 8260B		1202140	1202036
008	WATER	SW846 8260B		1202140	1202036

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G190320
MB Lot-Sample #: E1G210000-140

Analysis Date..: 07/20/01
Dilution Factor: 1

Work Order #...: EGQQN1AA

Prep Date.....: 07/20/01
Prep Batch #...: 1202140

Analyst ID.....: 004648

Matrix.....: WATER

Analysis Time..: 21:22
Instrument ID..: MSH

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G190320 **Work Order #...:** EGQQN1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Tert-amyl methyl ether	ND	2.0	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Tert-butyl ethyl ether	ND	2.0	ug/L	SW846 8260B
t-Butanol	ND	25	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
Isopropyl ether	ND	2.0	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 120)
1,2-Dichloroethane-d4	96	(65 - 130)
Toluene-d8	106	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G190320
MB Lot-Sample #: E1G230000-436

Work Order #...: EGRR31AA
Prep Date.....: 07/21/01
Prep Batch #...: 1204436
Analyst ID.....: 004648

Matrix.....: WATER
Analysis Time..: 10:05
Instrument ID..: MSH

Analysis Date..: 07/21/01
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G190320 **Work Order #...:** EGRR31AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Tert-amyl methyl ether	ND	2.0	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Tert-butyl ethyl ether	ND	2.0	ug/L	SW846 8260B
t-Butanol	ND	25	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
Isopropyl ether	ND	2.0	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 120)
1,2-Dichloroethane-d4	100	(65 - 130)
Toluene-d8	106	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G190320
MB Lot-Sample #: E1G230000-471

Work Order #...: EGRWL1AA

Matrix.....: WATER

Prep Date.....: 07/23/01
Analysis Time..: 09:06

Analysis Date..: 07/23/01
Prep Batch #...: 1204471
Instrument ID..: MSH

Dilution Factor: 1

Analyst ID.....: 015590

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G190320 **Work Order #...:** EGRWL1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Tert-amyl methyl ether	ND	2.0	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Tert-butyl ethyl ether	ND	2.0	ug/L	SW846 8260B
t-Butanol	ND	25	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
Isopropyl ether	ND	2.0	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(75 - 120)
1,2-Dichloroethane-d4	87	(65 - 130)
Toluene-d8	105	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1G190320 **Work Order #...:** EGQQN1AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G210000-140
Prep Date.....: 07/20/01 **Analysis Date..:** 07/20/01
Prep Batch #...: 1202140 **Analysis Time..:** 20:51
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 004648

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**10.0**	**10.8**	**ug/L**	**108**	**SW846 8260B**
Benzene	**10.0**	**9.09**	**ug/L**	**91**	**SW846 8260B**
Trichloroethene	**10.0**	**9.42**	**ug/L**	**94**	**SW846 8260B**
Toluene	**10.0**	**9.03**	**ug/L**	**90**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.01**	**ug/L**	**90**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	111	(75 - 120)
1,2-Dichloroethane-d4	106	(65 - 130)
Toluene-d8	113	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1G190320 **Work Order #...:** EGRR31AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G230000-436
Prep Date.....: 07/21/01 **Analysis Date..:** 07/21/01
Prep Batch #...: 1204436 **Analysis Time..:** 09:35
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 004648

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**10.0**	**10.9**	**ug/L**	**109**	**SW846 8260B**
Benzene	**10.0**	**9.40**	**ug/L**	**94**	**SW846 8260B**
Trichloroethene	**10.0**	**9.43**	**ug/L**	**94**	**SW846 8260B**
Toluene	**10.0**	**8.91**	**ug/L**	**89**	**SW846 8260B**
Chlorobenzene	**10.0**	**8.97**	**ug/L**	**90**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	109	(75 - 120)
1,2-Dichloroethane-d4	107	(65 - 130)
Toluene-d8	108	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1G190320 **Work Order #...:** EGRWL1AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G230000-471
Prep Date.....: 07/23/01 **Analysis Date..:** 07/23/01
Prep Batch #...: 1204471 **Analysis Time..:** 08:36
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**10.0**	**10.3**	**ug/L**	**103**	**SW846 8260B**
Benzene	**10.0**	**9.15**	**ug/L**	**92**	**SW846 8260B**
Trichloroethene	**10.0**	**9.17**	**ug/L**	**92**	**SW846 8260B**
Toluene	**10.0**	**8.82**	**ug/L**	**88**	**SW846 8260B**
Chlorobenzene	**10.0**	**8.95**	**ug/L**	**90**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 120)
1,2-Dichloroethane-d4	79	(65 - 130)
Toluene-d8	97	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1G190320 **Work Order #...:** EGQQN1AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G210000-140
Prep Date.....: 07/20/01 **Analysis Date..:** 07/20/01
Prep Batch #...: 1202140 **Analysis Time..:** 20:51
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 004648

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**108**	**(70 - 130)**	**SW846 8260B**
Benzene	**91**	**(75 - 120)**	**SW846 8260B**
Trichloroethene	**94**	**(75 - 130)**	**SW846 8260B**
Toluene	**90**	**(80 - 120)**	**SW846 8260B**
Chlorobenzene	**90**	**(80 - 120)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	111	(75 - 120)
1,2-Dichloroethane-d4	106	(65 - 130)
Toluene-d8	113	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1G190320 **Work Order #...:** EGRR31AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G230000-436
Prep Date.....: 07/21/01 **Analysis Date..:** 07/21/01
Prep Batch #...: 1204436 **Analysis Time..:** 09:35
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 004648

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**109**	**(70 - 130)**	**SW846 8260B**
Benzene	**94**	**(75 - 120)**	**SW846 8260B**
Trichloroethene	**94**	**(75 - 130)**	**SW846 8260B**
Toluene	**89**	**(80 - 120)**	**SW846 8260B**
Chlorobenzene	**90**	**(80 - 120)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	109	(75 - 120)
1,2-Dichloroethane-d4	107	(65 - 130)
Toluene-d8	108	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1G190320 **Work Order #...:** EGRWL1AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G230000-471
Prep Date.....: 07/23/01 **Analysis Date..:** 07/23/01
Prep Batch #...: 1204471 **Analysis Time..:** 08:36
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**103**	**(70 - 130)**	**SW846 8260B**
Benzene	**92**	**(75 - 120)**	**SW846 8260B**
Trichloroethene	**92**	**(75 - 130)**	**SW846 8260B**
Toluene	**88**	**(80 - 120)**	**SW846 8260B**
Chlorobenzene	**90**	**(80 - 120)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 120)
1,2-Dichloroethane-d4	79	(65 - 130)
Toluene-d8	97	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1G190320 **Work Order #...:** EGKJW1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: E1G180304-001 EGKJW1AD-MSD
Date Sampled...: 07/18/01 10:25 **Date Received..:** 07/18/01 17:30 **MS Run #.....:** 1202036
Prep Date.....: 07/21/01 **Analysis Date..:** 07/21/01
Prep Batch #...: 1202140 **Analysis Time..:** 06:51
Dilution Factor: 1 **Analyst ID.....:** 004648 **Instrument ID..:** MSH

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**10.0**	**10.5**	**ug/L**	**105**		**SW846 8260B**
	ND	**10.0**	**10.6**	**ug/L**	**106**	**1.5**	**SW846 8260B**
Benzene	**ND**	**10.0**	**9.27**	**ug/L**	**93**		**SW846 8260B**
	ND	**10.0**	**9.46**	**ug/L**	**95**	**2.0**	**SW846 8260B**
Trichloroethene	**3.6**	**10.0**	**12.8**	**ug/L**	**91**		**SW846 8260B**
	3.6	**10.0**	**12.8**	**ug/L**	**92**	**0.23**	**SW846 8260B**
Toluene	**ND**	**10.0**	**8.89**	**ug/L**	**89**		**SW846 8260B**
	ND	**10.0**	**9.27**	**ug/L**	**93**	**4.2**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**8.81**	**ug/L**	**88**		**SW846 8260B**
	ND	**10.0**	**9.01**	**ug/L**	**90**	**2.2**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	108	(75 - 120)
	107	(75 - 120)
1,2-Dichloroethane-d4	103	(65 - 130)
	107	(65 - 130)
Toluene-d8	107	(80 - 130)
	110	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E1G190320	**Work Order #...:**	EGPWA1A0-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E1G200279-001		EGPWA1A1-MSD		
Date Sampled...:	07/20/01 08:18	**Date Received..:**	07/20/01 14:50	**MS Run #.....:**	1204232
Prep Date.....:	07/21/01	**Analysis Date..:**	07/21/01		
Prep Batch #...:	1204436	**Analysis Time..:**	18:17		
Dilution Factor:	1	**Analyst ID.....:**	004648	**Instrument ID..:**	MSH

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**10.0**	**11.2**	**ug/L**	**112**		**SW846 8260B**
	ND	**10.0**	**10.6**	**ug/L**	**106**	**6.0**	**SW846 8260B**
Benzene	**ND**	**10.0**	**9.16**	**ug/L**	**92**		**SW846 8260B**
	ND	**10.0**	**9.59**	**ug/L**	**96**	**4.6**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**9.47**	**ug/L**	**95**		**SW846 8260B**
	ND	**10.0**	**9.47**	**ug/L**	**95**	**0.0**	**SW846 8260B**
Toluene	**ND**	**10.0**	**8.83**	**ug/L**	**88**		**SW846 8260B**
	ND	**10.0**	**9.12**	**ug/L**	**91**	**3.2**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.28**	**ug/L**	**93**		**SW846 8260B**
	ND	**10.0**	**9.15**	**ug/L**	**92**	**1.4**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	112	(75 - 120)
	107	(75 - 120)
1,2-Dichloroethane-d4	90	(65 - 130)
	111	(65 - 130)
Toluene-d8	92	(80 - 130)
	108	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1G190320 **Work Order #...:** EGP0T1AE-MS **Matrix.....:** WATER
MS Lot-Sample #: E1G200293-001 EGP0T1AF-MSD
Date Sampled...: 07/20/01 10:30 **Date Received..:** 07/20/01 16:05 **MS Run #.....:** 1204247
Prep Date.....: 07/23/01 **Analysis Date..:** 07/23/01
Prep Batch #...: 1204471 **Analysis Time..:** 13:47
Dilution Factor: 12.5 **Analyst ID.....:** 015590 **Instrument ID..:** MSH

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**125**	**133**	**ug/L**	**106**		**SW846 8260B**
	ND	**125**	**132**	**ug/L**	**106**	**0.60**	**SW846 8260B**
Benzene	**ND**	**125**	**123**	**ug/L**	**98**		**SW846 8260B**
	ND	**125**	**122**	**ug/L**	**98**	**0.57**	**SW846 8260B**
Trichloroethene	**1100**	**125**		**ug/L**	**0.0**		**SW846 8260B**
	Qualifiers: NC,MSB						
	1100	**125**		**ug/L**	**0.0**	**0.0**	**SW846 8260B**
	Qualifiers: NC,MSB						
Toluene	**ND**	**125**	**114**	**ug/L**	**91**		**SW846 8260B**
	ND	**125**	**117**	**ug/L**	**93**	**2.7**	**SW846 8260B**
Chlorobenzene	**ND**	**125**	**116**	**ug/L**	**93**		**SW846 8260B**
	ND	**125**	**118**	**ug/L**	**95**	**1.9**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	113	(75 - 120)
	109	(75 - 120)
1,2-Dichloroethane-d4	103	(65 - 130)
	97	(65 - 130)
Toluene-d8	111	(80 - 130)
	107	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E1G190320	**Work Order #...:**	EGKJW1AC-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E1G180304-001		EGKJW1AD-MSD		
Date Sampled...:	07/18/01 10:25	**Date Received..:**	07/18/01 17:30	**MS Run #.....:**	1202036
Prep Date.....:	07/21/01	**Analysis Date..:**	07/21/01		
Prep Batch #...:	1202140	**Analysis Time..:**	06:51		
Dilution Factor:	1	**Analyst ID.....:**	004648	**Instrument ID..:**	MSH

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**105**	**(70 - 130)**			**SW846 8260B**
	106	**(70 - 130)**	**1.5**	**(0-25)**	**SW846 8260B**
Benzene	**93**	**(75 - 120)**			**SW846 8260B**
	95	**(75 - 120)**	**2.0**	**(0-25)**	**SW846 8260B**
Trichloroethene	**91**	**(75 - 130)**			**SW846 8260B**
	92	**(75 - 130)**	**0.23**	**(0-25)**	**SW846 8260B**
Toluene	**89**	**(80 - 120)**			**SW846 8260B**
	93	**(80 - 120)**	**4.2**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**88**	**(80 - 120)**			**SW846 8260B**
	90	**(80 - 120)**	**2.2**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	108	(75 - 120)
	107	(75 - 120)
1,2-Dichloroethane-d4	103	(65 - 130)
	107	(65 - 130)
Toluene-d8	107	(80 - 130)
	110	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E1G190320	**Work Order #...:**	EGPWA1A0-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E1G200279-001		EGPWA1A1-MSD		
Date Sampled...:	07/20/01 08:18	**Date Received..:**	07/20/01 14:50	**MS Run #.....:**	1204232
Prep Date.....:	07/21/01	**Analysis Date..:**	07/21/01		
Prep Batch #...:	1204436	**Analysis Time..:**	18:17		
Dilution Factor:	1	**Analyst ID.....:**	004648	**Instrument ID..:**	MSH

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**112**	**(70 - 130)**			**SW846 8260B**
	106	**(70 - 130)**	**6.0**	**(0-25)**	**SW846 8260B**
Benzene	**92**	**(75 - 120)**			**SW846 8260B**
	96	**(75 - 120)**	**4.6**	**(0-25)**	**SW846 8260B**
Trichloroethene	**95**	**(75 - 130)**			**SW846 8260B**
	95	**(75 - 130)**	**0.0**	**(0-25)**	**SW846 8260B**
Toluene	**88**	**(80 - 120)**			**SW846 8260B**
	91	**(80 - 120)**	**3.2**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**93**	**(80 - 120)**			**SW846 8260B**
	92	**(80 - 120)**	**1.4**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	112	(75 - 120)
	107	(75 - 120)
1,2-Dichloroethane-d4	90	(65 - 130)
	111	(65 - 130)
Toluene-d8	92	(80 - 130)
	108	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E1G190320	**Work Order #...:**	EGP0T1AE-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E1G200293-001		EGP0T1AF-MSD		
Date Sampled...:	07/20/01 10:30	**Date Received..:**	07/20/01 16:05	**MS Run #.....:**	1204247
Prep Date.....:	07/23/01	**Analysis Date..:**	07/23/01		
Prep Batch #...:	1204471	**Analysis Time..:**	13:47		
Dilution Factor:	12.5	**Analyst ID.....:**	015590	**Instrument ID..:**	MSH

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**106**	**(70 - 130)**			**SW846 8260B**
	106	**(70 - 130)**	**0.60**	**(0-25)**	**SW846 8260B**
Benzene	**98**	**(75 - 120)**			**SW846 8260B**
	98	**(75 - 120)**	**0.57**	**(0-25)**	**SW846 8260B**
Trichloroethene	**0.0 NC,MS**	**(75 - 130)**			**SW846 8260B**
	0.0 NC,MS	**(75 - 130)**	**0.0**	**(0-25)**	**SW846 8260B**
Toluene	**91**	**(80 - 120)**			**SW846 8260B**
	93	**(80 - 120)**	**2.7**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**93**	**(80 - 120)**			**SW846 8260B**
	95	**(80 - 120)**	**1.9**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	113	(75 - 120)
	109	(75 - 120)
1,2-Dichloroethane-d4	103	(65 - 130)
	97	(65 - 130)
Toluene-d8	111	(80 - 130)
	107	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

APPENDIX C

BOE-C6-0048981

Appendix C

Boeing C-6 Site
Data Validation Reports
LDC #7109 Volatiles

ENGLAND
GEOSYSTEM
ENVIRONMENTAL ENGINEERING

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

Haley & Aldrich, Inc.
9040 Friars Road, Suite 202
San Diego, CA 92108
ATTN: Mr. Michael McDowell

September 26, 2001

SUBJECT: Boeing C-6 Site, Data Validation

Dear Mr. McDowell,

Enclosed are the final validation reports for the fraction listed below. These SDGs were received on September 14, 2001. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 7109:

SDG #	**Fraction**
E1G170296, E1G180304	Volatiles

The data validation was performed under Tier 2 and Tier 3 guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996

Please feel free to contact us if you have any questions.

Sincerely,

for

Richard M. Amano
President/Principal Chemist

7109COV.HA

Attachment 1

LDC #7109 (Haley & Aldrich/Boeing C-6 Site)

LDC	SDG#	DATE REC'D	DATE DUE	VOA (8260B)																																	
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	E1G170296	9-14-01	9-28-01	5	0																																
A	E1G170296	9-14-01	9-28-01	4	0																																
B	E1G180304	9-14-01	9-28-01	4	0																																
B	E1G180304	9-14-01	9-28-01	1	0																																
Total				14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Shaded cells indicate Tier 3 validation (all other cells are Tier 2 validation). These sample counts do not inclute MS/MSD, and DUPs

7109ST.HA

Boeing C-6 Site
Data Validation Reports
LDC# 7109

Volatiles

LDC

Revision #1

LDC Report# 7109A1

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Boeing C-6 Site

Collection Date: July 17, 2001

LDC Report Date: October 2, 2001

Matrix: Water

Parameters: Volatiles

Validation Level: Tier 2 & Tier 3

Laboratory: Severn Trent Laboratories

Sample Delivery Group (SDG): E1G170296

Sample Identification

TMW-11_07172001_1001**
TMW-12_07172001_1003**
TMW-13_07172001_1004
TMW-5_07172001_1005
TMW-4_07172001_1007
TMW-11_07172001_1001DL**
TMW-12_07172001_1003DL**
TMW-5_07172001_1005DL
TMW-4_07172001_1007DL

**Indicates sample underwent Tier 3 review

Introduction

This data review covers 9 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Samples indicated by a double asterisk on the front cover underwent a Tier 3 review. A Tier 2 review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Tier 2 criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance check data were reviewed for Tier 2/Tier 3 .

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs) .

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

Date	Compound	%RSD	Associated Samples	Flag	A or P
7/18/01	tert-Butanol	38.367	All samples in SDG E1G170296	J (all detects) UJ (all non-detects)	A

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
7/18/01	Acetone Acrolein Acrylonitrile tert-Butanol 2-Butanone Tetrahydrofuran 2-Chloroethylvinyl ether	0.01989 (≥0.05) 0.00494 (≥0.05) 0.02035 (≥0.05) 0.00622 (≥0.05) 0.03725 (≥0.05) 0.02415 (≥0.05) 0.01587 (≥0.05)	All samples in SDG E1G170296	J (all detects) R (all non-detects)	A

*Indicates change as the result of report review SDG E1G170296

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) .

For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
7/20/01	Iodomethane	25.2	TMW-4_07172001_1007 1201534MB	J (all detects) UJ (all non-detects)	A

All of the continuing calibration RRF values were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
7/18/01	Acetone Acrolein Acrylonitrile tert-Butanol 2-Butanone Tetrahydrofuran 2-Chloroethylvinyl ether	0.01945 (≥0.05) 0.00458 (≥0.05) 0.02042 (≥0.05) 0.00659 (≥0.05) 0.03540 (≥0.05) 0.02677 (≥0.05) 0.01541 (≥0.05)	TMW-13_07172001_1004 TMW-12_07172001_1003DL** TMW-5_07172001_1005DL TMW-4_07172001_1007DL 1200253MB	J (all detects) R (all non-detects)	A
7/19/01	Acetone Acrolein Acrylonitrile tert-Butanol 2-Butanone Tetrahydrofuran 2-Chloroethylvinyl ether	0.01664 (≥0.05) 0.00417 (≥0.05) 0.01890 (≥0.05) 0.00494 (≥0.05) 0.03057 (≥0.05) 0.02087 (≥0.05) 0.01334 (≥0.05)	TMW-11_07172001_1001** TMW-12_07172001_1003** TMW-5_07172001_1005 TMW-11_07172001_1001DL** 1201324MB	J (all detects) R (all non-detects)	A
7/20/01	Acetone Acrolein Acrylonitrile tert-Butanol 2-Butanone Tetrahydrofuran 2-Chloroethylvinyl ether	0.01881 (≥0.05) 0.00501 (≥0.05) 0.01913 (≥0.05) 0.00836 (≥0.05) 0.03246 (≥0.05) 0.02466 (≥0.05) 0.01454 (≥0.05)	TMW-4_07172001_1007 1201534MB	J (all detects) R (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

*Indicates change as the result of report review SDG E1G1702964

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG E1G170296	All TCL compounds	No MS/MSD associated with these samples.	MS/MSD required.	None	P

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria for samples on which a Tier 3 review was performed with the following exceptions:

Sample	Compound	Finding	Flag	A or P
TMW-5_07172001_100SDL	Tetrahydrofuran	Mass spectra for this compound does not match for this sample.	R	A

Raw data were not evaluated for the samples reviewed by Tier 2 criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a Tier 3 review was performed with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
TMW-11_07172001_1001** TMW-12_07172001_1003**	Chloroform	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A
TMW-5_07172001_1006 TMW-4_07172001_1007	Trichloroethane	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A

Raw data were not evaluated for the samples reviewed by Tier 2 criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria for samples on which a Tier 3 review was performed. Raw data were not evaluated for the samples reviewed by Tier 2 criteria.

XV. Overall Assessment of Data

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

*XVII. Field Blanks

*Sample TMW-13_07172001_1004 was identified as a field blank. No volatile contaminants were found in this blank with the following exceptions:

Field Blank ID	Compound	Concentration (ug/L)
TMW-13_07172001_1004	Acetone Toluene Xylenes, total	6.5 1.4 0.82

*Indicates change as the result of report review SDG E1G170296

*Sample TMW-4_07172001_0002 was identified as a rinsate blank. No volatile contaminants were found in this blank with the following exceptions:

Rinsate Blank ID	Compound	Concentration (ug/L)
TMW-4_07172001_0002	Acetone	5.9
	2-Butanone	6.0
	Toluene	1.4
	Xylenes, total	0.87

*Indicates change as the result of report review SDG E1G170296 7

SDG	Sample	Compound	Flag	A or P	Reason
E1G170296	TMW-5_07172001_1005 TMW-4_07172001_1007	Trichloroethene	J (all detects)	A	Compound quantitation and CRQLs

Boeing C-6 Site
Volatiles - Laboratory Blank Data Qualification Summary - SDG E1G170296

No Sample Data Qualified in this SDG

7109A

TAIT ENVIRONMENTAL

Client Sample ID: TMW_11_07172001_1001

GC/MS Volatiles

Lot-Sample #...: E1G170296-003 **Work Order #...:** EGHF81AA **Matrix.....:** WATER
Date Sampled...: 07/17/01 11:05 **Date Received..:** 07/17/01 17:15 **MS Run #.....:** 1201175
Prep Date.....: 07/19/01 **Analysis Date..:** 07/19/01
Prep Batch #...: 1201324 **Analysis Time..:** 22:50
Dilution Factor: 10
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/L	4.0
Chloromethane	ND	20	ug/L	3.0
Vinyl chloride	ND	5.0	ug/L	3.0
Chloroethane	ND	20	ug/L	3.0
Bromomethane	ND	20	ug/L	10
Trichlorofluoromethane	ND	20	ug/L	3.0
1,1,2-Trichlorotrifluoro-ethane	ND	10	ug/L	4.0
Methylene chloride	ND	10	ug/L	3.0
Methyl tert-butyl ether	ND	10	ug/L	5.0
Carbon disulfide	ND	10	ug/L	3.0
Acetone	ND R	100	ug/L	30
trans-1,2-Dichloroethene	ND	10	ug/L	3.0
1,1-Dichloroethane	ND	10	ug/L	2.0
2,2-Dichloropropane	ND	10	ug/L	3.0
cis-1,2-Dichloroethene	ND	10	ug/L	3.0
Chloroform	**430** J	**10**	**ug/L**	**3.0**
Bromochloromethane	ND	10	ug/L	3.0
1,1,1-Trichloroethane	ND	10	ug/L	2.0
2-Butanone	ND R	50	ug/L	30
1,1-Dichloropropene	ND	10	ug/L	3.0
Carbon tetrachloride	ND	5.0	ug/L	3.0
1,2-Dibromoethane	ND	10	ug/L	3.0
Benzene	ND	10	ug/L	3.0
Trichloroethene	**12**	**10**	**ug/L**	**3.0**
Bromodichloromethane	ND	10	ug/L	3.0
4-Methyl-2-pentanone	ND	50	ug/L	30
Toluene	**5.2 J**	**10**	**ug/L**	**3.0**
1,1,2-Trichloroethane	ND	10	ug/L	3.0
1,2-Dichloroethane	ND	5.0	ug/L	4.0
Tetrachloroethene	ND	10	ug/L	7.0
2-Hexanone	ND	50	ug/L	30
Dibromochloromethane	ND	10	ug/L	4.0
Chlorobenzene	ND	10	ug/L	3.0
1,1,1,2-Tetrachloroethane	ND	10	ug/L	3.0
Ethylbenzene	ND	10	ug/L	2.0
Xylenes (total)	ND	10	ug/L	8.0

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_11_07172001_1001

GC/MS Volatiles

Lot-Sample #...: E1G170296-003 Work Order #...: EGHF81AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	10	ug/L	3.0
Bromoform	ND	10	ug/L	3.0
Isopropylbenzene	ND	10	ug/L	3.0
1,1,2,2-Tetrachloroethane	ND	10	ug/L	4.0
1,2,3-Trichloropropane	ND	10	ug/L	4.0
n-Propylbenzene	ND	10	ug/L	4.0
Bromobenzene	ND	10	ug/L	3.0
1,3,5-Trimethylbenzene	ND	10	ug/L	2.0
2-Chlorotoluene	ND	10	ug/L	3.0
4-Chlorotoluene	ND	10	ug/L	3.0
tert-Butylbenzene	ND	10	ug/L	2.0
1,2,4-Trimethylbenzene	ND	10	ug/L	3.0
sec-Butylbenzene	ND	10	ug/L	3.0
p-Isopropyltoluene	ND	10	ug/L	3.0
1,3-Dichlorobenzene	ND	10	ug/L	3.0
1,4-Dichlorobenzene	ND	10	ug/L	3.0
n-Butylbenzene	ND	10	ug/L	3.0
1,2-Dichlorobenzene	ND	10	ug/L	3.0
1,2-Dibromo-3-chloro-propane	ND	20	ug/L	7.0
1,2,4-Trichloro-benzene	ND	10	ug/L	3.0
Hexachlorobutadiene	ND	10	ug/L	3.0
1,2,3-Trichlorobenzene	ND	10	ug/L	4.0
Acrolein	ND R	200	ug/L	120
Tert-amyl methyl ether	ND	20	ug/L	5.0
Acrylonitrile	ND R	200	ug/L	100
Tert-butyl ethyl ether	ND	20	ug/L	5.0
t-Butanol	ND R	250	ug/L	60
Iodomethane	ND	20	ug/L	10
Isopropyl ether	ND	20	ug/L	5.0
2-Chloroethyl vinyl ether	ND R	50	ug/L	20
Tetrahydrofuran	ND R	100	ug/L	20
Vinyl acetate	ND	50	ug/L	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 120)
1,2-Dichloroethane-d4	99	(65 - 130)
Toluene-d8	108	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

A 6-25-01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_11_07172001_1001

GC/MS Volatiles

Lot-Sample #...: E1G170296-003 Work Order #...: EGHF82AA Matrix.....: WATER
Date Sampled...: 07/17/01 11:05 Date Received..: 07/17/01 17:15 MS Run #.....: 1201175
Prep Date.....: 07/20/01 Analysis Date..: 07/20/01
Prep Batch #...: 1201324 Analysis Time..: 05:20
Dilution Factor: 2
Analyst ID.....: 004648 Instrument ID..: MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	2.0	ug/L	0.80
Chloromethane	ND	4.0	ug/L	0.60
Vinyl chloride	ND	1.0	ug/L	0.60
Chloroethane	ND	4.0	ug/L	0.60
Bromomethane	ND	4.0	ug/L	2.0
Trichlorofluoromethane	ND	4.0	ug/L	0.60
1,1,2-Trichlorotrifluoro-ethane	ND	2.0	ug/L	0.80
Methylene chloride	**0.75 J**	**2.0**	**ug/L**	**0.60**
Methyl tert-butyl ether	ND	2.0	ug/L	1.0
Carbon disulfide	ND	2.0	ug/L	0.60
Acetone	ND R	20	ug/L	6.0
trans-1,2-Dichloroethene	ND	2.0	ug/L	0.60
1,1-Dichloroethane	ND	2.0	ug/L	0.40
2,2-Dichloropropane	ND	2.0	ug/L	0.60
cis-1,2-Dichloroethene	ND	2.0	ug/L	0.60
Chloroform	**390 E J**	**2.0**	**ug/L**	**0.60**
Bromochloromethane	ND	2.0	ug/L	0.60
1,1,1-Trichloroethane	ND	2.0	ug/L	0.40
2-Butanone	ND R	10	ug/L	6.0
1,1-Dichloropropene	ND	2.0	ug/L	0.60
Carbon tetrachloride	**2.0**	**1.0**	**ug/L**	**0.60**
1,2-Dibromoethane	ND	2.0	ug/L	0.60
Benzene	ND	2.0	ug/L	0.60
Trichloroethene	**11**	**2.0**	**ug/L**	**0.60**
Bromodichloromethane	ND	2.0	ug/L	0.60
4-Methyl-2-pentanone	ND	10	ug/L	6.0
Toluene	**4.9**	**2.0**	**ug/L**	**0.60**
1,1,2-Trichloroethane	ND	2.0	ug/L	0.60
1,2-Dichloroethane	ND	1.0	ug/L	0.80
Tetrachloroethene	**2.5**	**2.0**	**ug/L**	**1.4**
2-Hexanone	ND	10	ug/L	6.0
Dibromochloromethane	ND	2.0	ug/L	0.80
Chlorobenzene	ND	[illegible]	[illegible]	[illegible]
1,1,1,2-Tetrachloroethane	ND	2.0	ug/L	0.60
Ethylbenzene	ND	2.0	ug/L	0.40
Xylenes (total)	ND	2.0	ug/L	1.6

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_11_07172001_1001

GC/MS Volatiles

Lot-Sample #...: E1G170296-003 Work Order #...: EGHF82AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
S yrene	ND	2.0	ug/L	0.60
B omoform	ND	2.0	ug/L	0.60
Isopropylbenzene	ND	2.0	ug/L	0.60
1-1,2,2-Tetrachloroethane	ND	2.0	ug/L	0.80
1 2,3-Trichloropropane	ND	2.0	ug/L	0.80
n-Propylbenzene	ND	2.0	ug/L	0.80
Bromobenzene	ND	2.0	ug/L	0.60
1 3,5-Trimethylbenzene	ND	2.0	ug/L	0.40
2 Chlorotoluene	ND	2.0	ug/L	0.60
4-Chlorotoluene	ND	2.0	ug/L	0.60
t ct-Butylbenzene	ND	2.0	ug/L	0.40
1 2,4-Trimethylbenzene	ND	2.0	ug/L	0.60
sec-Butylbenzene	ND	2.0	ug/L	0.60
p-Isopropyltoluene	ND	2.0	ug/L	0.60
1 3-Dichlorobenzene	ND	2.0	ug/L	0.60
1,4-Dichlorobenzene	ND	2.0	ug/L	0.60
n-Butylbenzene	ND	2.0	ug/L	0.60
1 2-Dichlorobenzene	ND	2.0	ug/L	0.60
1, -Dibromo-3-chloro-propane	ND	4.0	ug/L	1.4
1 ,4-Trichloro-benzene	ND	2.0	ug/L	0.60
Hexachlorobutadiene	ND	2.0	ug/L	0.60
1,2,3-Trichlorobenzene	0.83 J	2.0	ug/L	0.80
d olein	ND R	40	ug/L	24
'e t-amyl methyl ether	ND	4.0	ug/L	1.0
crylonitrile	ND R	40	ug/L	20
'e t-butyl ethyl ether	ND	4.0	ug/L	1.0
utanol	ND R	50	ug/L	12
odomethane	ND	4.0	ug/L	2.0
s-propyl ether	ND	4.0	ug/L	1.0
hloroethyl vinyl ether	ND R	10	ug/L	4.0
etrahydrofuran	ND R	20	ug/L	4.0
inyl acetate	ND	10	ug/L	4.0

URROGATE	PERCENT RECOVERY	RECOVERY LIMITS
r nofluorobenzene	107	(75 - 120)
, -Dichloroethane-d4	102	(65 - 130)
oluene-d8	111	(80 - 120)

D 3(S):

Estimated result. Result is less than RL.

Estimated result. Result concentration exceeds the calibration range.

A 9-25-01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_12_07172001_1003

GC/MS Volatiles

Lot-Sample #...: E1G170296-004 **Work Order #...:** EGHGA2AA **Matrix.....:** WATER
Date Sampled...: 07/17/01 11:38 **Date Received..:** 07/17/01 17:15 **MS Run #.....:** 1201175
Prep Date.....: 07/20/01 **Analysis Date..:** 07/20/01
Prep Batch #...: 1201324 **Analysis Time..:** 05:50
Dilution Factor: 5
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	5.0	ug/L	2.0
Chloromethane	ND	10	ug/L	1.5
Vinyl chloride	ND	2.5	ug/L	1.5
Chloroethane	ND	10	ug/L	1.5
Bromomethane	ND	10	ug/L	5.0
Trichlorofluoromethane	ND	10	ug/L	1.5
1,1,2-Trichlorotrifluoro-ethane	ND	5.0	ug/L	2.0
Methylene chloride	ND	5.0	ug/L	1.5
Methyl tert-butyl ether	ND	5.0	ug/L	2.5
Carbon disulfide	ND	5.0	ug/L	1.5
Acetone	ND R	50	ug/L	15
trans-1,2-Dichloroethene	ND	5.0	ug/L	1.5
1,1-Dichloroethane	ND	5.0	ug/L	1.0
2,2-Dichloropropane	ND	5.0	ug/L	1.5
cis-1,2-Dichloroethene	ND	5.0	ug/L	1.5
Chloroform	**1100 E J**	**5.0**	**ug/L**	**1.5**
Bromochloromethane	ND	5.0	ug/L	1.5
1,1,1-Trichloroethane	ND	5.0	ug/L	1.0
2-Butanone	ND R	25	ug/L	15
1,1-Dichloropropene	ND	5.0	ug/L	1.5
Carbon tetrachloride	**2.9**	**2.5**	**ug/L**	**1.5**
1,2-Dibromoethane	ND	5.0	ug/L	1.5
Benzene	ND	5.0	ug/L	1.5
Trichloroethene	**170**	**5.0**	**ug/L**	**1.5**
Bromodichloromethane	ND	5.0	ug/L	1.5
4-Methyl-2-pentanone	ND	25	ug/L	15
Toluene	**6.7**	**5.0**	**ug/L**	**1.5**
1,1,2-Trichloroethane	ND	5.0	ug/L	1.5
1,2-Dichloroethane	ND	2.5	ug/L	2.0
Tetrachloroethene	**12**	**5.0**	**ug/L**	**3.5**
2-Hexanone	ND	25	ug/L	15
Dibromochloromethane	ND	5.0	ug/L	2.0
Chlorobenzene	ND	5.0	ug/L	1.5
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	1.5
Ethylbenzene	ND	5.0	ug/L	1.0
Xylenes (total)	ND	5.0	ug/L	4.0

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_12_07172001_1003

GC/MS Volatiles

Lot-Sample #...: E1G170296-004 Work Order #...: EGHGA2AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	5.0	ug/L	1.5
Bromoform	ND	5.0	ug/L	1.5
Isopropylbenzene	ND	5.0	ug/L	1.5
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	2.0
1,2,3-Trichloropropane	ND	5.0	ug/L	2.0
n-Propylbenzene	ND	5.0	ug/L	2.0
Bromobenzene	ND	5.0	ug/L	1.5
1,3,5-Trimethylbenzene	ND	5.0	ug/L	1.0
2-Chlorotoluene	ND	5.0	ug/L	1.5
4-Chlorotoluene	ND	5.0	ug/L	1.5
tert-Butylbenzene	ND	5.0	ug/L	1.0
1,2,4-Trimethylbenzene	ND	5.0	ug/L	1.5
sec-Butylbenzene	ND	5.0	ug/L	1.5
p-Isopropyltoluene	ND	5.0	ug/L	1.5
1,3-Dichlorobenzene	ND	5.0	ug/L	1.5
1,4-Dichlorobenzene	ND	5.0	ug/L	1.5
n-Butylbenzene	ND	5.0	ug/L	1.5
1,2-Dichlorobenzene	ND	5.0	ug/L	1.5
1,2-Dibromo-3-chloro-propane	ND	10	ug/L	3.5
1,2,4-Trichloro-benzene	ND	5.0	ug/L	1.5
Hexachlorobutadiene	ND	5.0	ug/L	1.5
1,2,3-Trichlorobenzene	ND	5.0	ug/L	2.0
Acrolein	ND R	100	ug/L	60
Tert-amyl methyl ether	ND	10	ug/L	2.5
Acrylonitrile	ND R	100	ug/L	50
Tert-butyl ethyl ether	ND	10	ug/L	2.5
t-Butanol	ND R	120	ug/L	30
Iodomethane	ND	10	ug/L	5.0
Isopropyl ether	ND	10	ug/L	2.5
2-Chloroethyl vinyl ether	ND R	25	ug/L	10
Tetrahydrofuran	ND R	50	ug/L	10
Vinyl acetate	ND	25	ug/L	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	110	(75 - 120)
1,2-Dichloroethane-d4	102	(65 - 130)
Toluene-d8	110	(80 - 120)

NOTE(S):

E Estimated result. Result concentration exceeds the calibration range.

A 9-25-01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_12_07172001_1003

GC/MS Volatiles

Lot-Sample #...:	E1G170296-004	**Work Order #...:**	EGHGA1AA	**Matrix.....:**	WATER
Date Sampled...:	07/17/01 11:38	**Date Received..:**	07/17/01 17:15	**MS Run #.....:**	1200115
Prep Date.....:	07/19/01	**Analysis Date..:**	07/19/01		
Prep Batch #...:	1200253	**Analysis Time..:**	04:50		
Dilution Factor:	25				
Analyst ID.....:	004648	**Instrument ID..:**	MSH		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	25	ug/L	10
Chloromethane	ND	50	ug/L	7.5
Vinyl chloride	ND	12	ug/L	7.5
Chloroethane	ND	50	ug/L	7.5
Bromomethane	ND	50	ug/L	25
Trichlorofluoromethane	ND	50	ug/L	7.5
1,1,2-Trichlorotrifluoro-ethane	ND	25	ug/L	10
Methylene chloride	ND	25	ug/L	7.5
Methyl tert-butyl ether	ND	25	ug/L	12
Carbon disulfide	ND	25	ug/L	7.5
Acetone	ND R	250	ug/L	75
trans-1,2-Dichloroethene	ND	25	ug/L	7.5
1,1-Dichloroethane	ND	25	ug/L	5.0
2,2-Dichloropropane	ND	25	ug/L	7.5
cis-1,2-Dichloroethene	ND	25	ug/L	7.5
Chloroform	**1400**	**25**	**ug/L**	**7.5**
Bromochloromethane	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
2-Butanone	ND R	120	ug/L	75
1,1-Dichloropropene	ND	25	ug/L	7.5
Carbon tetrachloride	ND	12	ug/L	7.5
1,2-Dibromoethane	ND	25	ug/L	7.5
Benzene	ND	25	ug/L	7.5
Trichloroethene	**210**	**25**	**ug/L**	**7.5**
Bromodichloromethane	ND	25	ug/L	7.5
4-Methyl-2-pentanone	ND	120	ug/L	75
Toluene	**7.6 J**	**25**	**ug/L**	**7.5**
1,1,2-Trichloroethane	ND	25	ug/L	7.5
1,2-Dichloroethane	ND	12	ug/L	10
Tetrachloroethene	ND	25	ug/L	18
2-Hexanone	ND	120	ug/L	75
Dibromochloromethane	ND	25	ug/L	10
Chlorobenzene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
Ethylbenzene	ND	25	ug/L	5.0
Xylenes (total)	ND	25	ug/L	20

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A 9-25-01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_12_07172001_1003

GC/MS Volatiles

Lot-Sample #...: E1G170296-004 Work Order #...: EGHGA1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	25	ug/L	7.5
Bromoform	ND	25	ug/L	7.5
Isopropylbenzene	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
1,2,3-Trichloropropane	ND	25	ug/L	10
n-Propylbenzene	ND	25	ug/L	10
Bromobenzene	ND	25	ug/L	7.5
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
1,2,4-Trimethylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
p-Isopropyltoluene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
n-Butylbenzene	ND	25	ug/L	7.5
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	18
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
Hexachlorobutadiene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
Acrolein	ND R	500	ug/L	300
Tert-amyl methyl ether	ND	50	ug/L	12
Acrylonitrile	ND R	500	ug/L	250
Tert-butyl ethyl ether	ND	50	ug/L	12
t-Butanol	ND R	620	ug/L	150
Iodomethane	ND	50	ug/L	25
Isopropyl ether	ND	50	ug/L	12
2-Chloroethyl vinyl ether	ND R	120	ug/L	50
Tetrahydrofuran	120 J ~~R~~ J	250	ug/L	50
Vinyl acetate	ND	120	ug/L	50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 120)
1,2-Dichloroethane-d4	97	(65 - 130)
Toluene-d8	103	(80 - 130)

NOTE(S):

Estimated result. Result is less than RL.

A 1-25-01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_13_07172001_0004

GC/MS Volatiles

Lot-Sample #...:	E1G170296-006	**Work Order #...:**	EGHGD1AA	**Matrix.....:**	WATER
Date Sampled...:	07/17/01 12:21	**Date Received..:**	07/17/01 17:15	**MS Run #.....:**	1200115
Prep Date.....:	07/19/01	**Analysis Date..:**	07/19/01		
Prep Batch #...:	1200253	**Analysis Time..:**	05:50		
Dilution Factor:	1				
Analyst ID.....:	004648	**Instrument ID..:**	MSH		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	**6.5 J** J	**10**	**ug/L**	**3.0**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND R	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	**1.4**	**1.0**	**ug/L**	**0.30**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.70
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	**0.82 J**	**1.0**	**ug/L**	**0.80**

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9-25-01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_13_07172001_0004

GC/MS Volatiles

Lot-Sample #...: E1G170296-006 Work Order #...: EGHGD1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND R	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND R	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND R	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND R	5.0	ug/L	2.0
Tetrahydrofuran	ND R	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 120)
1,2-Dichloroethane-d4	95	(65 - 130)
Toluene-d8	102	(80 - 130)

NOTE(S):

Estimated result. Result is less than RL.

A 9-25-01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_5_07172001_1005

GC/MS Volatiles

Lot-Sample #...:	E1G170296-007	**Work Order #...:**	EGHGE2AA	**Matrix.....:**	WATER
Date Sampled...:	07/17/01 13:19	**Date Received..:**	07/17/01 17:15	**MS Run #.....:**	1201175
Prep Date.....:	07/20/01	**Analysis Date..:**	07/20/01		
Prep Batch #...:	1201324	**Analysis Time..:**	06:20		
Dilution Factor:	10				
Analyst ID.....:	004648	**Instrument ID..:**	MSH		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/L	4.0
Chloromethane	ND	20	ug/L	3.0
Vinyl chloride	ND	5.0	ug/L	3.0
Chloroethane	ND	20	ug/L	3.0
Bromomethane	ND	20	ug/L	10
Trichlorofluoromethane	ND	20	ug/L	3.0
1,1,2-Trichlorotrifluoro-ethane	ND	10	ug/L	4.0
Methylene chloride	ND	10	ug/L	3.0
Methyl tert-butyl ether	ND	10	ug/L	5.0
Carbon disulfide	ND	10	ug/L	3.0
Acetone	ND R	100	ug/L	30
trans-1,2-Dichloroethene	ND	10	ug/L	3.0
1,1-Dichloroethane	**5.8 J**	**10**	**ug/L**	**2.0**
2,2-Dichloropropane	ND	10	ug/L	3.0
cis-1,2-Dichloroethene	**7.0 J**	**10**	**ug/L**	**3.0**
Chloroform	**19**	**10**	**ug/L**	**3.0**
Bromochloromethane	ND	10	ug/L	3.0
1,1,1-Trichloroethane	ND	10	ug/L	2.0
2-Butanone	ND R	50	ug/L	30
1,1-Dichloropropene	ND	10	ug/L	3.0
Carbon tetrachloride	ND	5.0	ug/L	3.0
1,2-Dibromoethane	ND	10	ug/L	3.0
Benzene	ND	10	ug/L	3.0
Trichloroethene	**3500 E** J	**10**	**ug/L**	**3.0**
Bromodichloromethane	ND	10	ug/L	3.0
4-Methyl-2-pentanone	ND	50	ug/L	30
Toluene	**20**	**10**	**ug/L**	**3.0**
1,1,2-Trichloroethane	**13**	**10**	**ug/L**	**3.0**
1,2-Dichloroethane	**11**	**5.0**	**ug/L**	**4.0**
Tetrachloroethene	ND	10	ug/L	7.0
2-Hexanone	ND	50	ug/L	30
Dibromochloromethane	ND	10	ug/L	4.0
Chlorobenzene	ND	10	ug/L	3.0
1,1,1,2-Tetrachloroethane	ND	10	ug/L	3.0
Ethylbenzene	ND	10	ug/L	2.0
Xylenes (total)	ND	10	ug/L	8.0

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9-25-01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_5_07172001_1005

GC/MS Volatiles

Lot-Sample #...: E1G170296-007 Work Order #...: EGHGE2AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	10	ug/L	3.0
Bromoform	ND	10	ug/L	3.0
Isopropylbenzene	ND	10	ug/L	3.0
1,1,2,2-Tetrachloroethane	ND	10	ug/L	4.0
1,2,3-Trichloropropane	ND	10	ug/L	4.0
n-Propylbenzene	ND	10	ug/L	4.0
Bromobenzene	ND	10	ug/L	3.0
1,3,5-Trimethylbenzene	ND	10	ug/L	2.0
2-Chlorotoluene	ND	10	ug/L	3.0
4-Chlorotoluene	ND	10	ug/L	3.0
tert-Butylbenzene	ND	10	ug/L	2.0
1,2,4-Trimethylbenzene	ND	10	ug/L	3.0
sec-Butylbenzene	ND	10	ug/L	3.0
p-Isopropyltoluene	ND	10	ug/L	3.0
1,3-Dichlorobenzene	ND	10	ug/L	3.0
1,4-Dichlorobenzene	ND	10	ug/L	3.0
n-Butylbenzene	ND	10	ug/L	3.0
1,2-Dichlorobenzene	ND	10	ug/L	3.0
1,2-Dibromo-3-chloro-propane	ND	20	ug/L	7.0
1,2,4-Trichloro-benzene	ND	10	ug/L	3.0
Hexachlorobutadiene	ND	10	ug/L	3.0
1,2,3-Trichlorobenzene	ND	10	ug/L	4.0
Acrolein	ND R	200	ug/L	120
Tert-amyl methyl ether	ND	20	ug/L	5.0
Acrylonitrile	ND R	200	ug/L	100
Tert-butyl ethyl ether	ND	20	ug/L	5.0
t-Butanol	ND R	250	ug/L	60
Iodomethane	ND	20	ug/L	10
Isopropyl ether	ND	20	ug/L	5.0
2-Chloroethyl vinyl ether	ND R	50	ug/L	20
Tetrahydrofuran	ND R	100	ug/L	20
Vinyl acetate	ND	50	ug/L	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 120)
1,2-Dichloroethane-d4	100	(65 - 130)
Toluene-d8	104	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

9-25-01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_5_07172001_1005

GC/MS Volatiles

Lot-Sample #...: E1G170296-007 **Work Order #...:** EGHGE1AA **Matrix.....:** WATER
Date Sampled...: 07/17/01 13:19 **Date Received..:** 07/17/01 17:15 **MS Run #.....:** 1200115
Prep Date.....: 07/19/01 **Analysis Date..:** 07/19/01
Prep Batch #...: 1200253 **Analysis Time..:** 08:50
Dilution Factor: 50
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	50	ug/L	20
Chloromethane	ND	100	ug/L	15
Vinyl chloride	ND	25	ug/L	15
Chloroethane	ND	100	ug/L	15
Bromomethane	ND	100	ug/L	50
Trichlorofluoromethane	ND	100	ug/L	15
1,1,2-Trichlorotrifluoro-ethane	ND	50	ug/L	20
Methylene chloride	ND	50	ug/L	15
Methyl tert-butyl ether	ND	50	ug/L	25
Carbon disulfide	ND	50	ug/L	15
Acetone	ND R	500	ug/L	150
trans-1,2-Dichloroethene	ND	50	ug/L	15
1,1-Dichloroethane	ND	50	ug/L	10
2,2-Dichloropropane	ND	50	ug/L	15
cis-1,2-Dichloroethene	ND	50	ug/L	15
Chloroform	**18 J**	**50**	**ug/L**	**15**
Bromochloromethane	ND	50	ug/L	15
1,1,1-Trichloroethane	ND	50	ug/L	10
2-Butanone	ND R	250	ug/L	150
1,1-Dichloropropene	ND	50	ug/L	15
Carbon tetrachloride	ND	25	ug/L	15
1,2-Dibromoethane	ND	50	ug/L	15
Benzene	ND	50	ug/L	15
Trichloroethene	**4700**	**50**	**ug/L**	**15**
Bromodichloromethane	ND	50	ug/L	15
4-Methyl-2-pentanone	ND	250	ug/L	150
Toluene	**24 J**	**50**	**ug/L**	**15**
1,1,2-Trichloroethane	ND	50	ug/L	15
1,2-Dichloroethane	ND	25	ug/L	20
Tetrachloroethene	ND	50	ug/L	35
2-Hexanone	ND	250	ug/L	150
Dibromochloromethane	ND	50	ug/L	20
Chlorobenzene	ND	50	ug/L	15
1,1,1,2-Tetrachloroethane	ND	50	ug/L	15
Ethylbenzene	ND	50	ug/L	10
Xylenes (total)	ND	50	ug/L	40

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Ar 1-25-01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_5_07172001_1005

GC/MS Volatiles

Lot-Sample #...: E1G170296-007 Work Order #...: EGHGE1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
tyrene	ND	50	ug/L	15
romoform	ND	50	ug/L	15
Isopropylbenzene	ND	50	ug/L	15
,1,2,2-Tetrachloroethane	ND	50	ug/L	20
,2,3-Trichloropropane	ND	50	ug/L	20
n-Propylbenzene	ND	50	ug/L	20
Bromobenzene	ND	50	ug/L	15
,3,5-Trimethylbenzene	ND	50	ug/L	10
2-Chlorotoluene	ND	50	ug/L	15
4-Chlorotoluene	ND	50	ug/L	15
ert-Butylbenzene	ND	50	ug/L	10
,2,4-Trimethylbenzene	ND	50	ug/L	15
sec-Butylbenzene	ND	50	ug/L	15
-Isopropyltoluene	ND	50	ug/L	15
,3-Dichlorobenzene	ND	50	ug/L	15
1,4-Dichlorobenzene	ND	50	ug/L	15
n-Butylbenzene	ND	50	ug/L	15
,2-Dichlorobenzene	ND	50	ug/L	15
,2-Dibromo-3-chloro-propane	ND	100	ug/L	35
,2,4-Trichloro-benzene	ND	50	ug/L	15
Hexachlorobutadiene	ND	50	ug/L	15
1,2,3-Trichlorobenzene	ND	50	ug/L	20
crolein	ND R	1000	ug/L	600
ert-amyl methyl ether	ND	100	ug/L	25
Acrylonitrile	ND R	1000	ug/L	500
ert-butyl ethyl ether	ND	100	ug/L	25
-Butanol	ND R	1200	ug/L	300
Iodomethane	ND	100	ug/L	50
sopropyl ether	ND	100	ug/L	25
-Chloroethyl vinyl ether	ND R	250	ug/L	100
Tetrahydrofuran	ND R	500	ug/L	100
Vinyl acetate	ND	250	ug/L	100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
romofluorobenzene	99	(75 - 120)
,2-Dichloroethane-d4	95	(65 - 130)
Toluene-d8	101	(80 - 130)

OTE(S):

J Estimated result. Result is less than RL.

A 9/25-01

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_4_07172001_1007

GC/MS Volatiles

Lot-Sample #...:	E1G170296-009	**Work Order #...:**	EGHGG2AA	**Matrix.....:**	WATER
Date Sampled...:	07/17/01 14:55	**Date Received..:**	07/17/01 17:15	**MS Run #.....:**	1201285
Prep Date.....:	07/20/01	**Analysis Date..:**	07/20/01		
Prep Batch #...:	1201534	**Analysis Time..:**	19:32		
Dilution Factor:	5				
Analyst ID.....:	015590	**Instrument ID..:**	MSH		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	5.0	ug/L	2.0
Chloromethane	ND	10	ug/L	1.5
Vinyl chloride	ND	2.5	ug/L	1.5
Chloroethane	ND	10	ug/L	1.5
Bromomethane	ND	10	ug/L	5.0
Trichlorofluoromethane	ND	10	ug/L	1.5
1,1,2-Trichlorotrifluoro-ethane	ND	5.0	ug/L	2.0
Methylene chloride	**1.6 J**	**5.0**	**ug/L**	**1.5**
Methyl tert-butyl ether	ND	5.0	ug/L	2.5
Carbon disulfide	ND	5.0	ug/L	1.5
Acetone	ND R	50	ug/L	15
trans-1,2-Dichloroethene	**15**	**5.0**	**ug/L**	**1.5**
1,1-Dichloroethane	**12**	**5.0**	**ug/L**	**1.0**
2,2-Dichloropropane	ND	5.0	ug/L	1.5
cis-1,2-Dichloroethene	**22**	**5.0**	**ug/L**	**1.5**
Chloroform	**12**	**5.0**	**ug/L**	**1.5**
Bromochloromethane	ND	5.0	ug/L	1.5
1,1,1-Trichloroethane	ND	5.0	ug/L	1.0
2-Butanone	ND R	25	ug/L	15
1,1-Dichloropropene	ND	5.0	ug/L	1.5
Carbon tetrachloride	ND	2.5	ug/L	1.5
1,2-Dibromoethane	ND	5.0	ug/L	1.5
Benzene	ND	5.0	ug/L	1.5
Trichloroethene	**1300 E** J	**5.0**	**ug/L**	**1.5**
Bromodichloromethane	ND	5.0	ug/L	1.5
4-Methyl-2-pentanone	ND	25	ug/L	15
Toluene	**4.9 J**	**5.0**	**ug/L**	**1.5**
1,1,2-Trichloroethane	**6.1**	**5.0**	**ug/L**	**1.5**
1,2-Dichloroethane	**7.1**	**2.5**	**ug/L**	**2.0**
Tetrachloroethene	ND	5.0	ug/L	3.5
2-Hexanone	ND	25	ug/L	15
Dibromochloromethane	ND	5.0	ug/L	2.0
Chlorobenzene	ND	5.0	ug/L	1.5
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	1.5
Ethylbenzene	ND	5.0	ug/L	1.0
Xylenes (total)	ND	5.0	ug/L	4.0

(Continued on next page)

A 9-25-01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_4_07172001_1007

GC/MS Volatiles

Lot-Sample #...: E1G170296-009 Work Order #...: EGHGG2AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	5.0	ug/L	1.5
Bromoform	ND	5.0	ug/L	1.5
Isopropylbenzene	ND	5.0	ug/L	1.5
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	2.0
1,2,3-Trichloropropane	ND	5.0	ug/L	2.0
n-Propylbenzene	ND	5.0	ug/L	2.0
Bromobenzene	ND	5.0	ug/L	1.5
1,3,5-Trimethylbenzene	ND	5.0	ug/L	1.0
2-Chlorotoluene	ND	5.0	ug/L	1.5
4-Chlorotoluene	ND	5.0	ug/L	1.5
tert-Butylbenzene	ND	5.0	ug/L	1.0
1,2,4-Trimethylbenzene	ND	5.0	ug/L	1.5
sec-Butylbenzene	ND	5.0	ug/L	1.5
p-Isopropyltoluene	ND	5.0	ug/L	1.5
1,3-Dichlorobenzene	ND	5.0	ug/L	1.5
1,4-Dichlorobenzene	ND	5.0	ug/L	1.5
n-Butylbenzene	ND	5.0	ug/L	1.5
1,2-Dichlorobenzene	ND	5.0	ug/L	1.5
1,2-Dibromo-3-chloro-propane	ND	10	ug/L	3.5
1,2,4-Trichloro-benzene	ND	5.0	ug/L	1.5
Hexachlorobutadiene	ND	5.0	ug/L	1.5
1,2,3-Trichlorobenzene	ND	5.0	ug/L	2.0
Acrolein	ND R	100	ug/L	60
Tert-amyl methyl ether	ND	10	ug/L	2.5
Acrylonitrile	ND R	100	ug/L	50
Tert-butyl ethyl ether	ND	10	ug/L	2.5
t-Butanol	ND R	120	ug/L	30
Iodomethane	ND ~~R~~ UJ MH	10	ug/L	5.0
Isopropyl ether	ND	10	ug/L	2.5
2-Chloroethyl vinyl ether	ND R	25	ug/L	10
Tetrahydrofuran	ND R	50	ug/L	10
Vinyl acetate	ND	25	ug/L	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(75 - 120)
1,2-Dichloroethane-d4	104	(65 - 130)
Toluene-d8	106	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

AL 9-25-07

TAIT ENVIRONMENTAL

Client Sample ID: TMW_4_07172001_1007

GC/MS Volatiles

Lot-Sample #...: E1G170296-009 **Work Order #...:** EGHGG1AA **Matrix.....:** WATER
Date Sampled...: 07/17/01 14:55 **Date Received..:** 07/17/01 17:15 **MS Run #.....:** 1200115
Prep Date.....: 07/19/01 **Analysis Date..:** 07/19/01
Prep Batch #...: 1200253 **Analysis Time..:** 06:50
Dilution Factor: 25
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	25	ug/L	10
Chloromethane	ND	50	ug/L	7.5
Vinyl chloride	ND	12	ug/L	7.5
Chloroethane	ND	50	ug/L	7.5
Bromomethane	ND	50	ug/L	25
Trichlorofluoromethane	ND	50	ug/L	7.5
1,1,2-Trichlorotrifluoro-ethane	ND	25	ug/L	10
Methylene chloride	ND	25	ug/L	7.5
Methyl tert-butyl ether	ND	25	ug/L	12
Carbon disulfide	ND	25	ug/L	7.5
Acetone	ND R	250	ug/L	75
trans-1,2-Dichloroethene	**21 J**	**25**	**ug/L**	**7.5**
1,1-Dichloroethane	**15 J**	**25**	**ug/L**	**5.0**
2,2-Dichloropropane	ND	25	ug/L	7.5
cis-1,2-Dichloroethene	**25**	**25**	**ug/L**	**7.5**
Chloroform	**16 J**	**25**	**ug/L**	**7.5**
Bromochloromethane	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
2-Butanone	ND R	120	ug/L	75
1,1-Dichloropropene	ND	25	ug/L	7.5
Carbon tetrachloride	ND	12	ug/L	7.5
1,2-Dibromoethane	ND	25	ug/L	7.5
Benzene	ND	25	ug/L	7.5
Trichloroethene	**1800**	**25**	**ug/L**	**7.5**
Bromodichloromethane	ND	25	ug/L	7.5
4-Methyl-2-pentanone	ND	120	ug/L	75
Toluene	ND	25	ug/L	7.5
1,1,2-Trichloroethane	ND	25	ug/L	7.5
1,2-Dichloroethane	ND	12	ug/L	10
Tetrachloroethene	ND	25	ug/L	18
2-Hexanone	ND	120	ug/L	75
Dibromochloromethane	ND	25	ug/L	10
Chlorobenzene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
Ethylbenzene	ND	25	ug/L	5.0
Xylenes (total)	ND	25	ug/L	20

(Continued on next page)

A 9-25-01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_4_07172001_1007

GC/MS Volatiles

Lot-Sample #...: E1G170296-009 Work Order #...: EGHGG1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	25	ug/L	7.5
Bromoform	ND	25	ug/L	7.5
Isopropylbenzene	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
1,2,3-Trichloropropane	ND	25	ug/L	10
n-Propylbenzene	ND	25	ug/L	10
Bromobenzene	ND	25	ug/L	7.5
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
1,2,4-Trimethylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
p-Isopropyltoluene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
n-Butylbenzene	ND	25	ug/L	7.5
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	18
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
Hexachlorobutadiene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
Acrolein	ND R	500	ug/L	300
Tert-amyl methyl ether	ND	50	ug/L	12
Acrylonitrile	ND R	500	ug/L	250
Tert-butyl ethyl ether	ND	50	ug/L	12
t-Butanol	ND R	620	ug/L	150
Iodomethane	ND	50	ug/L	25
Isopropyl ether	ND	50	ug/L	12
2-Chloroethyl vinyl ether	ND R	120	ug/L	50
Tetrahydrofuran	ND R	250	ug/L	50
Vinyl acetate	ND	120	ug/L	50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 120)
1,2-Dichloroethane-d4	100	(65 - 130)
Toluene-d8	101	(80 - 130)

NOTE(S):

Estimated result. Result is less than RL.

A 9.25.01

LDC #: 7109A1 **VALIDATION COMPLETENESS WORKSHEET** Date: 9-19-01

SDG #: E1G170296 X Tier 2/3 Page: 1 of 1

Laboratory: Severn Trent Laboratories Reviewer: SC

2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7-17-01
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	SW	
IV.	Continuing calibration	SW	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	none/P
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	SW ~~A~~ SC	Not reviewed for Tier 2 validation.
XII.	Compound quantitation/CRQLs	SW	Not reviewed for Tier 2 validation.
XIII.	Tentitatively identified compounds (TICs)	N	Not reviewed for Tier 2 validation. not reported
XIV.	System performance	A	Not reviewed for Tier 2 validation.
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: ** Indicates sample underwent Tier 3 validation

All H2O's

1 1	TMW-11_07172001_1001**	11 2	120253MB	21		31	
2 1	TMW-12_07172001_1003**	12 3	120534MB	22		32	
3 2	TMW-13_07172001_0004	13		23		33	
4 1	TMW-5_07172001_1005	14		24		34	
5 3	TMW-4_07172001_1007	15		25		35	
6 1	120324MB	16		26		36	
7 1	TMW-11_07172001_1001DL	17	**	27		37	
8 2	TMW-12_07172001_1003DL	18	**	28		38	
9 2	TMW-5_07172001_1005DL	19		29		39	
10 2	TMW-4_07172001_1007DL	20		30		40	

7109A1W.H23

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	Q. 1,2-Dichloropropane**	GG. Xylenes, total	WW. Bromobenzene	MMM. Naphthalene
B. Bromomethane	R. cis-1,3-Dichloropropene	HH. Vinyl acetate	XX. 1,2,3-Trichloropropane	NNN. 1,2,3-Trichlorobenzene
C. Vinyl choride**	S. Trichloroethene	II. 2-Chloroethylvinyl ether	YY. n-Propylbenzene	OOO. 1,3,5-Trichlorobenzene
D. Chloroethane	T. Dibromochloromethane	JJ. Dichlorodifluoromethane	ZZ. 2-Chlorotoluene	PPP. trans-1,2-Dichloroethene
E. Methylene chloride	U. 1,1,2-Trichloroethane	KK. Trichlorofluoromethane	AAA. 1,3,5-Trimethylbenzene	QQQ. cis-1,2-Dichloroethene
F. Acetone	V. Benzene	LL. Methyl-tert-butyl ether	BBB. 4-Chlorotoluene	RRR. m,p-Xylenes
G. Carbon disulfide	W. trans-1,3-Dichloropropene	MM. 1,2-Dibromo-3-chloropropane	CCC. tert-Butylbenzene	SSS. o-Xylene
H. 1,1-Dichloroethene**	X. Bromoform*	NN. Diethyl ether	DDD. 1,2,4-Trimethylbenzene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane
I. 1,1-Dichloroethane*	Y. 4-Methyl-2-pentanone	OO. 2,2-Dichloropropane	EEE. sec-Butylbenzene	UUU. Benzyl chloride
J. 1,2-Dichloroethene, total	Z. 2-Hexanone	PP. Bromochloromethane	FFF. 1,3-Dichlorobenzene	VVV. 4-Ethyltoluene
K. Chloroform**	AA. Tetrachloroethene	QQ. 1,1-Dichloropropene	GGG. p-Isopropyltoluene	WWW. Ethanol
L. 1,2-Dichloroethane	BB. 1,1,2,2-Tetrachloroethane*	RR. Dibromomethane	HHH. 1,4-Dichlorobenzene	XXX. Ethyl ether
M. 2-Butanone	CC. Toluene**	SS. 1,3-Dichloropropane	III. n-Butylbenzene	YYY. tert-Butanol
N. 1,1,1-Trichloroethane	DD. Chlorobenzene*	TT. 1,2-Dibromoethane	JJJ. 1,2-Dichlorobenzene	ZZZ. Acrolein
O. Carbon tetrachloride	EE. Ethylbenzene**	UU. 1,1,1,2-Tetrachloroethane	KKK. 1,2,4-Trichlorobenzene	AAAA. Acrylonitrile
P. Bromodichloromethane	FF. Styrene	VV. Isopropylbenzene	LLL. Hexachlorobutadiene	BBBB. Tetrahydrofuran
				CCCC. Iodomethane

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

Notes:

COMPNDL.1SI

LDC #: 71094A1
SDG #: ETG170296

VALIDATION FINDINGS WORKSHEET
Technical Holding Times

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

All circled dates have exceeded the technical holding times.
(Y) N N/A Were all cooler temperatures within validation criteria?

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Sample ID	Matrix	Preserved	Sampling Date	Extraction date	Analysis date	Total # of Days	Qualifier
1	W	Y	7-17-01	NA	7-20-01		noqual
2	↓	↓	↓	↓	7-19-01		↓
7					7-20-01		
8					7-19-01		

TECHNICAL HOLDING TIME CRITERIA

Water unpreserved: Aromatic within 7 days, non-aromatic within 14 days of sample collection.
Water preserved: Both within 14 days of sample collection.
Soil: Both within 14 days of sample collection.

HT.1SB

DC: 109
SDG #: EIG170: 96

V...DAT... FI...NGS ...ORK...EET

GC/MS Performance Check

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the BFB performance results reviewed and found to be within the EPA Functional Guideline criteria?

Y N N/A Were all samples analyzed within the 12 hour clock criteria?

#	Laboratory ID	12 Hour Clock (Time/date)	Finding	Associated Samples	Qualifications

m/z	ION ABUNDANCE CRITERIA
50	15 - 40.0% of m/z 95
75	30.0 - 60.0% of m/z 95
95	Base peak, 100% relative abundance
96	5.0 - 9.0% of m/z 95
173	Less than 2.0% of m/z 174

m/z	ION ABUNDANCE CRITERIA
174	Greater than 50.0% of m/z 95
175	5.0 - 9.0% of mass 174
176	Greater than 95.0% but <101% of m/z 174
177	5.0 - 9.0% of m/z 176

PERCK.1SB

BOE-C6-0049015

LDC #: 7109A1
SDG #: E1G170: 96

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
Y N N/A Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?
Y N N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation?
Y N N/A Did the initial calibration meet the acceptance criteria?
Y N N/A Were all %RSDs and RRFs within the validation criteria of ≤30 %RSD and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %RSD (Limit: ≤30.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	7-18-01	1CAL	YYY	38.367		All, bek	J/UJ/A
			F		0.01969		J/R/A
			ZZZ		0.00494		
			AAAA		0.02035		
			YYY		0.00622		
			M		0.03725		
			BBBB		0.02415		
			II		0.01587		

INICAL1SB

BOE-C6-0049016

LDC #: 7109A1
SDG #: E16170; 96

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (10 std)	Recalculated RRF (10 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL (H)	7-18-01	Methylene chloride (1st internal standard)	0.28994	0.28994	0.31274	0.31274	5.118	5.118
			~~Trichlorethene~~ (2nd internal standard) DC	1.55982	1.55982	1.66918	1.66918	4.466	4.466
			~~Toluene~~ (3rd internal standard) BB	0.70609	0.70609	0.75745	0.75745	5.313	5.312
2			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						
3			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						
4			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

INICLC.1SB

LDC #: 7109A1
SDG #: E1G170216

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y N N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤25.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	7-18-01	HS2720	F	0.01945		3, 8-10	J/R/A
			ZZZ	0.00458		1200253MB	
			AAAA	0.02042			
			YYY	0.00659			
			M	0.03540			
			BBBB	0.02677			
			II	0.01541			
	7-19-01	HS2725	F		0.01664	1, 2, 4, 7	
			ZZZ		0.00417	1201324MB	
			AAAA		0.01690		
			YYY		0.00494		
			M		0.03057		
			BBBB		0.02087		
			II		0.01334		
	7-20-01	HS2725	CCCC	25.2		5, 1201534MB	J/UJ/A
			F		0.01881		J/R/A
			ZZZ		0.00501		
			AAAA		0.01913		
			YYY		0.00636		
			M		0.03246		
			BBBB		0.02466		
			II		0.01454		

CONCAL.1SB

BOE-C6-0049018

LDC #: 7109A1
SDG #: E1G170296

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer:
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
RRF = $(A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	HS2720	7-18-01	Methylene chloride (1st internal standard)	0.31274	0.30123	0.30123	3.7	3.7
			~~Trichlorethene~~ (2nd internal standard) CC	1.66918	1.69339	1.69339	1.5	1.4
			~~Toluene~~ (3rd internal standard) BB	0.75745	0.72349	0.72349	4.5	4.5
2	HS2725	7-19-01	Methylene chloride (1st internal standard)	0.31274	0.27355	0.27355	12.5	12.5
			~~Trichlorethene~~ (2nd internal standard) CC	1.66918	1.54759	1.54758	7.3	7.3
			~~Toluene~~ (3rd internal standard) BB	0.75745	0.65906	0.65906	13.0	13.0
3			Methylene chloride (1st internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					
4			Methylene chloride (1st internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CONCLC.1SB

LDC #: 71091

SDG #: E1C17296

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 6 of 1

Reviewer:

2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?

Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?

Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date:

Conc. units: Associated Samples:

Compound	Blank ID	Sample Identification								
Methylene chloride										
Acetone										
CRQL										

Blank analysis date:

Conc. units: Associated Samples:

Compound	Blank ID	Sample Identification								
Methylene chloride										
Acetone										
CRQL										

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

BLANKS2.1SB

BOE-C6-0049020

LDC #: 7109A
SDG #: E1G170296

VALIDATION FINDINGS WORKSHEET
Surrogate Spikes

Page: 1 of 1
Reviewer: [signature]
2nd Reviewer: [signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were all surrogate %R within QC limits?

Y N (N/A) If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R out of outside of criteria?

#	Date	Sample ID	Surrogate	%Recovery (Limits)	Qualifications
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	QC Limits (Soil)	QC Limits (Water)
SMC1 (TOL) = Toluene-d8	81-117	88-110
SMC2 (BFB) = Bromofluorobenzene	74-121	86-115
SMC3 (DCE) = 1,2-Dichloroethane-d4	80-120	80-120
SMC4 (DFM) = Dibromofluoromethane	80-120	86-118

SUR.1SB

LDC #: 7109A1
SDG #: E1G170296

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer:
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8	10	11.10	111	111	0
Bromofluorobenzene	↓	10.66	107	107	↓
1,2-Dichloroethane-d4	↓	10.17	102	102	↓
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

SURRCALC.1SB

LDC [illegible]
SDG #: E1G170 96

IDA[illegible]N F[illegible]ING [illegible]VOR[illegible]HEE[illegible]
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD : GC/MS [illegible]OA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / (Water)

Y (N) N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N (N/A) Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
H.	1,1-[illegible]ichloroethene	59-172%	≤ 22%	61-145%	≤ 14%
S.	Trich[illegible]oroethene	62-137%	≤ 24%	71-120%	≤ 14%
V.	Benz[illegible]ene	66-142%	≤ 21%	76-127%	≤ 11%
CC.	Tolu[illegible]ne	59-139%	≤ 21%	76-125%	≤ 13%
DD.	Chlo[illegible]obenzene	60-133%	≤ 21%	75-130%	≤ 13%

MSD.1SB

LDC #: 71094

SDG #: E1617 296

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer:

2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA

Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentration

RPD = | MSC - MSDC | 2/(MSC + MSDC)

MSC = Matrix spike percent recovery; MSDC = Matrix spike duplicate percent recovery

MS/MSD sample: NA

Compound	Spike Added ( )		Sample Concentration ( )	Spiked Sample Concentration ( )		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene											
Trichloroethene											
Benzene											
Toluene											
Chlorobenzene											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

MSDCLC.1SB

DC #: 7109 V DAT FI NG DRI EE

SDG #: E1G170296

Laboratory Control Samples (LCS)

Page: (of)

Reviewer:

2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a LCS required?

Y N N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LCSLCSD.1SB

LDC #: 11647A1
SDG #: E1G170296

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer:
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration; SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: 120324LCS

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	10	NA	10.3	NA	103	103				
Trichloroethene	↓		8.80		88	88				
Benzene			8.74		87	87				
Toluene			8.72		87	87				
Chlorobenzene			8.58		86	86				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LCSCLC.1SB

LDC #: 11074

SDG #: EIG170.96

VALIDATION FINDINGS WORKSHEET
Internal Standards

Reviewer: [signature]

2nd Reviewer: [signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A — Were all internal standard area counts within -50 to +100% of the associated calibration standard?

(Y) N N/A — Were the retention times of the internal standards within +/- 30 seconds of the retention times of the associated calibration standard?

#	Date	Sample ID	Internal Standard	Area (Limits)	RT (Limits)	Qualifications

(BCM) = Bromochloromethane
(DFB) = 1,4-Difluorobenzene
(CBZ) = Chlorobenzene-d5
(PFB) = Pentafluorobenzene
(4DCB) = 1,4-Dichlorobenzene-d4
(2DCB) = 1,2-Dichlorobenzene-d4
(FBZ) = Fluorobenzene

INTST.1SB

LDC #: 7109A1
SDG #: E1G170296

VALIDATION FINDINGS WORKSHEET
Target Compound Identification

Reviewer:
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?
Y N N/A Did compound spectra meet specified EPA "Functional Guidelines" criteria?
Y N N/A Were chromatogram peaks verified and accounted for?

#	Date	Sample ID	Finding	Associated Samples	Qualifications
		8	BBBP spectra doesn't match		R/A

Comments:

TCI.1SB

DC # 709

SDG #: E1G170296

V DAT FI NGS ORI IEE

Compound Quantitation and CRQLs

Page: 1 of

Reviewer:

2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?

Y N N/A Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?

#	Date	Sample ID	Finding	Associated Samples	Qualifications
		1, 2	K exceeded calib	range	J det /A
		4, 5	S		
		~~K 8~~	~~BBBB, spectra doesn't match~~		~~R A~~

Comments: See sample calculation verification worksheet for recalculations

COMQUA.1SB

BOE-C6-0049029

LDC #: 7109A1
SDG #: E1G170296

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Compound results for 1, 2, 7, 8 reported with a positive detect were recalculated and verified using the following equation:

$$\text{Concentration} = \frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. 1 . S

Conc. = (231619)(10)(2) / (100776)(0.40678)( )( )

= 11 ug/L

#	Sample ID	Compound	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Acceptable (Y/N)
	7	K	430	430	Y
		S	12	12	
		CC	5.2	5.2	
	1	E	0.75	0.75	
		K	390	390	
		O	2.0	2.0	
		S	11	11	
		CC	4.9	4.9	
		AA	2.5	2.5	
		NNN	0.83	0.83	
	8	K	1400	1400	
		S	210	210	
		CC	7.6	7.6	
		THF	120	~~sc 120~~ ND	N
	2	L	[illegible]	[illegible]	Y
		O	2.9	2.9	
		S	170	170	
		CC	6.7	6.7	
		AA	12	12	

RECALC.1SB

DC 710
SDG #: EIG170296

Tentatively Identified Compounds

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC/MS \ OA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?
Y N N/A Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?
Y N N/A Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?

#	Date	Sample ID	Finding	Associated Samples	Qualifications

Comments:

TIC.1SB

BOE-C6-0049031

LDC #: 7109A1
SDG #: E1G17E296

VALIDATION FINDINGS WORKSHEET
System Performance

Reviewer:
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
Y N N/A Was the system performance acceptable?

Professional judgement was applied to assess system performance as there are no specific criteria for system performance evaluation.

#	Date	Lab ID/Reference	Finding	Associated Samples	Qualifications

Comments:

SYSP.1SB

LDC #: 71081
SDG #: E16170-96

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

Y N N/A Was the overall quality and usability of the data acceptable?

#	Date	Sample ID	Finding	Associated Samples	Qualifications

Comments:

OVR.1SB

BOE-C6-0049033

LDC #: 7109A1
SDG #: EIG170296

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer:
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y (N) N/A Were field duplicate pairs identified in this SDG?
Y N (N/A) Were target compounds detected in the field duplicate pairs?

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

FLDUP4.1SB

LDC #: 7109A1
SDG #: E1G170296

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer:
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y (N) N/A Were field blanks identified in this SDG?
Y N (N/A) Were target compounds detected in the field blanks?

Sample: _____ Field Blank / Trip Blank / Rinsate / Other _____ (circle one)

Compound	Concentration Units ( )

Sample: _____ Field Blank / Trip Blank / Rinsate / Other _____ (circle one)

Compound	Concentration Units ( )

Sample: _____ Field Blank / Trip Blank / Rinsate / Other _____ (circle one)

Compound	Concentration Units ( )

FLDBLK.1SB

Revision #1

LDC Report# 7109B1

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Boeing C-6 Site

Collection Date: July 18, 2001

LDC Report Date: October 2, 2001

Matrix: Water

Parameters: Volatiles

Validation Level: Tier 2 & Tier 3

Laboratory: Severn Trent Laboratories

Sample Delivery Group (SDG): E1G180304

Sample Identification

TMW-10_07182001_1008**
TMW-2_07182001_1011
TMW-2_07182001_1013
TMW-2_07182001_1001
TMW-2_07182001_1011DL
TMW-10_07182001_1008MS
TMW-10_07182001_1008MSD

**Indicates sample underwent Tier 3 review

Introduction

This data review covers 7 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Samples indicated by a double asterisk on the front cover underwent a Tier 3 review. A Tier 2 review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Tier 2 criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance check data were reviewed for Tier 2/Tier 3 .

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs) .

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

Date	Compound	%RSD	Associated Samples	Flag	A or P
7/18/01	tert-Butanol	38.387	All samples in SDG E1G180304	J (all detects) UJ (all non-detects)	A

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
7/18/01	Acetone Acrolein Acrylonitrile tert-Butanol 2-Butanone Tetrahydrofuran 2-Chloroethylvinyl ether	0.01969 (≥0.05) 0.00494 (≥0.05) 0.02035 (≥0.05) 0.00622 (≥0.05) 0.03725 (≥0.05) 0.02415 (≥0.05) 0.01587 (≥0.05)	All samples in SDG E1G180304	J (all detects) R (all non-detects)	A

*indicates change as the result of report review. SDG E1G180304-3

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
7/23/01	Vinyl chloride	20.3	TMW-2_07182001_1011 1204471MB	J (all detects) UJ (all non-detects)	P

For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
7/23/01	Dichlorodifluoromethane Trichlorofluoromethane 1,2-Dichloroethane	39.2 27.8 26.6	TMW-2_07182001_1011 1204471MB	J (all detects) UJ (all non-detects)	P

All of the continuing calibration RRF values were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
7/20/01	Acetone Acrolein Acrylonitrile tert-Butanol 2-Butanone Tetrahydrofuran 2-Chloroethylvinyl ether	0.01755 (≥0.05) 0.00442 (≥0.05) 0.01845 (≥0.05) 0.00527 (≥0.05) 0.03175 (≥0.05) 0.02198 (≥0.05) 0.01407 (≥0.05)	TMW-10_07182001_1008** TMW-2_07182001_1013 TMW-2_07182001_1001 TMW-2_07182001_1011DL TMW-10_07182001_1008MS TMW-10_07182001_1008MSD 1202140MB	J (all detects) R (all non-detects)	A
7/23/01	Acetone Acrolein Acrylonitrile tert-Butanol 2-Butanone Tetrahydrofuran 2-Chloroethylvinyl ether	0.01757 (≥0.05) 0.00528 (≥0.05) 0.01800 (≥0.05) 0.00561 (≥0.05) 0.03173 (≥0.05) 0.02381 (≥0.05) 0.01334 (≥0.05)	TMW-2_07182001_1011 1204471MB	J (all detects) R (all non-detects)	A

*Indicates change as the result of report review. SDG E1G1803044

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria for samples on which a Tier 3 review was performed. Raw data were not evaluated for the samples reviewed by Tier 2 criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a Tier 3 review was performed with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
TMW-2_07182001_1D11	2-Butanone Trichloroethene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects)	A

Raw data were not evaluated for the samples reviewed by Tier 2 criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria for samples on which a Tier 3 review was performed. Raw data were not evaluated for the samples reviewed by Tier 2 criteria.

XV. Overall Assessment of Data

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

*XVII. Field Blanks

Sample TMW-10_07182001_0004 was identified as a field blank. No volatile contaminants were found in this blank with the following exceptions:

Field Blank ID	Compound	Concentration (ug/L)
TMW-10_07182001_0004	Toluene Xylenes, total	1.4 0.96

*Indicates change as the result of report review. SDG E1G180306

Sample TMW-14_07182001_0002 was identified as a rinsate blank. No volatile contaminants were found in this blank with the following exceptions:

Rinsate Blank ID	Compound	Concentration (ug/L)
TMW-14_07182001_0002	Toluene	1.4

*Indicates change as the result of report review. SDG E1G180304

?109B1.R34

Boeing C-6 Site
Volatiles - Data Qualification Summary - SDG E1G180304

SDG	Sample	Compound	Flag	A or P	Reason
E1G180304	TMW-10_07182001_1008** TMW-2_07182001_1011 TMW-2_07182001_1013 TMW-2_07182001_1001 TMW-2_07182001_1011DL	tert-Butanol	J (all detects) UJ (all non-detects)	A	Initial calibration (%RSD)
E1G180304	TMW-10_07182001_1008** TMW-2_07182001_1011 TMW-2_07182001_1013 TMW-2_07182001_1001 TMW-2_07182001_1011DL	Acetone Acrolein Acrylonitrile tert-Butanol 2-Butanone Tetrahydrofuran 2-Chloroethylvinyl ether	J (all detects) R (all non-detects)	A	Initial calibration (RRF)
E1G180304	TMW-2_07182001_1011	Toluene Dichlorodifluoromethane Trichlorofluoromethane 1,2-Dichloroethane	J (all detects) UJ (all non-detects)	P	Continuing calibration (%D)
E1G180304	TMW-10_07182001_1008** TMW-2_07182001_1013 TMW-2_07182001_1001 TMW-2_07182001_1011DL TMW-2_07182001_1011	Acetone Acrolein Acrylonitrile tert-Butanol 2-Butanone Tetrahydrofuran 2-Chloroethylvinyl ether	J (all detects) R (all non-detects)	A	Continuing calibration (RRF)
E1G180304	TMW-2_07182001_1011	2-Butanone Trichloroethene	J (all detects) J (all detects)	A	Compound quantitation and CRQLs

Boeing C-6 Site
Volatiles - Laboratory Blank Data Qualification Summary - SDG E1G180304

No Sample Data Qualified in this SDG

*Indicates change as the result of report review. SDG E1G180304

1/109B

TAIT ENVIRONMENTAL

Client Sample ID: TMW_10_07182001_1008

GC/MS Volatiles

Lot-Sample #...:	E1G180304-001	Work Order #...:	EGKJW1AA	Matrix.....:	WATER
Date Sampled...:	07/18/01 10:25	Date Received..:	07/18/01 17:30	MS Run #.....:	1202036
Prep Date.....:	07/20/01	Analysis Date..:	07/20/01		
Prep Batch #...:	1202140	Analysis Time..:	22:52		
Dilution Factor:	1				
Analyst ID.....:	004648	Instrument ID..:	MSH		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	**1.4**	**1.0**	**ug/L**	**0.40**
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	**1.1 J**	**2.0**	**ug/L**	**0.30**
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	**0.96 J**	**1.0**	**ug/L**	**0.30**
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND R	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	**2.3**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND R	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**3.6**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	**0.83 J**	**1.0**	**ug/L**	**0.70**
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

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A 9.25.01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_10_07182001_1008

GC/MS Volatiles

Lot-Sample #...: E1G180304-001 Work Order #...: EGKJW1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND R	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND R	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND R	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND R	5.0	ug/L	2.0
Tetrahydrofuran	ND R	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 120)
1,2-Dichloroethane-d4	102	(65 - 130)
Toluene-d8	107	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Ar 4-25-01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_2_07182001_1011

GC/MS Volatiles

Lot-Sample #...:	E1G180304-005	**Work Order #...:**	EGKJ81AA	**Matrix.....:**	WATER
Date Sampled...:	07/18/01 12:50	**Date Received..:**	07/18/01 17:30	**MS Run #.....:**	1202036
Prep Date.....:	07/21/01	**Analysis Date..:**	07/21/01		
Prep Batch #...:	1202140	**Analysis Time..:**	01:51		
Dilution Factor:	500				
Analyst ID.....:	004648	**Instrument ID..:**	MSH		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND UJ	500	ug/L	200
Chloromethane	ND	1000	ug/L	150
Vinyl chloride	ND	250	ug/L	150
Chloroethane	ND	1000	ug/L	150
Bromomethane	ND	1000	ug/L	500
Trichlorofluoromethane	ND UJ	1000	ug/L	150
1,1,2-Trichlorotrifluoro-ethane	ND	500	ug/L	200
Methylene chloride	ND	500	ug/L	150
Methyl tert-butyl ether	ND	500	ug/L	250
Carbon disulfide	ND	500	ug/L	150
Acetone	ND R	5000	ug/L	1500
trans-1,2-Dichloroethene	**680**	**500**	**ug/L**	**150**
1,1-Dichloroethane	**1400**	**500**	**ug/L**	**100**
2,2-Dichloropropane	ND	500	ug/L	150
cis-1,2-Dichloroethene	**4300**	**500**	**ug/L**	**150**
Chloroform	**170 J**	**500**	**ug/L**	**150**
Bromochloromethane	ND	500	ug/L	150
1,1,1-Trichloroethane	**1200**	**500**	**ug/L**	**100**
2-Butanone	**75000** J	**2500**	**ug/L**	**1500**
1,1-Dichloropropene	ND	500	ug/L	150
Carbon tetrachloride	ND	250	ug/L	150
1,2-Dibromoethane	ND UJ	500	ug/L	150
Benzene	ND	500	ug/L	150
Trichloroethene	**20000**	**500**	**ug/L**	**150**
Bromodichloromethane	ND	500	ug/L	150
4-Methyl-2-pentanone	ND	2500	ug/L	1500
Toluene	**2900**	**500**	**ug/L**	**150**
1,1,2-Trichloroethane	ND	500	ug/L	150
1,2-Dichloroethane	ND	250	ug/L	200
Tetrachloroethene	ND	500	ug/L	350
2-Hexanone	ND	2500	ug/L	1500
Dibromochloromethane	ND	500	ug/L	200
Chlorobenzene	ND	500	ug/L	150
1,1,1,2-Tetrachloroethane	ND	500	ug/L	150
Ethylbenzene	ND	500	ug/L	100
Xylenes (total)	**ND**	**500**	**ug/L**	**400**

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_2_07182001_1011

GC/MS Volatiles

Lot-Sample #...: E1G180304-005 Work Order #...: EGKJ81AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	500	ug/L	150
Bromoform	ND	500	ug/L	150
Isopropylbenzene	ND	500	ug/L	150
1,1,2,2-Tetrachloroethane	ND	500	ug/L	200
1,2,3-Trichloropropane	ND	500	ug/L	200
n-Propylbenzene	ND	500	ug/L	200
Bromobenzene	ND	500	ug/L	150
1,3,5-Trimethylbenzene	ND	500	ug/L	100
2-Chlorotoluene	ND	500	ug/L	150
4-Chlorotoluene	ND	500	ug/L	150
tert-Butylbenzene	ND	500	ug/L	100
1,2,4-Trimethylbenzene	ND	500	ug/L	150
sec-Butylbenzene	ND	500	ug/L	150
p-Isopropyltoluene	ND	500	ug/L	150
1,3-Dichlorobenzene	ND	500	ug/L	150
1,4-Dichlorobenzene	ND	500	ug/L	150
n-Butylbenzene	ND	500	ug/L	150
1,2-Dichlorobenzene	ND	500	ug/L	150
1,2-Dibromo-3-chloro-propane	ND	1000	ug/L	350
1,2,4-Trichloro-benzene	ND	500	ug/L	150
Hexachlorobutadiene	ND	500	ug/L	150
1,2,3-Trichlorobenzene	ND	500	ug/L	200
Acrolein	ND R	10000	ug/L	6000
Tert-amyl methyl ether	ND	1000	ug/L	250
Acrylonitrile	ND R	10000	ug/L	5000
Tert-butyl ethyl ether	ND	1000	ug/L	250
t-Butanol	ND R	12000	ug/L	3000
Iodomethane	ND	1000	ug/L	500
Isopropyl ether	ND	1000	ug/L	250
2-Chloroethyl vinyl ether	ND R	2500	ug/L	1000
Tetrahydrofuran	ND R	5000	ug/L	1000
Vinyl acetate	ND	2500	ug/L	1000

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 120)
1,2-Dichloroethane-d4	100	(65 - 130)
Toluene-d8	106	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

6/25/01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_2_07182001_1011

GC/MS Volatiles

Lot-Sample #...:	E1G180304-005	**Work Order #...:**	EGKJ82AA	**Matrix.....:**	WATER
Date Sampled...:	07/18/01 12:50	**Date Received..:**	07/18/01 17:30	**MS Run #.....:**	1204247
Prep Date.....:	07/23/01	**Analysis Date..:**	07/23/01		
Prep Batch #...:	1204471	**Analysis Time..:**	17:47		
Dilution Factor:	100				
Analyst ID.....:	015590	**Instrument ID..:**	MSH		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND UJ	100	ug/L	40
Chloromethane	ND	200	ug/L	30
Vinyl chloride	ND	50	ug/L	30
Chloroethane	ND	200	ug/L	30
Bromomethane	ND	200	ug/L	100
Trichlorofluoromethane	ND UJ	200	ug/L	30
1,1,2-Trichlorotrifluoro-ethane	ND	100	ug/L	40
Methylene chloride	**34 J**	**100**	**ug/L**	**30**
Methyl tert-butyl ether	ND	100	ug/L	50
Carbon disulfide	ND	100	ug/L	30
Acetone	ND R	1000	ug/L	300
trans-1,2-Dichloroethene	**590**	**100**	**ug/L**	**30**
1,1-Dichloroethane	**1400**	**100**	**ug/L**	**20**
2,2-Dichloropropane	ND	100	ug/L	30
cis-1,2-Dichloroethene	**4300**	**100**	**ug/L**	**30**
Chloroform	**170**	**100**	**ug/L**	**30**
Bromochloromethane	ND	100	ug/L	30
1,1,1-Trichloroethane	**1100**	**100**	**ug/L**	**20**
2-Butanone	**82000 E J**	**500**	**ug/L**	**300**
1,1-Dichloropropene	ND	100	ug/L	30
Carbon tetrachloride	ND	50	ug/L	30
1,2-Dibromoethane	ND	100	ug/L	30
Benzene	**56 J**	**100**	**ug/L**	**30**
Trichloroethene	**19000 E J**	**100**	**ug/L**	**30**
Bromodichloromethane	ND	100	ug/L	30
4-Methyl-2-pentanone	**760**	**500**	**ug/L**	**300**
Toluene	**2800 J**	**100**	**ug/L**	**30**
1,1,2-Trichloroethane	**53 J**	**100**	**ug/L**	**30**
1,2-Dichloroethane	**93 J**	**50**	**ug/L**	**40**
Tetrachloroethene	ND	100	ug/L	70
2-Hexanone	ND	500	ug/L	300
Dibromochloromethane	ND	100	ug/L	40
Chlorobenzene	ND	100	ug/L	30
1,1,1,2-Tetrachloroethane	ND	100	ug/L	30
Ethylbenzene	ND	100	ug/L	20
Xylenes (total)	**ND**	**100**	**ug/L**	**80**

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A 9-25-01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_2_07182001_1011

GC/MS Volatiles

Lot-Sample #...: E1G180304-005 Work Order #...: EGKJ82AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	100	ug/L	30
Bromoform	ND	100	ug/L	30
Isopropylbenzene	ND	100	ug/L	30
1,1,2,2-Tetrachloroethane	ND	100	ug/L	40
1,2,3-Trichloropropane	ND	100	ug/L	40
n-Propylbenzene	ND	100	ug/L	40
Bromobenzene	ND	100	ug/L	30
1,3,5-Trimethylbenzene	ND	100	ug/L	20
2-Chlorotoluene	ND	100	ug/L	30
4-Chlorotoluene	ND	100	ug/L	30
tert-Butylbenzene	ND	100	ug/L	20
1,2,4-Trimethylbenzene	ND	100	ug/L	30
sec-Butylbenzene	ND	100	ug/L	30
p-Isopropyltoluene	ND	100	ug/L	30
1,3-Dichlorobenzene	ND	100	ug/L	30
1,4-Dichlorobenzene	ND	100	ug/L	30
n-Butylbenzene	ND	100	ug/L	30
1,2-Dichlorobenzene	ND	100	ug/L	30
1,2-Dibromo-3-chloro-propane	ND	200	ug/L	70
1,2,4-Trichloro-benzene	ND	100	ug/L	30
Hexachlorobutadiene	ND	100	ug/L	30
1,2,3-Trichlorobenzene	ND	100	ug/L	40
Acrolein	ND R	2000	ug/L	1200
Tert-amyl methyl ether	ND	200	ug/L	50
Acrylonitrile	ND R	2000	ug/L	1000
Tert-butyl ethyl ether	ND	200	ug/L	50
t-Butanol	ND R	2500	ug/L	600
Iodomethane	ND	200	ug/L	100
Isopropyl ether	ND	200	ug/L	50
2-Chloroethyl vinyl ether	ND R	500	ug/L	200
Tetrahydrofuran	ND R	1000	ug/L	200
Vinyl acetate	ND	500	ug/L	200

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 120)
1,2-Dichloroethane-d4	93	(65 - 130)
Toluene-d8	98	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

A 9.25.01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_14_07182001_1013

GC/MS Volatiles

Lot-Sample #...:	E1G180304-007	**Work Order #...:**	EGKKA1AA	**Matrix.....:**	WATER
Date Sampled...:	07/18/01 14:50	**Date Received..:**	07/18/01 17:30	**MS Run #.....:**	1202036
Prep Date.....:	07/20/01	**Analysis Date..:**	07/20/01		
Prep Batch #...:	1202140	**Analysis Time..:**	23:52		
Dilution Factor:	1				
Analyst ID.....:	004648	**Instrument ID..:**	MSH		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
Methylene chloride	**1.2**	**1.0**	**ug/L**	**0.30**
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND R	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	**3.5**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND R	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	**1.5**	**0.50**	**ug/L**	**0.30**
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**9.4**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	**15**	**1.0**	**ug/L**	**0.30**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	**0.82 J**	**1.0**	**ug/L**	**0.70**
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

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A 1-25-01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_14_07182001_1013

GC/MS Volatiles

Lot-Sample #...: E1G180304-007 Work Order #...: EGKKA1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND R	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND R	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND R	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND R	5.0	ug/L	2.0
Tetrahydrofuran	ND R	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 120)
1,2-Dichloroethane-d4	98	(65 - 130)
Toluene-d8	102	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

A 1-25-08

TAIT ENVIRONMENTAL

Client Sample ID: TMW_14_07182001_0001

GC/MS Volatiles

Lot-Sample #...:	E1G180304-009	**Work Order #...:**	EGKKD1AA	**Matrix.....:**	WATER
Date Sampled...:	07/18/01	**Date Received..:**	07/18/01 17:30	**MS Run #.....:**	1202036
Prep Date.....:	07/20/01	**Analysis Date..:**	07/20/01		
Prep Batch #...:	1202140	**Analysis Time..:**	22:22		
Dilution Factor:	1				
Analyst ID.....:	004648	**Instrument ID..:**	MSH		
		Method.....:	SW846 8260B		

PARAMETER	RESULT		REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND		1.0	ug/L	0.40
Chloromethane	ND		2.0	ug/L	0.30
Vinyl chloride	ND		0.50	ug/L	0.30
Chloroethane	ND		2.0	ug/L	0.30
Bromomethane	ND		2.0	ug/L	1.0
Trichlorofluoromethane	ND		2.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	ND		1.0	ug/L	0.40
Methylene chloride	ND		1.0	ug/L	0.30
Methyl tert-butyl ether	ND		1.0	ug/L	0.50
Carbon disulfide	ND		1.0	ug/L	0.30
Acetone	ND	R	10	ug/L	3.0
trans-1,2-Dichloroethene	ND		1.0	ug/L	0.30
1,1-Dichloroethane	ND		1.0	ug/L	0.20
2,2-Dichloropropane	ND		1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND		1.0	ug/L	0.30
Chloroform	ND		1.0	ug/L	0.30
Bromochloromethane	ND		1.0	ug/L	0.30
1,1,1-Trichloroethane	ND		1.0	ug/L	0.20
2-Butanone	ND	R	5.0	ug/L	3.0
1,1-Dichloropropene	ND		1.0	ug/L	0.30
Carbon tetrachloride	ND		0.50	ug/L	0.30
1,2-Dibromoethane	ND		1.0	ug/L	0.30
Benzene	ND		1.0	ug/L	0.30
Trichloroethene	ND		1.0	ug/L	0.30
Bromodichloromethane	ND		1.0	ug/L	0.30
4-Methyl-2-pentanone	ND		5.0	ug/L	3.0
Toluene	ND		1.0	ug/L	0.30
1,1,2-Trichloroethane	ND		1.0	ug/L	0.30
1,2-Dichloroethane	ND		0.50	ug/L	0.40
Tetrachloroethene	ND		1.0	ug/L	0.70
2-Hexanone	ND		5.0	ug/L	3.0
Dibromochloromethane	ND		1.0	ug/L	0.40
Chlorobenzene	ND		1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L	0.30
Ethylbenzene	ND		1.0	ug/L	0.20
Xylenes (total)	ND		1.0	ug/L	0.80

(Continued on next page)

AW 9-25-01

TAIT ENVIRONMENTAL

Client Sample ID: TMW_14_07182001_0001

GC/MS Volatiles

Lot-Sample #...: E1G180304-009 Work Order #...: EGKKD1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND R	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND R	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND R	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND R	5.0	ug/L	2.0
Tetrahydrofuran	ND R	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 120)
1,2-Dichloroethane-d4	96	(65 - 130)
Toluene-d8	105	(80 - 130)

5-25-01

LDC #: 7109B1 **VALIDATION COMPLETENESS WORKSHEET**

SDG #: E1G180304 X Tier 2/3

Laboratory: Severn Trent Laboratories

Date: 9-19-01

Page: 1 of 1

Reviewer: [signature]

2nd Reviewer: [signature]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7-18-01
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	SW	
IV.	Continuing calibration	SW	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	Not reviewed for Tier 2 validation.
XII.	Compound quantitation/CRQLs	SW	Not reviewed for Tier 2 validation.
XIII.	Tentitatively identified compounds (TICs)	N	Not reviewed for Tier 2 validation. not reported
XIV.	System performance	A	Not reviewed for Tier 2 validation.
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: ** Indicates sample underwent Tier 3 validation

All H2O's

1 1	TMW-10_07182001_1008**	11		21		31	
2 2	TMW-2_07182001_1011	12		22		32	
3 1	TMW-14_07182001_1013	13		23		33	
4 1	TMW-14_07182001_0001	14		24		34	
5 1	TMW-2-0718200L1011 DL			25		35	
6 1	TMW-10-07182001-1008MS			26		36	
7 1	TMW-10-07182001-1008MSD			27		37	
8 1	1202140MB	18		28		38	
9 2	1204471MB	19		29		39	
10		20		30		40	

7109B1W.H23

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	Q. 1,2-Dichloropropane**	GG. Xylenes, total	WW. Bromobenzene	MMM. Naphthalene
B. Bromomethane	R. cis-1,3-Dichloropropene	HH. Vinyl acetate	XX. 1,2,3-Trichloropropane	NNN. 1,2,3-Trichlorobenzene
C. Vinyl choride**	S. Trichloroethene	II. 2-Chloroethylvinyl ether	YY. n-Propylbenzene	OOO. 1,3,5-Trichlorobenzene
D. Chloroethane	T. Dibromochloromethane	JJ. Dichlorodifluoromethane	ZZ. 2-Chlorotoluene	PPP. trans-1,2-Dichloroethene
E. Methylene chloride	U. 1,1,2-Trichloroethane	KK. Trichlorofluoromethane	AAA. 1,3,5-Trimethylbenzene	QQQ. cis-1,2-Dichloroethene
F. Acetone	V. Benzene	LL. Methyl-tert-butyl ether	BBB. 4-Chlorotoluene	RRR. m,p-Xylenes
G. Carbon disulfide	W. trans-1,3-Dichloropropene	MM. 1,2-Dibromo-3-chloropropane	CCC. tert-Butylbenzene	SSS. o-Xylene
H. 1,1-Dichloroethene**	X. Bromoform*	NN. Diethyl ether	DDD. 1,2,4-Trimethylbenzene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane
I. 1,1-Dichloroethane*	Y. 4-Methyl-2-pentanone	OO. 2,2-Dichloropropane	EEE. sec-Butylbenzene	UUU. Benzyl chloride
J. 1,2-Dichloroethene, total	Z. 2-Hexanone	PP. Bromochloromethane	FFF. 1,3-Dichlorobenzene	VVV. 4-Ethyltoluene
K. Chloroform**	AA. Tetrachloroethene	QQ. 1,1-Dichloropropene	GGG. p-Isopropyltoluene	WWW. Ethanol
L. 1,2-Dichloroethane	BB. 1,1,2,2-Tetrachloroethane*	RR. Dibromomethane	HHH. 1,4-Dichlorobenzene	XXX. Ethyl ether
M. 2-Butanone	CC. Toluene**	SS. 1,3-Dichloropropane	III. n-Butylbenzene	YYY. tert-Butanol
N. 1,1,1-Trichloroethane	DD. Chlorobenzene*	TT. 1,2-Dibromoethane	JJJ. 1,2-Dichlorobenzene	ZZZ. Acrolein
O. Carbon tetrachloride	EE. Ethylbenzene**	UU. 1,1,1,2-Tetrachloroethane	KKK. 1,2,4-Trichlorobenzene	AAAA. Acrylonitrile
P. Bromodichloromethane	FF. Styrene	VV. Isopropylbenzene	LLL. Hexachlorobutadiene	BBBB. Tetrahydrofuran
				CCCC. Iodomethane

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

Notes:

COMPNDL.1S 3

LDC #: 71098I
SDG #: E1G180304

VALIDATION FINDINGS WORKSHEET
Technical Holding Times

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

All circled dates have exceeded the technical holding times.
(Y) N N/A Were all cooler temperatures within validation criteria?

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Sample ID	Matrix	Preserved	Sampling Date	Extraction date	Analysis date	Total # of Days	Qualifier
1	W	Y	7-18-01	NA	7-20-01		no qual

TECHNICAL HOLDING TIME CRITERIA

Water unpreserved:	Aromatic within 7 days, non-aromatic within 14 days of sample collection.
Water preserved:	Both within 14 days of sample collection.
Soil:	Both within 14 days of sample collection.

HT.1SB

PG # 7101 104

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Page: 1 of 1
Reviewer: [signature]
2nd Reviewer: [signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the BFB performance results reviewed and found to be within the EPA Functional Guideline criteria?

Y N N/A Were all samples analyzed within the 12 hour clock criteria?

#	Laboratory ID	12 Hour Clock (Time/date)	Finding	Associated Samples	Qualifications

m/z	ION ABUNDANCE CRITERIA
50	15 - 40.0% of m/z 95
75	30.0 - 60.0% of m/z 95
95	Base peak, 100% relative abundance
96	5.0 - 9.0% of m/z 95
173	Less than 2.0% of m/z 174

m/z	ION ABUNDANCE CRITERIA
174	Greater than 50.0% of m/z 95
175	5.0 - 9.0% of mass 174
176	Greater than 95.0% but <101% of m/z 174
177	5.0 - 9.0% of m/z 176

PERCK.1SB

BOE-C6-0049057

SDG #: E1G180104

Initial Calibration

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
Y N N/A Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?
Y N N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation?_____
Y N N/A Did the initial calibration meet the acceptance criteria?
Y N N/A Were all %RSDs and RRFs within the validation criteria of ≤30 %RSD and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %RSD (Limit: ≤30.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	7-18-01	1CAL	YYY	38.367		All, blk	J/UJ/A
			F		0.01969		J/R/A
			ZZZ		0.00494		
			AAAA		0.02035		
			YYY		0.00622		
			M		0.03725		
			BBBB		0.02415		
			II		0.01587		

INICAL1SB

BOE-C6-0049058

IDC 110[illegible]
SDG #: E1G18C304

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS /OA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (10 std)	Recalculated RRF (10 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	1CAL(H)	7-18-01	Methylene chloride (1st internal standard)	0.28994	0.28994	0.31274	0.31274	5.118	5.118
			~~Trichlorethene~~ (2nd internal standard) Cc	1.55982	1.55982	1.66918	1.66918	4.466	4.466
			~~Toluene~~ (3rd internal standard) BB	0.70609	0.70609	0.75745	0.75745	5.313	5.312
2			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						
3			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						
4			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

INICLC.1SB

SDG #: E1G180304

Continuing Calibration

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y N N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤25.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	7-20-01	HS2726	F		0.01755	1, 3-7	J/R/A
			ZZZ		0.00442	1202140MB	
			AAAA		0.01845		
			YYY		0.00527		
			M		0.03175		
			BBBB		0.02198		
			II		0.01407		
	7-23-01	HS2728	JJ	39.2		2, 1204471MB	J/UJ/P
			C**	20.3 (≤20)			
			KK	27.8			
			L	26.6			
			F		0.01757		J/R/A
			ZZZ		0.00528		
			AAAA		0.01800		
			YYY		0.00561		
			M		0.03173		
			BBBB		0.02381		
			II		0.01334		

CONCAL1SB

BOE-C6-0049060

PC #: 7109 B1
SDG #: EIG180304

V DAT FI NGS DRI EET

Continuing Calibration Results Verification

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
RRF = $(A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	HS2726	7-20-01	Methylene chloride (1st internal standard)	0.31274	0.28624	0.28624	8.5	8.5
			~~Trichlorethene~~ (2nd internal standard) CC	1.66918	1.54785	1.54785	7.3	7.3
			~~Toluene~~ (3rd internal standard) BB	0.75745	0.66390	0.66390	12.4	12.3
2			Methylene chloride (1st internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					
3			Methylene chloride (1st internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					
4			Methylene chloride (1st internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CONCLC.1SB

SDG #: E1C18 304

Blanks

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?

Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?

Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date:_____

Conc. units:_____ Associated Samples:_____

Compound	Blank ID	Sample Identification								
Methylene chloride										
Acetone										
CRQL										

Blank analysis date:_____

Conc. units:_____ Associated Samples:_____

Compound	Blank ID	Sample Identification								
Methylene chloride										
Acetone										
CRQL										

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

BLANKS2.1SB

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were all surrogate %R within QC limits?

Y N (N/A) If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R out of outside of criteria?

#	Date	Sample ID	Surrogate	%Recovery (Limits)	Qualifications
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	QC Limits (Soil)	QC Limits (Water)
SMC1 (TOL) = Toluene-d8	81-117	88-110
SMC2 (BFB) = Bromofluorobenzene	74-121	86-115
SMC3 (DCE) = 1,2-Dichloroethane-d4	80-120	80-120
SMC4 (DFM) = Dibromofluoromethane	80-120	86-118

SUR.1SB

LDC #: 7109B1
SDG #: E1G180304

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer:
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8	10	10.66	107	107	0
Bromofluorobenzene	↓	10.37	104	104	0
1,2-Dichloroethane-d4		10.15	102	101	1
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

SURRCALC.1SB

SDG # [illegible] | Matrix Spike/Matrix Spike Duplicates | Page [illegible] of [illegible]

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
H.	1,1-Dichloroethene	59-172%	≤ 22%	61-145%	≤ 14%
S.	Trichloroethene	62-137%	≤ 24%	71-120%	≤ 14%
V.	Benzene	66-142%	≤ 21%	76-127%	≤ 11%
CC.	Toluene	59-139%	≤ 21%	76-125%	≤ 13%
DD.	Chlorobenzene	60-133%	≤ 21%	75-130%	≤ 13%

MSD.1SB

LDC #: 11093I
SDG #: EIG180304

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer:
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA

Where: SSC = Spiked sample concentration
SA = Spike added
SC = Sample concentration

RPD = | MSC - MSDC | 2/(MSC + MSDC)

MSC = Matrix spike percent recovery
MSDC = Matrix spike duplicate percent recovery

MS/MSD sample: 6/7

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	10	10	ND	10.5	10.6	105	105	106	106	1.5	0.9
Trichloroethene	↓	↓	3.6	12.8	12.8	91	92	92	92	0.23	0
Benzene	↓	↓	ND	9.27	9.46	93	93	95	95	2.0	2.0
Toluene	↓	↓	↓	8.89	9.27	89	89	93	93	4.2	4.2
Chlorobenzene	↓	↓	↓	8.81	9.01	88	88	90	90	2.2	2.2

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

MSDCLC.1SB

Lab # [illegible] brat Co S les S) Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a LCS required?
Y N N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LCSLCSD.1SE

BOE-C6-0049067

SDG #: E1G181 S04

Laboratory Control Sample Results Verification

Page: 1 of 1

Reviewer:
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA

Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD)

LCS = Laboraotry control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS ID: 120214OLCS

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	10	NA	10.8	NA	108	108				
Trichloroethene			9.42		94	94				
Benzene			9.09		91	91				
Toluene			9.03		90	90				
Chlorobenzene	✓		9.01		90	90				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LCSCLC.1SB

BOE-C6-0049068

SDG # IGI_b04 ... Internal Standards

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were all internal standard area counts within -50 to +100% of the associated calibration standard?

(Y) N N/A Were the retention times of the internal standards within +/- 30 seconds of the retention times of the associated calibration standard?

#	Date	Sample ID	Internal Standard	Area (Limits)	RT (Limits)	Qualifications

(BCM) = Bromochloromethane
(DFB) = 1,4-Difluorobenzene
(CBZ) = Chlorobenzene-d5
(PFB) = Pentafluorobenzene
(4DCB) = 1,4-Dichlorobenzene-d4
(2DCB) = 1,2-Dichlorobenzene-d4
(FBZ) = Fluorobenzene

INTST.1SB

SDG #: E1G180304

Target Compound Identification

Reviewer:

2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?

Y N N/A Did compound spectra meet specified EPA "Functional Guidelines" criteria?

Y N N/A Were chromatogram peaks verified and accounted for?

#	Date	Sample ID	Finding	Associated Samples	Qualifications

Comments:

TCI.1SB

DG FIG 504 ... po Qu tati nd QLs

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC/MS /OA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?

Y N N/A Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?

#	Date	Sample ID	Finding	Associated Samples	Qualifications
		2	N,S exceeded calib range		Jdets /A

Comments: See sample calculation verification worksheet for recalculations

COMQUA.1SI

BOE-C6-0049071

LDC #: 7109B1
SDG #: E1G180304

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Compound results for 1 reported with a positive detect were recalculated and verified using the following equation:

$$\text{Concentration} = \frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. 1 . K

Conc. = (212169)(10)(1) / (1002427)(0.904/85)( )( )

= 2.3 ug/L

#	Sample ID	Compound	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Acceptable (Y/N)
	1	JJ	1.4	1.4	Y
		KK	1.1	1.1	↓
		E	0.96	0.96	
		K	2.3	2.3	
		S	3.6	3.6	
		AA	0.83	0.83	↓

RECALC.1SB

Reviewer: _____

2nd Reviewer: _____

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?

Y N N/A Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?

Y N N/A Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?

#	Date	Sample ID	Finding	Associated Samples	Qualifications

Comments: _____

TIC.1SB

SDG #: E1C8D304

System Performance

Reviewer:

2nd Reviewer:

METHOD: GC/MS /OA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was the system performance acceptable?

Professional judgement was applied to assess system performance as there are no specific criteria for system performance evaluation.

#	Date	Lab ID/Reference	Finding	Associated Samples	Qualifications

Comments:

SYSP.1SB

Reviewer:

2nd Reviewer:

METHOD: GC/MS /OA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

Y N N/A Was the overall quality and usability of the data acceptable?

#	Date	Sample ID	Finding	Associated Samples	Qualifications

Comments:

OVR.1SB

LDC #: 70-TB1
SDG #: EIG180304

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer:
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y (N) N/A Were field duplicate pairs identified in this SDG?
Y N (N/A) Were target compounds detected in the field duplicate pairs?

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

FLDUP4.1SB

SDG #: EIG180304

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer:
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y (N) N/A Were field blanks identified in this SDG?
Y N (N/A) Were target compounds detected in the field blanks?

ample: _____ Field Blank / Trip Blank / Rinsate / Other _____ (circle one)

Compound	Concentration Units ( )

Sample: _____ Field Blank / Trip Blank / Rinsate / Other _____ (circle one)

Compound	Concentration Units ( )

ıple: _____ Field Blank / Trip Blank / Rinsate / Other _____ (circle one)

Compound	Concentration Units ( )

FLDBLK.1SB

APPENDIX D

BOE-C6-0049078

Appendix D

Groundwater Sampling and Analysis Plan
(Kennedy/Jenks Consultants, Table 1)

ENGLAND
GEOSYSTEM
ENVIRONMENTAL ENGINEERING

Table 1.
Proposed Monitoring Program
Boeing Realty Corporation, Former C-6 Facility
Los Angeles, California
K/J 004016.00

Well	Date Constructed	Depth of Screened Interval (Feet)		Hydro. Strat. Unit	Times Monitored	Well Monitoring Program	
		Top	Bottom			Annual (January)	Semiannual (July)
WCC-3S[1]	10/26/87	69	89	B/C Sand	36	VOCs, Title 22 Metals, Chrome VI	
WCC-3D[2]	06/27/89	120	140	C Sand	35	VOCs, Title 22 Metals, Chrome VI	
WCC-4S[1]	10/27/87	70.5	90.5	B/C Sand	36	VOCs, Title 22 Metals, Chrome VI	
WCC-5S[1]	11/24/87	60.5	91	B/C Sand	36	VOCs, Title 22 Metals, Chrome VI	
WCC-6S[2]	09/22/89	60	90	B/C Sand	30	VOCs, Title 22 Metals, Chrome VI	
WCC-7S[2]	06/08/89	60	90	B/C Sand	34	VOCs, Title 22 Metals, Chrome VI	
WCC-9S[2]	09/21/89	60	90	B/C Sand	33	VOCs, Title 22 Metals, Chrome VI	
WCC-10S[2]	06/07/89	60	90	B/C Sand	32	VOCs, Title 22 Metals, Chrome VI	
WCC-11S[2]	09/13/90	60	90	B/C Sand	32	VOCs, Title 22 Metals, Chrome VI	
WCC-12S[2]	09/17/90	60	90	B/C Sand	32	VOCs, Title 22 Metals, Chrome VI	
DAC-P1[1]	09/25/89	60	90	B/C Sand	32	VOCs, Title 22 Metals, Chrome VI	
TMW-1	06/28/98	61	81	B/C Sand	6	VOCs, Title 22 Metals, Chrome VI	VOCs
TMW-2	06/28/98	62	82	B/C Sand	6	VOCs, Title 22 Metals, Chrome VI	VOCs
TMW-3	07/21/98	62.5	82.5	B/C Sand	6	VOCs, Title 22 Metals, Chrome VI	VOCs
TMW-4	06/30/98	60	80	B/C Sand	6	VOCs, Title 22 Metals, Chrome VI	VOCs
TMW-5	07/02/98	61.3	81.3	B/C Sand	6	VOCs, Title 22 Metals, Chrome VI	VOCs
TMW-6	07/01/98	61.2	81.2	B/C Sand	6	VOCs, Title 22 Metals, Chrome VI	VOCs
TMW-7	06/29/98	64	84	B/C Sand	6	VOCs, Title 22 Metals, Chrome VI	VOCs
TMW-8	06/29/98	61	81	B/C Sand	6	VOCs, Title 22 Metals, Chrome VI	VOCs
TMW-9	06/30/98	61	81	B/C Sand	6	VOCs, Title 22 Metals, Chrome VI	VOCs
TMW-10	01/28/99	60.5	80.5	B/C Sand	3	VOCs, Title 22 Metals, Chrome VI	VOCs
TMW-11	02/01/99	58	78	B/C Sand	3	VOCs, Title 22 Metals, Chrome VI	VOCs
TMW-12	01/27/99	62	82	B/C Sand	3	VOCs, Title 22 Metals, Chrome VI	VOCs
TMW-13	02/02/99	60	80	B/C Sand	3	VOCs, Title 22 Metals, Chrome VI	VOCs
TMW-14	02/03/99	65	85	B/C Sand	3	VOCs, Title 22 Metals, Chrome VI	VOCs
TMW-15	02/04/99	62	87	B/C Sand	3	VOCs, Title 22 Metals, Chrome VI	VOCs
TMW-16	01/29/99	56.5	76.5	B/C Sand	3	VOCs, Title 22 Metals, Chrome VI	VOCs
BL-1	02/02/99	61.5	81.5	B/C Sand	4	VOCs, Title 22 Metals, Chrome VI	VOCs
BL-2	02/03/99	61.5	81.5	B/C Sand	4	VOCs, Title 22 Metals, Chrome VI	VOCs
BL-3	02/08/99	62	82	B/C Sand	4	VOCs, Title 22 Metals, Chrome VI	VOCs
XBF-18[3]	--	--	--	C Sand	--	VOCs, Title 22 Metals, Chrome VI	
XMW-09[3]	05/09/89	66	81	B Sand	--	VOCs, Title 22 Metals, Chrome VI	
XMW-18[3]	03/29/90	68	83	B Sand	--	VOCs, Title 22 Metals, Chrome VI	
XMW-19[3]	03/30/90	63	79	B Sand	--	VOCs, Title 22 Metals, Chrome VI	

NOTES:

1. Data from Woodward-Clyde Consultants Phase II Report, May 1988.
2. Data from Woodward-Clyde Consultants Phase III Report, March 1990.
3. Wells drilled for the Montrose groundwater monitoring program (See text for description).

B-Sand - Groundwater in Middle Bellflower Aquitard shallow sand.

C-Sand - Groundwater in Middle Bellflower Aquitard deeper sand.

B/C Sand - Groundwater in Middle Bellflower Aquitard sand undifferentiated.

GROUNDWATER MONITORING REPORT SEMI-ANNUAL EVENT

July 2001

prepared for

Boeing Realty Corporation
Long Beach, CA

dated

October 2001

prepared by

HALLY & ALDRICH

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING

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