SOIL VAPOR EXTRACTION CLOSURE REPORT
BUILDING 2 SYSTEM
BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

by

Haley & Aldrich, Inc.
San Diego, California

for

Boeing Realty Corporation
Long Beach, California

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ACRONYMS AND ABBREVIATIONS

1,1-DCA	1,1-Dichloroethane
1,1-DCE	1,1-Dichloroethene
1,1,1-TCA	1,1,1-Trichloroethane
acfm	Actual cubic feet per minute
bgs	Below ground surface
BRC	Boeing Realty Corporation
cis-1,2-DCE	cis-1,2-Dichloroethene
DAC	Douglas Aircraft Company
EPA	U.S. Environmental Protection Agency
FID	Flame ionization detector
GAC	Granular activated carbon
Haley & Aldrich	Haley & Aldrich, Inc.
Hargis	Hargis + Associates, Inc.
LARWQCB	California Regional Water Quality Control Board, Los Angeles Region
lbs	pounds
OVA	Organic vapor analyzer
PID	photoionization detector
PCE	Tetrachloroethene
ppmv	Parts per million by volume
PRGs	Preliminary Remediation Goals

ACRONYMS AND ABBREVIATIONS (CONTINUED)

PVC	polyvinyl chloride
ROI	Radius of influence
Site	BRC former C-6 Facility, Building 2 area
SOP	Standard operating procedure
SRA	Screening Level Human Health Risk Assessment
STL	Severn Trent Laboratories, Inc.
SVE	Soil vapor extraction
TCE	Trichloroethene
µg/kg	Micrograms per kilogram
VOCs	Volatile organic compounds

1.0 INTRODUCTION

This soil vapor extraction (SVE) closure report has been prepared for the Boeing Realty Corporation (BRC), by Haley & Aldrich, Inc. (Haley & Aldrich). This closure report presents data collected during remediation system operation and pre-closure activities conducted at the former C-6 Facility, Building 2 Area (the Site) from November 27, 2001, to February 20, 2003.

The Site is located at 19503 South Normandie Avenue in Los Angeles, California (Figure 1). The Building 2 SVE system is located in the western portion of Parcel C (Figure 2). Site assessment and remediation are being conducted cooperatively under the direction of the California Regional Water Quality Control Board, Los Angeles Region (LARWQCB) and are expedited for Site redevelopment in the Spring of 2003.

Laboratory results for soil samples collected in the former Building 2 area indicated the presence of volatile organic compounds (VOCs) at depth. Although these VOC concentrations did not pose a human health risk (Haley & Aldrich, 2002a), remediation was proposed to minimize potential future impact to groundwater. Several VOCs were detected in the soil during assessment and remediation activities at the Site; however, trichloroethene (TCE) was the primary compound identified. The lateral limits of the soil impacts in the Building 2 area have been delineated and elevated VOC impacts in this areas are confined to the Site (Haley & Aldrich, 2002a).

Based on the soil investigation results, shallow occurrences of impacted soil (less than 12 feet below ground surface [bgs]) were excavated and disposed of at an approved off-site facility. Based on the shallow soil remediation performed, the LARWQCB issued a closure and no further action letter for the shallow soil in Parcel C on December 6, 2002. An SVE system was recommended for the remediation of deep soil impacted with VOCs. Haley & Aldrich was contracted by BRC to install and operate an extended SVE pilot test to obtain data for the evaluation of using SVE as a full-scale remedy.

A workplan for the pilot test activities in the Building 2 area, dated September 14, 2001 (Haley & Aldrich, 2001a), was submitted and approved by the LARWQCB on September 19, 2001. Operation of the SVE pilot system was successful in treating the impacted area and constituted the full-scale SVE system. SVE system operation and closure sampling has been performed in accordance with the above-referenced workplan and the Soil Vapor Extraction System Closure Standard Operating Procedure (SOP) (Hargis, 2002) which was approved by the LARWQCB in a letter dated January 10, 2003 (LARWQCB, 2003).

The focus of this closure report is on the SVE remediation system operation and pre-closure activities associated with remediation of VOCs in soil, primarily TCE.

Specifically, this closure report is to document that the SVE system has reduced the mass of VOCs, principally TCE, to meet the following remediation objectives:

- Reduce overall VOC mass in deep soil to minimize the potential for future groundwater impact.
- Reduce VOC concentrations in soil to below U.S. Environmental Protection Agency (EPA) Preliminary Remediation Goals (PRGs).
- Reduce the mobility of residual VOC mass in fine-grained soil to minimize potential future groundwater impact.
- Achieve the practical limitations of the SVE technology.

2.0 BACKGROUND

2.1 SITE DESCRIPTION

The former C-6 Facility comprises approximately 170 acres at 19503 South Normandie Avenue in Los Angeles, California (Figure 1). The property is bordered on the north by West 190th Street; on the east by railroad tracks and South Normandie Avenue; on the south by the former Montrose Chemical Company; and on the west by Western Avenue, the former Capitol Metals, and former International Light Metals.

Between 1952 and 1992, the Douglas Aircraft Company (DAC) used the facility to manufacture aircraft and aircraft components. The former C-6 Facility was used by DAC for storage and warehousing until 1996. BRC purchased the former C-6 Facility in 1997 and promptly began redevelopment activities including building demolition, shallow soil remediation, and grading. The area encompassing the Building 2 SVE system at the Site is currently vacant pending new building construction in April 2003.

2.2 GEOLOGY AND HYDROGEOLOGY

The geology and hydrogeology at the Site has been defined on the basis of data derived from monitoring well drilling and construction, exploration boring and sampling; cone penetrometer testing; and Simulprobe boring and sampling (Haley & Aldrich, 2002b).

The geologic and hydrogeologic units beneath the Site are comprised of Holocene and Pleistocene-age alluvium deposits. The upper portions of these deposits are composed of the Bellflower aquitard (ground surface to approximately 140 feet bgs). The Bellflower aquitard consists of discontinuous interbedded clays and silts, and flood plain deposits composed of silt and sand grading into thinner beds with minor amounts of clay. Fine-grained soils are present at a depth of approximately 25 feet bgs and a more pronounced fine-grained clay layer is present at 50 to 55 feet bgs. The bottom of the Bellflower aquitard is defined by the Lower Bellflower Fine, a clay layer approximately 10 to 70 feet thick, and occurs at a depth of approximately 140 feet bgs. Groundwater at the Site occurs at a depth of approximately 60 feet bgs, and flows predominantly in a southeasterly direction under a gradient of 0.001 feet/feet. Groundwater flows at a velocity of approximately 10 to 20 feet per year (Haley & Aldrich, 2002b).

2.3 GROUNDWATER USE

The first groundwater encountered beneath the Site occurs within the Bellflower aquitard. The nearest groundwater production well to the Site is over one half mile away, and draws water from the Silverado aquifer at a depth of over 500 feet bgs. No wells currently produce water from the Bellflower aquitard, nor are they expected to in the future, due to the low hydraulic conductivity and elevated total dissolved solids content of the Bellflower aquitard.

The former C-6 Facility and Site lies in the West Coast Basin of the Los Angeles Coastal Plain. The LARWQCB Basin Plan Policy designates groundwater at and in the vicinity of the Site as having existing

beneficial uses for municipal and domestic supply, industrial service supply, industrial process supply, and agricultural supply. Typically, ambient water quality conditions frequently do not meet water quality objectives of shallow water-bearing zones.

2.4 SITE ASSESSMENT

2.4.1 Pre-Remediation Soil Concentrations

Extensive assessment of the Site has been performed over the past four years. The Phase II soil investigation associated with the former C-6 Facility and Site included the collection of over 8,000 soil samples from over 1,500 distinct locations to characterize the extent of VOC impacts, primarily TCE, from ground surface to approximately 65 feet bgs. Over 293 of the soil borings and 600 of the soil samples are associated with the Building 2 SVE area. Soil samples collected during the soil investigation conducted at the Site and in the Building 2 area were analyzed for various compounds and constituents including VOCs, semivolatile organic compounds, polynuclear aromatic hydrocarbons, TPH, metals, and polychlorinated biphenyls. A detailed description of the soil impacts is presented in the Soil Investigation, Soil Remediation, and Screening Level Risk Assessment Report (Haley & Aldrich, 2002a).

In general, VOC impacts in the Building 2 Area appear to be related to metal finishing processes and releases from one or more clarifiers located in the western portion of Building 2 (Figure 3). TCE is the most predominant VOC, with concentrations up to 340,000 micrograms per kilogram (µg/kg) at 60 feet bgs (Table 1). Other detected VOCs in soil include: cis-1,2-Dichloroethene (cis-1,2-DCE), 1,1-Dichloroethene (1,1-DCE), 1,1-Dichloroethane (1,1-DCA), 1,1,1-Trichloroethane (1,1,1-TCA) and toluene (Table 1). Some of the detected organic compounds, such as cis-1,2-DCE and 1,1-DCE are likely degradation products of TCE and 1,1,1-TCA, suggesting some active reductive dechlorination of chlorinated compounds is occurring in this area.

The Phase II soil investigation associated with the Site and Building 2 area also included the collection and analysis of approximately 82 soil gas samples from 72 locations (Haley & Aldrich, 2002a). The results of the soil gas survey indicated that low levels of VOC vapors were present, but were below human health risk threshold levels (Haley & Aldrich, 2002a).

TCE, 1,1-DCE and 1,1,1-TCA were the most frequently detected constituents at elevated concentrations in soil samples collected within the Building 2 area, and are considered the primary chemicals/constituents. The soil profile was separated into two depth intervals, 0 to 12 feet bgs (shallow soil), and greater than 12 feet bgs (deep soil). Impacted shallow soil was removed in a total of 21 excavations (0-12 feet bgs) in the Building 2 area, totaling approximately 3,800 cubic yards. Excavation of some deep soil was also performed in the area of the Building 2 clarifiers (otherwise referred to as T-20) to a depth of approximately 26 feet bgs (Figure 4). This deep excavation removed approximately 1,300 cubic yards of impacted soil. Although deep soil impacts remained after completion of the T-20 excavation, the concentrations did not pose a threat to human health based on the results of the screening-level risk assessment (Haley & Aldrich, 2002a).

As described above, the focus of this closure report is remediation of VOCs in deep soil, primarily TCE. The maximum concentration of TCE detected in soil samples above the water table was 82,000 micrograms per kilogram (µg/kg) from soil boring S24-5 at 50 feet bgs (Table 1; Figure 4). The maximum concentration of TCE detected in soil gas samples was 275 ug/l in the sample collected from boring 52 at 12 feet bgs (Table 2). The approximate distribution of TCE in deep soil at the Site is illustrated in Figure 3.

2.4.2 Groundwater Conditions

TCE, 1,1-DCE, and 1,1,1-TCA have been identified as the primary chemicals/constituents impacting shallow groundwater quality in the vicinity of the Site prior to initiation of soil remediation activities.

Of the VOCs detected above the respective drinking water standards, TCE was detected at the highest prevalence and greatest concentrations (Table 3). Other VOCs detected in groundwater samples have been tabulated (Table 3). For the purposes of this report, only TCE is discussed below.

The TCE groundwater impacts appear to originate from the clarifiers located in the northwestern portion of Building 2 (Figure 5). The extent of the Building 2 groundwater plume was defined using six monitoring wells (TMW-16, TMW-3, TMW-15, TMW-5, TMW-6, and TMW-4) installed in 1998 to 1999 and one monitoring well (XMW-18), installed in 1990. In addition to these monitoring locations, there were 29 direct push monitor Simulprobe locations (DDS-2-1 through DDS-2-29) advanced within Building 2 with the collection of 88 depth-discrete groundwater grab samples (Table 4) (Haley & Aldrich, 2002b).

In the Building 2 area, TCE was detected at concentrations exceeding the drinking water standard of 5 micrograms per liter (ug/l) in groundwater samples collected from the water table in the Bellflower aquitard (Table 3; Figure 5) (Haley & Aldrich 2002b). TCE was detected at a maximum concentration of approximately 12,000 ug/l in monitor well TMW-3 in September 1998, which is completed in the shallow Bellflower aquitard (Table 3). The maximum concentration of TCE most recently detected in this area was 4,500 ug/l in the groundwater sample obtained from TMW-3 in September 2002 (Table 3) (Haley & Aldrich, 2002b).

3.0 SOIL TREATMENT

Deep soil at the Site was evaluated for remedial alternatives, and SVE was selected for pilot testing. A workplan for the pilot test activities in the Building 2 area, dated September 14, 2001 (Haley & Aldrich, 2001a), was submitted and approved by the LARWQCB on September 19, 2001. The pilot SVE system was constructed in October and November 2001 and began operation on November 27, 2001.

The pilot SVE system consisted of the following elements:

- Eleven shallow SVE extraction wells;
- Twenty-one deep SVE extraction wells;
- 800-actual cubic foot per minute (acfm) vacuum blower equipped with a vapor liquid separator (knock-out vessel); and
- Two 3,000-pound (lb) vapor phase granular activated carbon (GAC) adsorption vessels.

The locations of the treatment equipment and wellfield layout are shown in Figure 6. The soil vapor extraction wells consist of 2-inch diameter polyvinyl chloride (PVC) well casing and screen with 0.020-inch slots. Dual-completion wells were used to independently treat the upper and lower vadose zone soil. The SVE wells were typically screened from 15 to 35 feet bgs and from 45 to 65 feet bgs. The screened intervals vary based on local lithology and the location of identified VOC soil impacts. Wells are equipped with ball valves to regulate flow rate, a labcock to sample vapor, and a vacuum gauge to measure pressure.

The soil vapor from SVE wells was conveyed to a 800 acfm blower in an above-grade pipeline, consisting of 6-, 4-, and 3-inch diameter schedule 40 PVC. Water vapor was separated from the air stream with a knockout vessel before passing through the GAC adsorption vessels. The SVE blower was equipped with a vacuum relief valve, an air dilution valve, pressure/vacuum gauges, flow rate measurement ports, and vapor sampling ports. The extracted soil vapor passed through two 3,000-lb GAC vessels, operated in series, where VOCs were removed and the treated vapor was then discharged to the atmosphere under South Coast Air Quality Management District Permits A/N 389510, A/N 398264, and A/N 401433.

Based on the results of initial Building 2 SVE pilot test operations, the radius of influence (ROI) varies between the eastern and western well fields. The ROI was approximately 200 feet for the eastern wellfield, and approximately 180 feet for the western wellfield, as shown in Figure 7. The details of the pilot test operation and ROI calculation is indicated in the Summary Report of Extended Soil Vapor Extraction Pilot Test Results (Haley & Aldrich, 2002c).

To maximize VOC mass removal, well optimization was performed. Optimization consisted of recording extracted VOC concentrations over the flow range of the well. The optimized flow rate was defined as the flow where the maximum VOC concentration was observed (Haley & Aldrich, 2002c). These tests were performed over the duration of the treatment period to verify the optimum conditions for each well. Well optimization curves and laboratory results over the treatment duration are included in Appendix B.

4.0 CLOSURE CONSIDERATIONS

4.1 OPERATIONAL SUMMARY

The SVE system was operated from November 27, 2001, to November 11, 2002. The system operated for approximately 7,600 hours during this period, with an average up-time of 91 percent (Figure 8). Approximately 1,000 gallons of condensate water was transferred from the knockout tank to 55-gallon drums stored on-site during pilot testing and disposed of off-site.

During February through May of 2002, performance testing for system optimization was conducted on a monthly basis to increase mass removal. Vapor concentration contour maps created during the initial operation of the system did not appear to define the extents of the VOC plume. Persistent elevated concentrations of VOCs were detected in SVE wells along the western edges of the SVE wellfield. Wells 2-VEW-16 and 2-VEW-17 were added to the system and brought on-line on May 1, 2002 to target these fringe concentrations of VOCs. Another set of wells, 2-VEW-18, 2-VEW-19, and 2-VEW-20, were added to the system on August 1, 2002 for further system optimization. Wellfield operation optimization was accomplished by reducing the flowrate in wells with low VOC concentrations, and increasing the flow rate in wells with more elevated VOC concentrations.

To maximize mass removal, SVE wells were optimized on a weekly basis during the month of August and September 2002 until the system influent concentrations reached asymptotic levels. Quarterly performance reviews were presented to the LARWQCB in an effort to keep the LARWQCB appraised of ongoing operational data and optimization improvements. Well optimization curves are included in Appendix B.

The analytical results for vapor samples collected from the system influent are presented in Table 5 and the system field data is presented in Table 6. The initial influent concentration of TCE measured on November 28, 2001 was 4.6 parts per million by volume (ppmv). The greatest concentration of VOCs detected in an influent sample (31 ppmv) was reported on February 6, 2002 after the individual wells were optimized for mass removal, verifying the well optimization process (Haley & Aldrich, 2002c). The vapor concentration of TCE and other VOCs decreased asymptotically over time, with a final TCE vapor concentration of 1.4 ppmv collected on November 11, 2002 (Table 7; Appendix B). System influent concentrations as measured with a calibrated organic vapor analyzer (OVA) were asymptotic for approximately 3,000 of the total 7,600 hours of system operation (Figure 9). The soil vapor plume represented by total VOC concentrations from field measurements decreased over the operational period for both shallow and deep treatment zones (Figure 10).

Initial calculations were performed to evaluate when asymptotic VOC concentration may be achieved. The calculations indicated that 500 pore volumes would result in asymptotic VOC concentrations and would be removed in approximately 250 days (Appendix B, Table B-1), assuming a maximum flow of 400 acfm. The system actually operated for approximately 320 days at an average flow rate of 480 acfm

and removed approximately 750 pore volumes (Table B-1). Asymptotic concentrations occurred around 200 days, indicating good correlation between the calculations and the actual monitoring data.

The original estimated mass of VOCs based on soil matrix sample concentrations was approximately 500 lbs. The total mass of VOCs removed by the SVE system was approximately 2,950 lbs (Figure 11). This removed mass was calculated using the cumulative hours of operation, the system flowrate, and the VOC vapor concentrations detected in the laboratory samples. The total mass was calculated on a weekly basis to track the mass loading on the GAC and to forecast carbon changeout dates.

4.2 SVE SYSTEM CLOSURE SAMPLING

Review of the site assessment and SVE operational data described above indicated that remediation of the Building 2 area met the following key goals based on the Soil Vapor Extraction System Closure SOP (Hargis, 2002):

- The SVE system targeted the appropriate portions of the VOC impacted soil by design and was further refined through the quarterly performance reviews.
- The SVE system was optimized through operational adjustments and additional wells, based on monthly and/or quarterly data optimization reviews.
- The optimized SVE system achieved an asymptotic mass removal rate for VOCs, based on vapor samples collected for laboratory analysis and vapor flow rate measurements, both conducted at the influent to the treatment system.
- The SVE system reduced soil VOC concentrations within the treatment area in excess of 95%, and in most areas, to non-detectable concentrations.

The Soil Vapor Extraction System Closure SOP (Hargis, 2002) outlined several steps for collecting and monitoring soil data prior to shutting down active SVE systems. These steps include:

- Identification of key SVE wells;
- Pre-rebound vapor sampling;
- Rebound monitoring vapor sampling;
- Low flow vapor closure sampling;
- Post-rebound vapor closure sampling; and,
- Soil matrix sampling.

The Building 2 SVE system closure sampling conducted in accordance with the SOP is described in the sections below.

4.2.1 Identification of Key SVE Wells

Key wells were identified and monitored in accordance with the SOP for SVE System Closure (Hargis, 2002). The key wells were identified as those with the highest field organic vapor analyzer (OVA) readings (either a photo ionization detector or flame ionization detector), based on a trend analysis. The trend analysis was conducted using the average of the field OVA data during the 60-day period of most recent operation for each SVE well screened interval

A total of eight wells, comprising approximately 25 percent of the total remediation system SVE well screened intervals, were selected as key wells. These key SVE wells include; 2-VEW-1B, 2-VEW-4, 2-VEW-8B, 2-VEW-9, 2-VEW-10B, 2-VEW-11B, 2-VEW-15B, and 2-VEW-19. Each of the key wells were tested periodically throughout the SVE closure vapor sampling period (Table 8; Figures 12 through 15).

4.2.2 Pre-Rebound Sampling

Prior to shutting down the eastern SVE wells for rebound testing, system influent vapor samples were collected on October 16 and November 11, 2002, and sent to Severn Trent Laboratories, Inc. (STL) for analysis of VOCs using EPA Method 8260. TCE was detected at a concentration of 15 ppmv in the pre-rebound influent vapor sample (Table 8). In addition, vacuum and flowrate readings were measured at each of the SVE wells. Two vapor samples were collected in tedlar bags from each key well according to established vapor sampling procedures. One sample was analyzed in the field using a calibrated OVA, and the other sample was packaged and transported to STL for analysis (Tables 8, 9, and 10).

Initially, the wellfield was evaluated separately in two sections: the eastern and western wellfields. The eastern wellfield achieved low asymptotic concentrations prior to the western wellfield. The eastern wells were shut down for rebound monitoring on October 16, 2002. Following shut-down, the already low VOC concentrations continued to decline. This observation was most likely attributed to the flow and vacuum influence of the western wells still operating, at an increased flow rate (Figure 7). To rectify this situation, both wellfields were shutdown together for rebound monitoring on November 11, 2002. Once pre-rebound vapor sampling was completed, the system remained offline between November 11, 2002 and February 14, 2002 for rebound monitoring.

4.2.3 Rebound Monitoring

Rebound monitoring was conducted over the prescribed fourteen-week period to evaluate the effectiveness of the SVE system. Rebound vapor samples were collected from the key SVE wells on a scheduled basis from November 11, 2002 through February 14, 2003, and analyzed in the field using a calibrated OVA (Table 9). Initial rebound vapor samples were collected for laboratory analysis from key SVE wells 2-VEW-9, 2-VEW-10B, 2-VEW-11B, 2-VEW-15B, and 2-VEW-19 on October 16, 2002, and from key SVE wells 2-VEW-1B, 2-VEW-4, and 2-VEW-8B on November 11, 2002. Subsequent vapor rebound concentrations measured with a calibrated OVA indicate that the maximum vapor concentrations

did not rebound more than one order of magnitude during the fourteen-week period (Table 10, Figures 12 through 15). Minimal rebound in vapor concentrations show that low TCE mass remaining in subsurface soils is likely contained in finer-grained soil in the unsaturated zone or groundwater where the flux of TCE is physically limited. Thus, the mass removal goal has been obtained in the Building 2 area (Tables 9 and 10).

4.2.4 Low Flow Vapor Closure Sampling

With the SVE system off, key SVE wells were purged on February 19, 2002 using a vacuum pump at the rate of 0.5 well volumes per minute, as specified in the SOP (Hargis, 2002). After three well volumes were purged, two vapor samples were collected in tedlar bags using established vapor sampling techniques. One sample was analyzed in the field using a calibrated OVA, and the other sample was packaged and transported to STL for analysis in accordance with established procedures. Analytical results for these samples indicate that the maximum vapor concentrations rebounded less than an order of magnitude (factor of three) from the pre-rebound concentrations (Tables 9 and 10; Figures 12 through 15).

These low-flow closure results also indicate that the maximum well vapor concentrations detected were one to two orders of magnitude below the initial system influent concentrations. These results further confirm the SVE system targeted the appropriate portions of the VOC impacted soil and achieved the goal of asymptotic mass removal in the Building 2 area.

4.2.5 Post Rebound Vapor Closure Sampling

The system was re-started on February 20, 2003 to collect post-rebound vapor closure samples. Following 30-minutes of stable operation, an influent vapor sample was collected and sent to STL for analysis. TCE was detected in the influent vapor sample at a laboratory concentration of 4.1 ppmv (Table 8). The system was operated for 4 hours then another sample was collected. TCE was detected in the vapor sample collected after 4 hours of operation at a laboratory concentration of 3.4 ppmv (Table 8). The key SVE wells were also sampled for OVA and laboratory analysis. Key well vapor sample laboratory results indicate that 50% of the wells had lower post-rebound TCE concentrations, 25% of the wells stayed the approximately same, and 25% of the wells increased in concentration after the system was restarted during post-rebound sampling. A maximum post-rebound laboratory concentration of 44 ppmv was detected in well 2-VEW-1B (Table 8). Initial readings taken from well 2-VEW-1B with a calibrated OVA in January 2002 indicated concentrations greater than 9,999 ppmv (Haley & Aldrich, 2002c).

The increase in post-rebound TCE concentrations detected in 2-VEW-1B is most likely the result of slow, rate-limited diffusion of VOCs from the clay layer the well was completed in and the presence of TCE-impacted groundwater at 65 feet bgs. Groundwater monitoring well TMW-3, the nearest monitoring well to SVE well 2-VEW-1B, has historically shown concentrations of TCE as high as 12,000 micrograms per liter (ug/l). The most recent analytical results from this well are 4,500 ug/l TCE (Table 3) (Haley & Aldrich, 2002b). Although the vapor concentrations measured at 2-VEW-1B remain slightly elevated, the

well does not yield an appreciable mass due to the restricted flow rate through clayey soil in this area. Significant VOC mass removal has been accomplished in this area as evidenced by over two orders of magnitude vapor reduction and significantly reduced to non-detectable soil matrix concentrations (Section 4.3). Based on the fine-grained nature of the soil, further operation of 2-VEW-1B is not warranted. Additionally, the groundwater and capillary fringe VOC impacts will be addressed through a groundwater remediation program. An in-situ bioremediation pilot test workplan was submitted and approved by the LARWQCB on May 17, 2002, and is further discussed in Section 4.5.

Residual concentrations of VOCs in deep-screened SVE wells are likely the result of VOC residuals in fine-grained layers and groundwater impacts. In spite of the small post-rebound increases, sample analytical results indicate that the maximum vapor concentrations detected remained at least two orders of magnitude below the initial system influent concentrations for all key wells, further confirming achievement of the asymptotic mass removal goal.

4.3 CONFIRMATION SOIL SAMPLING

Prior to SVE remediation activities, soil matrix and soil vapor samples were collected in the Building 2 area to characterize subsurface impacts (Figure 16). During the confirmation soil sampling activities, TCE was detected at a concentration up to 340,000 µg/kg from soil boring S24-6 at 60 feet bgs. Because this concentration was detected at or near the water table, the highest TCE concentration considered for SVE treatment was 82,000 µg/kg from soil boring S24-5 at 50 feet bgs.

In order to evaluate TCE mass reduction, progress confirmation soil boring SB1001 and vapor extraction well 2-VEW-20 were completed on August 1, 2002 near the area of highest TCE concentration in the western wellfield (Figure 16). TCE was not detected in soil samples collected from SB1001 at a depth of 30 feet bgs and 2-VEW-20 at depths of 25 feet, 40 feet, and 50 feet bgs (Table 11, Figure 16). The samples were analyzed by STL for VOCs using EPA Method 8260B.

A second round of progress confirmation soil samples were collected on September 23, 2002. Soil borings SB1002, SB1003, and SB1004 were completed to depths of 50 feet bgs to further assess the TCE mass removal progress in the Building 2 area. TCE was not detected in nine out of the eleven soil samples collected during this round of samples, demonstrating over 99% mass removal in over 80% of the samples. The highest TCE concentration detected in the other two samples was 100 µg/kg in SB1002 at 50 feet bgs. These samples were within the fine-grained clay layer, and still had over 99% TCE concentration reduction from the maximum pre-SVE concentration of 82,000 µg/kg.

Following SVE system closure vapor sampling, two additional confirmation soil borings were completed in the Building 2 area on January 10, 2003 (Figure 16) in compliance with the SOP (Hargis, 2002). Soil samples were collected in the areas where the greatest rebound concentrations were observed. TCE was not detected in two of the four samples. The highest TCE concentration detected in the other two samples was 370 µg/kg in SB1006 at 55 feet bgs within the lower fine-grained clay layer adjacent to well 2-VEW-1B.

In general, the vadose zone in the Building 2 area is a highly heterogeneous layering of fine sand, silts, and clays. As discussed in Section 2.2, fine-grained soils are present at a depth of approximately 25 feet bgs, and a more pronounced fine-grained/clay layer is present at 50 to 55 feet bgs. This is observed in the boring logs for SB1005 and SB1006 (Appendix C). The dual-depth screens of the SVE system were designed to address these highly variable geologic conditions.

Soil samples collected from the coarser-grained soil demonstrated VOC concentration reductions from over 400 µg/kg to non-detectable concentrations. This represents over a 95% reduction in TCE concentrations with over 65% of the samples containing non-detectable TCE concentrations. These soil confirmation results further demonstrate achievement of the mass removal goal.

Soil samples collected from the finer-grained unit at 50 to 55 feet bgs demonstrated concentration reductions from 82,000 µg/kg to non-detectable concentrations. In general, the concentration reduction exceeded 98% in over 70% of the samples; however, minor TCE residuals still remain in this clay layer. An example of this is the reduction of the TCE concentration of 82,000 µg/kg at S-25-5 to 370 µg/kg, a reduction of over 3 orders of magnitude, or a 99.5% reduction. While vapor concentrations still exist in this deeper fine-grained soil, SVE operation is not warranted because of the very low soil permeability, low air extraction rates, and resulting negligible mass recovery as demonstrated by SVE well 2-VEW-1B.

Overall, the soil sampling confirms the effectiveness of the SVE system in reducing in-situ soil VOC and TCE concentrations in excess of 98% over the treatment area and strongly supports the negligible vapor rebound results observed. Combined, these results confirm the mass removal goal has been achieved in the Building 2 area.

To increase confidence in the soil analytical data, a data validation program was implemented. This program consisted of a third party performing a level 2 data validation on 10% of the data, and a level 3 data validation on 5% of the data. The data validation report is included in Appendix C.

4.4 HUMAN HEALTH CONSIDERATIONS

As previously presented, closure is being requested for the Building 2 SVE system that was installed and operated to remediate VOCs in soil, primarily TCE. Shallow soil (top 12 feet) in Parcel C, including the Building 2 area, was remediated and closed by the LARWQCB on December 6, 2002. The remaining deep VOC soil impacts in the Building 2 area prior to SVE remediation did not pose a significant human health threat based on the results of the Screening Level Risk Assessment (Haley & Aldrich, 2002a).

The implementation of SVE remediation in the Building 2 area further reduced human health and groundwater impact threat through the removal of over 2,950 lbs of VOCs and the reduction of soil concentrations to non-detect or below California PRG values. In the case of TCE, remaining residual concentrations (370 µg/kg) are a full order of magnitude less than the California PRG for TCE of 3,700

µg/kg. Based on these results, the goals of mass removal and risk reduction were achieved in the Building 2 area.

4.5 GROUNDWATER PROTECTION

The following points suggest that the remaining low concentrations of TCE present in the soil likely do not pose a significant risk to the underlying groundwater resource:

- The LARWQCB has already issued shallow soil closure.
- The source features for the TCE detected in soil were removed.
- Excavation of deep soil was also conducted in the area of the Building 2 clarifiers to a depth of approximately 26 feet bgs. This deep excavation removed approximately 1,300 cubic yards of impacted soil. This excavation was filled and compacted with clean fill.
- The maximum post-remediation TCE concentration was 370 µg/kg in a sample collected from confirmation boring SB10006 at a depth of 50 feet bgs. This concentration represents over three orders-of-magnitude reduction in soil concentration.
- The remaining TCE residuals are present in fine-grained soils with low permeability and low contaminant mobility.
- The remaining TCE residuals in the fine-grained soils have a lower mobility than the TCE in fine-grained soil prior to SVE remediation. As a result, the remaining TCE residuals pose a lower impact potential to groundwater.
- The estimated mass removed while operating the SVE system is over 500% greater than the initially estimated VOC mass prior to system operation. It is likely that a significant portion of this additional mass was removed from the capillary fringe and groundwater.

5.0 SUMMARY AND CONCLUSIONS

The following items summarize the effectiveness of the Building 2 SVE system:

- Prior to SVE remediation, the highest measured concentration of TCE in the western wellfield was detected at 50 feet bgs at a concentration of 82,000 µg/kg. The maximum post-remediation TCE concentration was 370 µg/kg in a sample collected from confirmation boring SB1006 at a depth of 50 feet bgs within 10 feet of 2-VEW-1B. This concentration is approximately three orders of magnitude lower than the pre-SVE soil concentration, and is an order-of-magnitude lower than the California PRG.

- Prior to SVE remediation, the highest measured concentration of TCE in the eastern wellfield was detected at 50 feet bgs at a concentration of 450 µg/kg. The maximum post-remediation TCE concentration was 110 µg/kg in a sample collected from confirmation boring SB1002 at a depth of 50 feet bgs within 10 feet of 2-VEW-11B. This concentration is significantly lower than the pre-SVE soil concentration, and is over an order-of-magnitude lower than the California PRG.

- A strong correlation exists between the negligible vapor rebound results and the low to non-detectable concentrations detected in the soil confirmation samples.

- The SVE remediation system was operated for 7,600 total hours with an average undiluted flowrate of 460 standard cubic feet per minute.

- Shortly after system start-up TCE concentrations increased then decreased during system operation to a final asymptotic TCE vapor concentration of 13 ppmv at system shutdown on November 11, 2002. The total mass of VOCs removed by the treatment system was approximately 2,950 pounds.

- Minimal rebound in vapor concentrations after a fourteen week system shutdown indicates the low TCE mass remaining in the soil is likely contained in finer-grained portions of the unsaturated zone or groundwater where flux of TCE is physically limited.

The remediation goals of mass and mobility reduction have been met. Concentrations of VOCs that were previously at acceptable levels to protect human health were further reduced in excess of three orders-of-magnitude. Operation of the SVE system has achieved asymptotic concentrations and has met the practical limitations of this remediation technology. Residual VOCs are likely retained in fine-grained soil and have significantly limited mobility. Based on these findings, removal, decommissioning, and a no further action determination for the Building 2 SVE system is recommended.

6.0 LIMITATIONS

This report was prepared by Haley & Aldrich, Inc. under the professional direction and review of the registered professionals listed on the cover page. The work described herein was conducted in accordance with generally accepted professional engineering and geologic practice. No other warranty exists, either expressed or implied.

In addition to data collected by and observations made by Haley & Aldrich personnel, this report incorporates site conditions observed and described by others as reported in records available to Haley & Aldrich as of the date of report preparation. Haley & Aldrich relied — in part — on such data collected by others in the development of interpretations about environmental conditions at the Site. The accuracy, precision, or representative nature of data originally generated by others could not be independently verified by Haley & Aldrich, and would be beyond the scope of this project.

In addition, the passage of time may result in changes in site conditions, technology, or economic conditions which could alter the findings and/or recommendations of the report.

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TABLE 1
PRE-REMEDIATION VOCS IN SOIL
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

Object Name	Sample Name	Sample Depth (feet)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethan	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinylether	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone
C-2-26	C_2_26_5	5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26	C_2_26_10	10	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26	C_2_26_20	20	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26	C_2_26_25	25	<5	<5	<5		<5	<5	**3.9J**	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26	C_2_26_30	30	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26	C_2_26_40	40	<5	<5	<5		<5	<5	**3.7J**	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26	C_2_26_50	50	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26	C_2_26_60	60	<5	<5	<5		<5	<5	**3.4J**	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26-1	C_2_26_1_10	10	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26-1	C_2_26_1_20	20	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26-1	C_2_26_1_25	25	<5	<5	<5		<5	<5	**3.7J**	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26-1	C_2_26_1_30	30	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26-1	C_2_26_1_40	40	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26-1	C_2_26_1_50	50	<25	<25	<25		<25	<25	<25	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<25		<25		<25	<120	<50	<25	<120	<25	<25	<120
C-2-26-1	C_2_26_1_60	60	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26-2	C_2_26_2_10	10	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26-2	C_2_26_2_20	20	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26-2	C_2_26_2_25	25	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26-2	C_2_26_2_30	30	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26-2	C_2_26_2_40	40	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26-2	C_2_26_2_50	50	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-26-2	C_2_26_2_60	60	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-143	C-2-143-5	5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-143	C-2-143-10	10	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-143	C_2_143_20	20	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-143	C_2_143_25	25	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-143	C_2_143_30	30	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-143	C_2_143_40	40	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
C-2-143	C_2_143_50	50	<25	<25	<25		<25	<25	<25	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<25		<25		<25	<120	<50	<25	<120	<25	<25	<120
C-2-143	C_2_143_60	60	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24	S24_10	10	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24	S24_20	20	<5	<5	<5		<5	**4.2J**	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	**14**	<25
S24	S24_30	30	<250	**300**	<250		<250	**110J**	<250	<250	<250	<250	<250	**2700**	<500	<250	<250	<250	**390**	<250		<250		<250	<1200	<500	<250	<1200	<250	**940**	<1200
S24-2	S24_2_10	10	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-2	S24_2_20	20	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-2	S24_2_30	30	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-3	S24_3_10	10	<250	**360**	<250		<250	<250	<250	<250	<250	<250	<250	**10000**	<500	<250	<250	<250	**3400**	<250		<250		<250	<1200	<500	<250	<1200	<250	**790**	<1200
S24-3	S24_3_20	20	<250	**240J**	<250		<250	<250	<250	<250	<250	<250	<250	**5200**	<500	<250	<250	<250	**1200**	<250		<250		<250	<1200	<500	<250	<1200	<250	<250	<1200
S24-3	S24_3_25	25	<500	**730**	<500		<500	<500	<500	<500	<500	<500	<500	<500	<1000	<500	<500	<500	<500	<500		<500		<500	<2500	<1000	<500	<2500	<500	<500	<2500
S24-3	S24_3_30	30	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-3	S24_3_40	40	<5	**19**	<5		<5	**10**	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-3	S24_3_50	50	<25	<25	<25		<25	**6.6J**	<25	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<25		<25		<25	<120	<50	<25	<120	<25	<25	<120
S24-3	S24_3_60	60	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-4	S24_4_10	10	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25

See notes on page 6

TABLE 1
PRE-REMEDIATION VOCS IN SOIL
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEI
LOS ANGELES, CALIFORNIA

Object Name	Sample Name	Sample Depth (feet)	Acetone	Acrolein	Acrylonitrile	Benzene	Benzene, 1-methylethyl-	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromomethane	Dichlorodifluoromethane	Dichlorofluoromethane	Dichloromethane	Ethylbenzene	Ethylene dibromide	Hexachlorobutadiene	Iodomethane	Isopropyl ether	Methyl tert-butyl ether (MTBE)
C-2-26	C_2_26_5	5	**17J**	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		**4.4J**	<5	<5	<5	<10		<5
C-2-26	C_2_26_10	10	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26	C_2_26_20	20	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26	C_2_26_25	25	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	**2J**	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26	C_2_26_30	30	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26	C_2_26_40	40	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	**1.2J**	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26	C_2_26_50	50	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26	C_2_26_60	60	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26-1	C_2_26_1_10	10	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26-1	C_2_26_1_20	20	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26-1	C_2_26_1_25	25	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	**1.7J**	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26-1	C_2_26_1_30	30	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26-1	C_2_26_1_40	40	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26-1	C_2_26_1_50	50	<120	<500	<250	<25	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<50	<25	<50	<25	<25		<50		<25	<25	<25	<25	<50		<25
C-2-26-1	C_2_26_1_60	60	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26-2	C_2_26_2_10	10	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26-2	C_2_26_2_20	20	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26-2	C_2_26_2_25	25	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26-2	C_2_26_2_30	30	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26-2	C_2_26_2_40	40	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26-2	C_2_26_2_50	50	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-26-2	C_2_26_2_60	60	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-143	C-2-143-5	5	<25	<100	<100	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		**3.3J**	<5	<5	<5	<10	<10	<5
C-2-143	C-2-143-10	10	<25	<100	<100	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10	<10	<5
C-2-143	C_2_143_20	20	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-143	C_2_143_25	25	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-143	C_2_143_30	30	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-143	C_2_143_40	40	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
C-2-143	C_2_143_50	50	<120	<500	<250	<25	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<50	<25	<50	<25	<25		<50		<25	<25	<25	<25	<50		<25
C-2-143	C_2_143_60	60	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24	S24_10	10	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24	S24_20	20	<25	<100	<50	<5	**7.3**	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	**24**	<5		<10		<5	<5	<5	<5	<10		<5
S24	S24_30	30	<1200	<5000	<2500	<250	**270**	<250	<250	<250	<250	<500	<250	<250	<250	<250	<500	<250	<500	**1200**	<250		<500		<250	**260**	<250	<250	<500		<250
S24-2	S24_2_10	10	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-2	S24_2_20	20	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	**7.4**	<5		<10		<5	<5	<5	<5	<10		<5
S24-2	S24_2_30	30	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-3	S24_3_10	10	<1200	<5000	<2500	<250	**270**	<250	<250	<250	<250	<500	<250	<250	<250	<250	<500	<250	<500	**2200**	<250		<500		<250	**620**	<250	<250	<500		<250
S24-3	S24_3_20	20	<1200	<5000	<2500	<250	<250	<250	<250	<250	<250	<500	<250	<250	<250	<250	<500	<250	<500	**310**	<250		<500		<250	**450**	<250	<250	<500		<250
S24-3	S24_3_25	25	<2500	<10000	<5000	<500	<500	<500	<500	<500	<500	<1000	<500	<500	<500	<500	<1000	<500	<1000	**260J**	<500		<1000		<500	<500	<500	<500	<1000		<500
S24-3	S24_3_30	30	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-3	S24_3_40	40	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	**2.3J**	<10	**16**	<5		<10		<5	<5	<5	<5	<10		<5
S24-3	S24_3_50	50	<120	<500	<250	<25	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<50	<25	<50	<25	<25		<50		<25	<25	<25	<25	<50		<25
S24-3	S24_3_60	60	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-4	S24_4_10	10	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5

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TABLE 1
PRE-REMEDIATION VOCS IN SOIL
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEI
LOS ANGELES, CALIFORNIA

Object Name	Sample Name	Sample Depth (feet)	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Butanol	Tert-amyl methyl ether	Tert-butyl ethyl ether	tert-Butylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl chloride	m/p-xylene	o-Xylene	Xylenes (total)
C-2-26	C_2_26_5	5		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**7.1**	<10	<10	<10			<5
C-2-26	C_2_26_10	10		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**49**	<10	<10	<10			<5
C-2-26	C_2_26_20	20		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**61**	<10	<10	<10			<5
C-2-26	C_2_26_25	25		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**400**	<10	<10	<10			<5
C-2-26	C_2_26_30	30		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**140**	<10	<10	<10			<5
C-2-26	C_2_26_40	40		<5	<5	<5	<10				<5	**2.1J**	<20	<5	<5	<5	**290**	<10	<10	<10			<5
C-2-26	C_2_26_50	50		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**240**	<10	<10	<10			<5
C-2-26	C_2_26_60	60		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**300**	<10	<10	<10			<5
C-2-26-1	C_2_26_1_10	10		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**12**	<10	<10	<10			<5
C-2-26-1	C_2_26_1_20	20		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**37**	<10	<10	<10			<5
C-2-26-1	C_2_26_1_25	25		<5	<5	<5	<10				<5	**2.8J**	<20	<5	<5	<5	**160**	<10	<10	<10			<5
C-2-26-1	C_2_26_1_30	30		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**7.2**	<10	<10	<10			<5
C-2-26-1	C_2_26_1_40	40		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	<5	<10	<10	<10			<5
C-2-26-1	C_2_26_1_50	50		<25	<25	<25	<50				<25	<25	<100	<25	<25	<25	**200**	<50	<50	<50			<25
C-2-26-1	C_2_26_1_60	60		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**20**	<10	<10	<10			<5
C-2-26-2	C_2_26_2_10	10		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**9.8**	<10	<10	<10			<5
C-2-26-2	C_2_26_2_20	20		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**37**	<10	<10	<10			<5
C-2-26-2	C_2_26_2_25	25		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**2.9J**	<10	<10	<10			<5
C-2-26-2	C_2_26_2_30	30		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**3.5J**	<10	<10	<10			<5
C-2-26-2	C_2_26_2_40	40		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	<5	<10	<10	<10			<5
C-2-26-2	C_2_26_2_50	50		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**130**	<10	<10	<10			<5
C-2-26-2	C_2_26_2_60	60		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**59**	<10	<10	<10			<5
C-2-143	C-2-143-5	5		<5	<5	<5	<10	<100	<10	<10	<5	<5	<20	<5	<5	<5	<5	<10	<10	<10			<5
C-2-143	C-2-143-10	10		<5	<5	<5	<10	<100	<10	<10	<5	<5	<20	<5	<5	<5	<5	<10	<10	<10			<5
C-2-143	C_2_143_20	20		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**79**	<10	<10	<10			<5
C-2-143	C_2_143_25	25		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**160**	<10	<10	<10			<5
C-2-143	C_2_143_30	30		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	<5	<10	<10	<10			<5
C-2-143	C_2_143_40	40		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	<5	<10	<10	<10			<5
C-2-143	C_2_143_50	50		<25	<25	<25	<50				<25	<25	<100	<25	<25	<25	**450**	<50	<50	<50			<25
C-2-143	C_2_143_60	60		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**19**	<10	<10	<10			<5
S24	S24_10	10		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	<5	<10	<10	<10			<5
S24	S24_20	20		**21**	**13**	**9.8**	<10				**9.9**	<5	<20	<5	<5	<5	**200**	<10	<10	<10			**17**
S24	S24_30	30		**1300**	**500**	**710**	<500				<250	<250	<1000	<250	<250	<250	**12000**	<500	<500	<500			**490**
S24-2	S24_2_10	10		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	<5	<10	<10	<10			<5
S24-2	S24_2_20	20		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**28**	<10	<10	<10			<5
S24-2	S24_2_30	30		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	<5	<10	<10	<10			<5
S24-3	S24_3_10	10		**3100**	**1100**	<250	<500				<250	<250	<1000	**370**	<250	<250	**4000**	<500	<500	<500			**880**
S24-3	S24_3_20	20		**1400**	**340**	<250	<500				<250	<250	<1000	<250	<250	<250	**11000**	<500	<500	<500			**370**
S24-3	S24_3_25	25		<500	<500	<500	<1000				<500	<500	<2000	<500	<500	<500	**24000**	<1000	<1000	<1000			<500
S24-3	S24_3_30	30		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	<5	<10	<10	<10			<5
S24-3	S24_3_40	40		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**220**	<10	<10	<10			<5
S24-3	S24_3_50	50		<25	<25	<25	<50				<25	<25	<100	<25	<25	<25	**450**	<50	<50	<50			<25
S24-3	S24_3_60	60		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**180**	<10	<10	<10			<5
S24-4	S24_4_10	10		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	<5	<10	<10	<10			<5

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TABLE 1
PRE-REMEDIATION VOCS IN SOIL
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

Object Name	Sample Name	Sample Depth (feet)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethan	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Butanone	2-Chloroethylvinylether	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone
S24-4	S24_4_20	20	<5	**4.4J**	<5		<5	**2.7J**	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-4	S24_4_25	25	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-4	S24_4_30	30	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-4	S24_4_40	40	<5	**2.7J**	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-4	S24_4_50	50	<5	**2.6J**	<5		<5	**2J**	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-4	S24_4_62	62	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-5	S24_5_5	5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-5	S24_5_20	20	<5	**5.1**	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-5	S24_5_25	25	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-5	S24_5_30	30	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-5	S24_5_40	40	<5	**3.3J**	<5		<5	**4.3J**	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-5	S24_5_50	50	<2500	**820J**	<2500		<2500	<2500	<2500	<2500	<2500	<2500	<2500	**1500J**	<5000	<2500	<2500	<2500	<2500	<2500		<2500		<2500	<12000	<5000	<2500	<12000	<2500	<2500	<12000
S24-5	S24_5_60	60	<25	<25	<25		<25	<25	<25	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<25		<25		<25	<120	<50	<25	<120	<25	<25	<120
S24-6	S24_6_10	10	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-6	S24_6_20	20	<5	**5**	<5		<5	**3.3J**	**2.3J**	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-6	S24_6_25	25	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-6	S24_6_30	30	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-6	S24_6_40	40	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-6	S24_6_50	50	<5	<5	<5		<5	**2.7J**	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-6	S24_6_60	60	<5000	<5000	<5000		<5000	<5000	<5000	<5000	<5000	<5000	<5000	**4000J**	<10000	<5000	<5000	<5000	<5000	<5000		<5000		<5000	<25000	<10000	<5000	<25000	<5000	<5000	<25000
S24-7	S24_7_10	10	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-7	S24_7_20	20	<5	**1J**	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-7	S24_7_25	25	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-7	S24_7_30	30	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-7	S24_7_40	40	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-7	S24_7_50	50	<5	**2J**	<5		<5	**2.8J**	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
S24-7	S24_7_60	60	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5		<5		<5	<25	<10	<5	<25	<5	<5	<25
TMW-03	W-03-03-S0721_P_3_07219	3		<2.5	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<2.5		<5	<2.5		<2.5	<2.5	
TMW-03	W-03-66-S0721_P_3_07219	3		<2.5	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<2.5		<5	<2.5		<2.5	<2.5	
TMW-03	W-03-05-S0721_P_5_07219	5		<2.5	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<2.5		<5	<2.5		<2.5	<2.5	
TMW-03	W-03-10-S0721_P_10_0721	10		<2.5	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<2.5		<5	<2.5		<2.5	<2.5	
TMW-03	W-03-20-S0721_P_20_0721	20		**7.1**	<2.5		<2.5	**2.9**	**9.9**	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<2.5		<5	<2.5		<2.5	<2.5	
TMW-03	W-03-30-S0721_P_30_0721	30		<2.5	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<2.5		<5	<2.5		<2.5	<2.5	
TMW-03	W-03-40-S0721_P_40_0721	40		<2.5	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<2.5		<5	<2.5		<2.5	<2.5	
TMW-03	W-03-50-S0721_P_50_0721	50		<2.5	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<2.5		<5	<2.5		<2.5	<2.5	

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TABLE 1
PRE-REMEDIATION VOCS IN SOIL
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEI
LOS ANGELES, CALIFORNIA

Object Name	Sample Name	Sample Depth (feet)	Acetone	Acrolein	Acrylonitrile	Benzene	Benzene, 1-methylethyl-	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromomethane	Dichlorodifluoromethane	Dichlorofluoromethane	Dichloromethane	Ethylbenzene	Ethylene dibromide	Hexachlorobutadiene	Iodomethane	Isopropyl ether	Methyl tert-butyl ether (MTBE)
S24-4	S24_4_20	20	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	**4.1J**	<5		<10		<5	<5	<5	<5	<10		<5
S24-4	S24_4_25	25	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-4	S24_4_30	30	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-4	S24_4_40	40	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-4	S24_4_50	50	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	**2.1J**	<5		<10		<5	<5	<5	<5	<10		<5
S24-4	S24_4_62	62	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-5	S24_5_5	5	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-5	S24_5_20	20	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	**5.9**	<5		<10		<5	<5	<5	<5	<10		<5
S24-5	S24_5_25	25	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-5	S24_5_30	30	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-5	S24_5_40	40	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	**6.2**	<5		<10		<5	<5	<5	<5	<10		<5
S24-5	S24_5_50	50	<12000	<50000	<25000	<2500	<2500	<2500	<2500	<2500	<2500	<5000	<2500	<2500	<2500	<2500	<5000	<2500	<5000	<2500	<2500		<5000		<2500	<2500	<2500	<2500	<5000		<2500
S24-5	S24_5_60	60	<120	<500	<250	<25	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<50	<25	<50	<25	<25		<50		<25	<25	<25	<25	<50		<25
S24-6	S24_6_10	10	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-6	S24_6_20	20	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	**7.6**	<5		<10		<5	<5	<5	<5	<10		<5
S24-6	S24_6_25	25	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	**2.8J**	<5		<10		<5	<5	<5	<5	<10		<5
S24-6	S24_6_30	30	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-6	S24_6_40	40	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-6	S24_6_50	50	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	**5.8**	<5		<10		<5	<5	<5	<5	<10		<5
S24-6	S24_6_60	60	<25000	<100000	<50000	<5000	<5000	<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<5000	<10000	<5000	<10000	<5000	<5000		<10000		<5000	<5000	<5000	<5000	<10000		<5000
S24-7	S24_7_10	10	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-7	S24_7_20	20	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-7	S24_7_25	25	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-7	S24_7_30	30	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-7	S24_7_40	40	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
S24-7	S24_7_50	50	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	**1.1J**	<10	**3J**	<5		<10		<5	<5	<5	<5	<10		<5
S24-7	S24_7_60	60	<25	<100	<50	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<5	<5		<10		<5	<5	<5	<5	<10		<5
TMW-03	W-03-03-S0721_P_3_07219	3				<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<5	<2.5	<2.5	<2.5			
TMW-03	W-03-66-S0721_P_3_07219	3				<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<5	<2.5	<2.5	<2.5			
TMW-03	W-03-05-S0721_P_5_07219	5				<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<5	<2.5	<2.5	<2.5			
TMW-03	W-03-10-S0721_P_10_0721	10				<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<5	<2.5	<2.5	<2.5			
TMW-03	W-03-20-S0721_P_20_0721	20				<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**4.9**	<2.5	<2.5	<2.5		<5	<2.5	<2.5	<2.5			
TMW-03	W-03-30-S0721_P_30_0721	30				<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<5	<2.5	<2.5	<2.5			
TMW-03	W-03-40-S0721_P_40_0721	40				<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<5	<2.5	<2.5	<2.5			
TMW-03	W-03-50-S0721_P_50_0721	50				<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<5	<2.5	<2.5	<2.5			

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TABLE 1
PRE-REMEDIATION VOCS IN SOIL
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEI
LOS ANGELES, CALIFORNIA

Object Name	Sample Name	Sample Depth (feet)	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	t-Butanol	Tert-amyl methyl ether	Tert-butyl ethyl ether	tert-Butylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl chloride	m/p-xylene	o-Xylene	Xylenes (total)
S24-4	S24_4_20	20		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**100**	<10	<10	<10			<5
S24-4	S24_4_25	25		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**20**	<10	<10	<10			<5
S24-4	S24_4_30	30		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**19**	<10	<10	<10			<5
S24-4	S24_4_40	40		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**52**	<10	<10	<10			<5
S24-4	S24_4_50	50		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**150**	<10	<10	<10			<5
S24-4	S24_4_62	62		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**190**	<10	<10	<10			<5
S24-5	S24_5_5	5		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**11**	<10	<10	<10			<5
S24-5	S24_5_20	20		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**58**	<10	<10	<10			<5
S24-5	S24_5_25	25		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**3.8J**	<10	<10	<10			<5
S24-5	S24_5_30	30		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	<5	<10	<10	<10			<5
S24-5	S24_5_40	40		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**64**	<10	<10	<10			<5
S24-5	S24_5_50	50		<2500	<2500	<2500	<5000				<2500	<2500	<10000	<2500	<2500	<2500	**82000**	<5000	<5000	<5000			<2500
S24-5	S24_5_60	60		<25	<25	<25	<50				<25	<25	<100	<25	<25	<25	**310**	<50	<50	<50			<25
S24-6	S24_6_10	10		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**9.3**	<10	<10	<10			<5
S24-6	S24_6_20	20		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**140**	<10	<10	<10			<5
S24-6	S24_6_25	25		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**48**	<10	<10	<10			<5
S24-6	S24_6_30	30		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**28**	<10	<10	<10			<5
S24-6	S24_6_40	40		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**7.6**	<10	<10	<10			<5
S24-6	S24_6_50	50		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**100**	<10	<10	<10			<5
S24-6	S24_6_60	60		**1900J**	<5000	<5000	<10000				<5000	<5000	<20000	<5000	<5000	<5000	**340000**	<10000	<10000	<10000			<5000
S24-7	S24_7_10	10		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**2.4J**	<10	<10	<10			<5
S24-7	S24_7_20	20		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**42**	<10	<10	<10			<5
S24-7	S24_7_25	25		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**4.7J**	<10	<10	<10			<5
S24-7	S24_7_30	30		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	<5	<10	<10	<10			<5
S24-7	S24_7_40	40		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**3.3J**	<10	<10	<10			<5
S24-7	S24_7_50	50		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**69**	<10	<10	<10			<5
S24-7	S24_7_60	60		<5	<5	<5	<10				<5	<5	<20	<5	<5	<5	**36**	<10	<10	<10			<5
TMW-03	W-03-03-S0721_P_3_07219	3	<2.5	<2.5	<2.5	<2.5	<2.5				<2.5	<2.5		<2.5	<2.5	<2.5	**49**	<5	<5	<2.5			<2.5
TMW-03	W-03-66-S0721_P_3_07219	3	<2.5	<2.5	<2.5	<2.5	<2.5				<2.5	<2.5		<2.5	<2.5	<2.5	**49**	<5	<5	<2.5			<2.5
TMW-03	W-03-05-S0721_P_5_07219	5	<2.5	<2.5	<2.5	<2.5	<2.5				<2.5	<2.5		<2.5	<2.5	<2.5	**48**	<5	<5	<2.5			<2.5
TMW-03	W-03-10-S0721_P_10_0721	10	<2.5	<2.5	<2.5	<2.5	<2.5				<2.5	<2.5		<2.5	<2.5	<2.5	**48**	<5	<5	<2.5			<2.5
TMW-03	W-03-20-S0721_P_20_0721	20	<2.5	<2.5	<2.5	<2.5	<2.5				<2.5	<2.5		<2.5	<2.5	<2.5	**250**	<5	<5	<2.5			<2.5
TMW-03	W-03-30-S0721_P_30_0721	30	<2.5	<2.5	<2.5	<2.5	<2.5				<2.5	<2.5		<2.5	<2.5	<2.5	**24**	<5	<5	<2.5			<2.5
TMW-03	W-03-40-S0721_P_40_0721	40	<2.5	<2.5	<2.5	<2.5	<2.5				<2.5	<2.5		<2.5	<2.5	<2.5	**30**	<5	<5	<2.5			<2.5
TMW-03	W-03-50-S0721_P_50_0721	50	<2.5	<2.5	<2.5	<2.5	<2.5				<2.5	<2.5		<2.5	<2.5	<2.5	**92**	<5	<5	<2.5			<2.5

Notes:
All concentrations in µg/kg
J = Estimated concentration
Bold = Detected concentrations
Blank = Data not available or sample not analyzed
< = Less than

QA/QC by:_____
Date:_____

See notes on page 6

TABLE 2
VOCS IN SOIL VAPOR
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

Vapor Point	Sample Name	Sample Depth (feet)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1,2-Trichloro-trifluoroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	Benzene	Carbon tetrachloride	Chloroethane	Chloroform	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	meta- and para-Xylene	Methylene chloride	ortho-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride
10	10 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
11	11 10'	10	< 1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	4	< 1
12	12 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	3	< 1	< 1
22	22 12' DF-1	12	< 1		< 1	< 1	< 1	6		< 1	< 1	< 1	< 1	2	8	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
22	22 12' DF-5	12	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
22	22 20' DF-1	20	< 1		< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
27	27 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	3	< 1	< 1	< 1	< 1
28	28 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
31	31 10'	10	< 20	< 20	< 20	< 20	< 20	< 20	36	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
31	31 20'	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
42	42 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
43	43 10'	10	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	55	< 1	< 1
48	48 10'	10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
52	52 12' DF-20	12	< 20	< 20	< 20	< 20	< 20	< 20	38	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	275	< 20	< 20
52	52 20' DF-2	20	< 2	< 2	< 2	< 2	< 2	< 2	12	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
52	52 20' DF-2.5	20	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	95	< 2.5	< 2.5
A11	A11 10'	10	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
A14	A14-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
A16	A16 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
A18	A18-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
A23	A23 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
A7	A7 10' DF-2	10	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
A7	A7 20' DF-2.5	20	< 2.5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
B7	B7 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	4	< 1	3	< 1	< 1	< 1	< 1
BLD32G8	BLD32G8 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
C029S02	C029S02 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
C029S03	C029S03 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
C029S04	C029S04 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
C209S01	C209S01 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
C27	C27 10' DF-1	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2	< 1
C27	C27 10' DF-20	10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
D17	D17 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	3	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1
D18	D18 10'	10	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2
D23	D23 12' DF-20	12	< 20	< 20	< 20	< 20	< 20	< 20	47	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
D23	D23 20' DF-2.5	20	< 2.5	24	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	8	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
D23	D23 20' DF-20	20	< 20	< 20	< 20	< 20	< 20	< 20		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20		< 20	< 20
E8	E8 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2	< 1	< 1	< 1	< 1
F12	F12 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
F15	F15 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
F20	F20 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1
F2-1	F2-1 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	8	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2	< 1	< 1	< 1	< 1
F2-2	F2-2 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	11	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2	< 1	< 1	< 1	< 1
F28	F28 10' DF-5	10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	17	< 5	< 5
F28	F28 20' DF-1	20	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
F28	F28 20' DF-20	20	< 20	< 20	< 20	< 20	< 20	< 20	118	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
F3	F3 10'	10	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1
F35	F35 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
G12	G12 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

See notes on Page 4

TABLE 2
VOCS IN SOIL VAPOR
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

Vapor Point	Sample Name	Sample Depth (feet)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1,2-Trichloro-trifluoroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	Benzene	Carbon tetrachloride	Chloroethane	Chloroform	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	meta- and para-Xylene	Methylene chloride	ortho-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride
H23	H23 12' DF-2.5	12	< 2.5	6	< 2.5	< 2.5	< 2.5	3	53	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
H23	H23 12' DF-20	12	< 20	< 20	< 20	< 20	< 20	< 20	59	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20		< 20	< 20
I13	I13 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	5	< 1	< 1
I29	I29 10' DF-1	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
I29	I29 10' DF-40	10	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	93	< 40	< 40
J2	J2 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2	< 1	< 1	< 1	4	< 1	< 1	< 1	< 1
J41	J41 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	3	< 1	< 1	< 1	< 1	< 1	< 1	2	< 1	< 1	< 1	< 1	< 1
J6	J6 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	3	< 1	< 1
K14	K14 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
K35	K35 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
L5	L5 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	3	< 1	22	< 1	< 1
M10	M10 2'	2	< 1	< 1	< 1	< 1	< 1	< 1	18	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	11	< 1	< 1
M25	M25 10' DF-1	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M25	M25 10' DF-20	10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
M3	M3 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	21.6	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M31	M31 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M37	M37 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M41	M41 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
N4	N4 10'	10	< 1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2	< 1	< 1	< 1	4	< 1	9	< 1	< 1
N7	N7 7'	7	< 1	< 1	< 1	< 1	< 1	< 1	73	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	19	< 1	< 1
O10	O10 10'	10	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
O11	O11 10'	10	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
O29	O29-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
P11-1	P11-1 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
P11-2	P11-2 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
P13	P13 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
P13	P13 20'	20	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2	< 1	< 1
P14	P14 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1		< 1	< 1	< 1	< 1	< 1	< 1
P15	P15 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
P16	P16 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1
P18	P18 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1		< 1	< 1
P2	P2 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
P21	P21 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1
P24	P24 10'	10	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1
P3	P3 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
P7	P7 10'	10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
P8	P8-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
P9	P9 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PD 11	PD 11 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PD10	PD10 10' DF-1	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PD10	PD10 20' DF-1	20	< 1	< 1	< 1	< 1	< 1	< 1	19	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PD10	PD10 20' DF-10	20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	261	< 10	< 10
PD12	PD12 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1
PD12	PD12 20'	20	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PD13	PD13 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	6	< 1	< 1
PD13	PD13 20'	20	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	23	< 1	< 1
PD15	PD15 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	19	< 1	< 1
PD15	PD15 20'	20	< 1	< 1	< 1	< 1	< 1	< 1	15	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

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TABLE 2
VOCS IN SOIL VAPOR
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

Vapor Point	Sample Name	Sample Depth (feet)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1,2-Trichloro-trifluoroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	Benzene	Carbon tetrachloride	Chloroethane	Chloroform	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	meta- and para-Xylene	Methylene chloride	ortho-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride
PD4	PD4 12'	12	< 20	< 20	< 20	< 20	< 20	< 20	38	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
PD4	PD4 20'	20	< 20	< 20	< 20	< 20	< 20	< 20		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
PD5	PD5-10 DF-1	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PD5	PD5-10 DF-20	10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
PD5	PD5-20 DF-20	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20		< 20	< 20
PD6	PD6-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PD6	PD6-20	20	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PD7	PD7 10'	10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
PD7	PD7 20'	20	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
PD8	PD8-10	10	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
PD8	PD8-20	20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
PD9	PD9-10 DF-1	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PD9	PD9-10 DF-40	10	< 40	< 40	< 40	< 40	< 40	< 40		< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
PD9	PD9-20 DF-40	20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Q14	Q14 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	4	< 1	< 1
Q16	Q16 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	4	< 1	< 1
Q20	Q20 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1
Q21	Q21 10'	10	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1		< 1	< 1	< 1	< 1
Q31	Q31 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
R21	R21 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
R25	R25 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
S15	S15 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1		< 1	< 1
S16	S16-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
S2	S2 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	67	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	25	< 1	< 1	9	< 1	< 1
S22	S22 10'	10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
S25	S25 12' DF-20	12	< 20	< 20	< 20	< 20	< 20	< 20		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
S25	S25 20' DF-5	20	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
S26	S26 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
S32	S32 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
S3-2	S3-2 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	79	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	3	< 1	< 1	< 1	7	< 1	< 1	< 1	< 1
S37-1	S37-1 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	3	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
S37-1	S37-1 20'	20	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	20	< 1	< 1
S37-2	S37-2 10'	10	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
S37A	S37A 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
S38	S38 10'	10	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
S39	S39 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
S41	S41 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
S67	S67-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
S67	S67-20	20	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
S69-1	S69-1 10' DF-2	10	< 2		< 2	< 2	< 2				< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
S69-1	S69-1 10' DF-20	10	< 20		< 20	< 20	< 20	< 20		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20		< 20	< 20
S69-1	S69-1 20' DF-1	20	< 1	< 1	< 1		< 1		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
S69-1	S69-1 20' DF-5	20	< 5		< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5
S69-2	S69-2 10'	10	< 20		< 20	< 20	< 20	< 20		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20		< 20	< 20
S7	S7 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	3	< 1	< 1	2	< 1
SG 22	SG 22-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.4	< 1	< 1	< 1	< 1	< 1
SG 26	SG 26-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1
SG 56	SG 56-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

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TABLE 2
VOCS IN SOIL VAPOR
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

Vapor Point	Sample Name	Sample Depth (feet)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1,2-Trichloro-trifluoroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	Benzene	Carbon tetrachloride	Chloroethane	Chloroform	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	meta- and para-Xylene	Methylene chloride	ortho-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride
SG B22	SG B22-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SG C10	SG C10-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SG C13	SG C13-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SG C31	SG C31-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SG F6	SG F6-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SG I16	SG I16-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SG I18	SG I18-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SG L19	SG L19-10	10	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	23	< 1	< 1
SG P5	SG P5-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	22	< 1	< 1	< 1	< 1	< 1
SG T41	SG T41-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.5	< 1	< 1	< 1	< 1	< 1
SG V41	SG V41-10	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
U18	U18 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1
U24	U24 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2	< 1	< 1
U29	U29 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
V20	V20 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
V27	V27 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
V33	V33 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
V38	V38 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
W15	W15 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
W21	W21 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
W30	W30 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
W35	W35 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1
X41	X41 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	6	< 1	< 1	< 1	< 1	< 1	< 1
Y21	Y21 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Y27	Y27 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Y37	Y37 10'	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Notes:
All concentrations reported in µg/l.
Blanks = Data not available or sample not analyzed

QA/QC by: _____

Date: _____

See notes on Page 4

TABLE 3
DETECTED CONCENTRATIONS OF VOCS IN GROUNDWATER
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

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	Chlorlo form	cis-1,2-DCE	trans-1,2-DCE	MEK (2-butanone)	Methylene chloride	MIBK	PCE	TCE	Toluene	Ethyl Benzene	Xylenes (total)	Trichlorofluoro 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	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TMW-3	7/31/1998	<50	<50	<50	**200**	<50	<50		<50	<50	<50	<50	<50	<50		<250		<50	**8100**	<50	<50	<100	<50
TMW-3	9/22/1998	<100	<100	<100	**150**	<100	<100		<100	<100	<100	<100	<100	<100		<500		<100	**12000**	<100	<100	<200	<100
TMW-3	10/20/1998	<50	<50	<50	**330**	<50	<50		<50	<50	<50	<50	<50	<50		<250		<50	**9900**	<50	<50	<100	<50
TMW-3	3/5/1999	<50	<50	<50	**210**	<50	<50		<50	<50	<50	<50	<50	<50		<250		<50	**8200**	<50	<50	<100	<50
TMW-3	7/15/1999	<50	<50	<50	**340**	<50	<50		<50	<50	<50	<50	<50	<50		<250		<50	**7800**	<50	<50	<100	<50
TMW-3	6/22/2000	<10	<10	<10	**96**	<10			<10	<10	<10	<10	**12**	<10		<50		<10	**3500**	<10	<10	<20	<10
TMW-3	1/29/2001	<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	7/19/2001	**22**	<50	**24**	**350**	<25	<50	<500	<50	<50	<25	<50	**42**	<50	<250	<50	<250	<50	**8800**	**20**	<50	<50	<100
TMW-3	3/26/2002	**15J**	<50	<50	**140**	<25	<50	<500	<50	<50	<25	<50	<50	<50	<250	<50		<50	**4000**	<50	<50	<50	<100
TMW-3	09/19/02	**19**	**8.5J**	**10**	**160**	<5	<10	<100	<10	<10	<5	**9.9J**	**30**	<10	<50	<10	<50	<10	**4500**	<10	<10	<10	<20

Notes:
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
MIBK = Methyl isobutyl ketone
PCE = Tetrachloroethene
TCE = Trichloroethene
Dup = Duplicate
ug/L = micrograms per liter
< = less than detection shown
Bold = Detected concentrations
Blank = Sample not analyzed for compound shown
J = Estimated Result. Result is less than reporting limit

QA/QC: _____
Date: _____

TABLE 4
SIMULPROBE MULTI-DEPTH GROUNDWATER SAMPLE RESULTS
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

Object Name	Sample Name	Collection Date & Time	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloro-methane	Bromodichloro-methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform
DDS-2-1	DDS2_1/71	6/7/2001 9:00	<5	15	<5	<5	<5	13	<5	<5	<5	<5	<5	<10	<5	<5	<2.5	<5	<5	<5	<5	<25	<25	<5	<25	<5	<25	<50	<100	<100	<5	<5	<5	<5	<5	<10	7.8	<2.5	<5	<10	1.5J
DDS-2-1	DDS2_1/85	6/7/2001 10:05	<1	0.98J	<1	<1	0.37J	4.1	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	4.9J	<20	<20	<1	<1	<1	<1	<1	<2	0.48J	<0.5	<1	<2	4.1
DDS-2-1	DDS2_1/95	6/7/2001 11:00	<1	1.2	<1	<1	0.44J	4.6	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	6J	<20	<20	<1	<1	<1	<1	<1	<2	<1	<0.5	<1	<2	3
DDS-2-1	DDS2_1/115	6/7/2001 13:10	<1	0.87J	<1	<1	0.21J	1.7	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	5.1	<5	<1	<5	<1	<5	8.9J	<20	<20	<1	<1	<1	<1	<1	<2	8.7	<0.5	<1	<2	0.48J
DDS-2-2	DDS 2_2/72	6/6/2001 8:30	<50	<50	<50	<50	<50	280	<50	<50	<50	<50	<50	<100	<50	<50	<25	<50	<50	<50	<50	<250	<250	<50	<250	<50	<250	<500	<1000	<1000	<50	<50	<50	<50	<50	<100	<50	<25	<50	<100	10J
DDS-2-2	DDS 2_2/82	6/6/2001 9:35	<10	<10	<10	<10	<10	34	<10	<10	<10	<10	<10	<20	<10	<10	<5	<10	<10	<10	<10	<50	<50	<10	<50	<10	<50	<100	<200	<200	<10	<10	<10	<10	<10	<20	<10	<5	<10	<20	2.4J
DDS-2-2A	DDS_2_2A/94	6/7/2001 8:38	<2.5	<2.5	<2.5	<2.5	<2.5	10	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<1.2	<2.5	<2.5	<2.5	<2.5	<12	<12	<2.5	<12	<2.5	<12	<25	<50	<120	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<1.2	<2.5	<5	1.7J
DDS-2-2	DDS 2_2/115	6/6/2001 12:07	<2	5.6	<2	<2	0.73J	5.1	<2	<2	<2	<2	<2	<4	<2	<2	<1	<2	<2	<2	<2	<10	<10	<2	<10	<2	<10	<20	<40	<40	<2	<2	<2	<2	<2	<4	19	<1	<2	<4	0.75J
DDS-2-3	DDS2_3/77	6/5/2001 9:09	<50	<50	<50	<50	<50	45J	<50	<50	<50	<50	<50	<100	<50	<50	<25	<50	<50	<50	<50	<250	<250	<50	<250	<50	<250	<500	<1000	<1000	<50	<50	<50	<50	<50	<100	<50	<25	<50	<100	<50
DDS-2-3	DDS2_3/96	6/5/2001 10:07	<12	<12	<12	<12	<12	3.5J	<12	<12	<12	<12	<12	<25	<12	<12	<6.2	<12	<12	<12	<12	<62	<62	<12	<62	<12	<62	<120	<250	<250	<12	<12	<12	<12	<12	<25	<12	<6.2	<12	<25	4.2J
DDS-2-3	DDS2_3/113	6/5/2001 11:10	<25	110	<25	<25	<25	12J	<25	<25	<25	<25	<25	<50	<25	<25	<12	<25	<25	<25	<25	<120	<120	<25	<120	<25	<120	<250	<500	<500	<25	<25	<25	<25	<25	<50	<25	<12	<25	<50	<25
DDS-2-4	DDS2_4/80	6/4/2001 9:16	<12	<12	<12	<12	<12	3.3J	<12	<12	<12	<12	<12	<25	<12	<12	<6.2	<12	<12	<12	<12	<62	<62	<12	<62	<12	<62	<120	<250	<250	<12	<12	<12	<12	<12	<25	<12	<6.2	<12	<25	12
DDS-2-4	DDS2_4/96	6/4/2001 9:55	<12	8.9J	<12	<12	<12	5.4J	<12	<12	<12	<12	<12	<25	<12	<12	<6.2	<12	<12	<12	<12	<62	<62	<12	<62	<12	<62	<120	<250	<250	<12	<12	<12	<12	<12	<25	8.7J	<6.2	<12	<25	7.2J
DDS-2-4	DDS2_4/116	6/4/2001 12:10	<25	<25	<25	<25	<25	6.3J	<25	<25	<25	<25	<25	<50	<25	<25	<12	<25	<25	<25	<25	<120	<120	<25	<120	<25	<120	<250	<500	<500	<25	<25	<25	<25	<25	<50	8.2J	<12	<25	<50	7.5J
DDS-2-5A	DDS 2_5A/71	6/6/2001 13:09	<50	<50	<50	<50	<50	14J	<50	<50	<50	<50	<50	<100	<50	<50	<25	<50	<50	<50	<50	<250	<250	<50	<250	<50	<250	<500	<1000	<1000	<50	<50	<50	<50	<50	<100	<50	<25	<50	<100	17J
DDS-2-5A	DDS 2_5A/73	6/6/2001 14:28	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<500	<250	<250	<120	<250	<250	<250	<250	<1200	<1200	<250	<1200	<250	<1200	<2500	<5000	<5000	<250	<250	<250	<250	<250	<500	<250	<120	<250	<500	<250
DDS-2-5	DDS_2_5/78	6/4/2001 9:55	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<500	<250	<250	<120	<250	<250	<250	<250	<1200	<1200	<250	<1200	<250	<1200	<2500	<5000	<5000	<250	<250	<250	<250	<250	<500	<250	<120	<250	<500	<250
DDS-2-5	DDS_2_5/96	6/4/2001 10:50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<100	<50	<50	<25	<50	<50	<50	<50	<250	<250	<50	<250	<50	<250	<500	<1000	<1000	<50	<50	<50	<50	<50	<100	<50	<25	<50	<100	11J
DDS-2-5	DDS_2_5/115	6/4/2001 11:59	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<25	<25	<12	<25	<25	<25	<25	<120	<120	<25	<120	<25	<120	<250	<500	<500	<25	<25	<25	<25	<25	<50	<25	<12	<25	<50	5.2J
DDS-2-6A	DDS 2_6A/73	6/5/2001 16:55	<12	<12	<12	<12	<12	150	<12	<12	<12	<12	<12	<25	<12	<12	4.3J	<12	<12	<12	<12	<62	<62	<12	<62	<12	<62	<120	<250	<250	<12	<12	<12	<12	<12	<25	140	<6.2	<12	<25	8.3J
DDS-2-6	DDS 2_6/78	6/4/2001 15:10	<5	<5	<5	<5	<5	44	<5	<5	<5	<5	<5	<10	<5	<5	<2.5	<5	<5	<5	<5	<25	<25	<5	<25	<5	<25	<50	<100	<100	<5	<5	<5	<5	<5	<10	<5	<2.5	<5	<10	16
DDS-2-6A	DDS 2_6A/85	6/6/2001 8:30	<5	6.7	<5	2.2J	1.4J	26	<5	<5	<5	<5	<5	<10	<5	<5	2.1J	<5	<5	<5	<5	<25	<25	<5	<25	<5	<25	<50	<100	<100	<5	<5	<5	<5	<5	<10	<5	<2.5	<5	<10	7.5
DDS-2-6A	DDS 2_6A/90	6/6/2001 9:32	<2	2.1	<2	0.77J	0.43J	7.7	<2	<2	<2	<2	<2	<4	<2	<2	<1	<2	<2	<2	<2	<10	<10	<2	<10	<2	<10	<20	<40	<40	<2	<2	<2	<2	<2	<4	14	<1	<2	<4	12
DDS-2-6	DDS_2_6/113	6/4/2001 18:22	<2	2.3	<2	<2	0.53J	5.2	<2	<2	<2	<2	<2	<4	<2	<2	<1	<2	<2	<2	<2	<10	<10	<2	<10	<2	<10	6.4J	<40	<40	<2	<2	<2	<2	<2	<4	49	<1	<2	<4	1.3J
DDS-2-7	DDS_2_7/78	7/9/2001 15:25	<20	<20	<20	<20	<20	100	<20	<20	<20	<20	<20	<40	<20	<20	<10	<20	<20	<20	<20	<100	<100	<20	<100	<20	<100	<200	<400	<400	<20	<20	<20	<20	<20	<40	<20	<10	<20	<40	5.5J
DDS-2-7	DDS_2_7/96	7/10/2001 7:40	<2	1J	<2	<2	0.66J	12	<2	<2	<2	<2	<2	<4	<2	<2	<1	<2	<2	<2	<2	<10	<10	<2	<10	<2	<10	<20	<40	<40	<2	<2	<2	<2	<2	<4	<2	0.64J	<2	<4	2.1
DDS-2-7	DDS_2_7/115	7/10/2001 8:30	<1	0.72J	<1	<1	0.32J	4.2	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20	<20	<1	<1	<1	<1	<1	<2	31	<0.5	<1	<2	1.3
DDS-2-8	DDS_2_8/70	7/11/2001 15:05	<20	<20	<20	<20	<20	70	<20	<20	<20	<20	<20	<40	<20	<20	<10	<20	<20	<20	<20	<100	<100	<20	<100	<20	<100	<200	<400	<400	<20	<20	<20	<20	<20	<40	<20	<10	<20	<40	13J
DDS-2-8	DDS_2_8/91	7/11/2001 16:16	<2.5	<2.5	<2.5	<2.5	<2.5	7	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<1.2	<2.5	<2.5	<2.5	<2.5	<12	<12	<2.5	<12	<2.5	<12	<25	<50	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<5	29	<1.2	<2.5	<5	16
DDS-2-8	DDS_2_8/116	7/11/2001 18:44	<2	<2	<2	<2	<2	3.2	<2	<2	<2	<2	<2	<4	<2	<2	<1	<2	<2	<2	<2	<10	<10	<2	<10	<2	<10	<20	<40	<40	<2	<2	<2	<2	<2	<4	24	<1	<2	<4	6.6
DDS-2-9	DDS_2_9_74	7/9/2001 11:20	<1	<1	<1	<1	<1	3	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20	<20	<1	<1	<1	<1	<1	<2	29	<0.5	<1	<2	9.3
DDS-2-9	DDS_2_9_96.5	7/9/2001 12:50	<10	<10	<10	<10	<10	67	<10	<10	<10	<10	<10	<20	<10	<10	<5	<10	<10	<10	<10	<50	<50	<10	<50	<10	<50	<100	<200	<200	<10	<10	<10	<10	<10	<20	<10	<5	<10	<20	21
DDS-2-10	DDS_2_10/73	7/10/2001 12:08	<5	<5	<5	<5	<5	13	<5	<5	<5	<5	<5	<10	<5	<5	<2.5	<5	<5	<5	<5	<25	<25	<5	<25	<5	<25	<50	<100	<100	<5	<5	<5	<5	<5	<10	<5	<2.5	<5	<10	61
DDS-2-10	DDS_2_10/96	7/10/2001 13:30	<2.5	<2.5	<2.5	<2.5	<2.5	24	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<1.2	<2.5	<2.5	<2.5	<2.5	<12	<12	<2.5	<12	<2.5	<12	<25	<50	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<1.2	<2.5	<5	15
DDS-2-10	DDS_2_10/116	7/10/2001 14:55	<2.5	<2.5	<2.5	<2.5	<2.5	15	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<1.2	<2.5	<2.5	<2.5	<2.5	<12	<12	<2.5	<12	<2.5	<12	<25	<50	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<1.2	<2.5	<5	21
DDS-2-11	DDS_2_11/72	7/9/2001 11:57	<20	<20	<20	<20	<20	120	<20	<20	<20	<20	<20	<40	<20	<20	<10	<20	<20	<20	<20	<100	<100	<20	<100	<20	<100	<200	<400	<400	<20	<20	<20	<20	<20	<40	<20	<10	<20	<40	73
DDS-2-11	DDS_2_11/86	7/9/2001 12:46	<5	<5	<5	<5	<5	15	<5	<5	<5	<5	<5	<10	<5	<5	<2.5	<5	<5	<5	<5	<25	<25	<5	<25	<5	<25	<50	<100	<100	<5	<5	<5	<5	<5	<10	10	<2.5	<5	<10	9.3
DDS-2-11	DDS_2_11/115	7/9/2001 13:46	<5	<5	<5	<5	<5	11	<5	<5	<5	<5	<5	<10	<5	<5	<2.5	<5	<5	<5	<5	<25	<25	<5	<25	<5	<25	<50	<100	<100	<5	<5	<5	<5	<5	<10	<5	<2.5	<5	<10	16
DDS-2-12	DDS_2_12/77	7/10/2001 8:15	<10	<10	<10	<10	4J	560	<10	<10	<10	<10	<10	<20	<10	<10	<5	<10	<10	<10	<10	<50	<50	<10	<50	<10	<50	<100	<200	<200	<10	<10	<10	<10	<10	<20	<10	<5	<10	<20	19
DDS-2-12A	DDS_2_12A/92	7/10/2001 13:50	<1	<1	<1	<1	<1	26	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20	<20	<1	<1	<1	<1	<1	<2	<1	<0.5	<1	<2	13
DDS-2-13	DDS_2_13/75	7/26/2001 8:03	<2.5	<2.5	<2.5	<2.5	0.82J	8.9	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<1.2	<2.5	<2.5	<2.5	<2.5	<12	<12	<2.5	<12	<2.5	<12	<25	<50	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<5	11	<1.2	<2.5	<5	9
DDS-2-13	DDS_2_13/89	7/26/2001 9:20	<1	<1	<1	<1	<1	0.76J	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	13	<20	<20	<1	<1	<1	<1	<1	<2	92	<0.5	<1	<2	7.8
DDS-2-13	DDS_2_13/116	7/26/2001 11:20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20	<20	<1	<1	<1	<1	<1	<2	2.3	<0.5	26	<2	<1
DDS-2-14	DDS_2_14/69	7/28/2001 18:40	<5	5	<5	<5	2.1J	120	<5	<5	<5	<5	<5	<10	<5	<5	2.4J	<5	<5	<5	<5	<25	<25	<5	<25	<5	<25	<50	<100	<100	<5	<5	<5	<5	<5	<10	<5	2.2J	<5	<10	2100
DDS-2-14	DDS_2_14/86.5	7/29/2001 8:55	<1	<1	<1	<1	<1	6.8	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20	<20	<1	<1	<1	<1	<1	<2	1.1	<0.5	<1	<2	33
DDS-2-14	DDS_2_14/111.5	7/29/2001 22:50	<5	<5	<5	<5	<5	14	<5	<5	<5	<5	<5	<10	<5	<5	<2.5	<5	<5	<5	<5	<25	<25	<5	<25	<5	<25	<50	<100	<100	<5	<5	<5	<5	<5	<10	3.3J	<2.5	18	<10	24
DDS-2-15	DDS_2_15/72.5	7/28/2001 9:10	<2	<2	<2	<2	<2	13	<2	<2	<2	<2	<2	<4	<2	<2	<1	<2	<2	<2	<2	<10	<10	<2	<10	<2	<10	<20	<40	<40	<2	<2	<2	<2	<2	<4	<2	<1	<2	<4	660
DDS-2-15	DDS_2_15/91.5	7/28/2001 13:45	<5	<5	<5	<5	<5	81	<5	3J	<5	<5	<5	<10	<5	<5	<2.5	<5	<5	<5	<5	<25	<25	<5	<25	<5	<25	<50	<100	<100	<5	<5	<5	<5	<5	<10	2.5J	<2.5	<5	<10	77
DDS-2-15	DDS_2_15/116	7/28/2001 14:50	<10	<10	<10	<10	<10	74	<10	<10	<10	<10	<10	<20	<10	<10	<5	<10	<10	<10	<10	<50	<50	<10	<50	<10	<50	<100	<200	<200	<10	<10	<10	<10	<10	<20	<10	<5	<10	<20	94
DDS-2-16A	DDS_2_16A/71	7/25/2001 9:57	<10	3.1J	<10	<10	<10	73	<10	<10	<10	<10	<10	<20	<10	<10	<5	<10	<10	<10	<10	<50	<50	<10	<50	<10	<50	<100	<200	<200	<10	<10	<10	<10	<10	<20	5J	<5	<10	<20	1700
DDS-2-16A	DDS_2_16A/91	7/25/2001 10:59	<5	<5	<5	<5	<5	64	<5	<5	<5	<5	<5	<10	<5	<5	<2.5	<5	<5	<5	<5	<25	<25	<5	<25	<5	<25	<50	<100	<100	<5	<5	<5	<5	<5	<10	3.6J	<2.5	<5	<10	<5
DDS-2-16A	DDS_2_16A/117	7/25/2001 13:15	<5	<5	<5	<5	<5	23	<5	<5	<5	<5	<5	<10	<5	<5	<2.5	<5	<5	<5	<5	<25	<25	<5	<25	<5	<25	<50	<100	<100	<5	<5	<5	<5	<5	<10	3.2J	<2.5	<5	<10	240
DDS-2-17	DDS_2_17/72	7/26/2001 7:50	<2.5	<2.5	<2.5	<2.5	1.6J	15	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<1.2	<2.5	<2.5	<2.5	<2.5	<12	<12	<2.5	<12	<2.5	<12	<25	<50	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<5	2.4J	<1.2	<2.5	<5	480
DDS-2-17	DDS_2_17/91	7/26/2001 8:40	<2.5	<2.5	<2.5	3.9	2.6	22	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	3.7	<2.5	<2.5	<2.5	<2.5	<12	<12	<2.5	<12	<2.5	<12	<25	<50	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<5	1.5J	<1.2	<2.5	<5	89
DDS-2-17	DDS_2_17/116	7/26/2001 9:45	<25	<25	<25	<25	<25	34	<25	<25	<25	<25	<25	<50	<25	<25	<12	<25	<25	<25	<25	<120	<120	<25	<120	<25	<120	<250	<500	<500	<25	<25	<25	<25	<25	<50	<25	<12	<25	<50	44
DDS-2-18	DDS_2_18/73.5	7/26/2001 14:55	<2.5	<2.5	<2.5	<2.5	4.2	84	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<1.2	<2.5	<2.5	<2.5	<2.5	<12	<12	<2.5	<12	<2.5	<12	<25	<50	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<5	49	<1.2	<2.5	<5	19
DDS-2-18	DDS_2_18/90	7/26/2001 15:55	<2.5	<2.5	<2.5	2.8	8	160	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	4.2	<2.5	<2.5	<2.5	<2.5	<12	<12	<2.5	<12	<2.5	<12	<25	<50	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<5	35	<1.2	<2.5	<5	9.8
DDS-2-18	DDS_2_18/115	7/26/2001 17:15	<2	<2	<2	1.2J	1.4J	20	<2	<2	<2	<2	<2	<4	<2	<2	1.1	<2	<2	<2	<2	<10	<10	<2	<10	<2	<10	<20	<40	<40	<2	<2	<2	<2	<2	<4	<2	<1	<2	<4	5.5

See notes on page 4

TABLE 4
SIMULPROBE MULTI-DEPTH GROUNDWATER SAMPLE RESULTS
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

Object Name	Sample Name	Collection Date & Time	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloro-methane	Bromodichloro-methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform
DDS-2-19	DDS_2_19/73	7/27/2001 14:00	<1	<1	<1	<1	<1	**11**	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20	<20	<1	<1	<1	<1	<1	<2	**13**	<0.5	<1	<2	**1.6**
DDS-2-19	DDS_2_19/92	7/27/2001 14:53	<1	<1	<1	<1	<1	**1.4**	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20	<20	<1	<1	<1	<1	<1	<2	**15**	<0.5	<1	<2	**2**
DDS-2-19	DDS_2_19/113	7/27/2001 16:04	<10	<10	<10	<10	<10	**3.3J**	<10	<10	<10	<10	<10	<20	<10	<10	<5	<10	<10	<10	<10	<50	<50	<10	<50	<10	<50	<100	<200	<200	<10	<10	<10	<10	<10	<20	**61**	<5	<10	<20	**5.2J**
DDS-2-20	DDS_2_20/73	7/30/2001 12:05	<2	<2	<2	<2	<2	**10**	<2	<2	<2	<2	<2	<4	<2	<2	<1	<2	<2	<2	<2	<10	<10	<2	<10	<2	<10	<20	<40	<40	<2	<2	<2	<2	<2	<4	**2.7**	<1	<2	<4	**3.4**
DDS-2-20	DDS_2_20/89	7/30/2001 13:43	<1	<1	<1	<1	<1	**3.4**	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20	<20	<1	<1	<1	<1	<1	<2	**17**	<0.5	<1	<2	**2.4**
DDS-2-20	DDS_2_20/111	7/30/2001 15:07	<1	<1	<1	<1	<1	**3.2**	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20	<20	<1	<1	<1	<1	<1	<2	**71**	<0.5	<1	<2	**3.3**
DDS-2-21	DDS_2_21/69.8	7/25/2001 9:40	<1	<1	<1	<1	<1	**0.76J**	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20	<20	<1	<1	<1	<1	<1	<2	**13**	<0.5	<1	<2	**3.2**
DDS-2-21	DDS_2_21/86.8	7/25/2001 10:45	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20	<20	<1	<1	<1	<1	<1	<2	**14**	<0.5	<1	<2	**1.3**
DDS-2-21	DDS_2_21/110.8	7/25/2001 12:00	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20	<20	<1	<1	<1	<1	<1	<2	**8.5**	<0.5	<1	<2	**0.76J**
DDS-2-22	DDS_2_22/72	9/28/2001 13:00	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<20	<10	<10	<5	<10	<10	<10	<10	<50	<50	<10	<50	<10	<50	<100	<200	<200	<10	<10	<10	<10	<10	<20	<10	<5	**330**	<20	**110**
DDS-2-22	DDS_2_22/94	9/28/2001 14:38	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<200	<100	<100	<50	<100	<100	<100	<100	<500	<500	<100	<500	<100	<500	<1000	<2000	<2000	<100	<100	<100	<100	<100	<200	**130**	<50	**6000**	<200	**240**
DDS-2-22	DDS_2_22/120	9/28/2001 16:28	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<100	<50	<50	<25	<50	<50	<50	<50	<250	<250	<50	<250	<50	<250	<500	<1000	<1000	<50	<50	<50	<50	<50	<100	<50	<25	**900**	<100	**71**
DDS-2-23	DDS_2_23_71	9/25/2001 8:20	<10	<10	<10	<10	<10	**4.2J**	<10	<10	<10	<10	<10	<20	<10	<10	<5	<10	<10	<10	<10	<50	<50	<10	<50	<10	<50	<100	<200	<200	<10	<10	<10	<10	<10	<20	<10	<5	**580**	<20	**84**
DDS-2-23	DDS_2_23_95	9/25/2001 10:25	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<200	<100	<100	<50	<100	<100	<100	<100	<500	<500	<100	<500	<100	<500	<1000	<2000	<2000	<100	<100	<100	<100	<100	<200	<100	<50	**6300**	<200	<100
DDS-2_23	DDS_2_23_120	9/25/2001 11:55	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<100	<50	<50	<25	<50	<50	<50	<50	<250	<250	<50	<250	<50	<250	<500	<1000	<1000	<50	<50	<50	<50	<50	<100	<50	<25	**3600**	<100	<50
DDS-2-24	DDS_2_24_75	9/26/2001 7:55	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<100	<50	<50	<25	<50	<50	<50	<50	<250	<250	<50	<250	<50	<250	<500	<1000	<1000	<50	<50	<50	<50	<50	<100	<50	<25	<50	<100	**3400**
DDS-2-24	DDS_2_24_96	9/26/2001 8:55	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<25	<25	<12	<25	<25	<25	<25	<120	<120	<25	<120	<25	<120	<250	<500	<500	<25	<25	<25	<25	<25	<50	**69**	<12	<25	<50	**1400**
DDS-2-24	DDS_2_24_121	9/26/2001 10:05	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<25	<25	<12	<25	<25	<25	<25	<120	<120	<25	<120	<25	<120	<250	<500	<500	<25	<25	<25	<25	<25	<50	**10J**	<12	**24J**	<50	**180**
DDS-2-25	DDS_2_25/78	9/27/2001 14:23	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<1	<2	<2	<2	<2	<10	<10	<2	<10	<2	<10	<20	<40	<40	<2	<2	<2	<2	<2	<4	**1.2J**	**3.7**	<2	<4	**160**
DDS-2-25	DDS_2_25/99	9/27/2001 15:48	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20	<20	<1	<1	<1	<1	<1	<2	**24**	<0.5	<1	<2	**2.2**
DDS-2-25	DDS_2_25/126	9/28/2001 8:55	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	**11**	<20	<20	<1	<1	<1	<1	<1	<2	**65**	<0.5	**9.8**	<2	**8.2**
DDS-2-26	DDS_2_26/72	9/26/2001 16:25	<2	<2	<2	<2	<2	**1.6J**	<2	<2	<2	<2	<2	<4	<2	<2	<1	<2	<2	<2	<2	<10	<10	<2	<10	<2	<10	<20	<40	<40	<2	<2	<2	<2	<2	<4	**76**	<1	**17**	<4	**25**
DDS-2-26	DDS_2_26/94	9/27/2001 7:55	<25	<25	<25	<25	<25	**25**	<25	<25	<25	<25	<25	<50	<25	<25	<12	<25	<25	<25	<25	<120	<120	<25	<120	<25	<120	<250	<500	<500	<25	<25	<25	<25	<25	<50	**9.1J**	<12	<25	<50	**260**
DDS-2-26	DDS_2_26/120	9/27/2001 9:00	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120	<250	<120	<120	<62	<120	<120	<120	<120	<620	<620	<120	<620	<120	<620	<1200	<2500	<2500	<120	<120	<120	<120	<120	<250	<120	<62	<120	<250	**58J**
DDS-2-27	DDS_2_27_94	5/30/2002 0:00	<1	<1	<1	<1	**0.44J**	**1.6**	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20	<20	<1	<1	<1	<1	<1	<2	**0.33J**	<0.5	**1.4**	<2	**37**
DDS-2-27	DDS_2_27_122	5/30/2002 0:00	<1	<1	<1	<1	<1	**0.80J**	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20	<20	<1	<1	<1	<1	**1.2**	<2	**0.47J**	<0.5	**1.2**	<2	**2**
DDS-2-28	DDS_2_28_93	5/29/2002 0:00	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<20	<10	<10	<5	<10	<10	<10	<10	<50	<50	<10	<50	<10	<50	<100	<200	<200	<10	<10	<10	<10	<10	<20	<10	<5	**430**	<20	**87**
DDS-2-28	DDS_2_28_120	5/29/2002 0:00	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<0.5	<1	<1	<1	<1	<5	<5	<1	<5	<1	<5	<10	<20	<20	<1	<1	<1	**10**	**4.3**	<2	<1	<0.5	**25**	<2	**24**
DDS-2-29	DDS-2-29-90	5/28/2002 0:00	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<5000	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<12000	<12000	<2500	<12000	<2500	<12000	<25000	<50000	<50000	<2500	<2500	<2500	<2500	<2500	<5000	<2500	<1200	**100000**	<5000	**18000**
DDS-2-29	DDS-2-29-130	5/28/2002 0:00	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<500	<500	<100	<500	<100	<500	<1000	<2000	<2000	<100	<100	<100	<100	<100	<200	<100	<50	**5700**	<200	**1100**

NOTES:
Samples analyzed by EPA Method 8260B
Results reported in micrograms per liter (ug/l).
< = Less than detection limit shown
Bold = Detected concentrations
J = Estimated Result. Result is less than reporting limit

See notes on page 4

TABLE 4
SIMULPROBE MULTI-DEPTH GROUNDWATER SAMPLE
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

Object Name	Sample Name	Collection Date & Time	Chloromethane	cis-1,2-Dichloroethene	Dibromochloro-methane	Dichlorodifluoro-methane	Ethylbenzene	Hexachloro-butadiene	Iodomethane	Isopropyl ether	Isopropylbenzene	Methyl tert-butyl ether	Methylene chloride	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	t-Butanol	Tert-amyl methyl ether	Tert-butyl ethyl ether	tert-Butylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoro-methane	Vinyl acetate	Vinyl chloride	Xylenes (total)
DDS-2-1	DDS2_1/71	6/7/2001 9:00	<10	<5	<5	<5	**0.32J**	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<120	<10	<10	<5	<5	<50	**35**	<5	**360**	<10	<25	<2.5	**3.2J**
DDS-2-1	DDS2_1/85	6/7/2001 10:05	<2	**0.3J**	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	<1	<10	**1.3**	<1	**72**	<2	<5	<0.5	<1
DDS-2-1	DDS2_1/95	6/7/2001 11:00	<2	**0.31J**	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	<1	<10	**1.4**	<1	**90**	<2	<5	<0.5	<1
DDS-2-1	DDS2_1/115	6/7/2001 13:10	<2	<1	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	<1	<10	**2.2**	<1	**22**	<2	<5	<0.5	<1
DDS-2-2	DDS 2_2/72	6/6/2001 8:30	<100	<50	<50	<50	<50	<50	<100	<100	<50	<50	<50	<50	<50	<50	<50	<50	<1200	<100	<100	<50	<50	<500	**51**	<50	**3600**	<100	<250	<25	<50
DDS-2-2	DDS 2_2/82	6/6/2001 9:35	<20	<10	<10	<10	<10	<10	<20	<20	<10	<10	<10	<10	<10	<10	<10	<10	<250	<20	<20	<10	<10	<100	**4.4J**	<10	**580**	<20	<50	<5	<10
DDS-2-2A	DDS_2_2A/94	6/7/2001 8:38	<5	**3.7**	<2.5	<2.5	<2.5	<2.5	<5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<62	<5	<5	<2.5	<2.5	<25	<2.5	<2.5	**230**	<5	<12	<1.2	<2.5
DDS-2-2	DDS 2_2/115	6/6/2001 12:07	<4	**0.85J**	<2	<2	<2	<2	<4	<4	<2	<2	<2	<2	<2	<2	<2	<2	<50	<4	<4	<2	<2	<20	**28**	<2	**110**	<4	<10	<1	**3.4**
DDS-2-3	DDS2_3/77	6/5/2001 9:09	<100	<50	<50	<50	<50	<50	<100	<100	<50	<50	<50	<50	<50	<50	<50	<50	<1200	<100	<100	<50	<50	<500	<50	<50	**3200**	<100	<250	<25	<50
DDS-2-3	DDS2_3/96	6/5/2001 10:07	<25	<12	<12	<12	<12	<12	<25	<25	<12	<12	<12	<12	<12	<12	<12	<12	<310	<25	<25	<12	<12	<120	**7.2J**	<12	**490**	<25	<62	<6.2	<12
DDS-2-3	DDS2_3/113	6/5/2001 11:10	<50	<25	<25	<25	<25	<25	<50	<50	<25	<25	<25	<25	<25	<25	<25	<25	<620	<50	<50	<25	<25	<250	**410**	<25	**1100**	<50	<120	<12	25
DDS-2-4	DDS2_4/80	6/4/2001 9:16	<25	<12	<12	<12	<12	<12	<25	<25	<12	<12	<12	<12	<12	<12	<12	<12	<310	<25	<25	<12	<12	<120	**4.8J**	<12	**610**	<25	<62	<6.2	<12
DDS-2-4	DDS2_4/96	6/4/2001 9:55	<25	<12	<12	<12	<12	<12	<25	<25	<12	<12	<12	<12	<12	<12	<12	<12	<310	<25	<25	<12	<12	<120	**89**	<12	**750**	<25	<62	<6.2	<12
DDS-2-4	DDS2_4/116	6/4/2001 12:10	<50	<25	<25	<25	<25	<25	<50	<50	<25	<25	<25	<25	<25	<25	<25	<25	<620	<50	<50	<25	<25	<250	**29**	<25	**1300**	<50	<120	<12	<25
DDS-2-5A	DDS 2_5A/71	6/6/2001 13:09	<100	<50	<50	<50	<50	<50	<100	<100	<50	<50	<50	<50	<50	<50	<50	<50	<1200	<100	<100	<50	<50	<500	<50	<50	**2800**	<100	<250	<25	<50
DDS-2-5A	DDS 2_5A/73	6/6/2001 14:28	<500	<250	<250	<250	<250	<250	<500	<500	<250	<250	<250	<250	<250	<250	<250	<250	<6200	<500	<500	<250	<250	<2500	<250	<250	**13000**	<500	<1200	<120	<250
DDS-2-5	DDS_2_5/78	6/4/2001 9:55	<500	<250	<250	<250	<250	<250	<500	<500	<250	<250	<250	<250	<250	<250	<250	<250	<6200	<500	<500	<250	<250	<2500	<250	<250	**8200**	<500	<1200	<120	<250
DDS-2-5	DDS_2_5/96	6/4/2001 10:50	<100	<50	<50	<50	<50	<50	<100	<100	<50	<50	<50	<50	<50	<50	<50	<50	<1200	<100	<100	<50	<50	<500	<50	<50	**1400**	<100	<250	<25	<50
DDS-2-5	DDS_2_5/115	6/4/2001 11:59	<50	<25	<25	<25	<25	<25	<50	<50	<25	<25	<25	<25	<25	<25	<25	<25	<620	<50	<50	<25	<25	<250	<25	<25	**980**	<50	<120	<12	<25
DDS-2-6A	DDS 2_6A/73	6/5/2001 16:55	<25	<12	<12	<12	<12	<12	<25	<25	<12	<12	<12	<12	<12	<12	<12	<12	<310	<25	<25	<12	<12	<120	<12	<12	**910**	<25	<62	<6.2	<12
DDS-2-6	DDS_2_6/78	6/4/2001 15:10	<10	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<120	<10	<10	<5	<5	<50	<5	<5	**310**	<10	<25	<2.5	<5
DDS-2-6A	DDS 2_6A/85	6/6/2001 8:30	<10	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<120	<10	<10	<5	<5	<50	<5	<5	**350**	<10	<25	<2.5	<5
DDS-2-6A	DDS 2_6A/90	6/6/2001 9:32	<4	<2	<2	<2	<2	<2	<4	<4	<2	<2	<2	<2	<2	<2	<2	<2	<50	<4	<4	<2	<2	<20	<2	<2	**130**	<4	<10	<1	<2
DDS-2-6	DDS_2_6/113	6/4/2001 18:22	<4	<2	<2	<2	<2	<2	<4	<4	<2	<2	<2	<2	<2	<2	<2	<2	<50	<4	<4	<2	<2	<20	<2	<2	**80**	<4	<10	<1	<2
DDS-2-7	DDS_2_7/78	7/9/2001 15:25	<40	<20	<20	<20	<20	<20	<40	<40	<20	<20	<20	<20	<20	<20	<20	<20	<500	<40	<40	<20	<20	<200	<20	<20	**8800**	<40	<100	<10	<20
DDS-2-7	DDS_2_7/96	7/10/2001 7:40	<4	<2	<2	<2	<2	<2	<4	<4	<2	<2	<2	<2	<2	<2	<2	<2	<50	<4	<4	<2	<2	<20	<2	<2	**820**	<4	<10	<1	<2
DDS-2-7	DDS_2_7/115	7/10/2001 8:30	<2	<1	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	<1	<10	<1	<1	**290**	<2	<5	<0.5	<1
DDS-2-8	DDS_2_8/70	7/11/2001 15:05	<40	<20	<20	<20	<20	<20	<40	<40	<20	<20	<20	<20	<20	<20	<20	<20	<500	<40	<40	<20	<20	<200	<20	<20	**7000**	<40	<100	<10	<20
DDS-2-8	DDS_2_8/91	7/11/2001 16:16	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<62	<5	<5	<2.5	<2.5	<25	<2.5	<2.5	**750**	<5	<12	<1.2	<2.5
DDS-2-8	DDS_2_8/116	7/11/2001 18:44	<4	<2	<2	<2	<2	<2	<4	<4	<2	<2	<2	<2	<2	<2	<2	<2	<50	<4	<4	<2	<2	<20	<2	<2	**470**	<4	<10	<1	<2
DDS-2-9	DDS_2_9_74	7/9/2001 11:20	<2	<1	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	**1.5**	<10	<1	<1	**440**	<2	<5	<0.5	<1
DDS-2-9	DDS_2_9_96.5	7/9/2001 12:50	<20	<10	<10	<10	<10	<10	<20	<20	<10	<10	<10	<10	<10	<10	<10	<10	<250	<20	<20	<10	<10	<100	<10	<10	**3900**	<20	<50	<5	<10
DDS-2-10	DDS_2_10/73	7/10/2001 12:08	<10	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<120	<10	<10	<5	<5	<50	<5	<5	**1800**	<10	<25	<2.5	<5
DDS-2-10	DDS_2_10/96	7/10/2001 13:30	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<62	<5	<5	<2.5	<2.5	<25	<2.5	<2.5	**1400**	<5	<12	<1.2	<2.5
DDS-2-10	DDS_2_10/116	7/10/2001 14:55	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<62	<5	<5	<2.5	<2.5	<25	<2.5	<2.5	**1200**	<5	<12	<1.2	<2.5
DDS-2-11	DDS_2_11/72	7/9/2001 11:57	<40	<20	<20	<20	<20	<20	<40	<40	<20	<20	<20	<20	<20	<20	<20	<20	<500	<40	<40	<20	<20	<200	<20	<20	**8200**	<40	<100	<10	<20
DDS-2-11	DDS_2_11/86	7/9/2001 12:46	<10	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<120	<10	<10	<5	<5	<50	<5	<5	**1400**	<10	<25	<2.5	<5
DDS-2-11	DDS_2_11/115	7/9/2001 13:46	<10	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<120	<10	<10	<5	<5	<50	<5	<5	**1300**	<10	<25	<2.5	<5
DDS-2-12	DDS_2_12/77	7/10/2001 8:15	<20	**4.2J**	<10	<10	<10	<10	<20	<20	<10	<10	<10	<10	<10	<10	<10	<10	<250	<20	<20	<10	<10	<100	<10	<10	**3400**	<20	<50	<5	<10
DDS-2-12A	DDS_2_12A/92	7/10/2001 13:50	<2	**0.34J**	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	<1	<10	<1	<1	**350**	<2	<5	<0.5	<1
DDS-2-13	DDS_2_13/75	7/26/2001 8:03	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<62	<5	<5	<2.5	<2.5	<25	<2.5	<2.5	**1200**	<5	<12	<1.2	<2.5
DDS-2-13	DDS_2_13/89	7/26/2001 9:20	<2	<1	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	<1	<10	<1	<1	**32**	<2	<5	<0.5	<1
DDS-2-13	DDS_2_13/116	7/26/2001 11:20	<2	<1	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	<1	<10	<1	<1	**15**	<2	<5	<0.5	<1
DDS-2-14	DDS_2_14/69	7/28/2001 18:40	<10	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<120	<10	<10	<5	<5	<50	<5	<5	**2100**	<10	<25	<2.5	<5
DDS-2-14	DDS_2_14/86.5	7/29/2001 8:55	<2	<1	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	<1	<10	<1	<1	**160**	<2	<5	<0.5	<1
DDS-2-14	DDS_2_14/111.5	7/29/2001 22:50	<10	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<120	<10	<10	<5	<5	<50	<5	<5	**2300**	<10	<25	<2.5	<5
DDS-2-15	DDS_2_15/72.5	7/28/2001 9:10	<4	<2	<2	<2	<2	<2	<4	<4	<2	<2	<2	<2	<2	<2	<2	<2	<50	<4	<4	<2	<2	<20	<2	<2	**13**	<4	<10	<1	<2
DDS-2-15	DDS_2_15/91.5	7/28/2001 13:45	<10	<5	<5	<5	<5	**1.8J**	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<120	<10	<10	<5	<5	<50	<5	<5	**2000**	<10	<25	<2.5	<5
DDS-2-15	DDS_2_15/116	7/28/2001 14:50	<20	<10	<10	<10	<10	<10	<20	<20	<10	<10	<10	<10	<10	<10	<10	<10	<250	<20	<20	<10	<10	<100	<10	<10	**2800**	<20	<50	<5	<10
DDS-2-16A	DDS_2_16A/71	7/25/2001 9:57	<20	<10	<10	<10	<10	<10	<20	<20	<10	<10	<10	<10	<10	<10	<10	<10	<250	<20	<20	<10	<10	<100	<10	<10	**300**	<20	<50	<5	<10
DDS-2-16A	DDS_2_16A/91	7/25/2001 10:59	<10	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<120	<10	<10	<5	<5	<50	<5	<5	**1600**	<10	<25	<2.5	<5
DDS-2-16A	DDS_2_16A/117	7/25/2001 13:15	<10	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<120	<10	<10	<5	<5	<50	<5	<5	**1600**	<10	<25	<2.5	<5
DDS-2-17	DDS_2_17/72	7/26/2001 7:50	<5	**2J**	<2.5	<2.5	<2.5	<2.5	<5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<62	<5	<5	<2.5	<2.5	<25	<2.5	<2.5	**570**	<5	<12	<1.2	<2.5
DDS-2-17	DDS_2_17/91	7/26/2001 8:40	<5	**4.7**	<2.5	<2.5	<2.5	<2.5	<5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<62	<5	<5	<2.5	<2.5	<25	<2.5	**1.6J**	**1100**	<5	<12	<1.2	<2.5
DDS-2-17	DDS_2_17/116	7/26/2001 9:45	<50	<25	<25	<25	<25	<25	<50	<50	<25	<25	<25	<25	<25	<25	<25	<25	<620	<50	<50	<25	<25	<250	<25	<25	**4600**	<50	<120	<12	<25
DDS-2-18	DDS_2_18/73.5	7/26/2001 14:55	<5	**6.4**	<2.5	<2.5	<2.5	<2.5	<5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<62	<5	<5	<2.5	<2.5	<25	<2.5	**1.9J**	**530**	<5	<12	<1.2	<2.5
DDS-2-18	DDS_2_18/90	7/26/2001 15:55	<5	**13**	<2.5	<2.5	<2.5	<2.5	<5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<62	<5	<5	<2.5	<2.5	<25	<2.5	**5.1**	**460**	<5	<12	<1.2	<2.5
DDS-2-18	DDS_2_18/115	7/26/2001 17:15	<4	**2.3**	<2	<2	<2	<2	<4	<4	<2	<2	<2	<2	<2	<2	<2	<2	<50	<4	<4	<2	<2	<20	<2	**0.98J**	**520**	<4	<10	<1	<2

See notes on page 4

TABLE 4
SIMULPROBE MULTI-DEPTH GROUNDWATER SAMPLE
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

Object Name	Sample Name	Collection Date & Time	Chloromethane	cis-1,2-Dichloroethene	Dibromochloro-methane	Dichlorodifluoro-methane	Ethylbenzene	Hexachloro-butadiene	Iodomethane	Isopropyl ether	Isopropylbenzene	Methyl tert-butyl ether	Methylene chloride	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	t-Butanol	Tert-amyl methyl ether	Tert-butyl ethyl ether	tert-Butylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoro-methane	Vinyl acetate	Vinyl chloride	Xylenes (total)
DDS-2-19	DDS_2_19/73	7/27/2001 14:00	<2	**100**	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	**25**	<10	<1	<1	**260**	<2	<5	<0.5	<1
DDS-2-19	DDS_2_19/92	7/27/2001 14:53	<2	<1	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	**1.4**	<10	<1	<1	**230**	<2	<5	<0.5	<1
DDS-2-19	DDS_2_19/113	7/27/2001 16:04	<20	<10	<10	<10	<10	<10	<20	<20	<10	<10	<10	<10	<10	<10	<10	<10	<250	<20	<20	<10	<10	<100	<10	<10	**2700**	<20	<50	<5	<10
DDS-2-20	DDS_2_20/73	7/30/2001 12:05	<4	<2	<2	<2	<2	<2	<4	<4	<2	<2	<2	<2	<2	<2	<2	<2	<50	<4	<4	<2	**25**	<20	<2	<2	**840**	<4	<10	<1	<2
DDS-2-20	DDS_2_20/89	7/30/2001 13:43	<2	<1	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	**9.9**	<10	<1	<1	**130**	<2	<5	<0.5	<1
DDS-2-20	DDS_2_20/111	7/30/2001 15:07	<2	<1	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	**8.3**	<10	<1	<1	**92**	<2	<5	<0.5	<1
DDS-2-21	DDS_2_21/69.8	7/25/2001 9:40	<2	<1	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	<1	<10	<1	<1	**160**	<2	<5	<0.5	<1
DDS-2-21	DDS_2_21/86.8	7/25/2001 10:45	<2	<1	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	<1	<10	<1	<1	**29**	<2	<5	<0.5	<1
DDS-2-21	DDS_2_21/110.8	7/25/2001 12:00	<2	<1	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	<1	<10	<1	<1	**12**	<2	<5	<0.5	<1
DDS-2-22	DDS_2_22/72	9/28/2001 13:00	<20	<10	<10	<10	<10	<10	<20	<20	<10	<10	<10	<10	<10	<10	<10	<10	<250	<20	<20	<10	<10	<100	<10	<10	**140**	<20	<50	<5	<10
DDS-2-22	DDS_2_22/94	9/28/2001 14:38	<200	<100	<100	<100	<100	<100	<200	<200	<100	<100	<100	<100	<100	<100	<100	<100	<2500	<200	<200	<100	<100	<1000	<100	<100	**310**	<200	<500	<50	<100
DDS-2-22	DDS_2_22/120	9/28/2001 16:28	<100	<50	<50	<50	<50	<50	<100	<100	<50	<50	<50	<50	<50	<50	<50	<50	<1200	<100	<100	<50	<50	<500	<50	<50	**1400**	<100	<250	<25	<50
DDS-2-23	DDS_2_23_71	9/25/2001 8:20	<20	<10	<10	<10	<10	<10	<20	<20	<10	<10	<10	<10	<10	<10	<10	<10	<250	<20	<20	<10	**46**	<100	<10	<10	**240**	<20	<50	<5	<10
DDS-2-23	DDS_2_23_95	9/25/2001 10:25	<200	<100	<100	<100	<100	<100	<200	<200	<100	<100	<100	<100	<100	<100	<100	<100	<2500	<200	<200	<100	<100	<1000	<100	<100	**610**	<200	<500	<50	<100
DDS-2_23	DDS_2_23_120	9/25/2001 11:55	<100	<50	<50	<50	<50	<50	<100	<100	<50	<50	<50	<50	<50	<50	<50	<50	<1200	<100	<100	<50	<50	<500	<50	<50	**180**	<100	<250	<25	<50
DDS-2-24	DDS_2_24_75	9/26/2001 7:55	<100	<50	<50	<50	<50	<50	<100	<100	<50	<50	<50	<50	<50	<50	<50	<50	<1200	<100	<100	<50	**71**	<500	<50	<50	**<50**	<100	<250	<25	<50
DDS-2-24	DDS_2_24_96	9/26/2001 8:55	<50	<25	<25	<25	<25	<25	<50	<50	<25	<25	<25	<25	<25	<25	<25	<25	<620	<50	<50	<25	**36**	<250	<25	<25	**60**	<50	<120	<12	<25
DDS-2-24	DDS_2_24_121	9/26/2001 10:05	<50	<25	<25	<25	<25	<25	<50	<50	<25	<25	<25	<25	<25	<25	<25	<25	<620	<50	<50	<25	<25	<250	<25	<25	**53**	<50	<120	<12	<25
DDS-2-25	DDS_2_25/78	9/27/2001 14:23	<4	<2	<2	<2	<2	<2	<4	<4	<2	<2	<2	<2	<2	<2	<2	<2	<50	<4	<4	<2	**22**	<20	<2	<2	**45**	<4	<10	<1	<2
DDS-2-25	DDS_2_25/99	9/27/2001 15:48	<2	<1	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	<1	<10	<1	<1	**0.53J**	<2	<5	<0.5	<1
DDS-2-25	DDS_2_25/126	9/28/2001 8:55	<2	<1	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	**0.86J**	<10	<1	<1	**11**	<2	<5	<0.5	<1
DDS-2-26	DDS_2_26/72	9/26/2001 16:25	<4	<2	<2	<2	<2	<2	<4	<4	<2	<2	<2	<2	<2	<2	<2	<2	<50	<4	<4	<2	<2	<20	<2	<2	**2.2**	<4	<10	<1	<2
DDS-2-26	DDS_2_26/94	9/27/2001 7:55	<50	<25	<25	<25	<25	<25	<50	<50	<25	<25	<25	<25	<25	<25	<25	<25	<620	<50	<50	<25	<25	<250	<25	<25	**1600**	<50	<120	<12	<25
DDS-2-26	DDS_2_26/120	9/27/2001 9:00	<250	<120	<120	<120	<120	<120	<250	<250	<120	<120	<120	<120	<120	<120	<120	<120	<3100	<250	<250	<120	<120	<1200	<120	<120	**6100**	<250	<620	<62	<120
DDS-2-27	DDS_2_27_94	5/30/2002 0:00	<2	<1	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	<1	<10	**0.50J**	<1	**22**	<2	<5	<0.5	<1
DDS-2-27	DDS_2_27_122	5/30/2002 0:00	<2	<1	**1.1**	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	<1	<10	**2.1**	<1	**16**	<2	<5	<0.5	<1
DDS-2-28	DDS_2_28_93	5/29/2002 0:00	<20	<10	<10	<10	<10	<10	<20	<20	<10	<10	<10	<10	<10	<10	<10	<10	<250	<20	<20	<10	<10	<100	**3.2J**	<10	**14**	<20	<50	<5	<10
DDS-2-28	DDS_2_28_120	5/29/2002 0:00	<2	<1	**12**	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<25	<2	<2	<1	<1	<10	**5**	<1	**2.6**	<2	<5	<0.5	<1
DDS-2-29	DDS-2-29-90	5/28/2002 0:00	<5000	<2500	<2500	<2500	<2500	<2500	<5000	<5000	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<62000	<5000	<2500	<2500	<2500	<25000	<2500	<2500	<2500	<5000	<2500	<1200	<2500
DDS-2-29	DDS-2-29-130	5/28/2002 0:00	<200	<100	<100	<100	<100	<100	<200	<200	<100	<100	<100	<100	<100	<100	<100	<100	<2500	<200	<100	<100	<100	<1000	<100	<100	**390**	<200	<100	<50	<100

NOTES:
Samples analyzed by EPA Method 8260B
Results reported in micrograms per liter (ug/l).
< = Less than detection limit shown
Bold = Detected concentrations
J = Estimated Result. Result is less than reporting limit

QA/QC: _____
Date: _____

See notes on page 4

BOE-C6-0005064

TABLE 5
SVE SYSTEM OPERATIONS ANALYTICAL DATA
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

SAMPLE DATE	LAB ID	SAMPLE LOCATION	COMPOUND																						
			PCE	TCE	1,1,1 TCA	1,1,2 TCA	1,1 DCE	cis-1,2 DCE	1,1 DCA	1,2 DCA	2-Butanone (MEK)	Chloro orm	Acetone	Vinyl Chloride	Methylene chloride	Trichloro fluoro-methane	Dichloro difluoro methane	1,2,4-Tri methyl benzene	Carbon Tetra chloride	4-Ethyl toluene	Toluene	Benzene	Xylene (total)	Methyl tert-butyl ether	TNMHC
11/27/01	EXHAUST 11/27/01	Exhaust	1.6 J	200	3	ND	4	ND	ND	ND	4 J	ND	9.7 J	ND	0.9 J	ND	ND	0.79 J	ND	ND	14	ND	1 J	ND	ND
11/28/01	DILUTED INLET (11B, 14B)	Influent	59	4,600	13 J	ND	220	ND	ND	ND	ND	ND	ND	ND	ND	11 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
11/28/01	EXHAUST 11/28/01	Exhaust	ND	ND	0.59 J	ND	ND	ND	ND	ND	3.4 J	ND	6.1 J	ND	ND	ND	ND	0.79 J	ND	ND	4.7 J	ND	1.3 J	ND	ND
11/29/01	EXHAUST 11/29/01	Exhaust	ND	1.5 J	ND	ND	ND	ND	ND	ND	2.3 J	ND	5.9 J	ND	1.1 J	ND	ND	ND	ND	ND	2.2 J	ND	1.2 J	ND	250 J
11/30/01	DILUTED INLET (11B, 14B)	Influent	59	5,200	15 J	ND	330	ND	ND	ND	ND	ND	ND	ND	ND	16 J	ND	ND	ND	ND	ND	ND	ND	ND	9,500 J
11/30/01	EXHAUST 11/30/01	Exhaust	ND	0.86 J	ND	ND	ND	ND	ND	ND	ND	ND	6.4 J	ND	ND	ND	ND	ND	ND	ND	1.5 J	ND	ND	ND	ND
12/03/01	DILUTED INLET (11B, 14B)	Influent	3	220	0.71 J	ND	19	ND	ND	ND	ND	ND	ND	ND	ND	0.68 J	ND	ND	ND	ND	0.59 J	ND	ND	ND	450 J
12/03/01	EXHAUST 12/3/01	Exhaust	ND	1.6 J	ND	ND	ND	ND	ND	ND	ND	ND	3.4 J	ND	ND	ND	ND	ND	ND	ND	1.2 J	ND	ND	ND	ND
12/04/01	DILUTED INLET (11B, 14B)	Influent	100	10,000	35 J	ND	730	ND	ND	ND	ND	ND	ND	ND	ND	31 J	ND	ND	ND	ND	ND	ND	ND	ND	22,000 J
12/04/01	EXHAUST 12/4/01	Exhaust	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.5 J	ND	ND	ND	ND	ND	ND	ND	0.94 J	ND	ND	ND	ND
12/05/01	DILUTED INLET (11B, 14B)	Influent	180 J	18,000	73 J	ND	1,500	ND	ND	ND	ND	ND	ND	ND	ND	64 J	ND	ND	ND	ND	ND	ND	ND	ND	35,000 J
12/05/01	EXHAUST 12/5/01	Exhaust	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND	0.56 J	ND	ND	ND	ND
12/06/01	DILUTED INLET (11B, 14B)	Influent	260	21,000	92 J	ND	1,600	ND	ND	ND	ND	ND	ND	ND	ND	59 J	ND	ND	ND	ND	ND	ND	ND	ND	43,000 J
12/06/01	EXHAUST 12/6/01	Exhaust	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5 J	ND	ND	ND	ND	ND	ND	ND	0.65 J	ND	ND	ND	ND
01/03/02	DILUTED INLET 01/03/02	Influent	84	7,500	280	ND	660	35 J	44 J	ND	ND	24 J	ND	ND	ND	19 J	ND	ND	ND	ND	ND	ND	ND	ND	20,000
01/03/02	EXHAUST 1/3/02	Exhaust	ND	0.6 J	ND	ND	ND	ND	ND	ND	ND	ND	4.2 J	9	0.92 J	ND	1.5 J	ND	ND	ND	1	ND	ND	ND	ND
02/06/02	DILUTED INLET 2/6/02	Influent	210	31,000	800	ND	2,800	210	220	ND	ND	130 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	69,000
02/06/02	EXHAUST 2/6/02	Exhaust	0.89 J	20	2	ND	0.56 J	ND	ND	ND	11	ND	45	7	1.8 J	ND	4	0.94 J	ND	0.86 J	10	ND	3	ND	440 J
03/06/02	DILUTED INLET 3/6/02	Influent	100 J	26,000	370	ND	1,600 J	120 J	86 J	ND	ND	150 J	150	ND	110 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	<500,000
03/06/02	EXHAUST 3/6/02	Exhaust	ND	3	16	ND	13	ND	ND	ND	ND	ND	4.9 J	ND	62	22	11	ND	ND	ND	12	ND	ND	ND	290 J
04/04/02	GAC0002D_AV040402_001	Influent	180	19,000	310	32 J	1,700	120	96 J	ND	ND	260	150	ND	49 J	45 J	ND	ND	ND	ND	ND	ND	ND	ND	47,000
04/04/02	GAC0002E_AV040402_001	Exhaust	ND	0.68 J	ND	ND	ND	ND	ND	ND	ND	ND	3.3 J	ND	1.4 J	ND	ND	ND	ND	ND	1.1 J	ND	0.84 J	0.64 J	ND
04/10/02	GAC0002E_AV041002_001	Exhaust	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4 J	ND	ND	ND	ND	0.71 J	ND	ND	3.9 J	ND	1.4 J	0.91 J	ND
04/17/02	GAC0002E_AV041702_001	Exhaust	17	1,100	4.9 J	ND	32	ND	ND	ND	ND	15	ND	ND	5.4 J	ND	86	ND	ND	ND	6.3 J	ND	5.5 J	9.9 J	3,100
04/17/02	GAC0002C_AV041702_001	Midpoint	16 J	840	25	ND	2,700	8.5 J	80	ND	ND	130	ND	ND	49	120	21	ND	ND	ND	6.7 J	ND	ND	9.1 J	5,600
04/23/02	GAC0002E_AV042302_001	Exhaust	ND	ND	ND	ND	78	ND	7	ND	ND	ND	ND	ND	63	160	15	ND	ND	ND	4.1 J	ND	3.9 J	1.3 J	1,400
05/03/02	GAC0002E_AV050302_001	Exhaust	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3 J	ND	ND	ND	ND	ND	ND	ND	2.0 J	ND	1.1 J	0.51 J	ND
05/03/02	GAC0002U_AV050302_001	Influent	190	13,000	150	ND	1,600	63 J	57 J	ND	ND	360	ND	ND	ND	44 J	ND	ND	ND	ND	ND	ND	ND	ND	36,000
06/04/02	GAC0002E_AV060402_001	Exhaust	ND	12 J	35	ND	4,100	ND	110	ND	53 J	180	ND	ND	34	88	12 J	ND	ND	ND	64	ND	ND	ND	4,800 J
06/04/02	GAC0002D_AV060402_001	Influent	110	6,100	560	ND	1,300	38 J	38 J	ND	960	540	ND	ND	18 J	23 J	11 J	ND	23	ND	520	ND	18 J	ND	19,000
07/03/02	GAC0002E_AV070302_001	Exhaust	ND	ND	ND	ND	2,700	ND	67	ND	ND	260	ND	ND	21	68	13 J	ND	ND	ND	ND	ND	ND	ND	3,000 J
07/03/02	GAC0002D_AV070302_001	Influent	80	3,800	82	ND	1,100	29	28	ND	ND	640	ND	ND	12 J	30	12 J	ND	25	ND	11 J	ND	ND	ND	11
08/15/02	GAC0002E_AV081502_001	Exhaust	ND	ND	ND	ND	2,600	ND	95	ND	ND	860	ND	ND	16 J	39	7.2 J	ND	ND	ND	ND	ND	ND	ND	3,500
08/15/02	GAC0002D_AV08152_001	Influent	150	4,400	81	6.4 J	930	24	27	ND	ND	780	ND	ND	11	23	8.9 J	ND	29	ND	3.9 J	ND	ND	ND	<5,000

TABLE 5
SVE SYSTEM OPERATIONS ANALYTICAL DATA
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

SAMPLE DATE	LAB ID	SAMPLE LOCATION	COMPOUND																					
			PCE	TCE	1,1,1 TCA	1,1,2 TCA	1,1 DCE	cis-1,2 DCE	1,1 DCA	1,2 DCA	2-Butanone (MEK)	Chloro orm	Acetone	Vinyl Chloride	Methylene chloride	Trichloro fluoro-methane	Dichloro difluoro methane	1,2,4-Tri methyl benzene	Carbon Tetra chloride	4-Ethyl toluene	Toluene	Benzene	Xylene (total)	Methyl tert-butyl ether	TNMHC
09/05/02	GAC0002E_AV090502_001	Exhaust	ND	430	26	ND	110	25	4	ND	ND	220	9.1 J	ND	ND	ND	1.6 J	ND	8	ND	2.5 J	ND	0.98 J	1.0 J	ND
09/05/02	GAC0002U_AV09052_001	Influent	120	4,000	70	ND	660	16 J	22 J	ND	ND	610	ND	ND	10 J	17 J	ND	ND	18 J	ND	11 J	ND	ND	ND	9,700
10/01/02	GAC0002E_AV100102_001	Exhaust	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	2.3 J	ND	0.81 J	ND	8	ND	8	ND	1.7 J	ND	0.97 J	1.4 J	ND
10/01/02	GAC0002U_AV100102_001	Influent	81	2,600	53	ND	690	13 J	19 J	ND	ND	700	ND	ND	9.6 J	19 J	6.6 J	5.9 J	22	8.6 J	220	33	83	65 J	10,000
10/16/02	GAC0002U_AV101602_001	Rebound Influent	100	1,700	17	ND	390	7	13	ND	ND	330	7.4 J	ND	3.2 J	19	3.2 J	2.3 J	14	2.6 J	8.7 J	3.2 J	9	11 J	4,800
11/07/02	GAC0002E_AV110702_001	Exhaust	0.85 J	7	29	ND	380	8	15	ND	ND	800	3.9 J	ND	2	7	ND	2	4	1.5 J	2.5 J	ND	3	ND	1,400
11/07/02	GAC0002U_AV110702_001	Influent	91	3,000	51	ND	360	14 J	14 J	ND	ND	690	ND	ND	ND	7.6 J	ND	ND	19 J	ND	ND	ND	ND	ND	6,900
11/11/02	GAC00024_AV111102_001	Rebound Influent	97	1,400	31	ND	300	10	10	3.1 J	ND	750	14 J	ND	2.6 J	10	ND	1.4 J	22	ND	4.5 J	ND	3.1 J	2.9 J	4,200

Notes:
All compounds are reported in parts per billion by volume.
Only compounds with detectable concentrations are provide in the table.
ND = not detected
J = Estimated Result. Result is less than reporting limit
PCE = Tetrachloroethene
TCE = Trichloroethene
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane
1,1-DCE =- 1,1-Dichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
1,1-DCA = 1,1-Dichloroethane
1,2-DCA = 1,2-Dichloroethene
MEK = methyl-ethyl-ketone
TNMHC = Total Non Methane Hydrocarbons

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TABLE 6
SVE SYSTEM FIELD DATA
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

DATE	HOUR METER	TIME	UNDILUTED FLOW RATE (1) (scfm)	DILUTED INLET FLOW RATE (1) (scfm)	VACUUM (inches of H2O)	UNDILUTED OVA (2) (ppmv)	DILUTED INFLUENT OVA (2) (ppmv)	MID POINT CARBON OVA (2) (ppmv)	EFFLUENT CARBON OVA (2) (ppmv)
11/28/01	24	13:15	75	725	28	420	58	0.0	0.0
11/30/01	75	14:20	80	750	NA	1,380	60	3.6	2.0
12/03/01	76	17:10	85	750	NA	940	18	0.4	0.0
12/04/01	93	10:15	67	750	NA	1,190	98	3.0	0.0
12/05/01	123	16:30	68	790	NA	2,000	167	1.8	0.0
12/06/01	138	8:30	65	795	29	3,220	265	7.1	5.0
12/07/01	161	7:30	66	795	30	3,000	245	0.5	0.2
12/08/01	196	16:00	70	770	29	2,800	250	5.9	5.1
12/09/01	217	13:00	190	770	30	1,550	230	4.5	0.9
12/10/01	244	16:00	65	760	29	3,850	95	5.5	0.0
12/11/01	263	11:00	55	760	31	3,660	310	0.2	0.0
12/12/01	295	19:15	75	780	30	4,775	350	0.5	0.0
12/13/01	311	11:15	69	775	30	3,800	380	0.3	0.0
12/20/01	479	15:10	95	775	39	>9,999	350	33.0	0.0
12/28/01	647	11:00	400	770	29	NR	480	# 8.0	0.0
1/3/2002	785	15:00	575	795	29	930	32	0.0	0.0
01/10/02	953	15:00	# 150	765	25	1,430	195	51.0	0.0
01/18/02	983	18:00	350	720	53	770	342	0.3	0.1
01/24/02	1124	15:10	360	735	52	925	380	40.2	0.0
01/31/02	1220	15:48	400	765	38	1,050	960	NR	0.0
02/01/02	1238	10:00	400	760	27	690	450	0.0	0.0
02/06/02	1360	13:00	390	760	20	835	365	87.0	0.2
02/08/02	1385	9:20	# 190	740	45	450	105	43.0	0.0
02/15/02	1553	11:00	400	730	27	530	270	10.7	0.0
02/21/02	1693	8:07	400	705	41	800	437	71.0	0.0
02/27/02	1838	10:30	380	590	68	715	465	37.0	0.0
03/06/02	2004	9:00	378	600	68	605	310	53.2	0.2
03/13/02	2173	14:35	375	590	67	450	259	28.0	0.0
03/20/02	2334	10:45	400	655	67	300	220	10.3	0.2
03/29/02	2549	10:00	385	605	61	274	168	16.0	0.1
04/01/02	2627	16:50	640	630	59	205	261	47.4	7.5
04/02/02	2646	11:40	660	680	61	284	256	59.0	12.7
04/04/02	2650	17:00	675	710	54	276	264	0.0	0.3
04/05/02	2668	11:25	670	685	61	270	256	0.8	0.0
04/06/02	2692	11:57	630	625	57	263	233	0.2	0.1
04/07/02	2714	10:56	685	670	61	253	212	0.3	0.1
04/08/02	2740	12:47	660	660	61	253	232	0.6	0.0
04/09/02	2759	8:45	650	635	65	266	252	0.3	0.1
04/10/02	2789	14:30	650	645	57	245	224	3.9	0.2
04/11/02	2817	19:35	715	740	41	147	129	39.0	0.2
04/12/02	2839	18:37	710	710	57	336	337	6.1	0.4

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TABLE 6
SVE SYSTEM FIELD DATA
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

DATE	HOUR METER	TIME	UNDILUTED FLOW RATE (1) (scfm)	DILUTED INLET FLOW RATE (1) (scfm)	VACUUM (inches of H2O)	UNDILUTED OVA (2) (ppmv)	DILUTED INFLUENT OVA (2) (ppmv)	MID POINT CARBON OVA (2) (ppmv)	EFFLUENT CARBON OVA (2) (ppmv)
04/17/02	2904	15:20	695	690	57	270	153	* 4.8	* 3.8
04/23/02	3049	15:51	665	665	61	221	184	* 9.4	* 2.8
05/03/02	3240	12:48	630	665	54	178	164	* 2.6	* 1.3
05/09/02	3391	19:10	645	640	54	248	158	#* 23.0	* 0.8
05/16/02	3549	8:43	675	660	61	150	145	* 20.0	* 2.8
05/23/02	3722	16:20	650	620	57	* 16	15.4	* 14.0	* 9.9
05/30/02	3887	14:00	645	610	57	* 17.5	19.1	* 14.0	* 13.0
06/04/02	4005	12:00	630	620	57	* 19.4	* 14.0	* 19.0	* 7.0
06/13/02	4215	8:35	655	645	58	NR	* 18.2	* 8.4	* 2.0
06/20/02	4384	10:17	650	640	57	* 12.0	* 10.0	* 7.0	* 1.0
06/27/02	4554	12:34	635	625	57	* 13.5	* 12.8	* 9.2	* 6.5
07/03/02	4697	11:00	630	625	55	61.7	42.8	# 15.1	# 14.2
07/09/02	4837	14:17	640	620	57	46.7	* 5.9	* 0.9	* 0.9
07/15/02	4985	11:48	585	575	65	71	* 9.1	* 7.6	* 2.0
07/23/02	5158	9:12	625	610	54	* 14.2	* 13.8	* 9.7	* 0.0
07/30/02	5328	17:25	565	535	67	* 11.0	* 10.0	* 4.8	* 3.4
08/07/02	5518	15:15	555	550	54	* 14.0	* 13.8	* 10.0	* 2.2
08/15/02	5710	15:30	605	590	54	* 9.0	* 7.0	* 5.0	* 4.0
08/20/02	5826	11:28	590	585	59	* 7.2	* 7.2	* 3.2	* 5.0
08/27/02	5992	9:40	585	585	58	* 5.6	* 5.6	* 3.1	* 2.5
09/05/02	6164	10:45	565	565	64	* 3.4	* 2.5	* 0.8	* 0.4
09/13/02	6358	12:45	590	575	57	* 5.4	* 5.0	* 1.7	*2.4
09/19/02	6503	13:20	565	570	57	* 4.4	* 5.8	* 2.0	* 7.8
09/25/02	6640	7:02	635	625	53	* 7.0	* 8.0	* 7.0	* 6.0
10/01/02	6790	15:21	625	625	53	* 8.5	* 6.0	* 4.4	* 6.5
10/09/02	6790	9:43	620	615	53	* 3.1	* 2.8	* 1.6	* 0.2
10/16/02	7150	15:52	645	655	71	* 4.4	* 5.0	* 4.6	* 1.4
Began Rebound Monitoring for Site Closure on Eastern Wells									
10/22/02	7152	10:39	565	565	68	* 2.5	* 2.8	* 5.2	* 1.4
10/30/02	7345	8:45	560	565	68	* 5.0	* 7.5	* 6.0	* 4.0
11/07/02	7538	13:15	555	565	74	* 4.9	* 5.6	* 4.7	* 1.4
11/11/02	7634	14:00	645	650	41	13.3	13.3	#28.6	4.0
Began Rebound Monitoring for Site Closure on Western Wells									

Notes:
(1) Direct flow readings taken by hand-held TSI Veloci-calc Plus
(2) Measurements taken with a MiniRae 2000 PID calibrated to 100 ppmv Hexane, results as Hexane unless otherwise noted
Readings reading not considered representative of actual concentrations due to mositure or vacuum interference
* Measurements taken with Foxboro OVA-128 FID calibrated to Hexane. Results as Hexane.
OVA = organic vapor analyzer
CONC = concentration
PID = photoionization detector
H2O = water
NA = Not applicable
NR = Not recorded
ppmv = parts per million by volume

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TABLE 7
REGRESSION BASED ON UNDILUTED OVA CONCENTRATION
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

12/13/2001 **Initial Date** **Cn = 3800** **Initial Concentration**

Date	DAYS	Co	Co/Cn	ln(Co/Cn)	t (days)	K	$t_{90\%}$	$t_{99\%}$	Projected 90% Concentration Reduction	Projected 99% Concentration Reduction
12/13/2001	1	3800	1.00	0.00	0					
1/3/2002	21	930	0.24	-1.41	-21	0.067	34.4	68.7	1/16/2002	2/19/2002
1/18/2002	36	770	0.20	-1.60	-36	0.044	51.9	103.8	2/2/2002	3/26/2002
2/6/2002	55	835	0.22	-1.52	-55	0.028	83.6	167.1	3/6/2002	5/29/2002
2/21/2002	70	800	0.21	-1.56	-70	0.022	103.5	206.9	3/26/2002	7/7/2002
2/27/2002	76	715	0.19	-1.67	-76	0.022	104.8	209.5	3/27/2002	7/10/2002
3/6/2002	83	605	0.16	-1.84	-83	0.022	104.0	208.0	3/27/2002	7/9/2002
3/29/2002	106	274	0.07	-2.63	-106	0.025	92.8	185.6	3/15/2002	6/16/2002
4/4/2002	112	276	0.07	-2.62	-112	0.023	98.4	196.7	3/21/2002	6/27/2002
4/17/2002	125	270	0.07	-2.64	-125	0.021	108.9	217.7	3/31/2002	7/18/2002
5/3/2002	141	178	0.05	-3.06	-141	0.022	106.1	212.1	3/29/2002	7/13/2002
6/4/2002	173	170	0.04	-3.11	-173	0.018	128.2	256.4	4/20/2002	8/26/2002
7/3/2002	202	62	0.02	-4.12	-202	0.020	113.0	226.0	4/5/2002	7/27/2002
8/7/2002	237	41	0.01	-4.52	-237	0.019	120.6	241.2	4/12/2002	8/11/2002
9/5/2002	266	28	0.01	-4.91	-266	0.018	124.8	249.6	4/16/2002	8/19/2002
10/1/2002	292	34	0.01	-4.72	-292	0.016	142.5	284.9	5/4/2002	9/23/2002
11/11/2002	333	14	0.00	-5.58	-333	0.017	137.4	274.7	4/29/2002	9/13/2002

Change in concentration 12/13/01 to 11/11/02	-99.6%

	90% Reduction	99% Reduction
Estimated	April 2002	July-Aug 2002

Notes:

Co = Initial or baseline concentration measured with a photo ionization detector
Cn = Concentration at a specifed future date
ln = natural log
t = time in days
K = calculated factor
t 90% = time at which the concentration will be reduced 90% of the initial concentration
t 99% = time at which the concentration will bereduced 99% of the initial concentration

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TABLE 8
SVE REBOUND ANALYTICAL DATA
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

REBOUND STATUS	SAMPLE DATE	LAB ID	SAMPLE LOCATION	COMPOUND																						
				PCE	TCE	1,1,1 TCA	1,1 DCE	cis-1,2 DCE	1,1 DCA	2-Butanone (MEK)	Chloroform	Acetone	Methylene chloride	Trichloro fluoromethane	1,1,2-Trichloro 1,2,2 trifluoroethane	Dichloro difluoro methane	1,3,5-Tri methyl benzene	1,2,4-Trimethyl benzene	Carbon Tetrachloride	Methyl tert butyl ether (MTBE)	4-Ethyl toluene	Toluene	Benzene	Ethyl benzene	Xylene (total)	TNMHC
Pre-Rebound	10/16/2002	2VEW_9_AV101602_0001	2-VEW-9	57	1,900	5 J	240	6 J	30	ND	21	ND	ND	34	3 J	ND	ND	ND	ND	10 J	ND	6 J	ND	ND	5 J	4,000
Pre-Rebound	10/16/2002	2VEW_10B_AV101602_0001	2-VEW-10B	180	3,900	56	720	23	27	ND	1,500	ND	17 J	13 J		ND	ND	ND	48	13 J	ND	ND	ND	ND	ND	11,000
Pre-Rebound	10/16/2002	2VEW_11B_AV101602_0001	2-VEW-11B	140	3,500	18	2,900	ND	13 J	ND	58	ND	7 J	51	10 J	ND	56	120	ND	17 J	65	10 J	ND	9 J	66	15,000
Pre-Rebound	10/16/2002	2VEW_15B_AV101602_0001	2-VEW-15B	110	2,700	23	440	8 J	9 J	ND	320	12 J	7 J	22	3 J	36	ND	ND	15	16 J	ND	4 J	ND	ND	ND	10,000
Pre-Rebound	10/16/2002	2VEW_19_AV101602_0001	2-VEW-19	140	2,100	6 J	550	4 J	33	ND	27	12 J	ND	75	7 J	ND	ND	ND	ND	12 J	ND	3 J	ND	ND	ND	5,000
Pre-Rebound	10/16/2002	GAC002U_AV101602_0001	Influent	100	1,700	17	390	7	13	ND	33	7 J	3 J	19	3 J	3 J	ND	2 J	14	11 J	3 J	9 J	3 J	2 J	9	4,800
Pre-Rebound	11/11/2002	2VEW_1B_AV111102_0001	2-VEW-1B	ND	15,000	38	270	ND	25 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26,000
Pre-Rebound	11/11/2002	2VEW_4_AV111102_0001	2-VEW-4	4 J	1,900	57	23	ND	7 J	ND	ND	14 J	ND	ND	ND	ND	ND	6 J	ND	4 J	5 J	12 J	ND	3 J	16	4,500
Pre-Rebound	11/11/2002	2VEW_8B_AV111102_0001	2-VEW-8B	110	2,700	27	620	14	17	ND	350	14 J	7 J	31	4 J	ND	ND	5 J	13	3J	4 J	9 J	ND	ND	13	7,200
Pre-Rebound	11/11/2002	GAC0024_AV111102_0001	Influent	97	1,400	31	300	10	10	ND	750	14 J	3 J	10	2 J	ND	ND	1 J	22	3 J		5 J	ND	ND	3 J	4,200
LFVCS	2/19/2003	2_VEW_15B_AV021903_0001	2-VEW-15B	140	5,400	ND	480	ND	ND	ND	58	ND	ND	ND	ND	13 J	ND	ND	ND	ND	ND	23 J	ND	ND	ND	11,000
LFVCS	2/19/2003	2_VEW_19_AV021903_0001	2-VEW-19	74	4,900	ND	430	ND	ND	ND	16 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24 J	ND	ND	21 J	9,700
LFVCS	2/19/2003	2_VEW_11B_AV021903_0001	2-VEW-11B	43	2,400	ND	280	ND	ND	23 J	9 J	ND	ND	ND	ND	ND	ND	7 J	ND	ND	8 J	20	ND	4 J	23	4,900
LFVCS	2/19/2003	2_VEW_9_AV021903_0001	2-VEW-9	45	5,200	ND	290	ND	ND	ND	20 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16 J	ND	ND	ND	10,000
LFVCS	2/19/2003	2_VEW_10B_AV021903_0001	2-VEW-10B	69	8,500	ND	310	ND	14 J	1,000	320	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18,000
LFVCS	2/19/2003	2_VEW_8B_AV021903_0001	2-VEW-8B	130	9,700	51	940	58	34 J	ND	330	ND	ND	ND	ND	ND	ND	ND	13 J	ND	ND	ND	ND	ND	ND	20,000
LFVCS	2/19/2003	2_VEW_4_AV021903_0001	2-VEW-4	23 J	4,900	220	72	17 J	24 J	ND	34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6 J	ND	ND	ND	9,900
LFVCS	2/19/2003	2_VEW_1B_AV021903_0001	2-VEW-1B	10	2,300	8 J	110	5 J	4 J	ND	8 J	ND	ND	ND	ND	ND	ND	5 J	ND	ND	5 J	8 J	ND	ND	9 J	4,600
Post-Rebound	2/20/2003	GAC002U_AV022003_0001	Influent (30 min)	57	4,100	33	330	ND	12 J	ND	130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10 J	ND	ND	ND	8,800
Post-Rebound	2/20/2003	GAC002U_AV022003_0002	Influent (4 hrs)	53	3,400	22 J	350	11 J	10 J	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7,400
Post-Rebound	2/20/2003	2_VEW_15B_AV021903_0001	2-VEW-15B	100	5,500	ND	700	ND	ND	ND	82	ND	ND	18 J	ND	34 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	17,000
Post-Rebound	2/20/2003	2_VEW_19_AV021903_0001	2-VEW-19	170	3,800	ND	960	ND	13 J	ND	19 J	ND	ND	27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8,800
Post-Rebound	2/20/2003	2_VEW_11B_AV021903_0001	2-VEW-11B	230	8,200	ND	3,000	ND	ND	ND	30 J	ND	ND	22 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19,000
Post-Rebound	2/20/2003	2_VEW_9_AV021903_0001	2-VEW-9	100	6,000	ND	440	ND	21 J	ND	22 J	ND	ND	26 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12,000
Post-Rebound	2/20/2003	2_VEW_10B_AV021903_0001	2-VEW-10B	92	6,000	22 J	450	ND	12 J	ND	470	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13,000
Post-Rebound	2/20/2003	2_VEW_8B_AV021903_0001	2-VEW-8B	150	5,800	49	850	26 J	28 J	ND	320	ND	ND	13 J	ND	ND	ND	ND	20 J	ND	ND	ND	ND	ND	ND	13,000
Post-Rebound	2/20/2003	2_VEW_4_AV021903_0001	2-VEW-4	8.1 J	2,500	81	56	5.4 J	15	ND	9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,100
Post-Rebound	2/20/2003	2_VEW_1B_AV021903_0001	2-VEW-1B	ND	44,000	100 J	2,300	ND	92 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	89,000
Post-Rebound	2/20/2003	GAC002U_AV022003_0003	Influent (final)	65	4,000	27	450	12 J	13 J	ND	150	ND	ND	8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8,700

Notes:

All compounds are reported in parts per billion by volume, rounded to the nearest whole number.
Only compounds with detectable concentrations are provide in the table.
LFVCS = Low Flow Vapor Closure Sampling
ND = not detected
J = Estimated Result. Result is less than reporting limit
PCE = Tetrachloroethene
TCE = Trichloroethene
1,1,1-TCA = 1,1,1-Trichloroethane
1,1-DCE =- 1,1-Dichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
1,1-DCA = 1,1-Dichloroethane
MEK = methyl-ethyl-ketone
TNMHC = Total Non Methane Hydrocarbons

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TABLE 9
OVA READINGS DURING REBOUND MONITORING
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

	Pre-Rebound			Rebound			Post-Rebound
		Week 2	Week 4	Week 6	Week 10	Week 14	
Date	**11/11/02**	**11/25/02**	**12/09/02**	**12/23/02**	**01/20/03**	**02/14/03**	**02/20/03**
Western Wells	**Laboratory (ppmv)**	**OVA (1) (ppmv)**	**OVA (1) (ppmv)**	**OVA (1) (ppmv)**	**OVA (1) (ppmv)**	**OVA (1) (ppmv)**	**OVA (1) (ppmv)**
2-VEW-1B	15.3	11.0	26.0	22.0	6.3	1.8	115
2-VEW-4	2.1	5.0	3.0	6.5	4.2	1.6	9.2
2-VEW-8B	3.9	2.0	2.0	3.1	3.5	1.0	15
	OVA (2) (ppmv)	**OVA (2) (ppmv)**	**OVA (2) (ppmv)**	**OVA (2) (ppmv)**	**OVA (2) (ppmv)**	**OVA (2) (ppmv)**	**OVA (2) (ppmv)**
2-VEW-1B	24.5	98.5	415.0	102.0	29.0	3.4	550
2-VEW-4	17.5	11.6	17.2	16.0	17.0	5.8	27
2-VEW-8B	37.1	6.8	18.7	8.1	22.0	3.5	66

Date	**10/16/02**	**11/25/02**	**12/09/02**	**12/23/02**	**01/20/03**	**02/14/03**	**02/20/03**
Eastern Wells	**Laboratory (ppmv)**	**OVA (1) (ppmv)**	**OVA (1) (ppmv)**	**OVA (1) (ppmv)**	**OVA (1) (ppmv)**	**OVA (1) (ppmv)**	**OVA (1) (ppmv)**
2-VEW-9	2.6	3.5	4.0	9.5	16	0.8	11
2-VEW-10B	6.4	2.3	2.0	3.1		3	12
2-VEW-11B	6.8	4.7	6.0	1.5	1	0.6	20
2-VEW-15B	10.5	2.9	2.0	5.6	6.2	0.2	15
2-VEW-19	3.7	2.6	2.0	4.0	7	1.1	10
	OVA (2) (ppmv)	**OVA (2) (ppmv)**	**OVA (2) (ppmv)**	**OVA (2) (ppmv)**	**OVA (2) (ppmv)**	**OVA (2) (ppmv)**	**OVA (2) (ppmv)**
2-VEW-9	18.7	38.2	34.4	50.0	75.0	3.1	59
2-VEW-10B	32.5	17.3	14.1	20.0		22.0	56
2-VEW-11B	39.6	53.0	57.8	5.5	6.7	2.2	80
2-VEW-15B	28.7	23.5	14.7	24.0	27.0	1.0	56
2-VEW-19	20.1	22.4	19.3	20.0	52.0	6.0	49

Notes:
(1) Measurements taken with Foxboro OVA-128 FID calibrated to Hexane. Results as Hexane.
(2) Measurements taken with a MiniRae 2000 PID calibrated to 100 ppmv Hexane, results as Hexane.
ppmv = parts per million by volume
blank cell = data was not collected due to damaged well head
PID = photoionization detector
FID = flame ionization detector

BOE-C6-0005071

TABLE 10
PERCENT CHANGE IN ANALYTICAL VAPOR REBOUND RESULTS
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

Date	Baseline 11/11/02	Low Flow Vapor Closure 02/19/03	Post-Rebound Closure 02/20/03	Change from Baseline to Low Flow Concentrations	Change from Baseline to Post-Rebound Concentrations	Change from Low Flow to Post-Rebound Concentrations
Western Wells	**TCE (ppmv)**	**TCE (ppmv)**	**TCE (ppmv)**			
2-VEW-1B	15.0	2.3	44.0	***-85%***	193%	1813%
2-VEW-4	1.9	4.9	2.5	158%	32%	***-49%***
2-VEW-8B	2.7	9.7	5.8	259%	115%	***-40%***
	TNMHC (ppmv)	**TNMHC (ppmv)**	**TNMHC (ppmv)**			
2-VEW-1B	26.0	4.6	89.0	***-82%***	242%	1835%
2-VEW-4	4.5	9.9	5.1	120%	13%	***-48%***
2-VEW-8B	7.2	20.0	13.0	178%	81%	***-35%***
Date	**10/16/02**	**02/19/03**	**02/20/03**			
Eastern Wells	**TCE (ppmv)**	**TCE (ppmv)**	**TCE (ppmv)**			
2-VEW-9	1.9	5.2	6.0	174%	216%	15%
2-VEW-10B	3.9	8.5	6.0	118%	54%	***-29%***
2-VEW-11B	3.5	2.4	8.2	***-31%***	134%	242%
2-VEW-15B	2.7	5.4	5.5	100%	104%	2%
2-VEW-19	2.1	4.9	3.8	133%	81%	***-22%***
	TNMHC (ppmv)	**TNMHC (ppmv)**	**TNMHC (ppmv)**			
2-VEW-9	4.0	10.0	12.0	150%	200%	20%
2-VEW-10B	11.0	18.0	13.0	64%	18%	***-28%***
2-VEW-11B	15.0	4.9	19.0	***-67%***	27%	288%
2-VEW-15B	10.0	11.0	17.0	10%	70%	154%
2-VEW-19	5.0	9.7	8.8	94%	76%	***-9%***

Notes:
ppmv = parts per million by volume
TCE = Trichloroethene
TNMHC = total non-methane hydrocarbons
Baseline data was collected at the initiation of rebound sampling

TABLE 11
EXTENDED PILOT TEST SOIL SAMPLING RESULTS
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

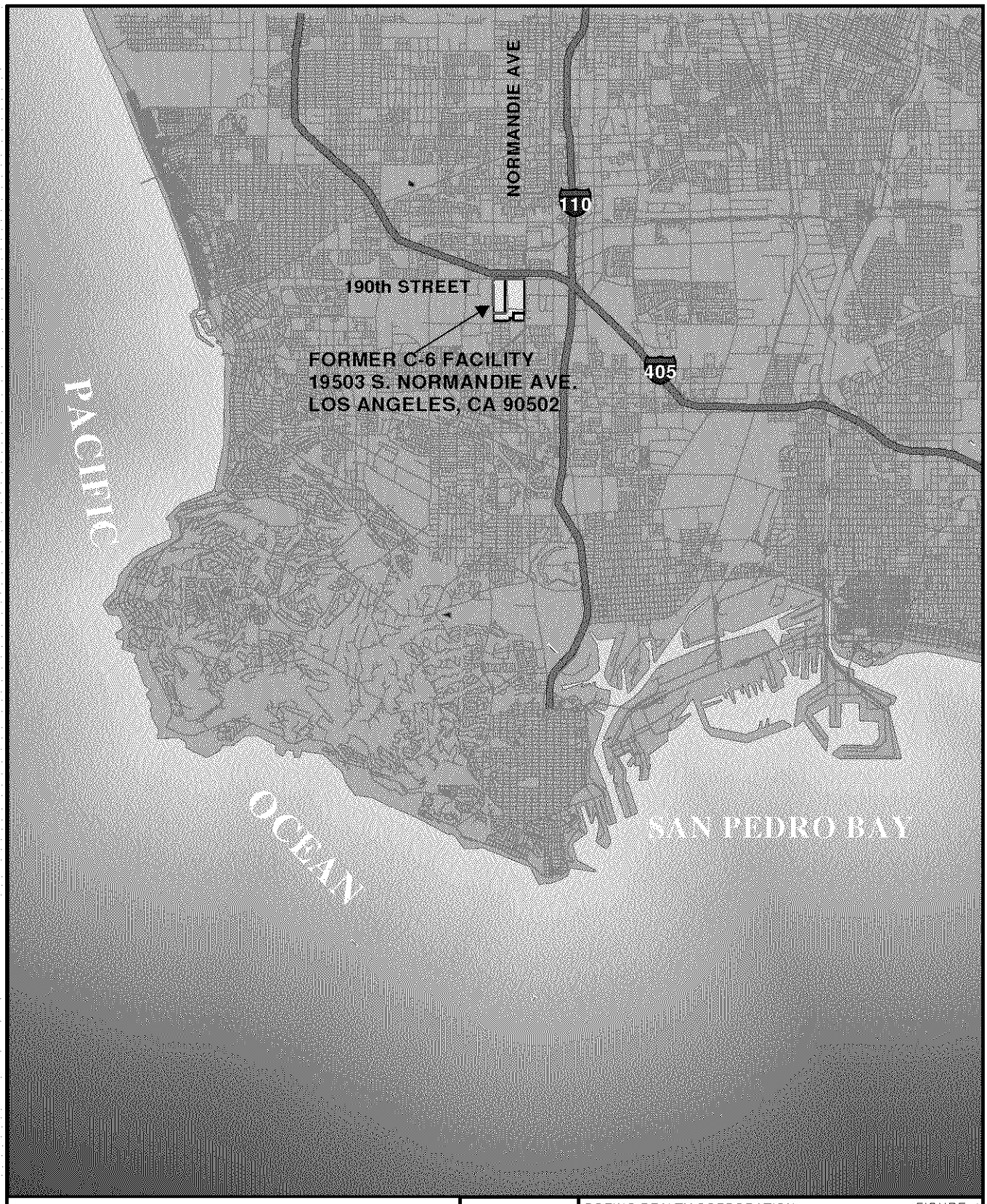
PRE-SVE SOIL BORING	SAMPLE DEPTH (FEET BGS)	PRE-SVE TCE CONCENTRATION (ug/kg)	AUGUST 2002 SOIL BORING	SAMPLE DEPTH (FEET BGS)	AUGUST 2002 TCE CONCENTRATION (ug/kg)	LOCATION OF AUGUST 2002 SAMPLE IN RELATION TO PRE-SVE SAMPLE	APPROXIMATE CONCENTRATION REDUCTION (%)*
C-2-143	25	160	SB1000_SSA080102_0001	25	< 2.0	5 feet west	98.75
C-2-26-1	25	160	2_VEW_19_SSC080102_0001	25	< 2.0	35 feet west	98.75
C-2-26-2	25	37	2_VEW_18_SSC080102_0001	25	< 2.0	25 feet west	94.59
C-2-143	40	ND	SB1000_SSB080102_0001	50	< 2.0	5 feet west	NA
S24-3	40	220	SB1001_SSB080102_0001	40	380	20 feet northeast	**
C-2-26-1	40	ND	2_VEW_19_SSB080102_0001	40	< 2.0	35 feet west	NA
C-2-26-2	40	ND	2_VEW_18_SSB080102_0001	40	< 2.0	25 feet west	NA
C-2-143	50	450	SB1000_SSC080102_0001	50	3.6 J	5 feet west	99.20
C-2-26-1	50	200	2_VEW_19_SSC080102_0001	50	< 2.0	35 feet west	99.00
C-2-26-2	50	130	2_VEW_18_SSC080102_0001	50	< 2.0	25 feet west	98.46
S24-3	50	450	SB1001_SSC080102_0001	50	7	20 feet north	98.44
S24-5	50	82,000	SB1001_SSC080102_0002	50	< 2.0	10 feet southeast	100.00

PRE-SVE SOIL BORING	SAMPLE DEPTH (FEET BGS)	PRE-SVE TCE CONCENTRATION (ug/kg)	SEPTEMBER 2002 SOIL BORING	SAMPLE DEPTH (FEET BGS)	SEPTEMBER 2002 TCE CONCENTRATION (ug/kg)	LOCATION OF SEPTEMBER 2002 SAMPLE IN RELATION TO PRE-SVE SAMPLE	APPROXIMATE CONCENTRATION REDUCTION (%)*
S24-5	20	58	2-VEW-20_SSA080102_0001	25	< 2.0	10 feet east	96.55
C-2-26	25	400	SB1003_SSA092302_0001	25	< 2.0	same	99.50
C-2-26-1	25	160	SB1002_SSA092302_0001	25	< 2.0	10 feet northwest	98.75
C-2-26	30	140	SB1003_SSA092302_0001	30	< 2.0	same	98.57
S24-3	30	ND	SB1004_SSA092302_0001	30	< 2.0	10 feet northwest	NA
C-2-26	40	290	SB1003_SSA092302_0001	40	< 2.0	same	99.31
C-2-26-1	40	ND	SB1002_SSA092302_0001	40	< 2.0	10 feet northwest	NA
S24-3	40	220	SB1004_SSA092302_0001	40	< 2.0	10 feet northwest	99.09
S24-5	40	64	2-VEW-20_SSB080102_0001	40	< 2.0	10 feet east	96.88
C-2-26	50	240	SB1003_SSA092302_0001	40	27	same	88.75
C-2-26-1	50	200	SB1002_SSA092302_0001	40	110	10 feet northwest	45.00
S24-5	50	82000	2-VEW-20_SSA080102_0001	50	< 5.0	10 feet east	99.99
S24-5	50	82000	2-VEW-21_SS50_0001	50	< 5.0	25 feet west	99.99
S24-3	50	450	SB1004_SSA092302_0001	40	< 2.0	10 feet northwest	99.56

PRE-SVE SOIL BORING	SAMPLE DEPTH (FEET BGS)	PRE-SVE	JANUARY 2003 SOIL BORING	SAMPLE DEPTH (FEET BGS)	JANUARY 2003 TCE CONCENTRATION (ug/kg)	LOCATION OF SEPTEMBER 2002 SAMPLE IN RELATION TO PRE-SVE SAMPLE	APPROXIMATE CONCENTRATION REDUCTION (%)*
C-2-26-2	50	130	SB1005_SS45_0001	45	< 5.0	25 feet northeast	96.15
C-2-26-2	50	130	SB1005_SS5_0001	55	6.7	25 feet northeast	94.85
S24-5	40	64	SB1006_SS45_0001	50	< 5.0	25 feet southwest	92.19
S24-5	50	82,000	SB1006_SS55_0001	50	370	25 feet southwest	99.55

Notes:
J = Result is below laboratory reporting limit, result estimated.
< 2.0 = Not detected above method detection limit of 2.0 ug/kg
ND = Not detected above method detection limit
NA = Not applicable
BGS = Below ground surface
ug/kg = Micrograms per kilogram
* = To calculate % reduction for samples below method detection limit, the concentration is assumed to be the method detection limit (2.0 ug/kg)
** = August 2002 TCE sample result (SB1001) greater than previous sample (S-24-3) collected 20 feet to the southwest
SVE = Soil vapor extraction
TCE = Trichloroethene

BOE-C6-0005073



N

2 1 0 2 Miles

28937

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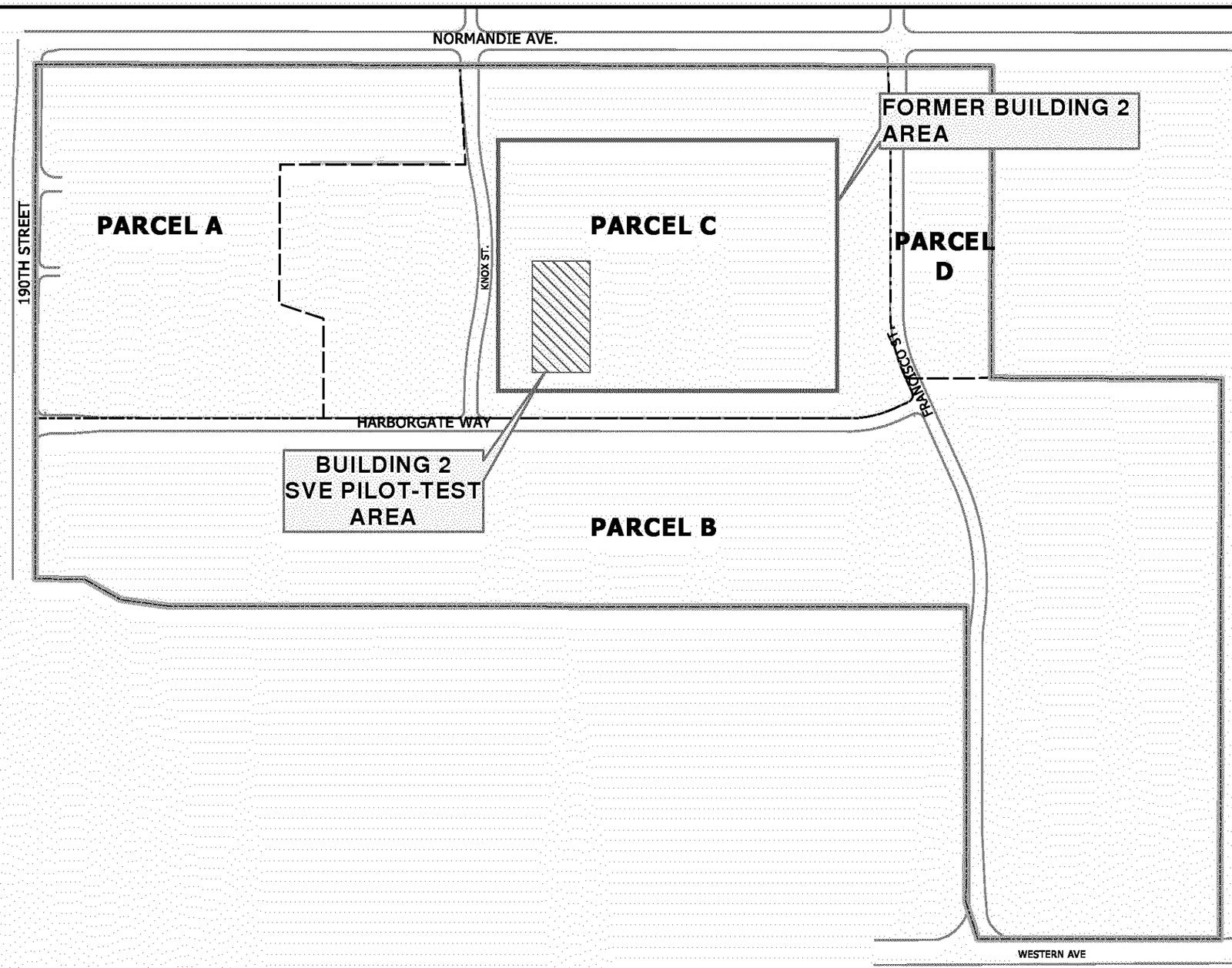
BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

FIGURE 1

SITE LOCATION PLAN

SCALE AS SHOWN

FEBRUARY 2003



Legend

Property Boundary

Parcel Boundary

N

All Locations and Dimensions are Approximate

0 200 400 800 Feet

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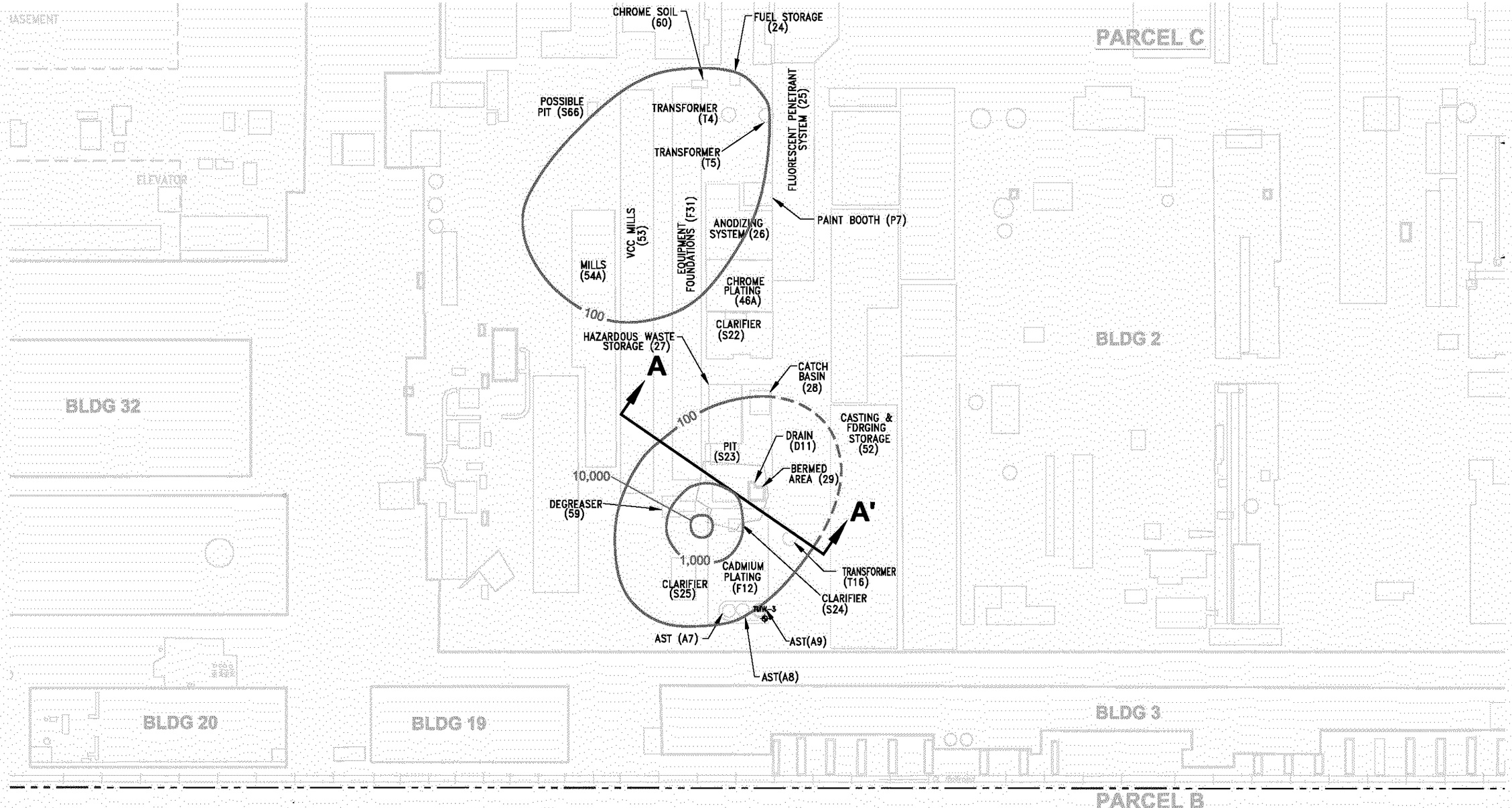
FIGURE 2

SVE SYSTEM LOCATION BUILDING 2

SCALE AS SHOWN

MARCH 2003

28997-005



LEGEND

— — — —	PARCEL C BOUNDARY
═══	PRE-SVE COMPOSITE TCE ISOCONCENTRATION FROM 15 TO 50 FEET BGS
AST	ABOVE-GROUND STORAGE TANK
(S25)	ENVIRONMENTAL FEATURE NUMBER FROM SAMPLING AND ANALYSIS PLAN (KENNEDY JENKS CONSULTANTS, 2000)

N

0 20 40 80

FEET

ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE

SOURCE OF BASEMAP: KENNEDY JENKS CONSULTANTS, 2000, SAMPLING AND ANALYSIS PLAN, BOEING REALTY CORPORATION'S C-6 FACILITY, PARCEL C, LOS ANGELES, CA, AUGUST 16, 2000.

28997B21-AC

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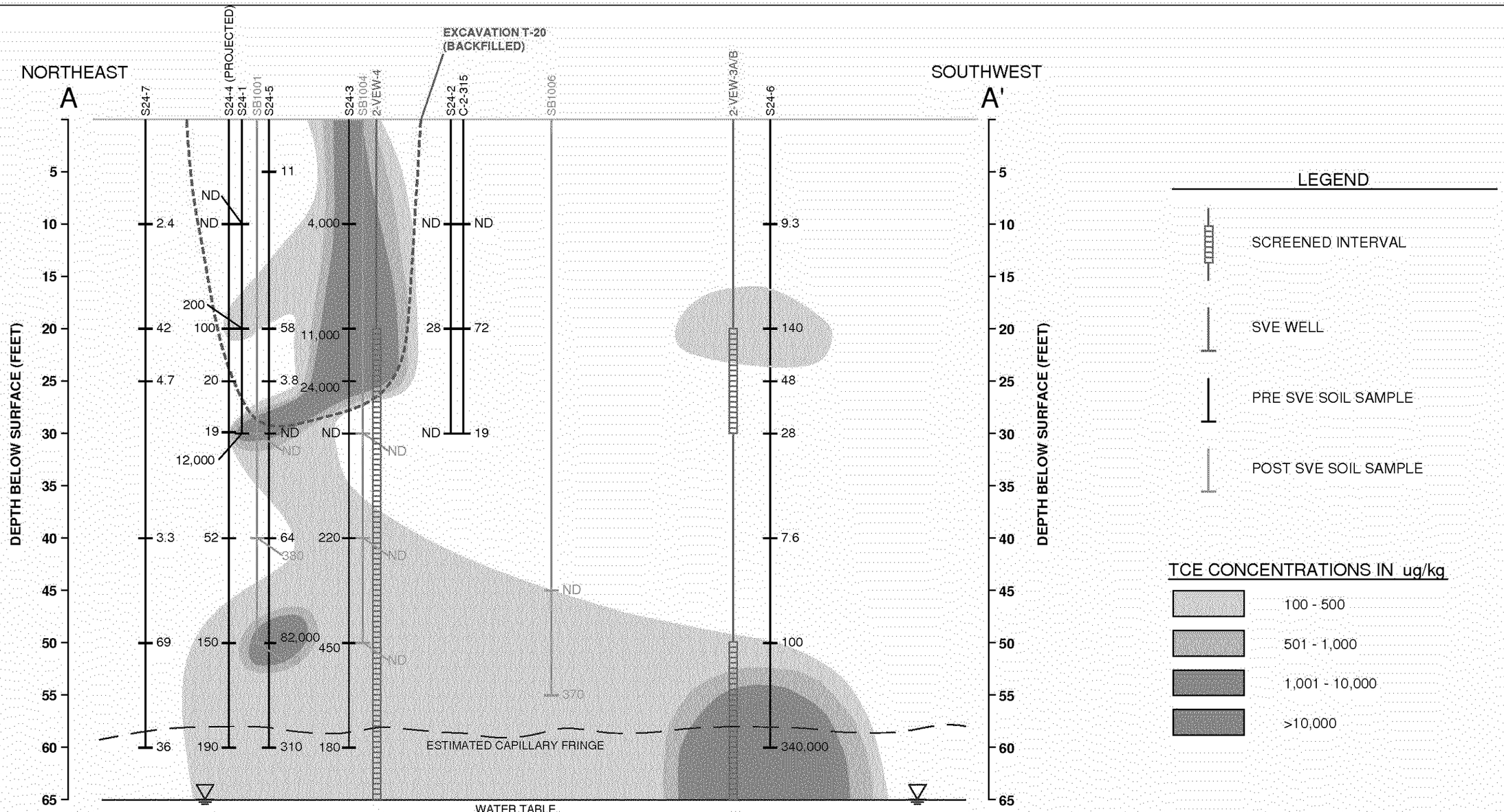
FIGURE 3

PRE-SVE COMPOSITED TCE CONCENTATIONS FROM 15 TO 50 FEET BGS

SCALE: AS SHOWN

MARCH 2003



LEGEND

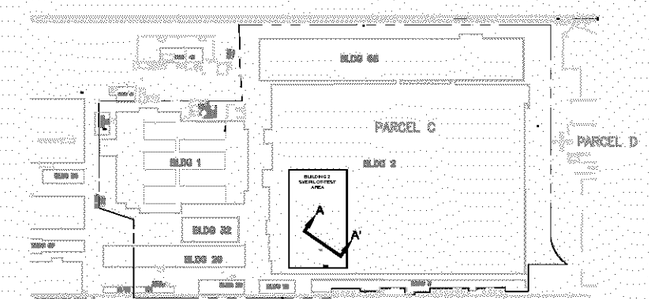
ND NOT DETECTED ABOVE LABORATORY DETECTION LIMITS. PLEASE SEE THE VOLATILE ORGANIC COMPOUNDS IN SOIL BORINGS (TABLE 1) FOR DETECTION LIMITS.

150 TCE CONCENTRATION IN MICROGRAMS PER KILOGRAM (μg/kg)

*** NOTE! APPROXIMATE SURFACE ELEVATION AT TIME OF INVESTIGATION WAS 51.5 FEET MSL.**

HORIZONTAL SCALE
0 5 10 20
FEET
VERTICAL EXAGGERATION = 2X
ALL DIMENSIONS AND LOCATIONS APPROXIMATE

28997B17-AC



CROSS-SECTION LOCATION

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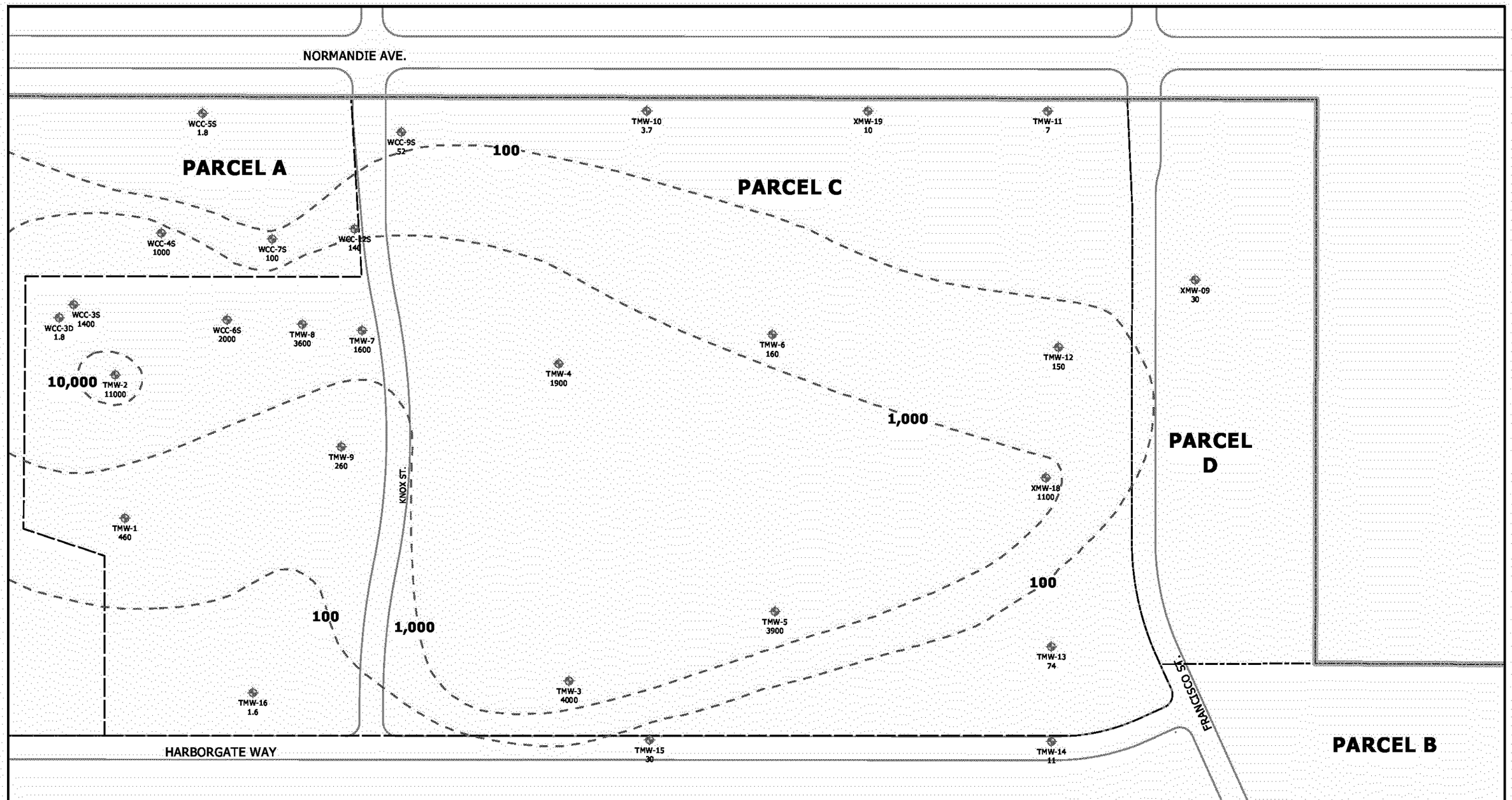
FIGURE 4

TCE CONCENTRATIONS IN SOIL
BUILDING 2 AREA
CROSS-SECTION A-A'

SCALE: AS SHOWN

MARCH 2003



Legend

Groundwater Monitoring Well with TCE Concentration in ug/L

Contour of Equel TCE Concentration in ug/L

Property Boundary

Parcel Boundary

Note:
TCE = Trichloroethene
MBFB = Middle Bellflower B-Sand
Only Sampled Wells Shown

All Locations and Dimensions are Approximate

0 150 300 Feet

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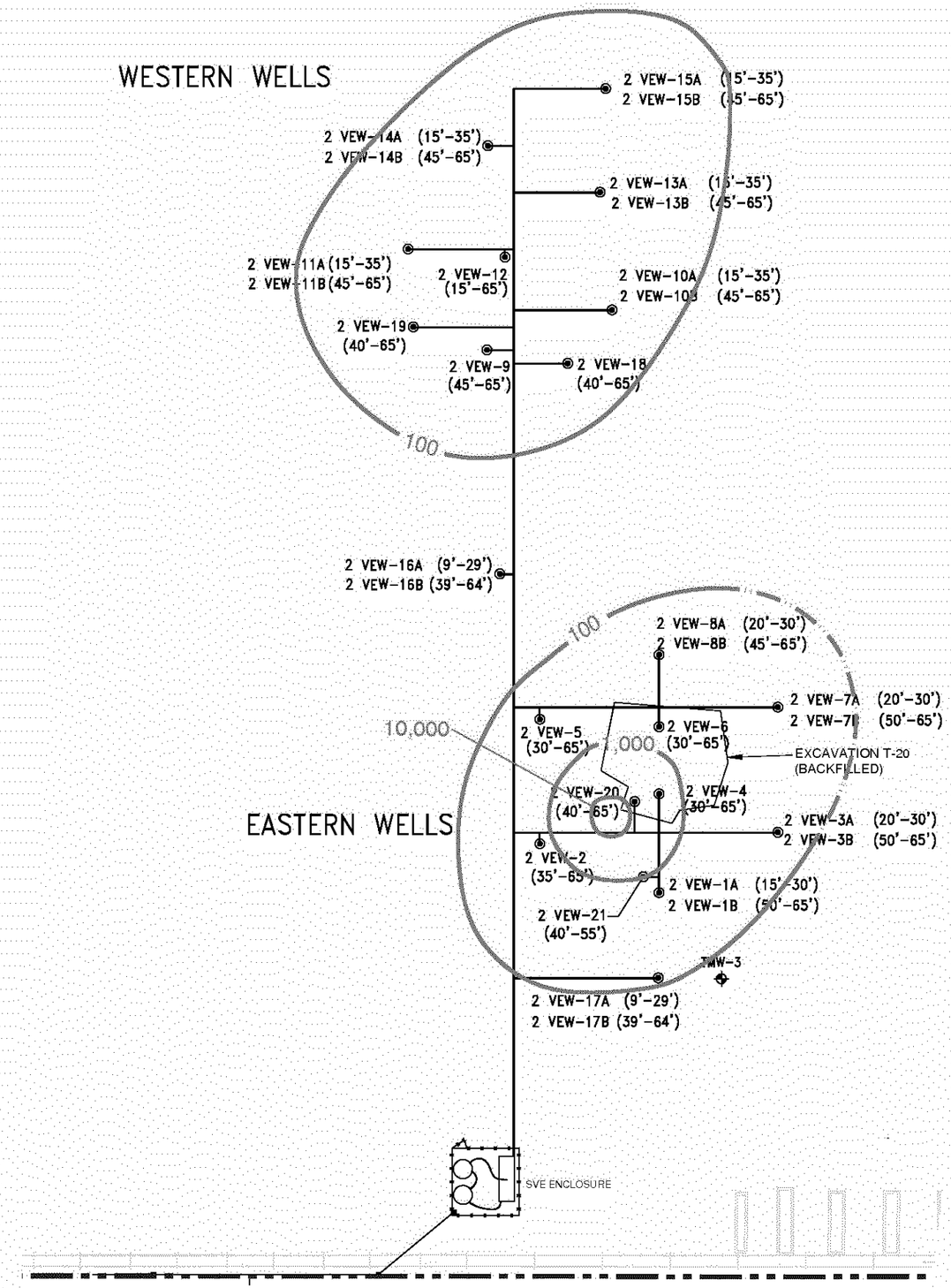
FIGURE 5

TCE DISTRIBUTION IN GROUNDWATER - MARCH 2002

SCALE AS SHOWN

MARCH 2003



LEGEND

- VAPOR EXTRACTION WELL
- GROUNDWATER MONITOR WELL
- ABOVE-GROUND PIPING
- (15'-30') SCREENED INTERVALS (FEET BELOW GROUND SURFACE)
- PPMV PARTS PER MILLION BY VOLUME
- PRE-SVE COMPOSITE TCE CONTOUR FROM 15' TO 50' BGS

N

0 15 30 60

ALL DIMENSIONS AND LOCATIONS APPROXIMATE

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FIGURE 6

BUILDING 2 SVE
WELLFIELD LAYOUT

SCALE: AS SHOWN

MARCH 2003

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BOE-C6-0005079

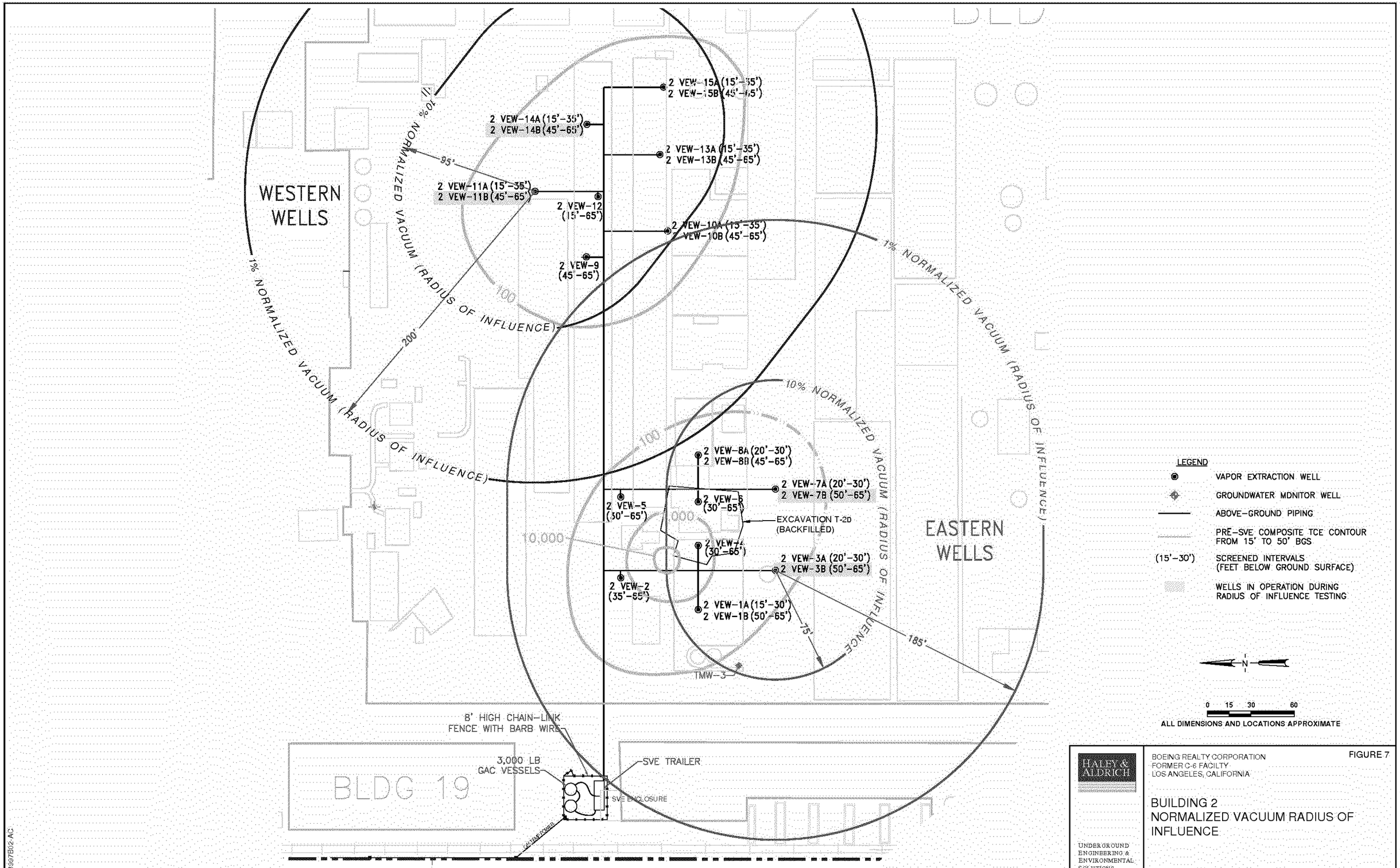
WESTERN WELLS
EASTERN WELLS
BLDG 19
10% NORMALIZED VACUUM (RADIUS OF INFLUENCE)
1% NORMALIZED VACUUM (RADIUS OF INFLUENCE)
95'
200'
185'
75'
100
10,000
2 VEW-15A (15'-35')
2 VEW-15B (45'-65')
2 VEW-14A (15'-35')
2 VEW-14B (45'-65')
2 VEW-13A (15'-35')
2 VEW-13B (45'-65')
2 VEW-11A (15'-35')
2 VEW-11B (45'-65')
2 VEW-12 (15'-65')
2 VEW-10A (15'-35')
VEW-10B (45'-65')
2 VEW-9 (45'-65')
2 VEW-8A (20'-30')
2 VEW-8B (45'-65')
2 VEW-7A (20'-30')
2 VEW-7B (50'-65')
2 VEW-5 (30'-65')
2 VEW-6 (30'-65')
EXCAVATION T-2D (BACKFILLED)
2 VEW-4 (30'-65')
2 VEW-3A (20'-30')
2 VEW-3B (50'-65')
2 VEW-2 (35'-65')
2 VEW-1A (15'-30')
2 VEW-1B (50'-65')
TMW-3
8' HIGH CHAIN-LINK FENCE WITH BARB WIRE
3,000 LB GAC VESSELS
SVE TRAILER
SVE ENCLOSURE
LEGEND
VAPOR EXTRACTION WELL
GROUNDWATER MONITOR WELL
ABOVE-GROUND PIPING
PRE-SVE COMPOSITE TCE CONTOUR FROM 15' TO 50' BGS
(15'-30') SCREENED INTERVALS (FEET BELOW GROUND SURFACE)
WELLS IN OPERATION DURING RADIUS OF INFLUENCE TESTING
N
0 15 30 60
ALL DIMENSIONS AND LOCATIONS APPROXIMATE
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FIGURE 7
BUILDING 2
NORMALIZED VACUUM RADIUS OF INFLUENCE
SCALE: AS SHOWN
MARCH 2003
28997B02.AC

FIGURE 8
BUILDING 2 SVE SYSTEM MONTHLY PERCENT OPERATION

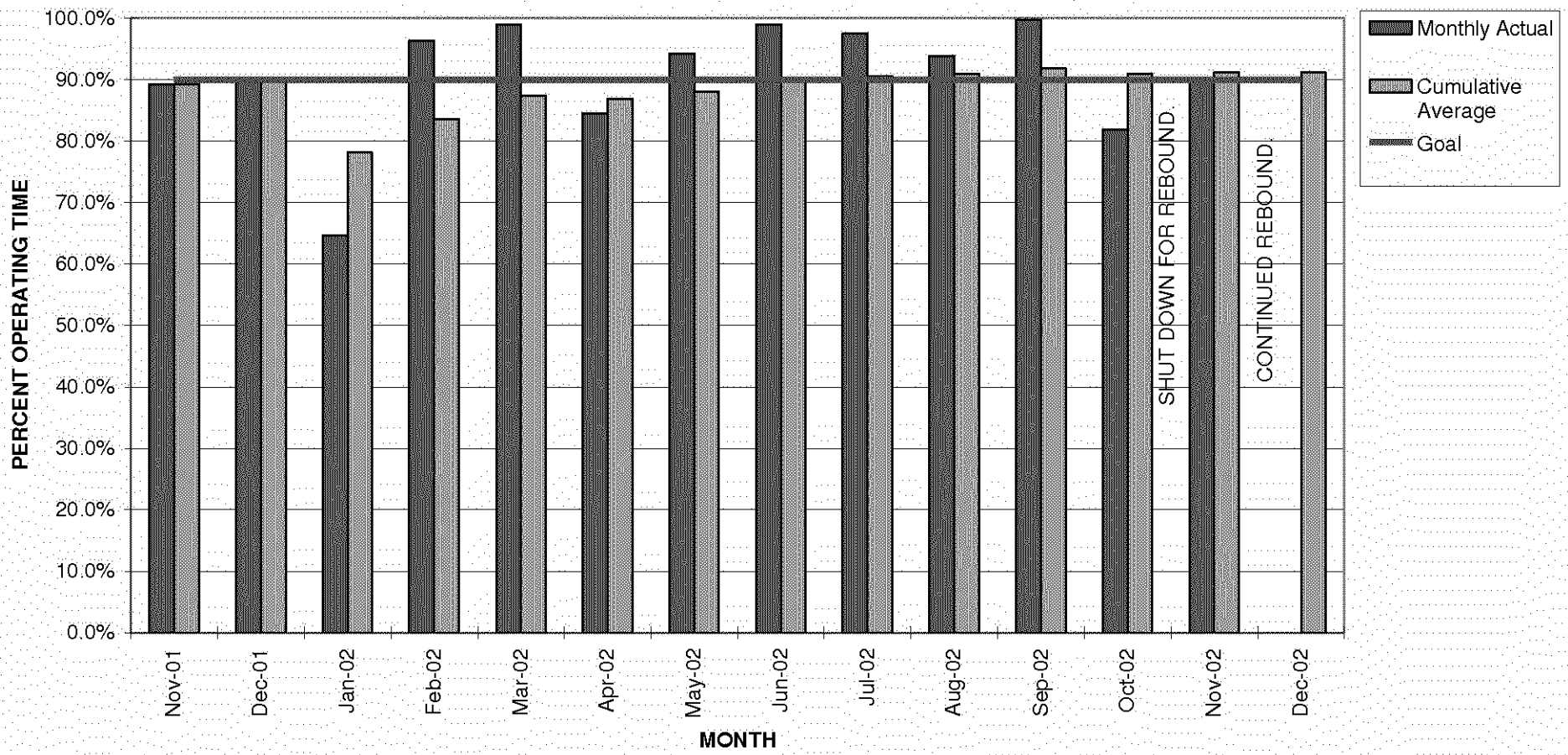
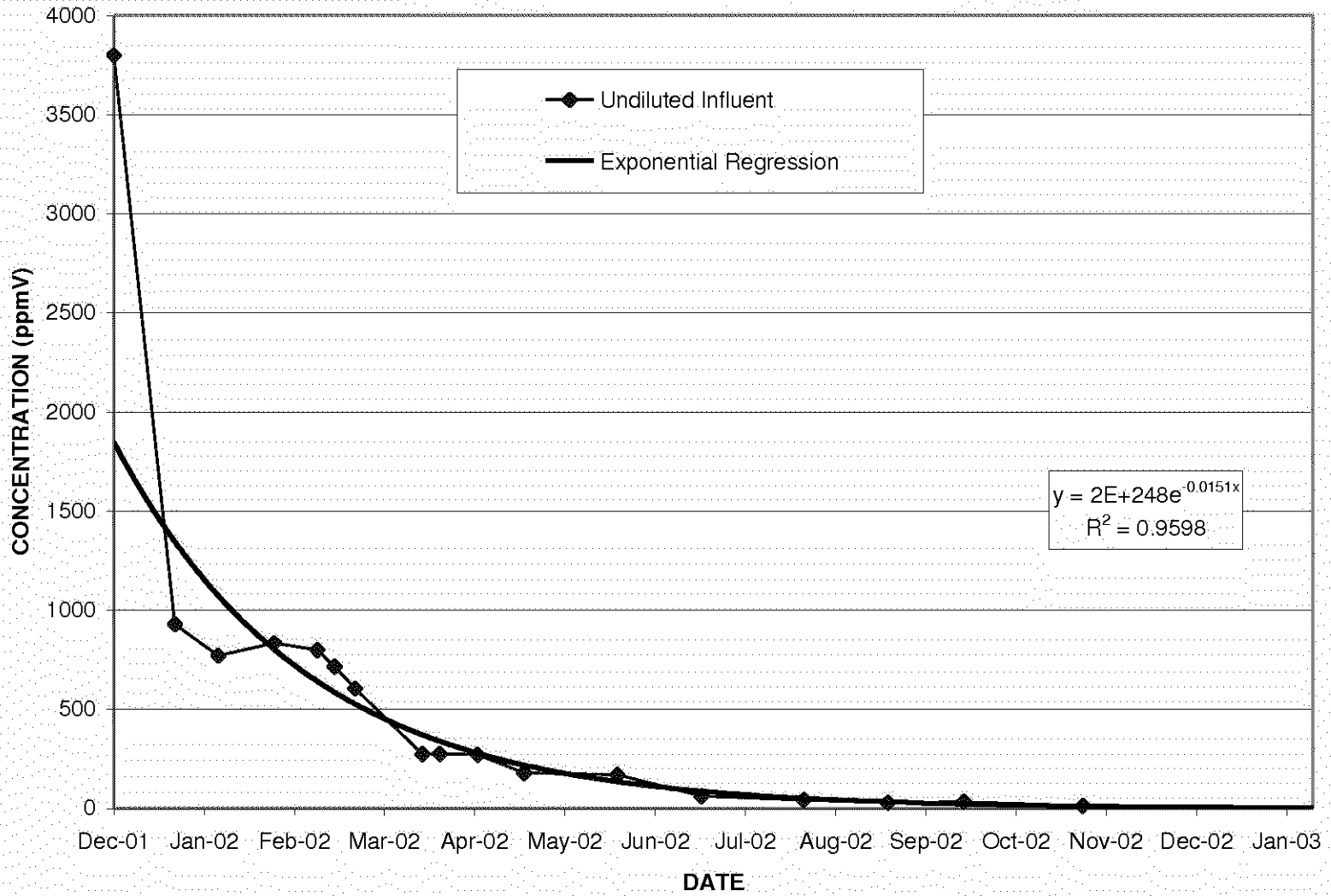
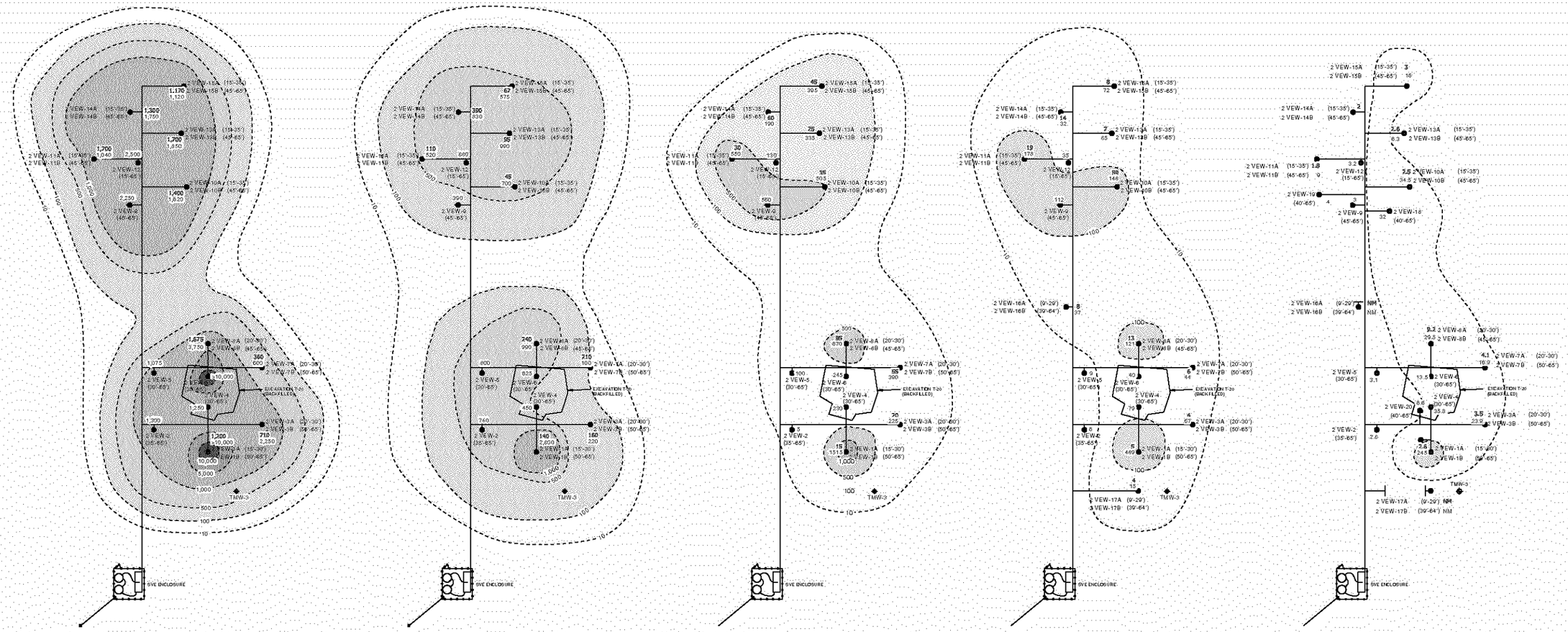


FIGURE 9
BUILDING 2 SVE SYSTEM REGRESSION ANALYSIS
CONCENTRATION REDUCTION





Legend

- SVE - 10 ppmv - 100 ppmv
- SVE - 100 ppmv - 500 ppmv
- SVE - 500 ppmv - 1000 ppmv
- SVE - 1000 ppmv - 5000 ppmv
- SVE - 5000 ppmv - 10000 ppmv
- SVE - 10000+ ppmv

TMW-3 — Groundwater Monitoring Well

2 VEW -7A, 2 VEW -7B — Vapor Extraction Well

1,675 SHALLOW

3,750 DEEP

N

28997-005

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LOS ANGELES, CALIFORNIA

FIGURE 10

BUILDING 2
WELL HEAD VOC
CONCENTRATION CONTOURS

NOT TO SCALE

MARCH 2003

FIGURE 11
BUILDING 2 CUMULATIVE VOLATILE ORGANIC COMPOUND MASS REMOVED

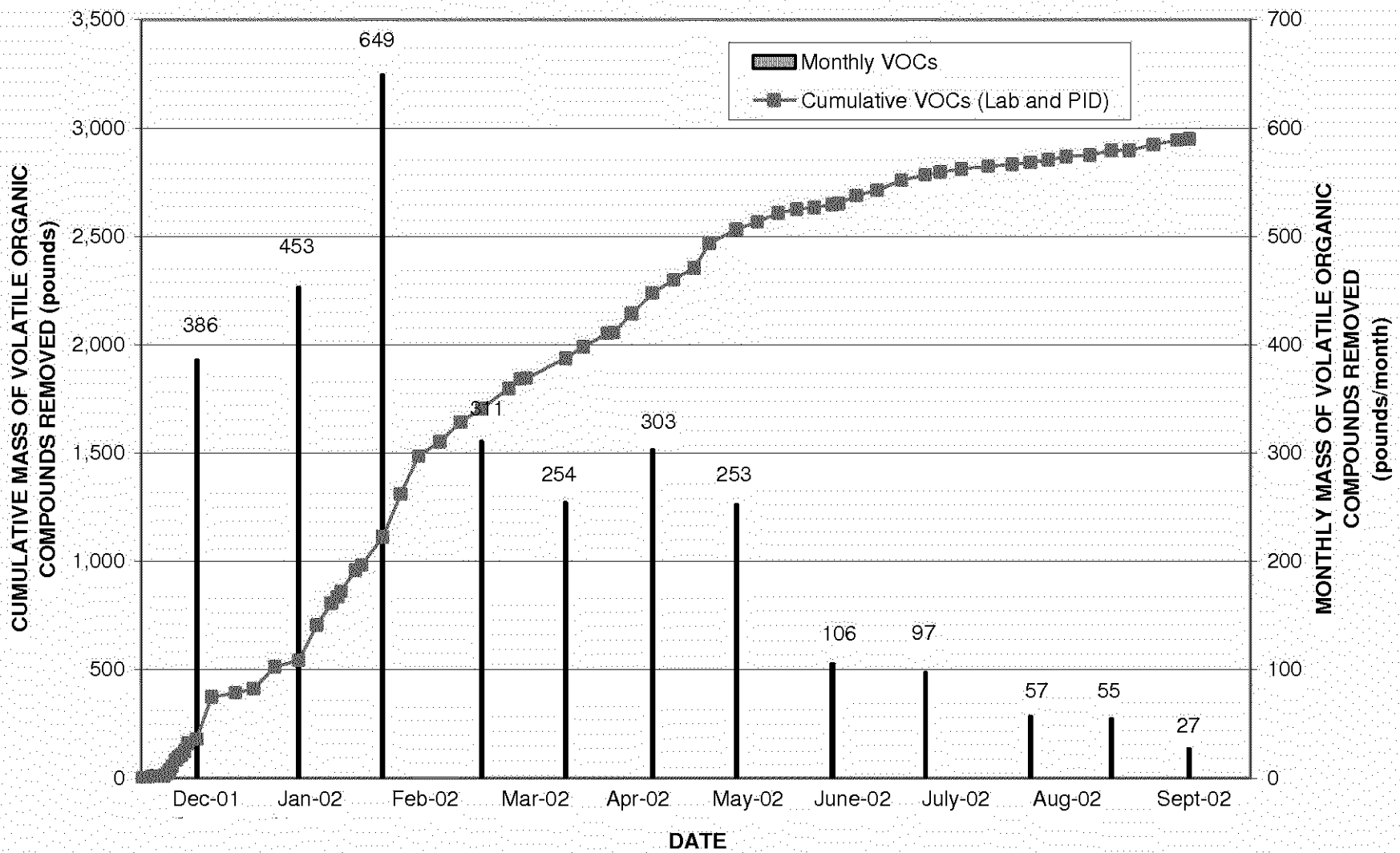


FIGURE 12
BUILDING 2 KEY EASTERN WELLS
FID REBOUND SAMPLE RESULTS

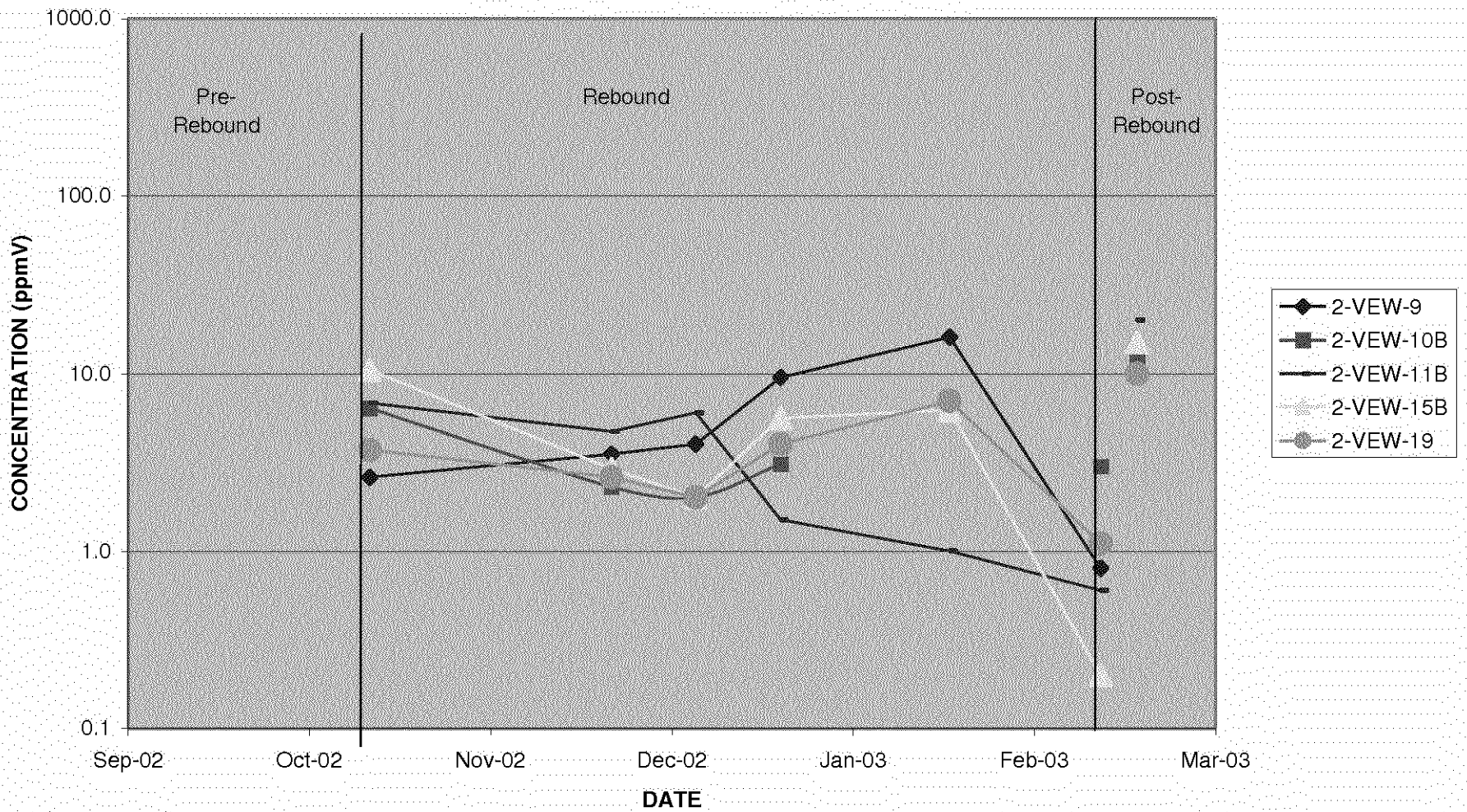


FIGURE 13
BUILDING 2 KEY EASTERN WELLS
PID REBOUND SAMPLE RESULTS

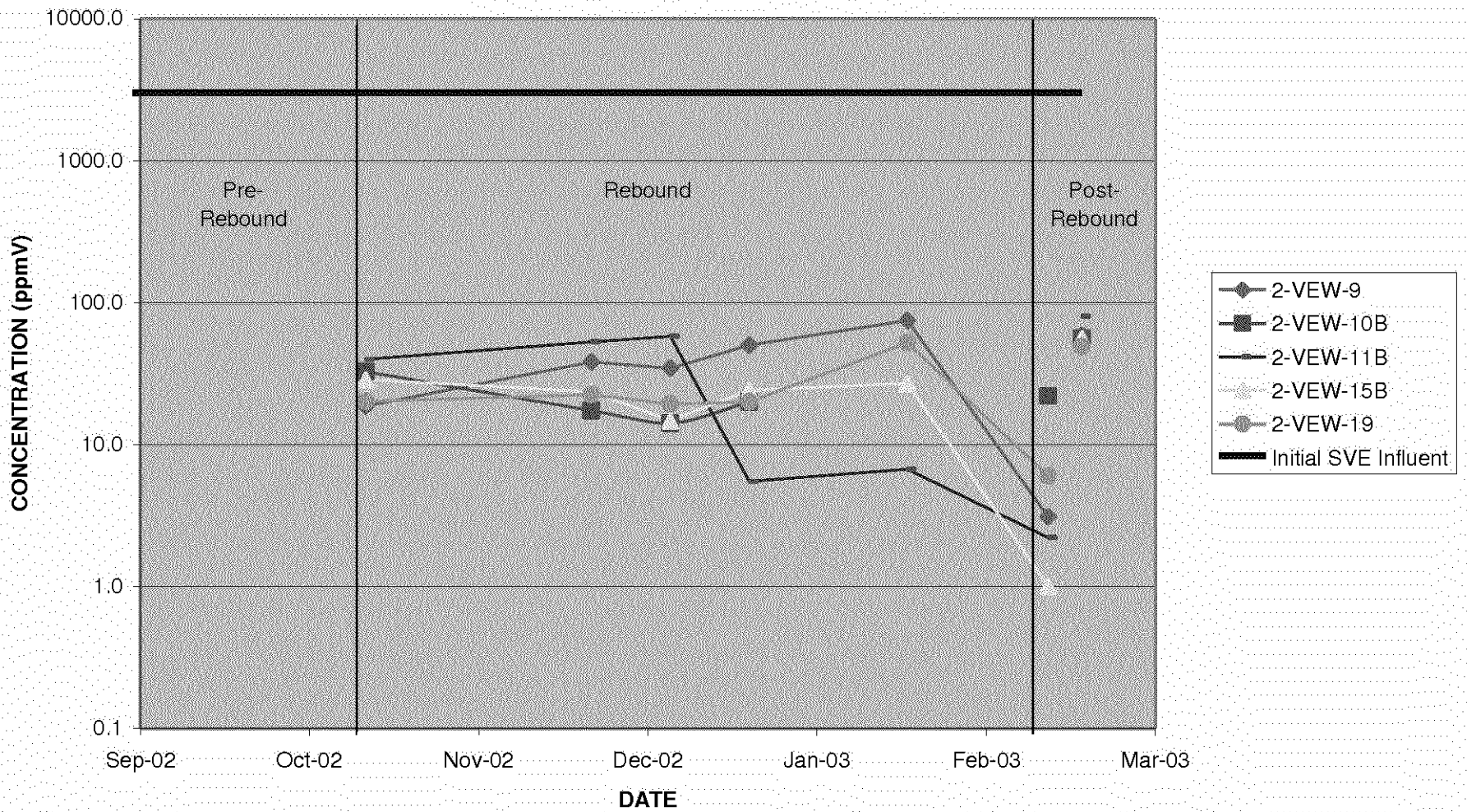


FIGURE 14
BUILDING 2 KEY WESTERN WELLS
FID REBOUND SAMPLE RESULTS

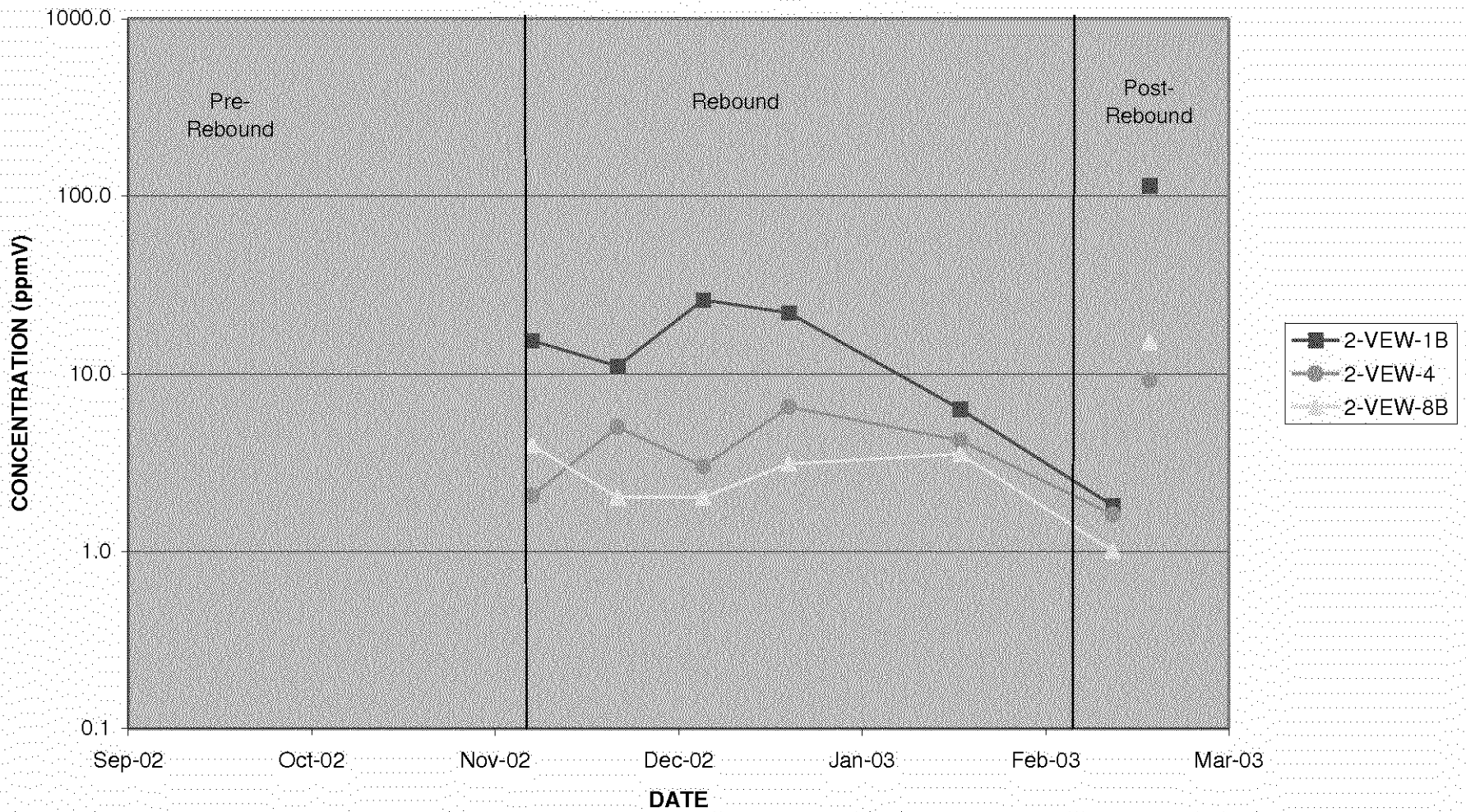
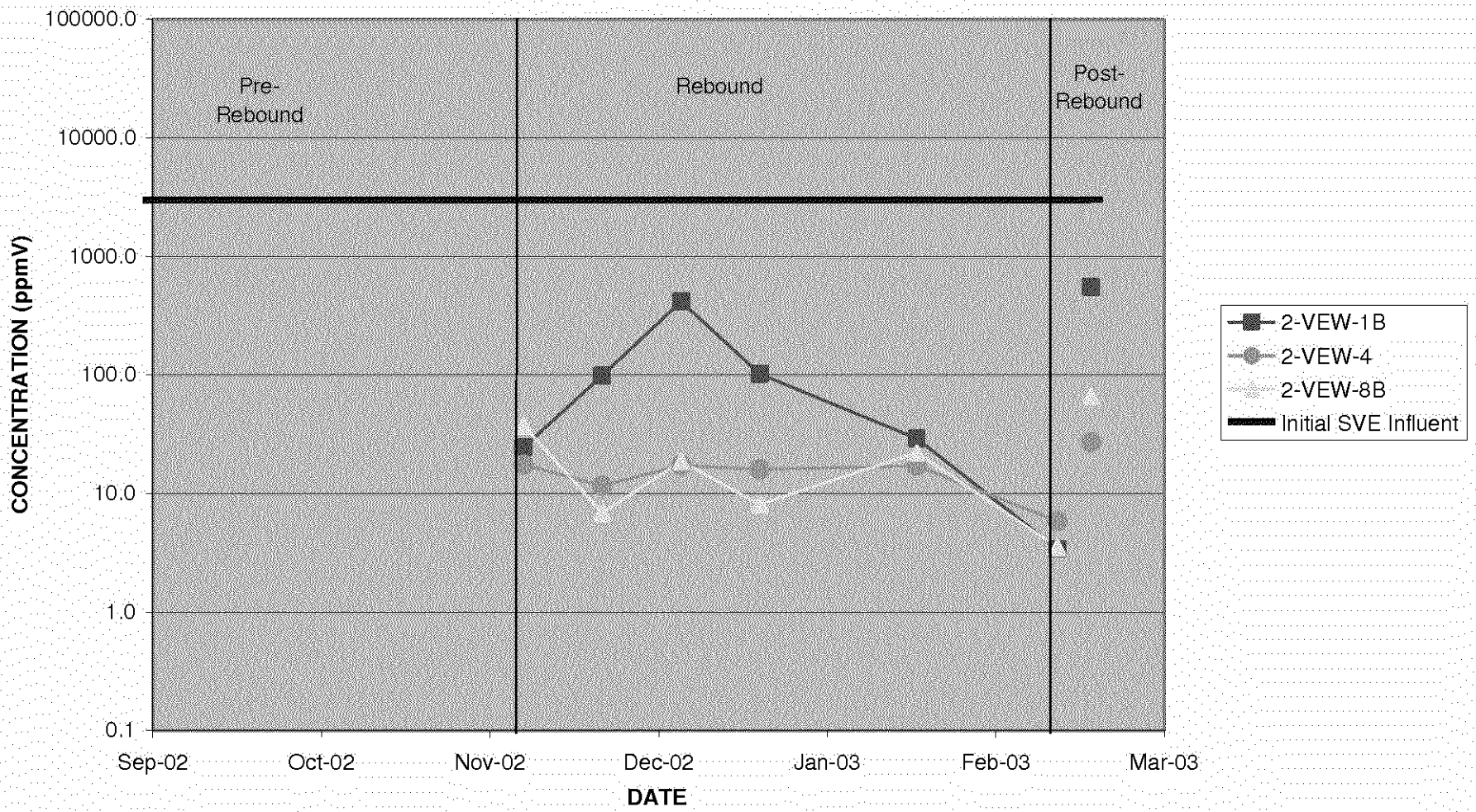
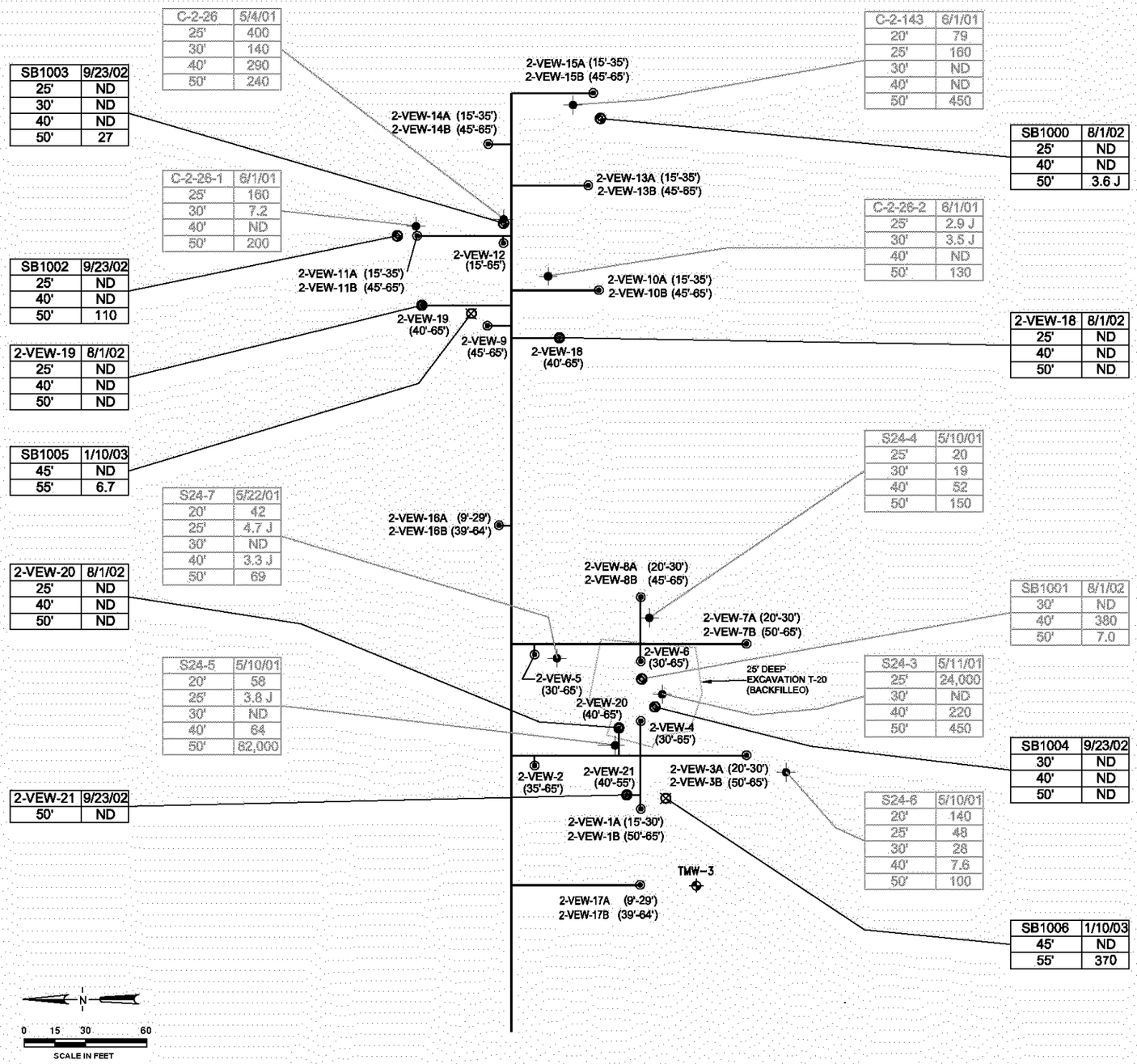


FIGURE 15
BUILDING 2 KEY WESTERN WELLS
PID REBOUND SAMPLE RESULTS





C-2-26	5/4/01
25'	400
30'	140
40'	290
50'	240

SB1003	9/23/02
25'	ND
30'	ND
40'	ND
50'	27

C-2-26-1	6/1/01
25'	160
30'	7.2
40'	ND
50'	200

SB1002	9/23/02
25'	ND
40'	ND
50'	110

2-VEW-19	8/1/02
25'	ND
40'	ND
50'	ND

SB1005	1/10/03
45'	ND
55'	6.7

S24-7	5/22/01
20'	42
25'	4.7 J
30'	ND
40'	3.3 J
50'	69

2-VEW-20	8/1/02
25'	ND
40'	ND
50'	ND

S24-5	5/10/01
20'	58
25'	3.8 J
30'	ND
40'	64
50'	82,000

2-VEW-21	9/23/02
50'	ND

C-2-143	6/1/01
20'	79
25'	160
30'	ND
40'	ND
50'	450

SB1000	8/1/02
25'	ND
40'	ND
50'	3.6 J

C-2-26-2	6/1/01
25'	2.9 J
30'	3.5 J
40'	ND
50'	130

2-VEW-18	8/1/02
25'	ND
40'	ND
50'	ND

S24-4	5/10/01
25'	20
30'	19
40'	52
50'	150

SB1001	8/1/02
30'	ND
40'	380
50'	7.0

S24-3	5/11/01
25'	24,000
30'	ND
40'	220
50'	450

SB1004	9/23/02
30'	ND
40'	ND
50'	ND

S24-6	5/10/01
20'	140
25'	48
30'	28
40'	7.6
50'	100

SB1006	1/10/03
45'	ND
55'	370

NOTES
1. SURVEY DATA PROVIDED BY TAIT ENVIRONMENTAL, INC.
2. ALL CONCENTRATIONS IN UNITS OF MICROGRAMS PER KILOGRAM (ug/Kg).
3. APPROXIMATE SURFACE ELEVATION AT TIME OF INVESTIGATION WAS 51.5 FEET MSL.
4. ND = NOT DETECTED ABOVE LABORATORY METHOD 8260B DETECTION LIMIT OF 2.0 (ug/Kg) FOR TCE.
5. J = RESULT IS BELOW LABORATORY REPORTING LIMIT (5.0 ug/Kg) AND IS ESTIMATED.
6. 2001 - PRE-SVE TREATMENT
7. 2002 - SVE TREATMENT
8. 2003 - POST SVE TREATMENT

LEGEND

- PRE-SVE SOIL BORING LOCATION
- TMW-3 GROUNDWATER MONITORING WELLS
- AUGUST / SEPTEMBER 2002 SOIL BORING LOCATION
- AUGUST / SEPTEMBER 2002 SOIL BORING CONVERTED TO SOIL VAPOR EXTRACTION WELL
- SOIL VAPOR EXTRACTION WELL
- POST-SVE SOIL BORING LOCATION

BORING NAME — SAMPLE DATE

2-VEW-20	8/1/02
25'	ND

DEPTH bgs — TCE CONCENTRATION IN MICROGRAMS PER KILOGRAM (µg/Kg)

BLACK - TREATMENT & POST-SVE SOIL SAMPLE

BORING NAME — SAMPLE DATE

S24-6	5/10/01
20'	140

DEPTH bgs — TCE CONCENTRATION IN MICROGRAMS PER KILOGRAM (µg/Kg)

GREY - PRE-SVE SOIL SAMPLE

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

FIGURE 16

PRE-SVE AND POST-SVE SOIL SAMPLING LOCATIONS AND RESULTS

SCALE: AS SHOWN

MARCH 2003

28997B16-AC

SOURCE OF BASEMAP: KENNEDY JENKS CONSULTANTS, 2000, SAMPLING AND ANALYSIS PLAN, BOEING REALTY CORPORATION'S C-6 FACILITY, PARCEL C, LOS ANGELES, CA, AUGUST 16, 2000.

APPENDIX A

Other Detected Volatile Organic Compounds in Soil, Soil Vapor, and Groundwater Laboratory Analytical Data

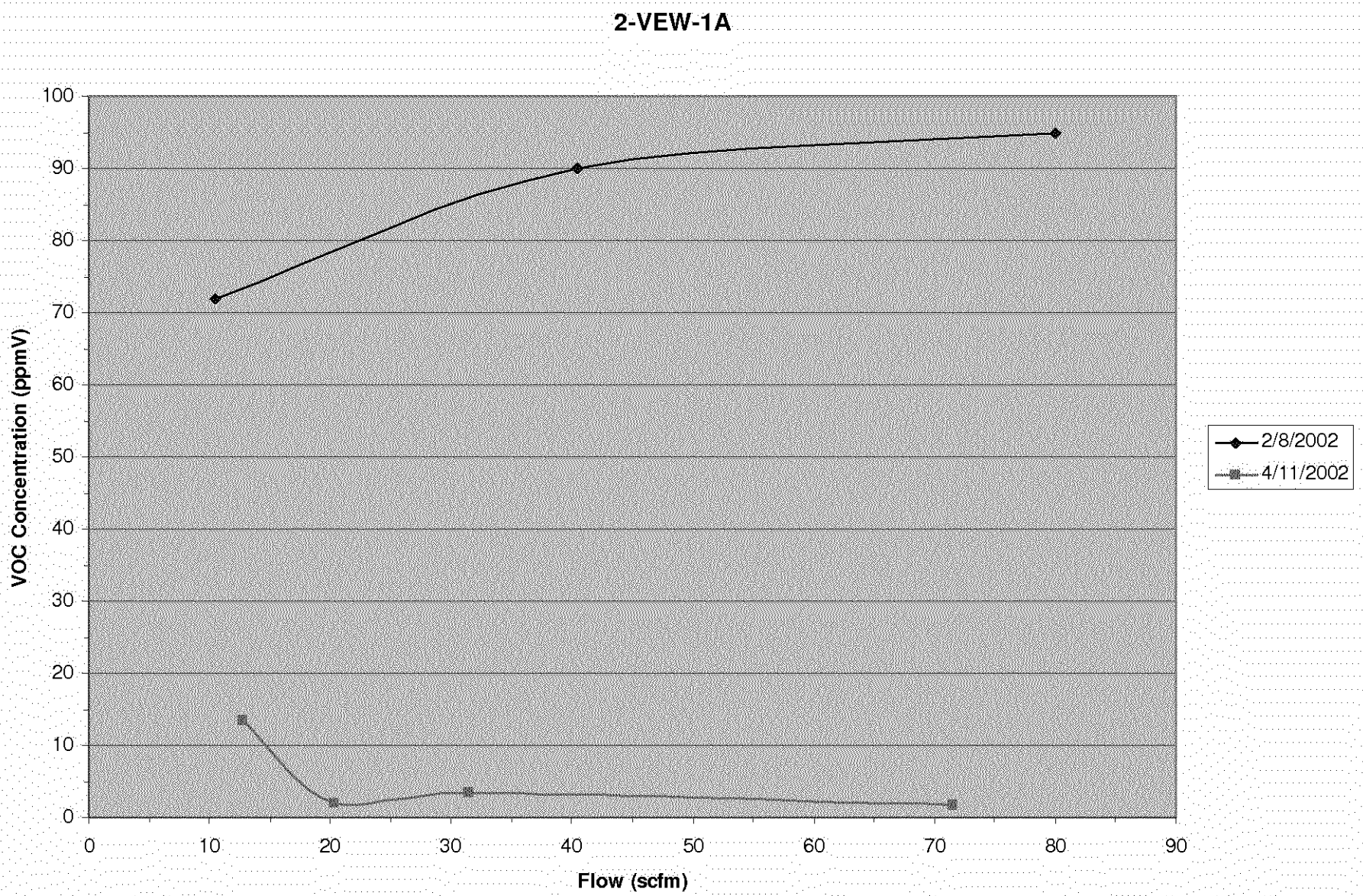
APPENDIX B

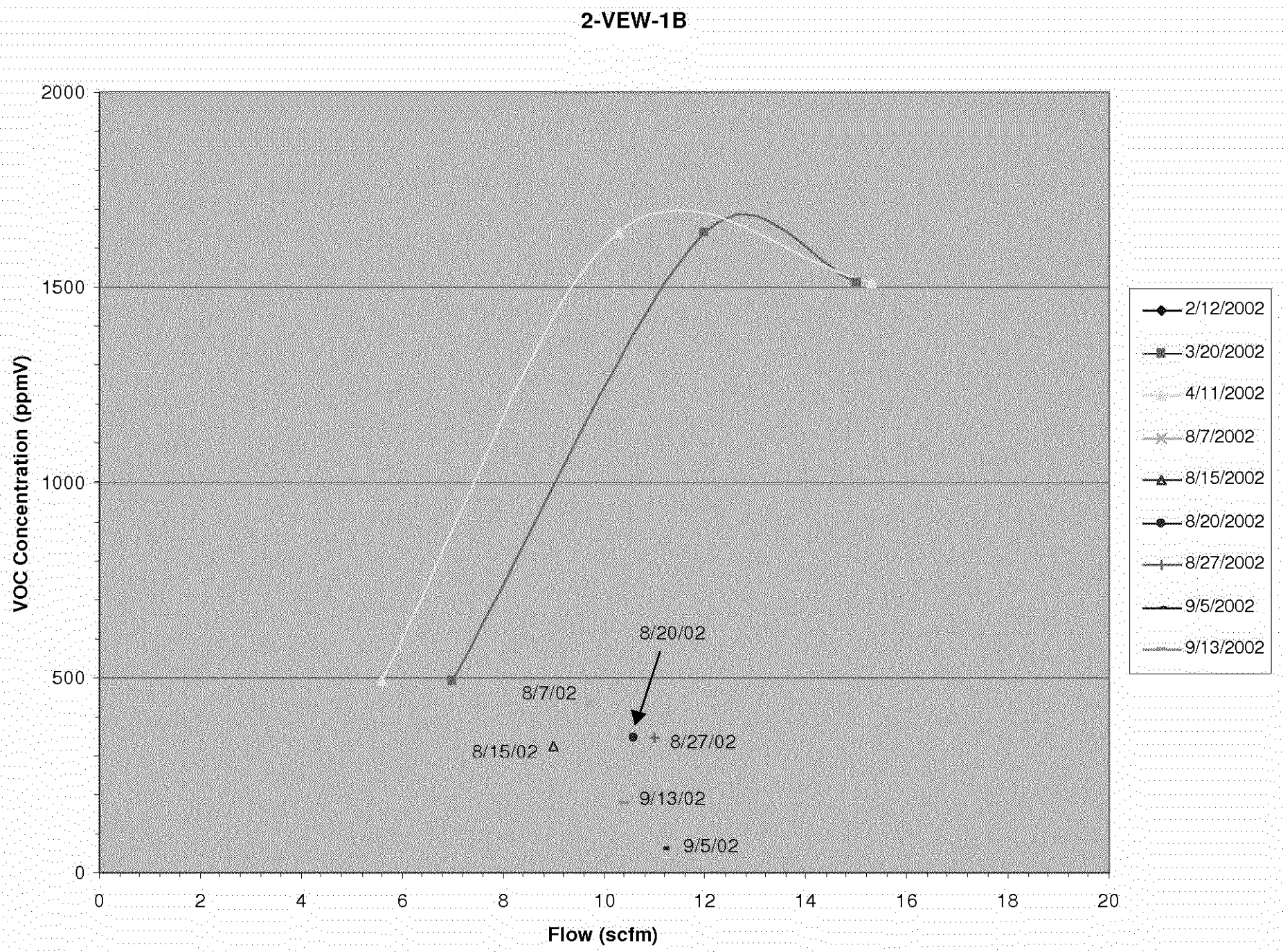
SVE Treatment System Laboratory Analytical Results and Well Optimization Curves

TABLE B-1
TIME TO CLEAN UP 500 PORE VOLUMES
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

Well	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Screen Length (ft)	R.O.I. (ft)	Radius Squared	Volume of Soil (ft^3)	Effective Porosity (%)	Pore Volume (ft^3)	500 Pore Volumes (ft^3)		Max Flow Rate (ft^3/min)	Sum of Flow Rates (ft^3/min)
1-VEW-1A	15	30	15	30	900	42,412	0.20	8,482	4,241,150		22.5	22.5
1-VEW-1B	50	65	15	30	900	42,412	0.20	8,482	4,241,150		22.5	22.5
1-VEW-2	35	65	30	30	900	84,823	0.20	16,965	8,482,300		45	90
1-VEW-3A	20	30	10	30	900	28,274	0.20	5,655	2,827,433		15	105
1-VEW-3B	50	65	15	30	900	42,412	0.20	8,482	4,241,150		22.5	105
1-VEW-4	30	65	35	30	900	98,960	0.20	19,792	9,896,017		52.5	180
1-VEW-5	30	65	35	30	900	98,960	0.20	19,792	9,896,017		52.5	232.5
1-VEW-6	30	65	35	30	900	98,960	0.20	19,792	9,896,017		52.5	285
1-VEW-7A	20	30	10	30	900	28,274	0.20	5,655	2,827,433		15	300
1-VEW-7B	50	65	15	30	900	42,412	0.20	8,482	4,241,150		22.5	300
1-VEW-8A	20	30	10	30	900	28,274	0.20	5,655	2,827,433		15	337.5
1-VEW-8B	45	65	20	30	900	56,549	0.20	11,310	5,654,867		30	367.5
1-VEW-9	45	65	20	30	900	56,549	0.20	11,310	5,654,867		30	397.5
1-VEW-10A	15	35	20	30	900	56,549	0.20	11,310	5,654,867		30	427.5
1-VEW-10B	45	65	20	30	900	56,549	0.20	11,310	5,654,867		30	457.5
1-VEW-11A	15	35	20	30	900	56,549	0.20	11,310	5,654,867		30	487.5
1-VEW-11B	45	65	20	30	900	56,549	0.20	11,310	5,654,867		30	517.5
1-VEW-12	15	65	50	30	900	141,372	0.20	28,274	14,137,167		75	592.5
1-VEW-13A	15	35	20	30	900	56,549	0.20	11,310	5,654,867		30	622.5
1-VEW-13B	45	65	20	30	900	56,549	0.20	11,310	5,654,867		30	630
1-VEW-14A	15	35	20	30	900	56,549	0.20	11,310	5,654,867		30	682.5
1-VEW-14B	45	65	20	30	900	56,549	0.20	11,310	5,654,867		30	690
1-VEW-15A	15	35	20	30	900	56,549	0.20	11,310	5,654,867		30	742.5
1-VEW-15B	45	65	20	30	900	56,549	0.20	11,310	5,654,867		30	772.5
TOTALS									**145,612,819**	**cubic feet**	**772.5**	

System can pull a maximum of	**400**	**acfm**
Time to clean up operating at max flow	**364,032**	**minutes**
	253	**days**
System modification to a maximum flow	**800**	**acfm**
Actual operation time (7,600 hours)	456,000	minutes
Average flow rate	480	acfm
Approximate pore volume removed as of 11/02	**218,880,000**	
Number of pore volumes removed	**752**	
Percent of 500 pore volumes as of 11/02	**150.3%**	


2-VEW-1A
VOC Concentration (ppmV)
100
90
80
70
60
50
40
30
20
10
0
0
10
20
30
40
50
60
70
80
90
Flow (scfm)
2/8/2002
4/11/2002


2-VEW-1B
VOC Concentration (ppmV)
2000
1500
1000
500
0
0
2
4
6
8
10
12
14
16
18
20
Flow (scfm)
8/20/02
8/7/02
8/15/02
8/27/02
9/13/02
9/5/02
2/12/2002
3/20/2002
4/11/2002
8/7/2002
8/15/2002
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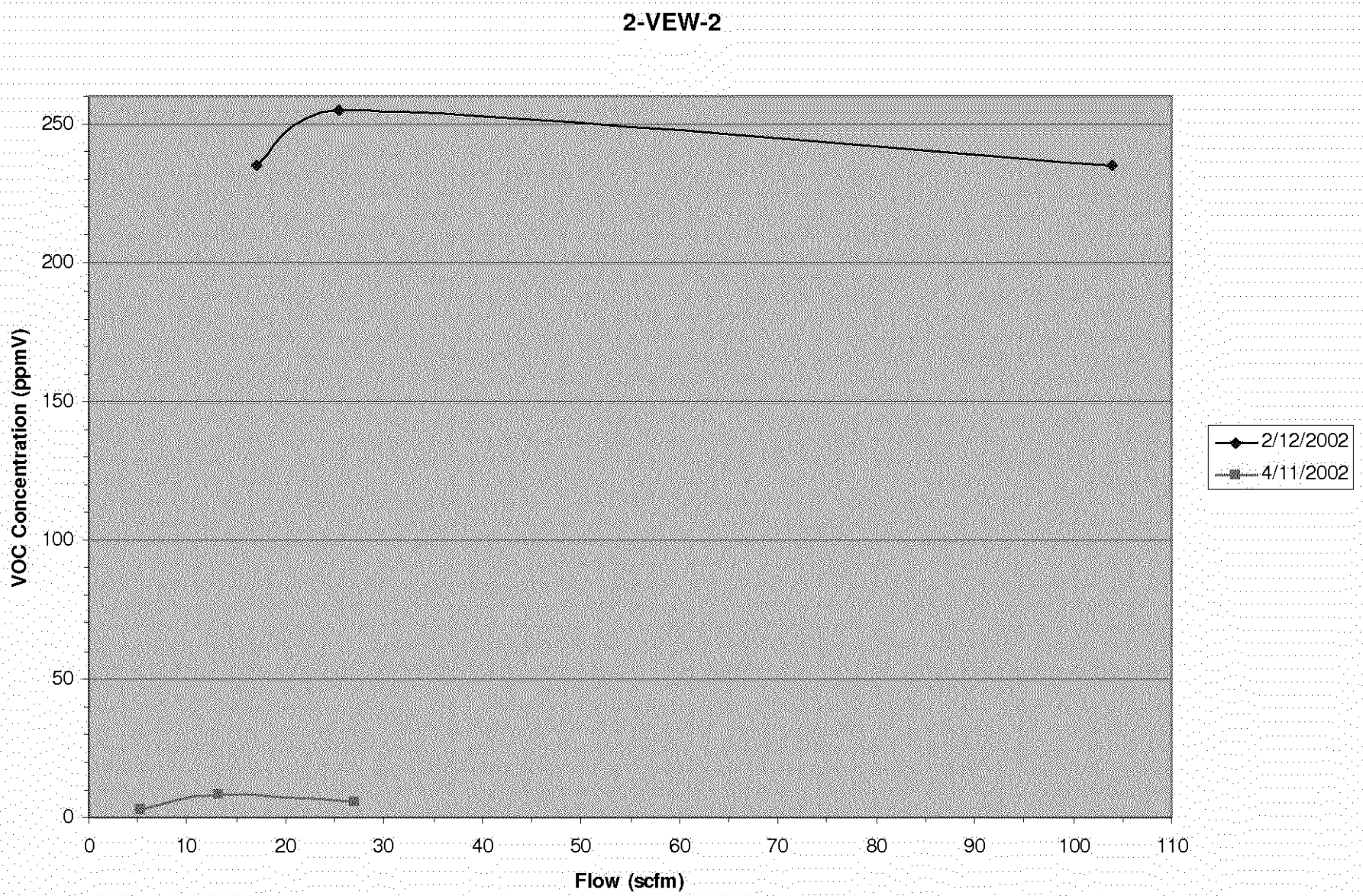
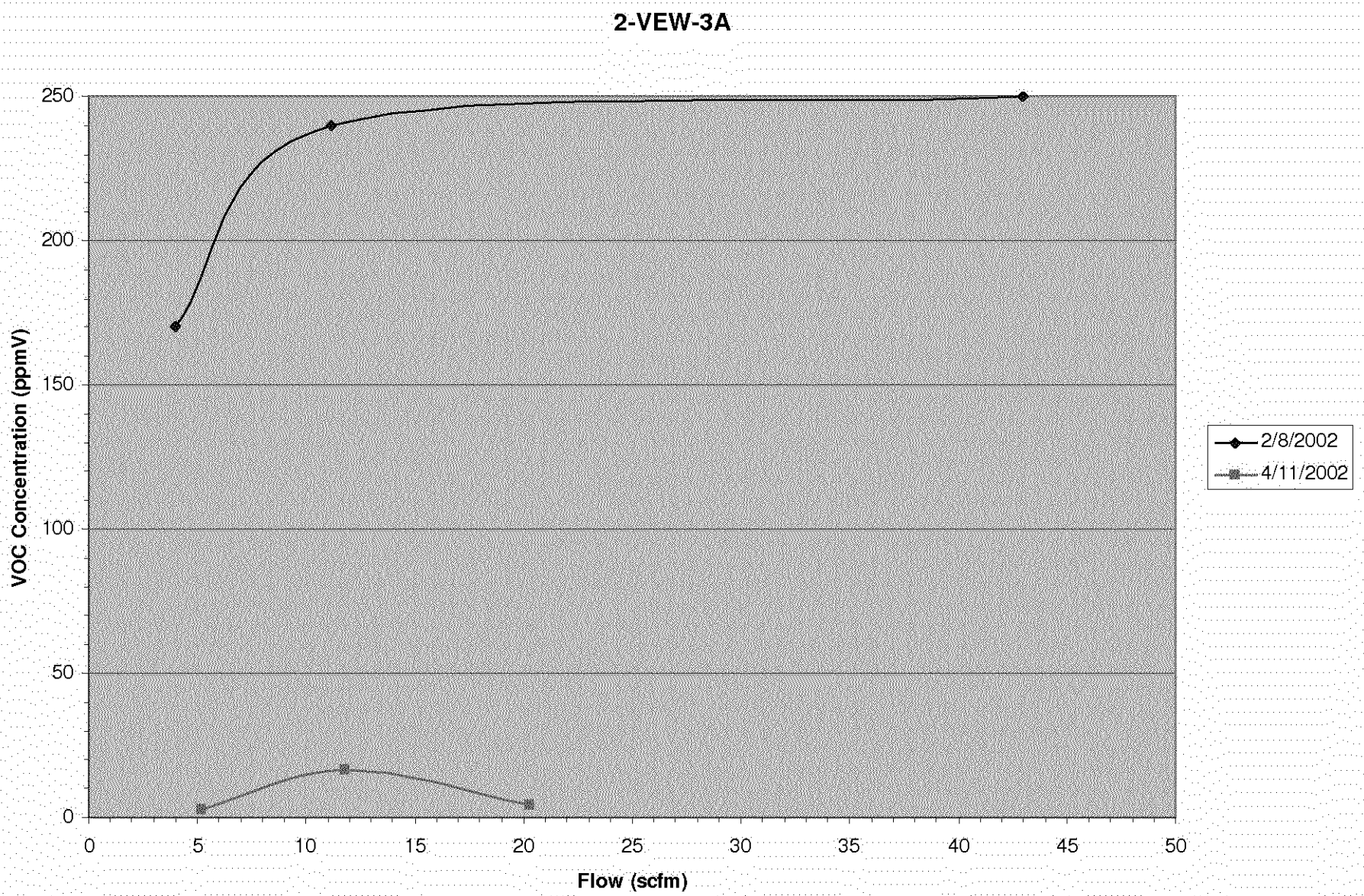
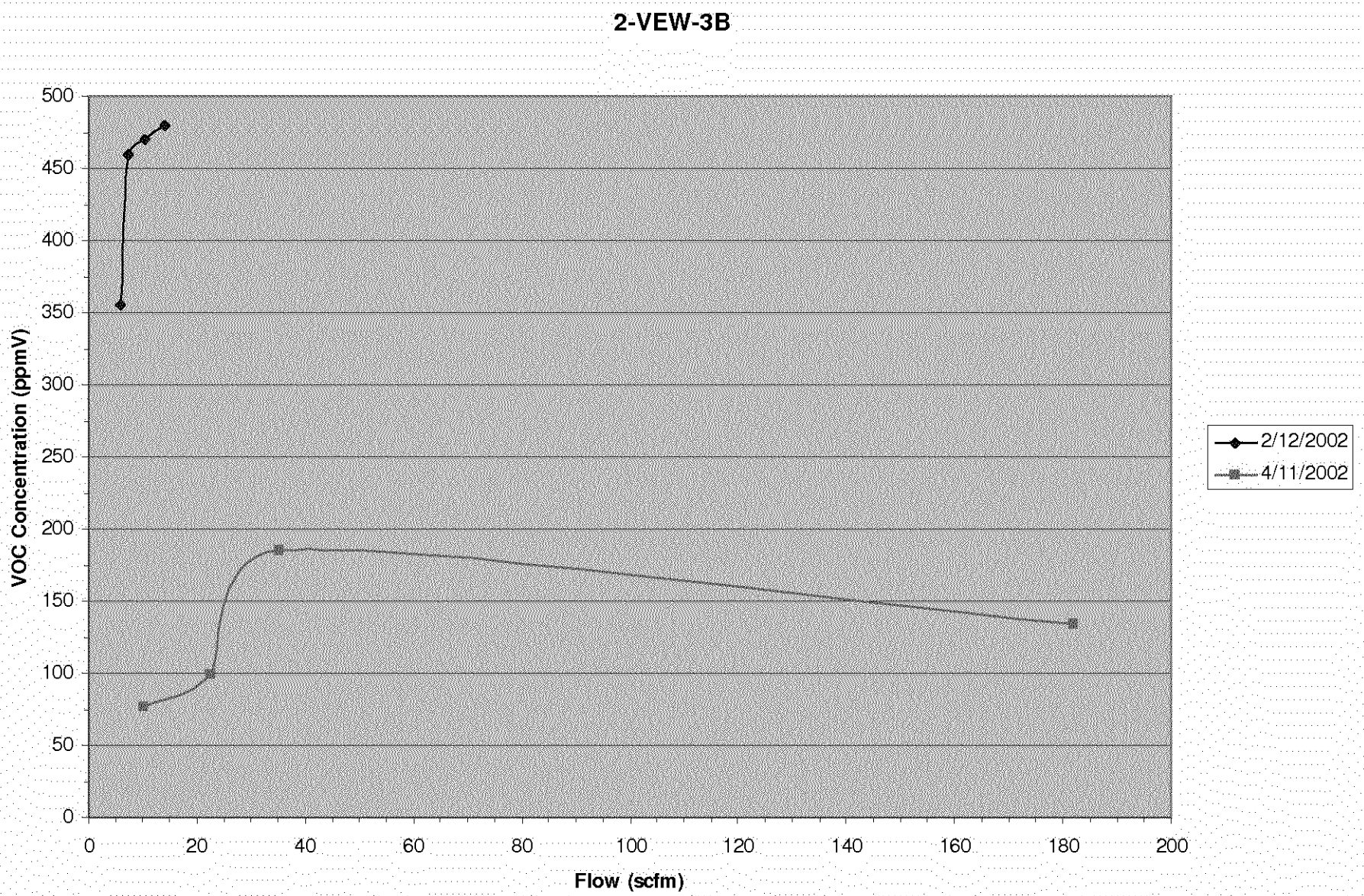
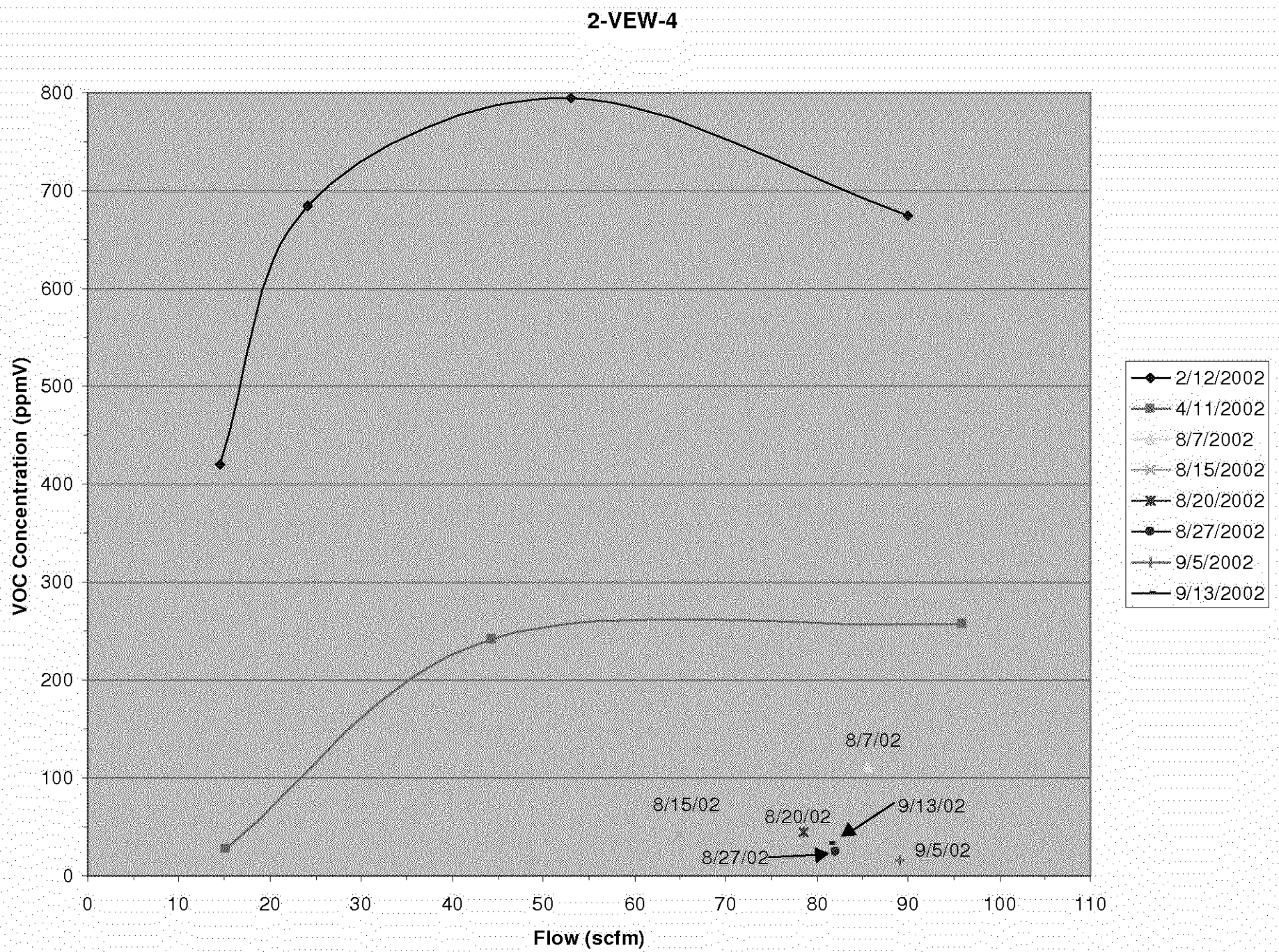
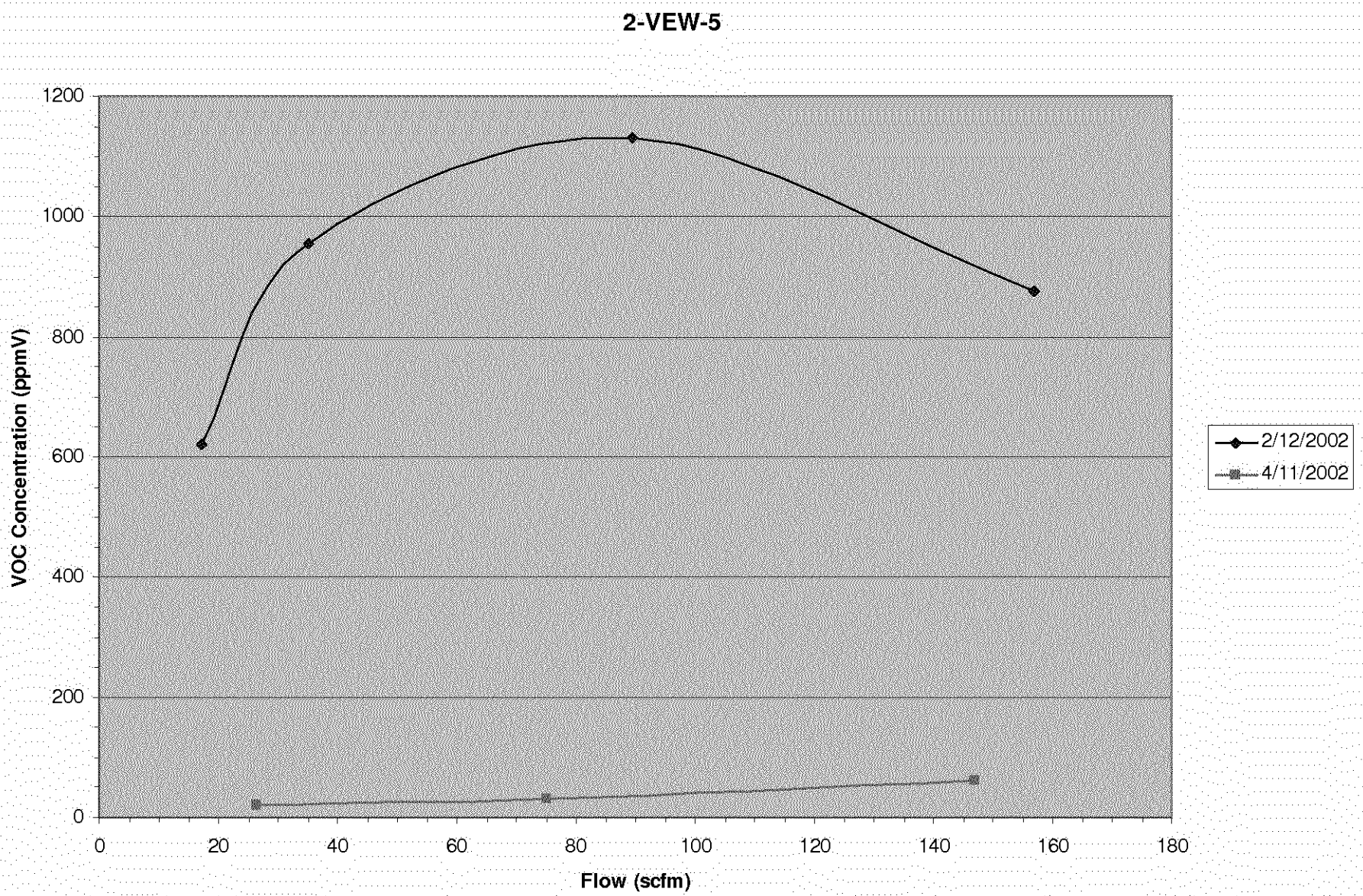
8/27/2002
9/5/2002
9/13/2002

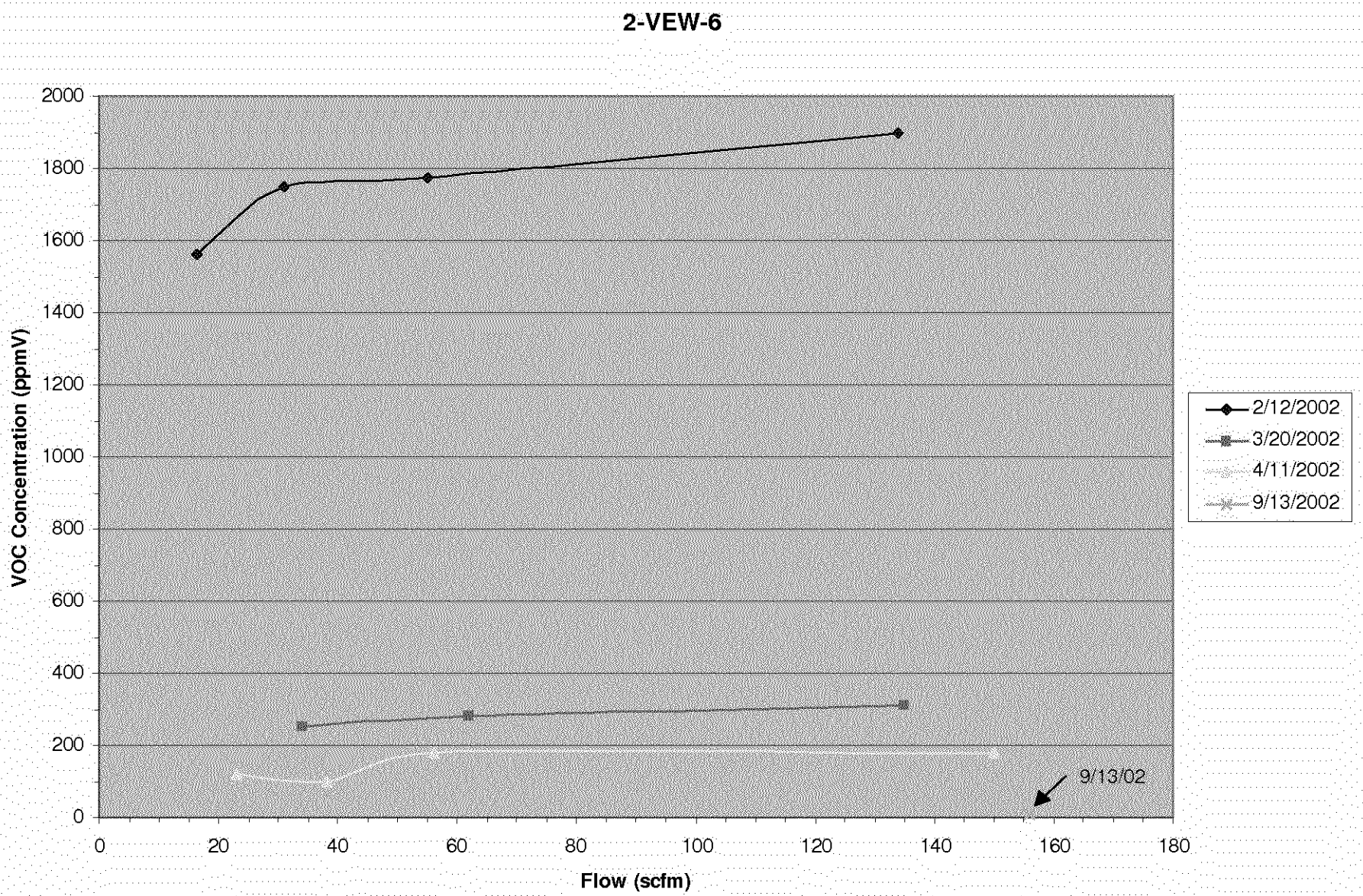

2-VEW-2
VOC Concentration (ppmV)
250
200
150
100
50
0
0
10
20
30
40
50
60
70
80
90
100
110
Flow (scfm)
2/12/2002
4/11/2002

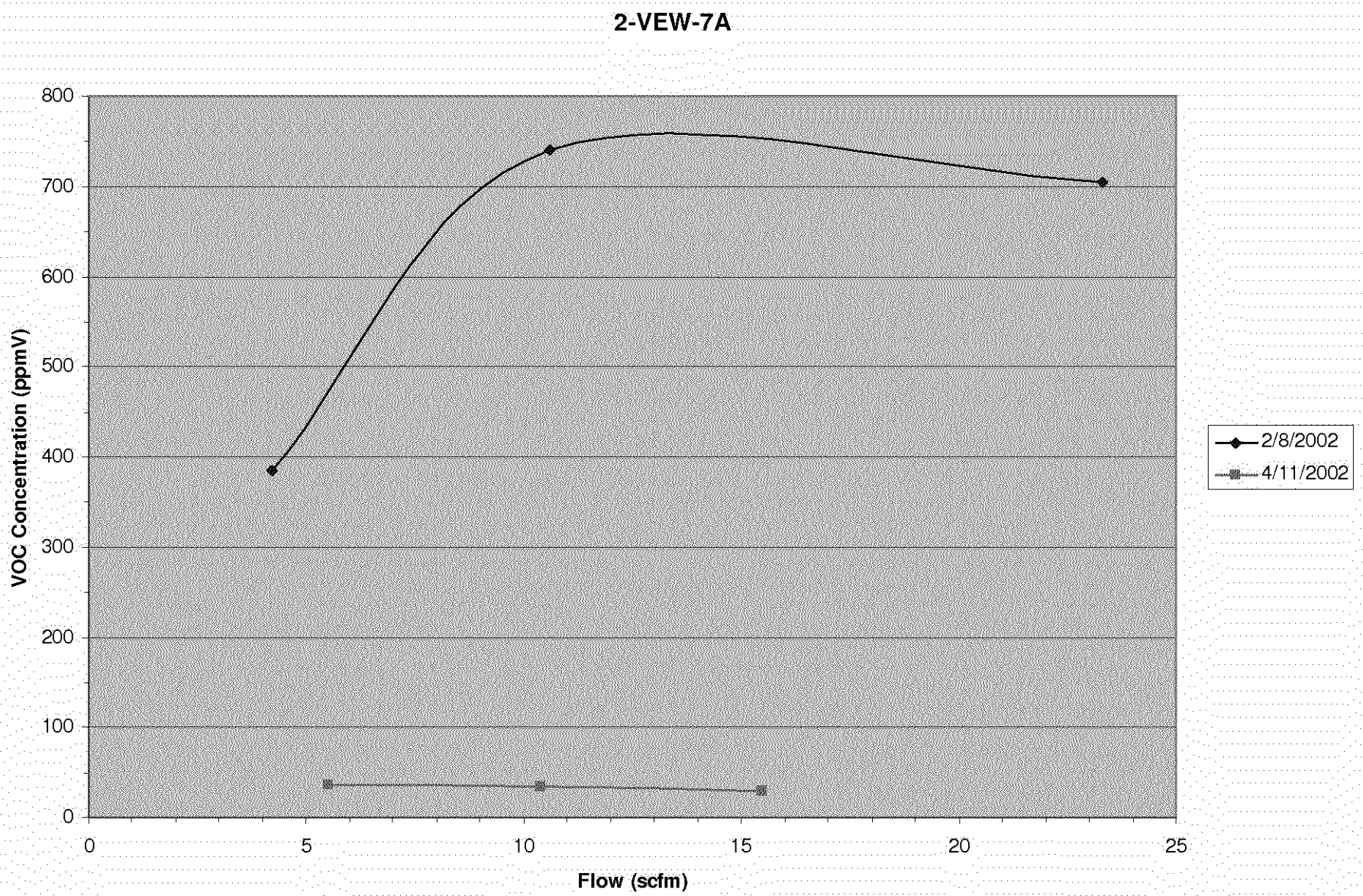

2-VEW-3A
VOC Concentration (ppmV)
250
200
150
100
50
0
0
5
10
15
20
25
30
35
40
45
50
Flow (scfm)
2/8/2002
4/11/2002

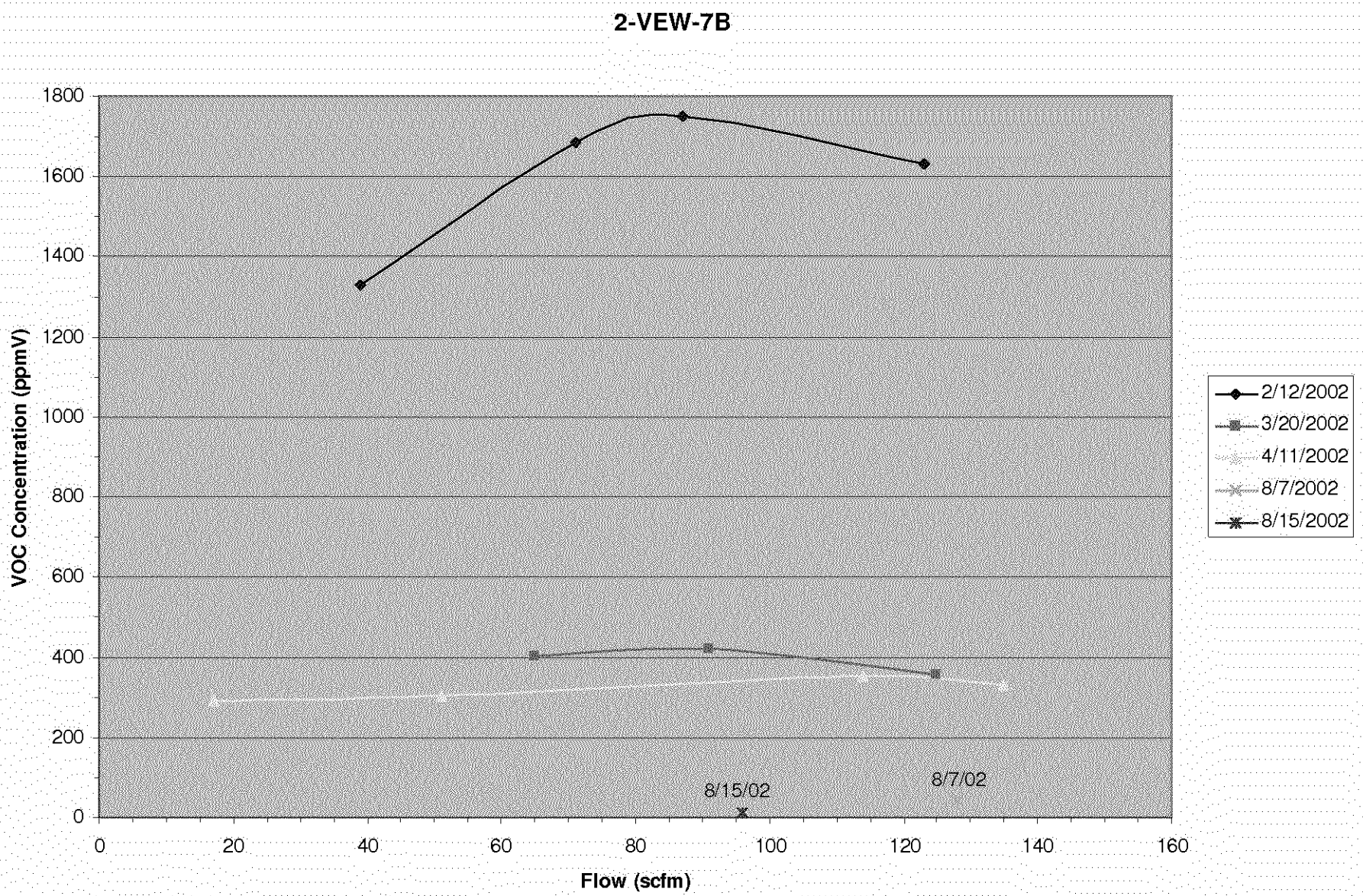

2-VEW-3B
VOC Concentration (ppmV)
500
450
400
350
300
250
200
150
100
50
0
0
20
40
60
80
100
120
140
160
180
200
Flow (scfm)
2/12/2002
4/11/2002

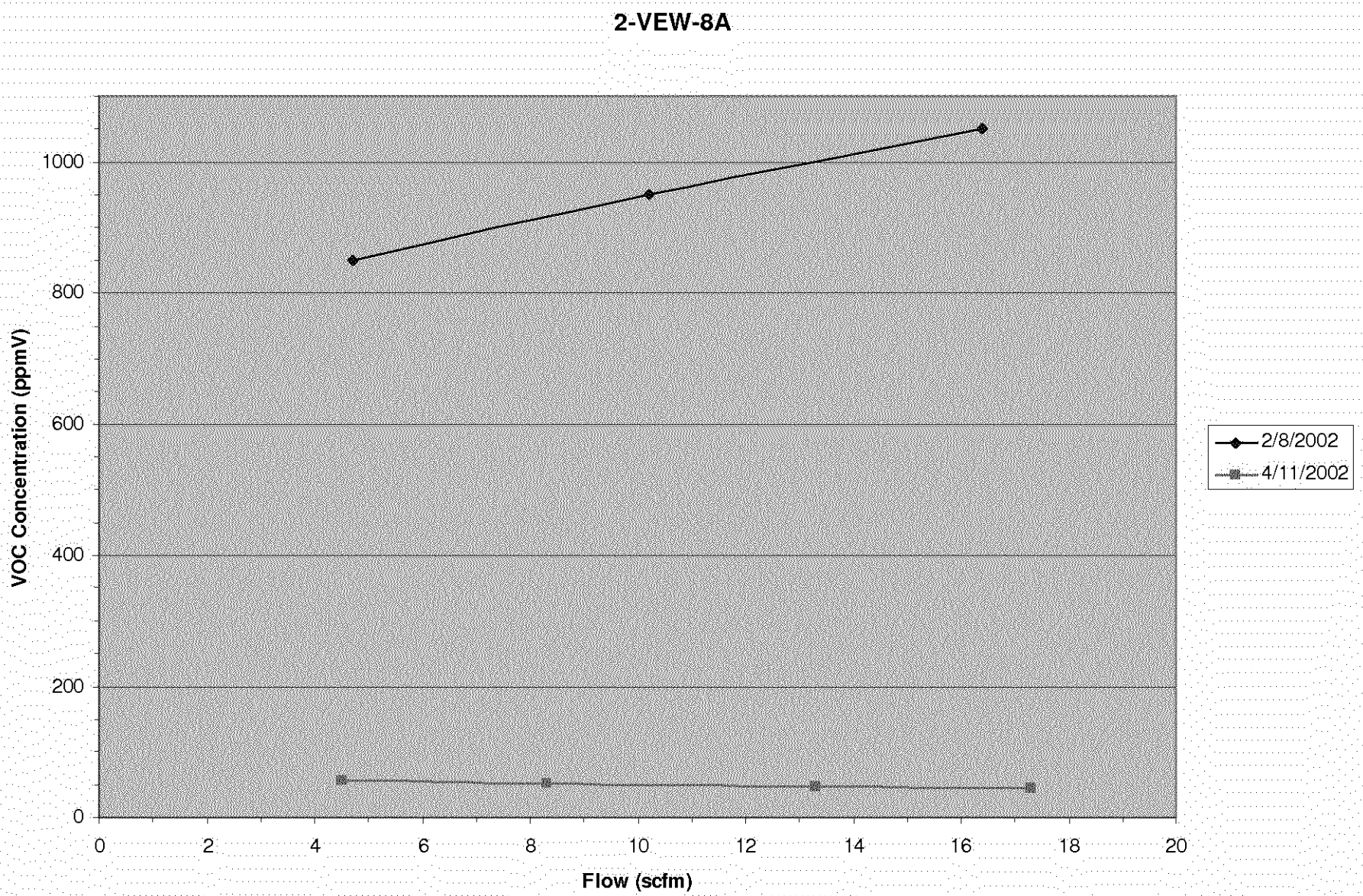

2-VEW-4
VOC Concentration (ppmV)
Flow (scfm)
0
100
200
300
400
500
600
700
800
0
10
20
30
40
50
60
70
80
90
100
110
8/7/02
8/15/02
8/20/02
9/13/02
8/27/02
9/5/02
2/12/2002
4/11/2002
8/7/2002
8/15/2002
8/20/2002
8/27/2002
9/5/2002
9/13/2002

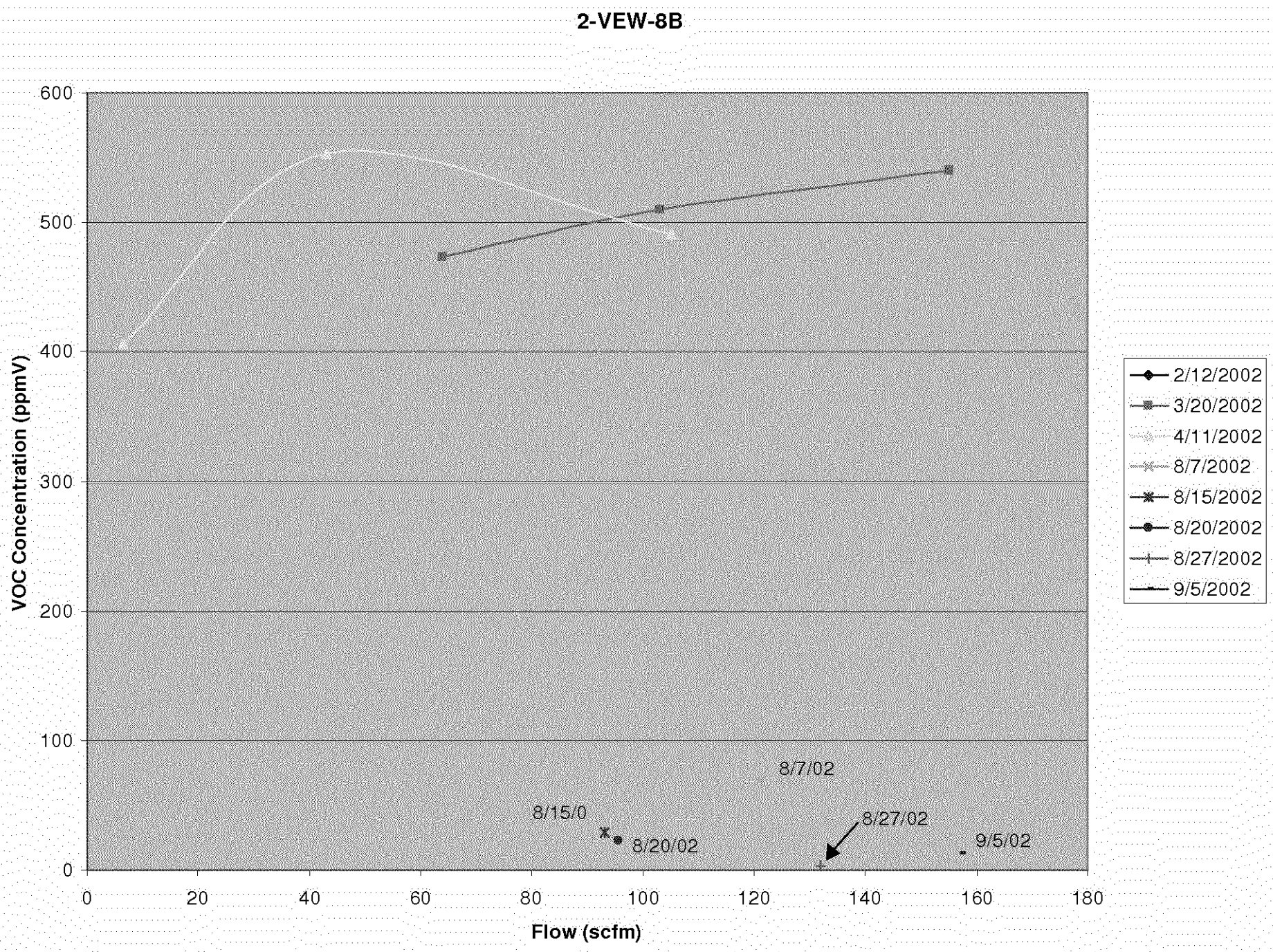

2-VEW-5
VOC Concentration (ppmV)
1200
1000
800
600
400
200
0
0
20
40
60
80
100
120
140
160
180
Flow (scfm)
2/12/2002
4/11/2002

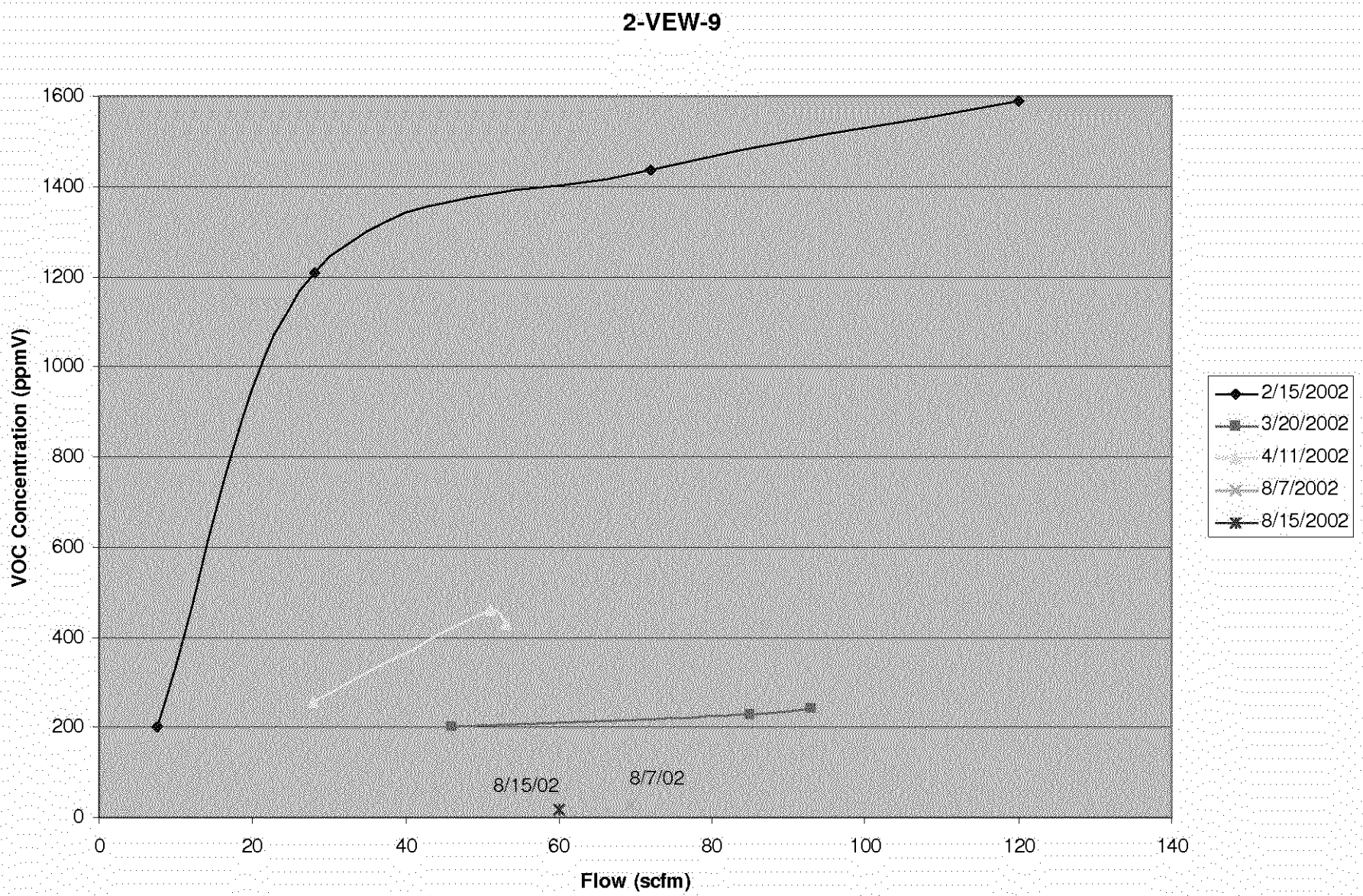

2-VEW-6
VOC Concentration (ppmV)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
20
40
60
80
100
120
140
160
180
Flow (scfm)
2/12/2002
3/20/2002
4/11/2002
9/13/2002
9/13/02

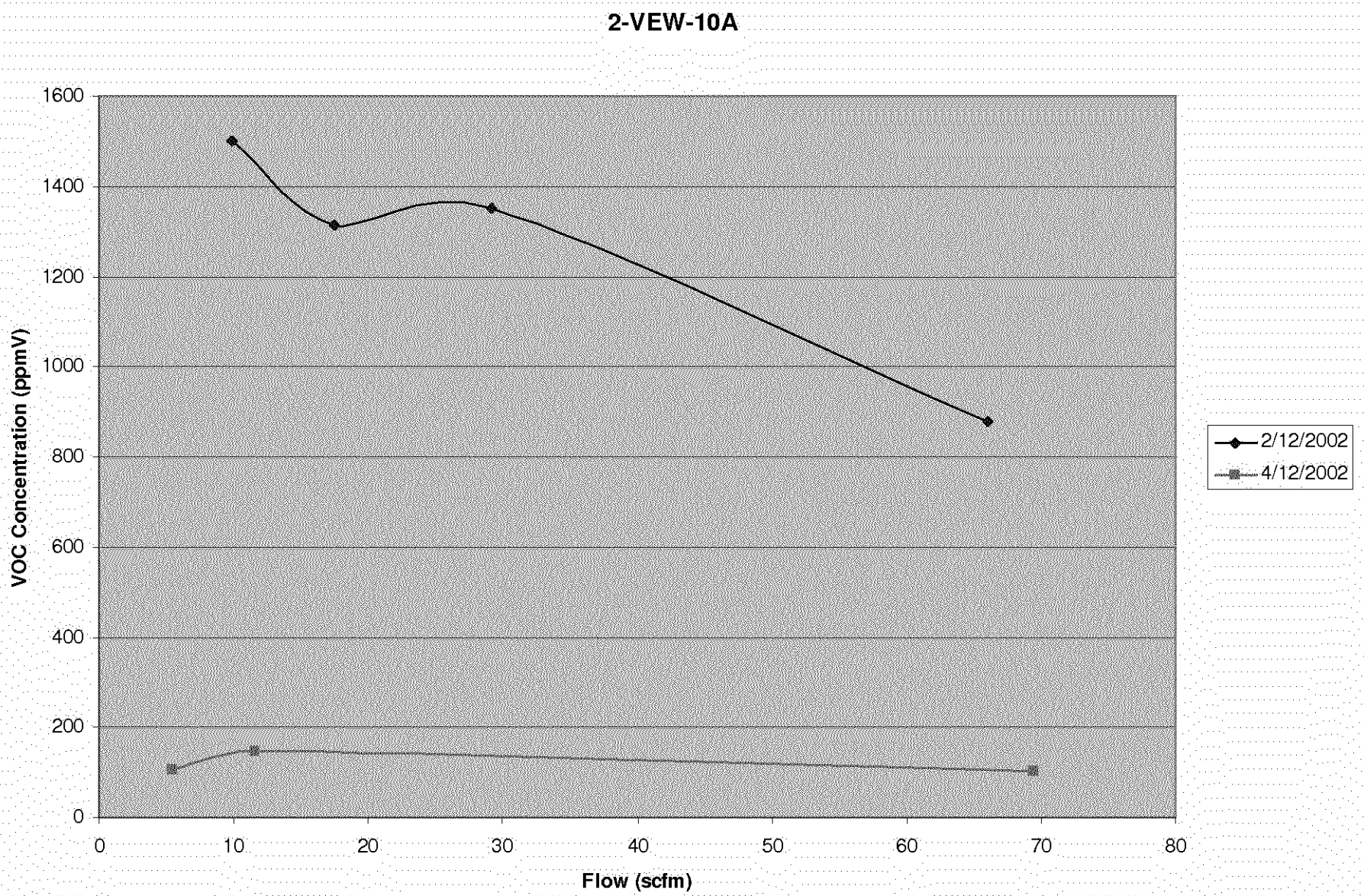

2-VEW-7A
VOC Concentration (ppmV)
800
700
600
500
400
300
200
100
0
0
5
10
15
20
25
Flow (scfm)
2/8/2002
4/11/2002

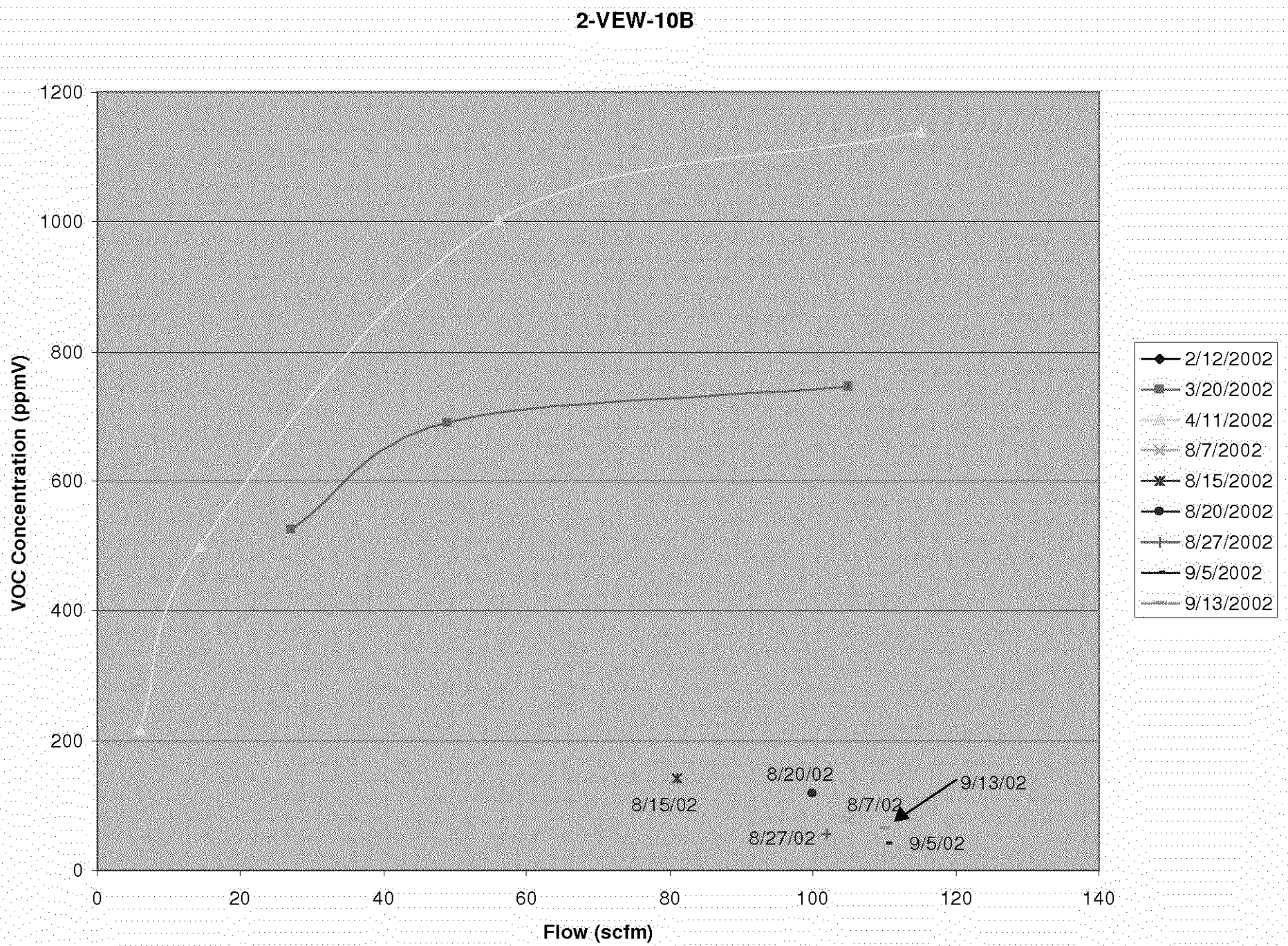

2-VEW-7B
VOC Concentration (ppmV)
1800
1600
1400
1200
1000
800
600
400
200
0
0
20
40
60
80
100
120
140
160
Flow (scfm)
8/15/02
8/7/02
2/12/2002
3/20/2002
4/11/2002
8/7/2002
8/15/2002


2-VEW-8A
VOC Concentration (ppmV)
1000
800
600
400
200
0
0
2
4
6
8
10
12
14
16
18
20
Flow (scfm)
2/8/2002
4/11/2002


2-VEW-8B
VOC Concentration (ppmV)
600
500
400
300
200
100
0
0
20
40
60
80
100
120
140
160
180
Flow (scfm)
8/7/02
8/15/0
8/20/02
8/27/02
9/5/02
2/12/2002
3/20/2002
4/11/2002
8/7/2002
8/15/2002
8/20/2002
8/27/2002
9/5/2002


2-VEW-9
VOC Concentration (ppmV)
1600
1400
1200
1000
800
600
400
200
0
0
20
40
60
80
100
120
140
Flow (scfm)
8/15/02
8/7/02
2/15/2002
3/20/2002
4/11/2002
8/7/2002
8/15/2002


2-VEW-10A
VOC Concentration (ppmV)
1600
1400
1200
1000
800
600
400
200
0
0
10
20
30
40
50
60
70
80
Flow (scfm)
2/12/2002
4/12/2002


2-VEW-10B
VOC Concentration (ppmV)
Flow (scfm)
0
200
400
600
800
1000
1200
0
20
40
60
80
100
120
140
8/15/02
8/20/02
8/7/02
9/13/02
8/27/02
9/5/02
2/12/2002
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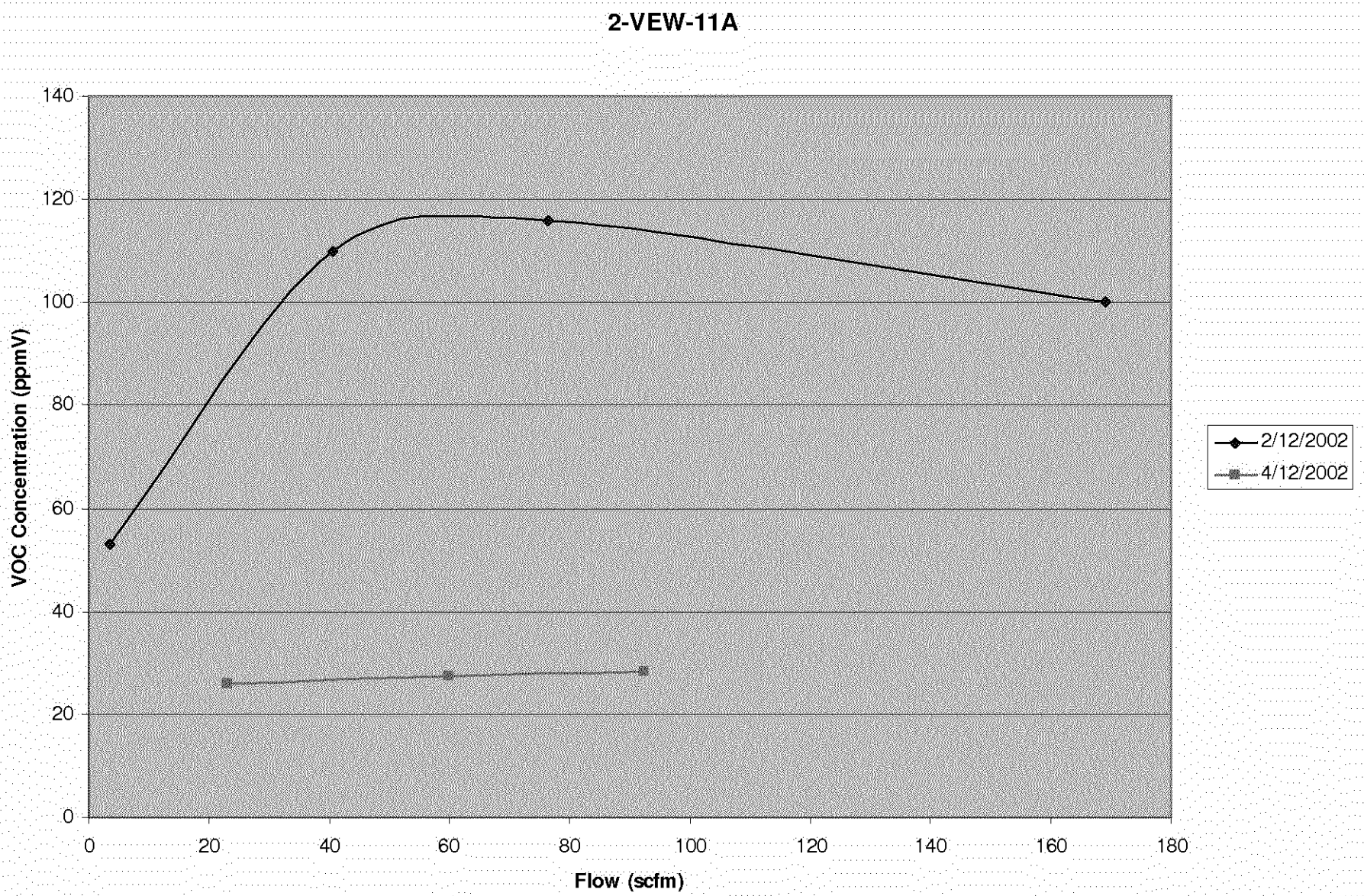
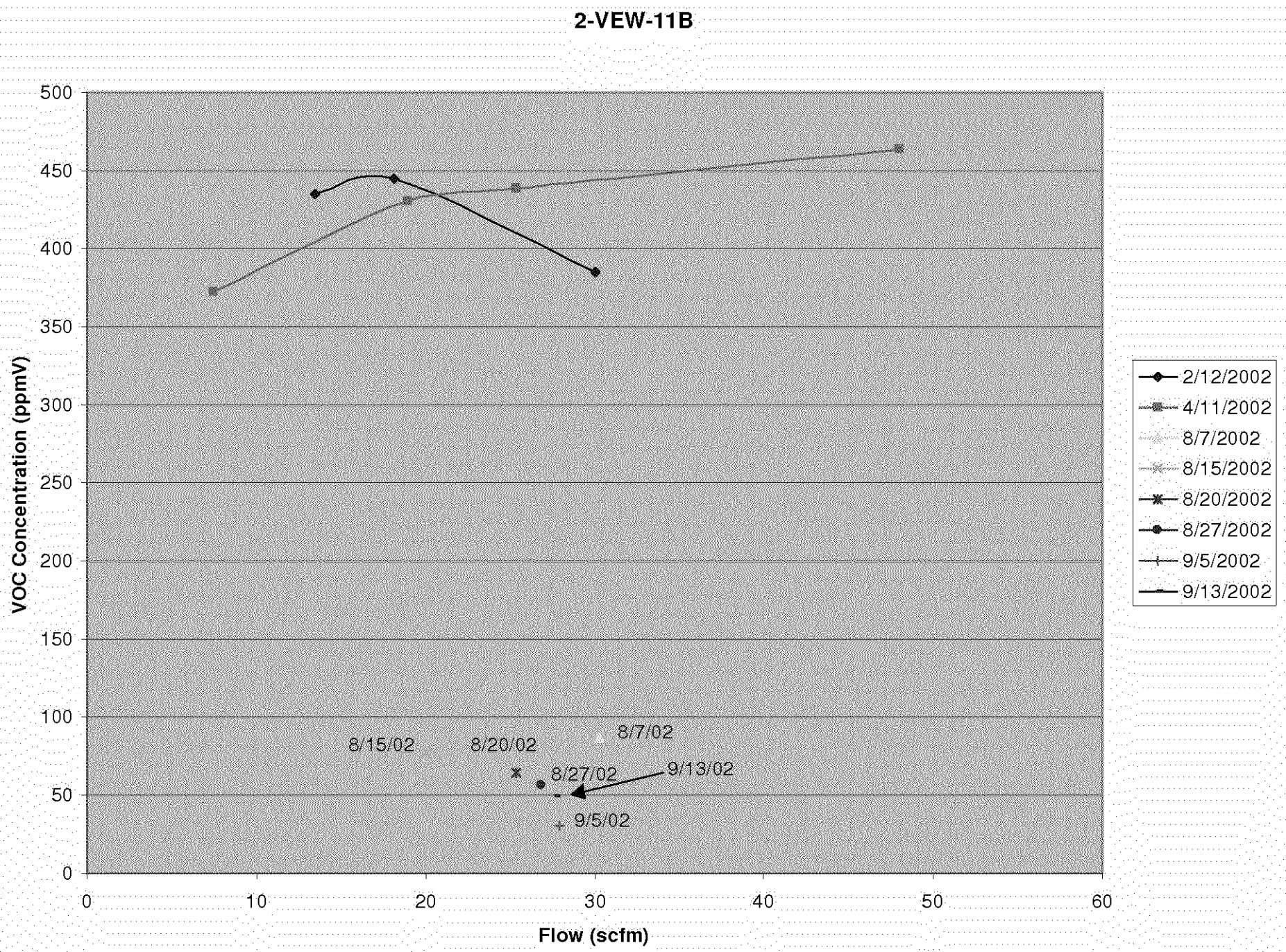
9/5/2002
9/13/2002


2-VEW-11A
VOC Concentration (ppmV)
Flow (scfm)
0
20
40
60
80
100
120
140
160
180
2/12/2002
4/12/2002


2-VEW-11B
VOC Concentration (ppmV)
Flow (scfm)
500
450
400
350
300
250
200
150
100
50
0
0
10
20
30
40
50
60
8/15/02
8/20/02
8/7/02
8/27/02
9/13/02
9/5/02
2/12/2002
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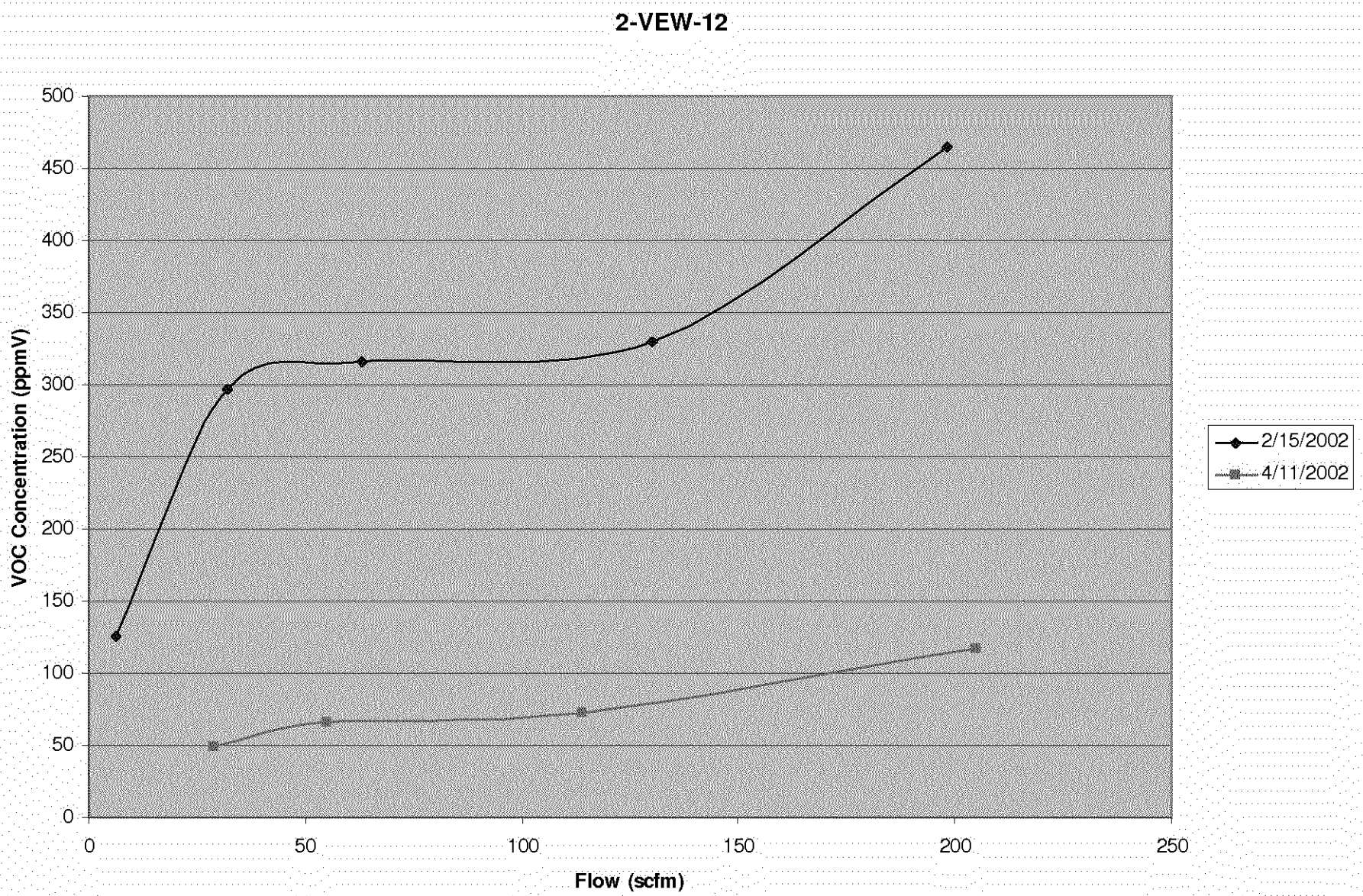
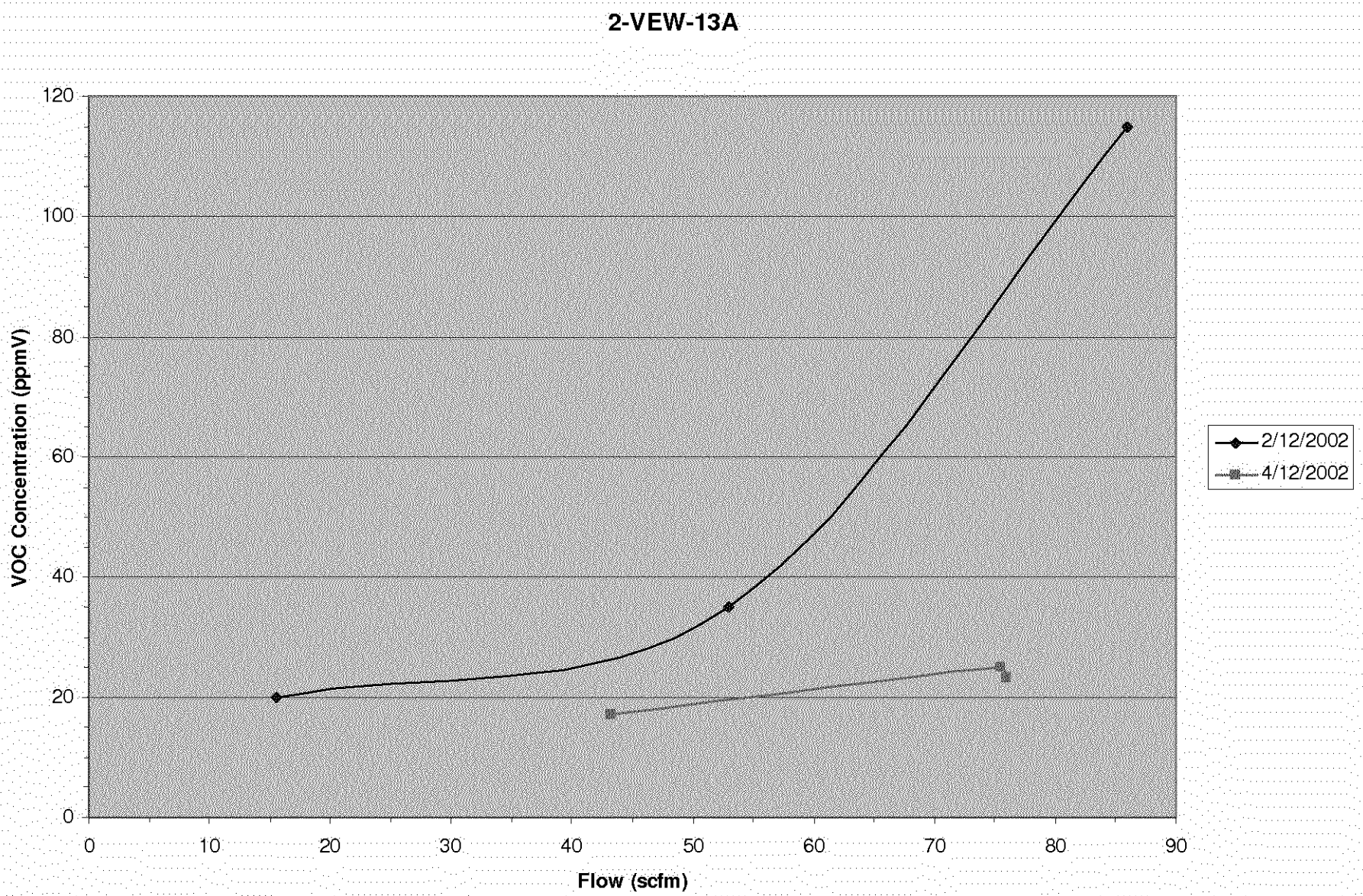
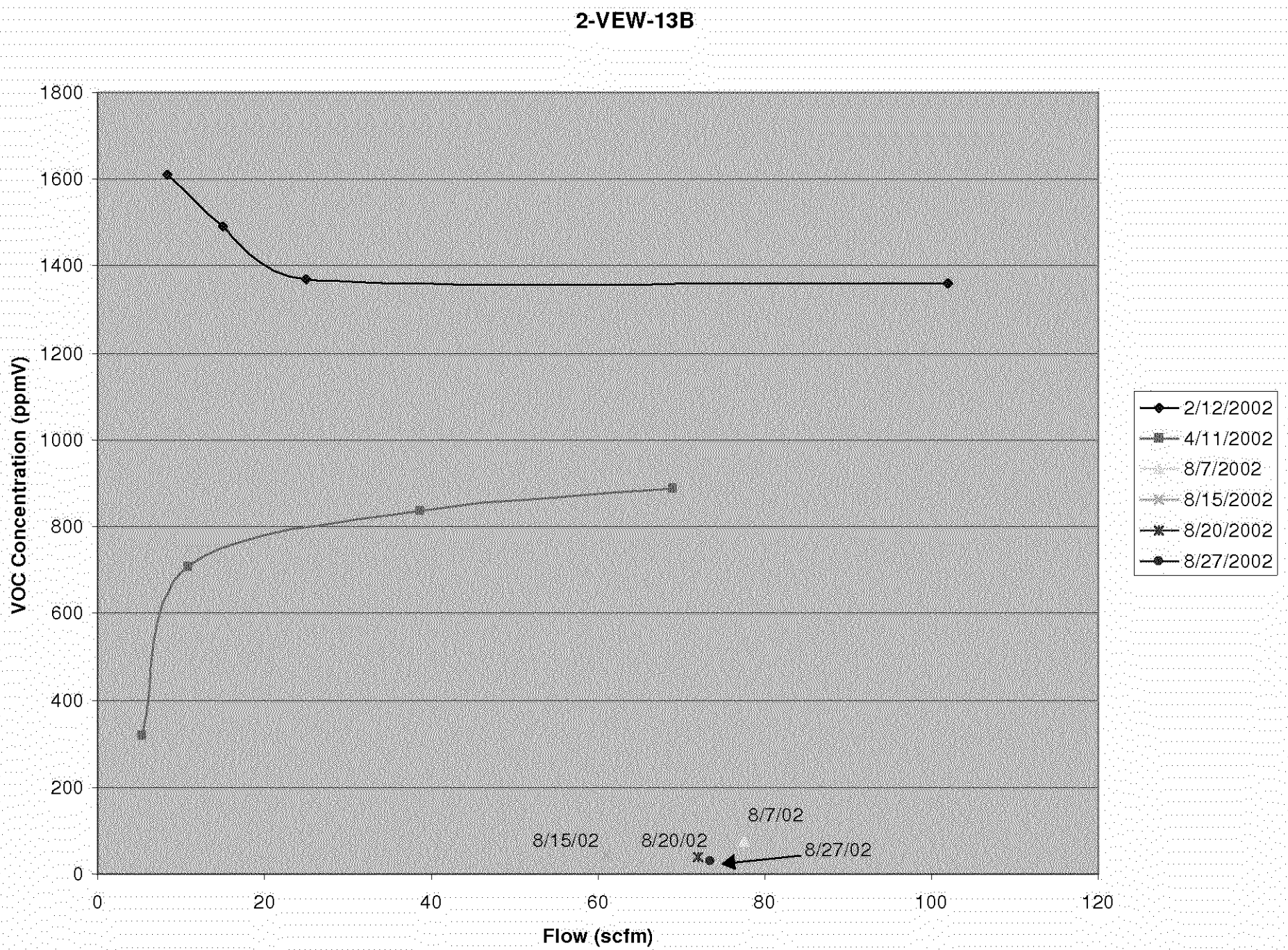
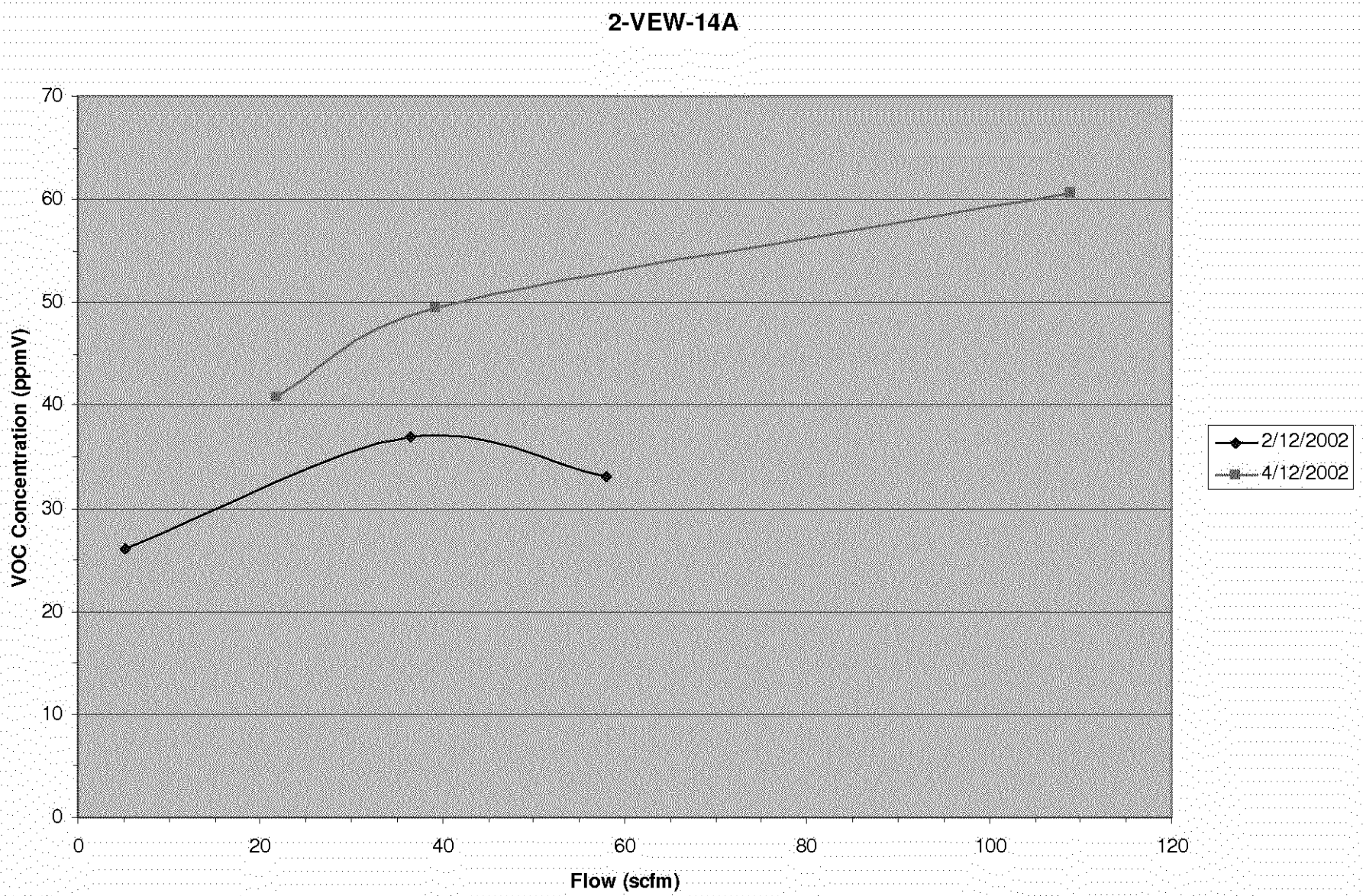
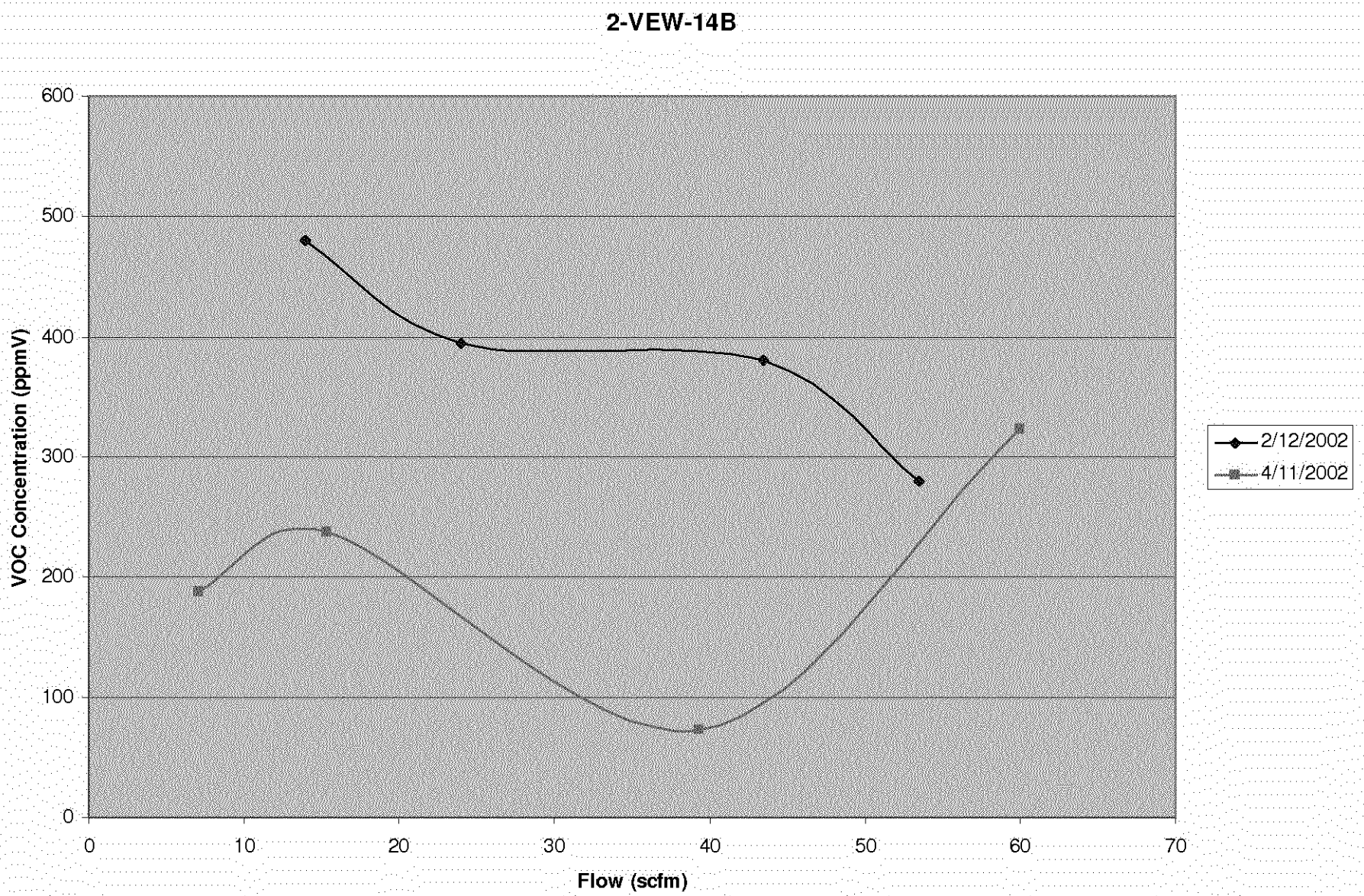
9/5/2002
9/13/2002

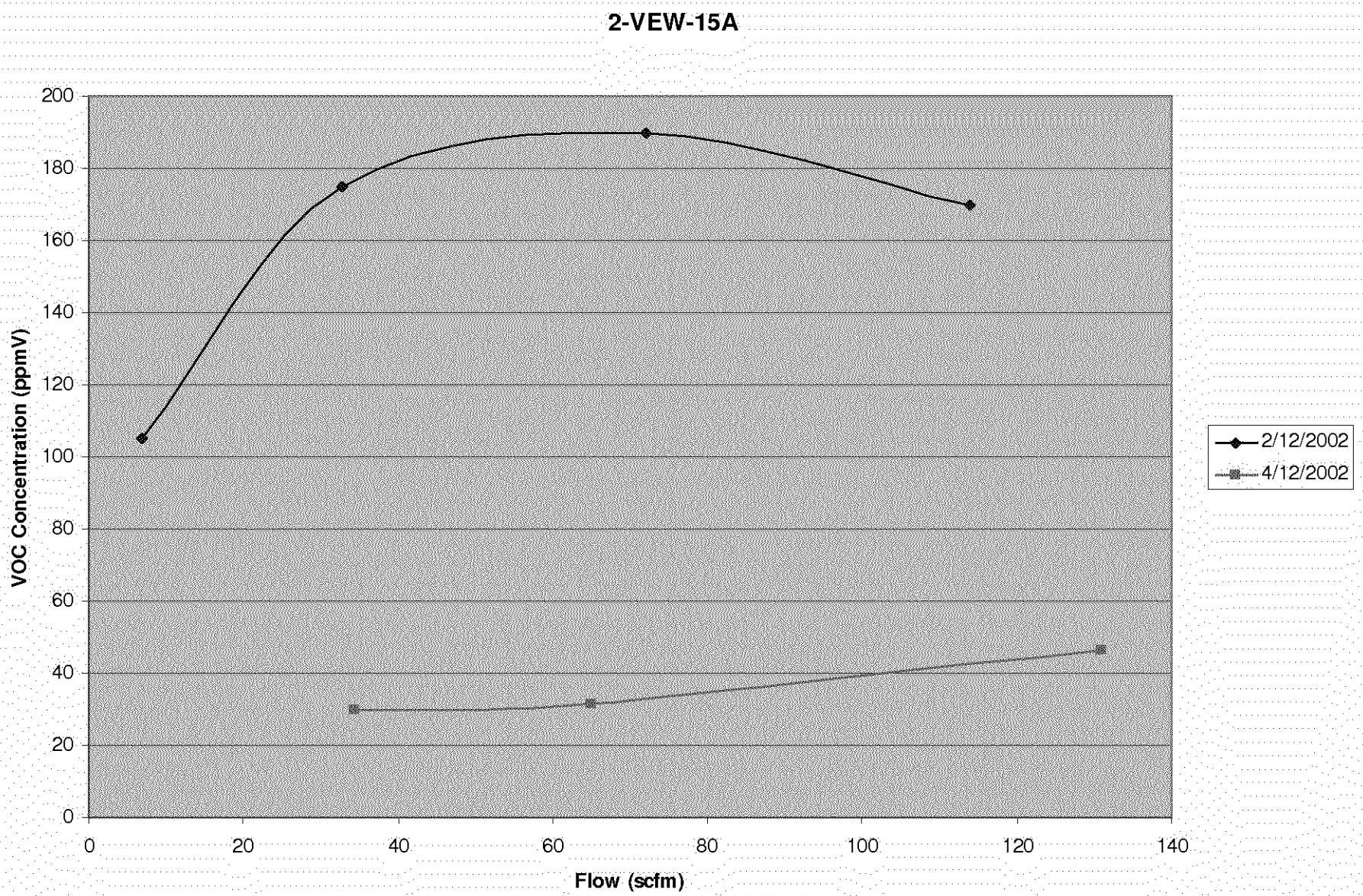

2-VEW-12
VOC Concentration (ppmV)
500
450
400
350
300
250
200
150
100
50
0
0
50
100
150
200
250
Flow (scfm)
2/15/2002
4/11/2002

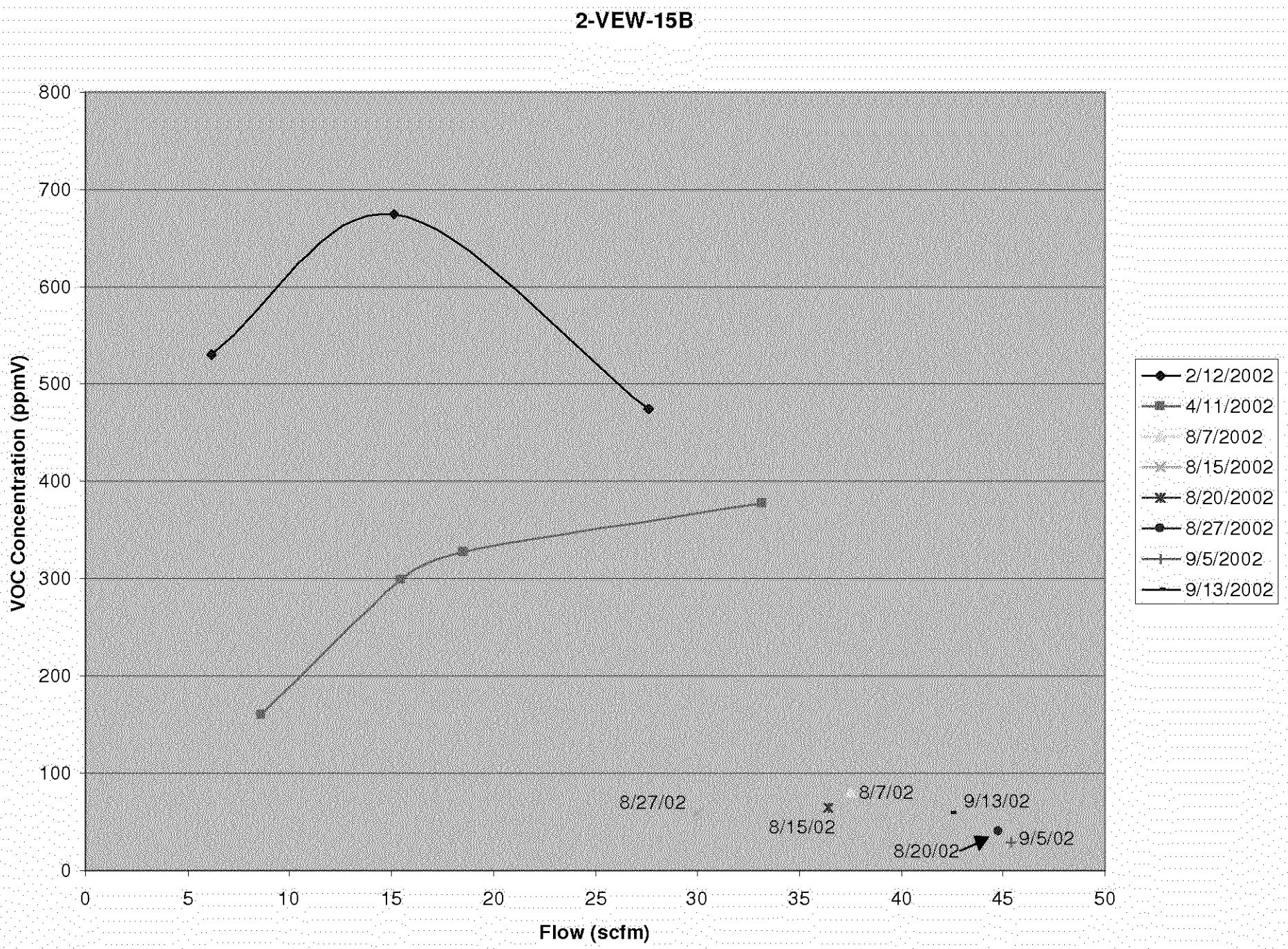

2-VEW-13A
VOC Concentration (ppmV)
120
100
80
60
40
20
0
0
10
20
30
40
50
60
70
80
90
Flow (scfm)
2/12/2002
4/12/2002

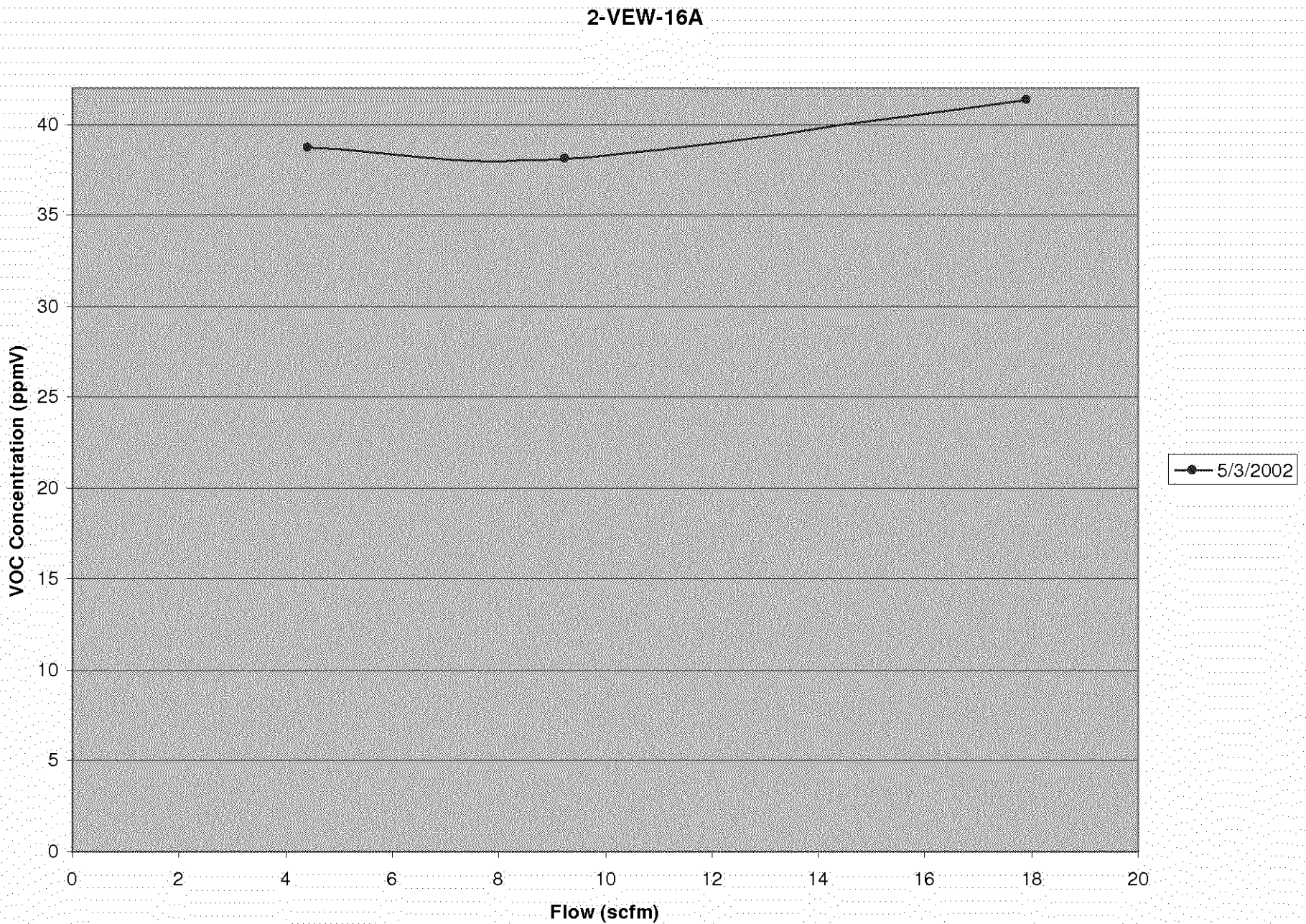

2-VEW-13B
VOC Concentration (ppmV)
1800
1600
1400
1200
1000
800
600
400
200
0
0
20
40
60
80
100
120
Flow (scfm)
8/15/02
8/20/02
8/7/02
8/27/02
2/12/2002
4/11/2002
8/7/2002
8/15/2002
8/20/2002
8/27/2002

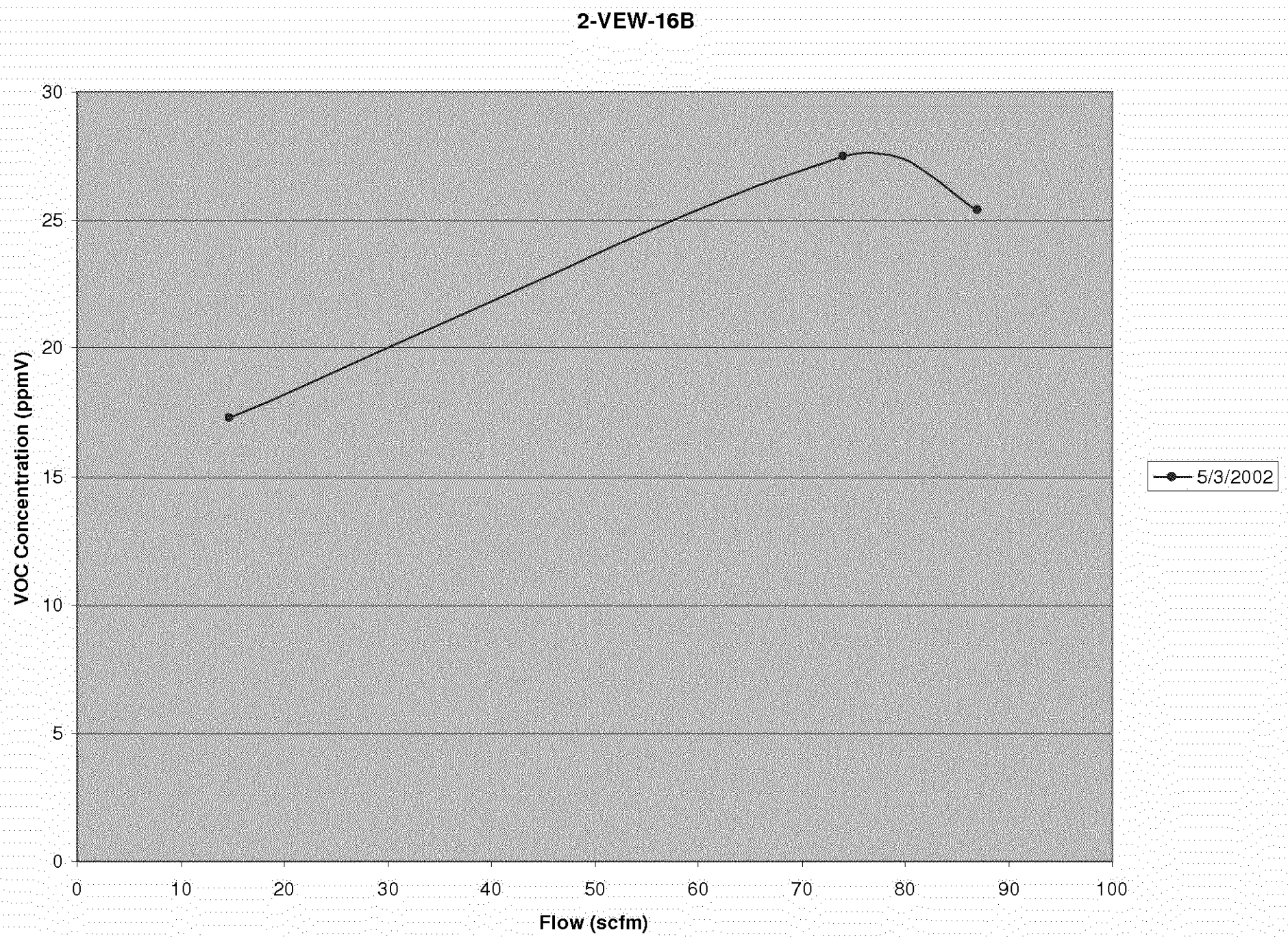

2-VEW-14A
VOC Concentration (ppmV)
70
60
50
40
30
20
10
0
0
20
40
60
80
100
120
Flow (scfm)
2/12/2002
4/12/2002

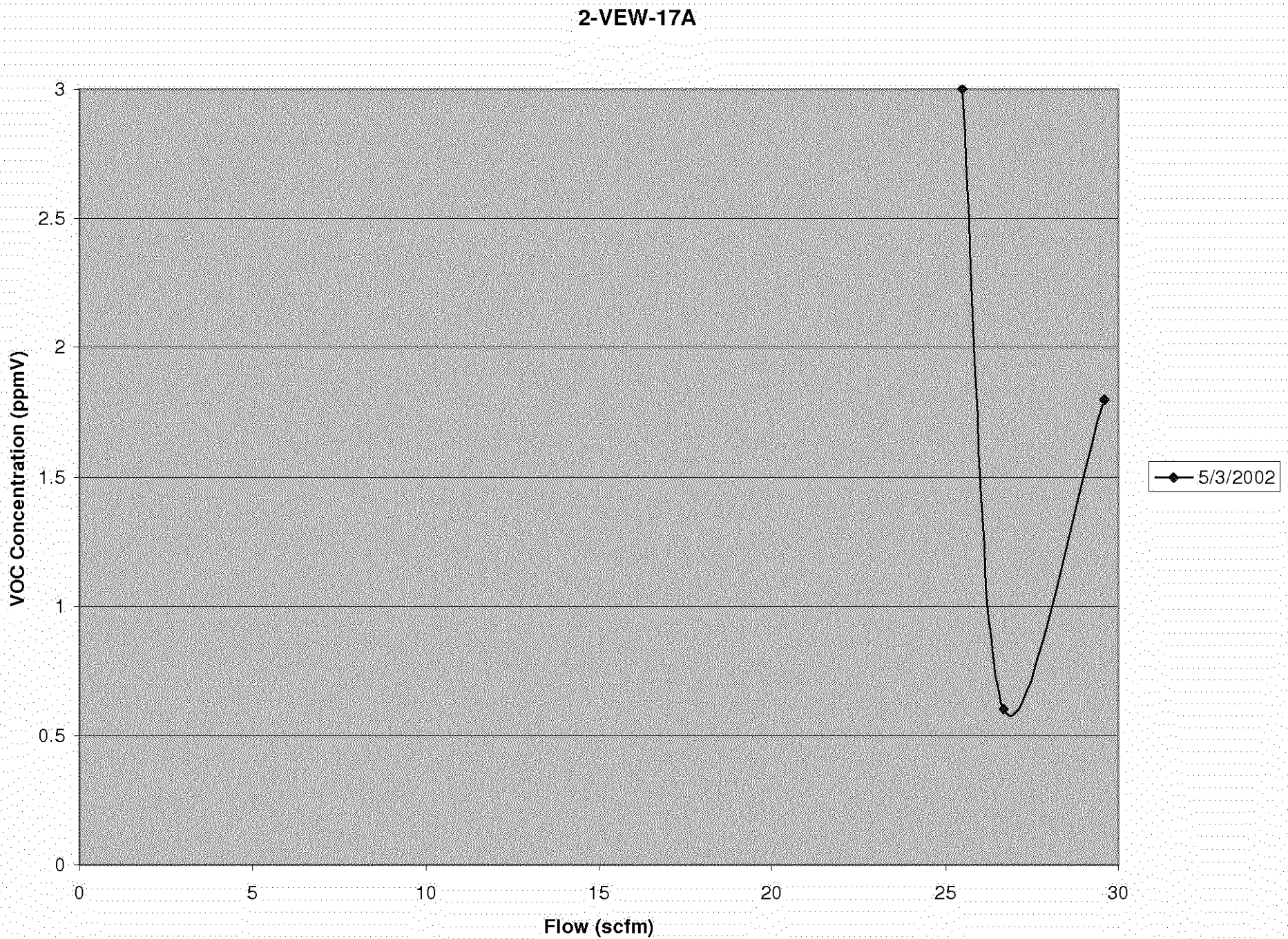

2-VEW-14B
VOC Concentration (ppmV)
600
500
400
300
200
100
0
0
10
20
30
40
50
60
70
Flow (scfm)
2/12/2002
4/11/2002

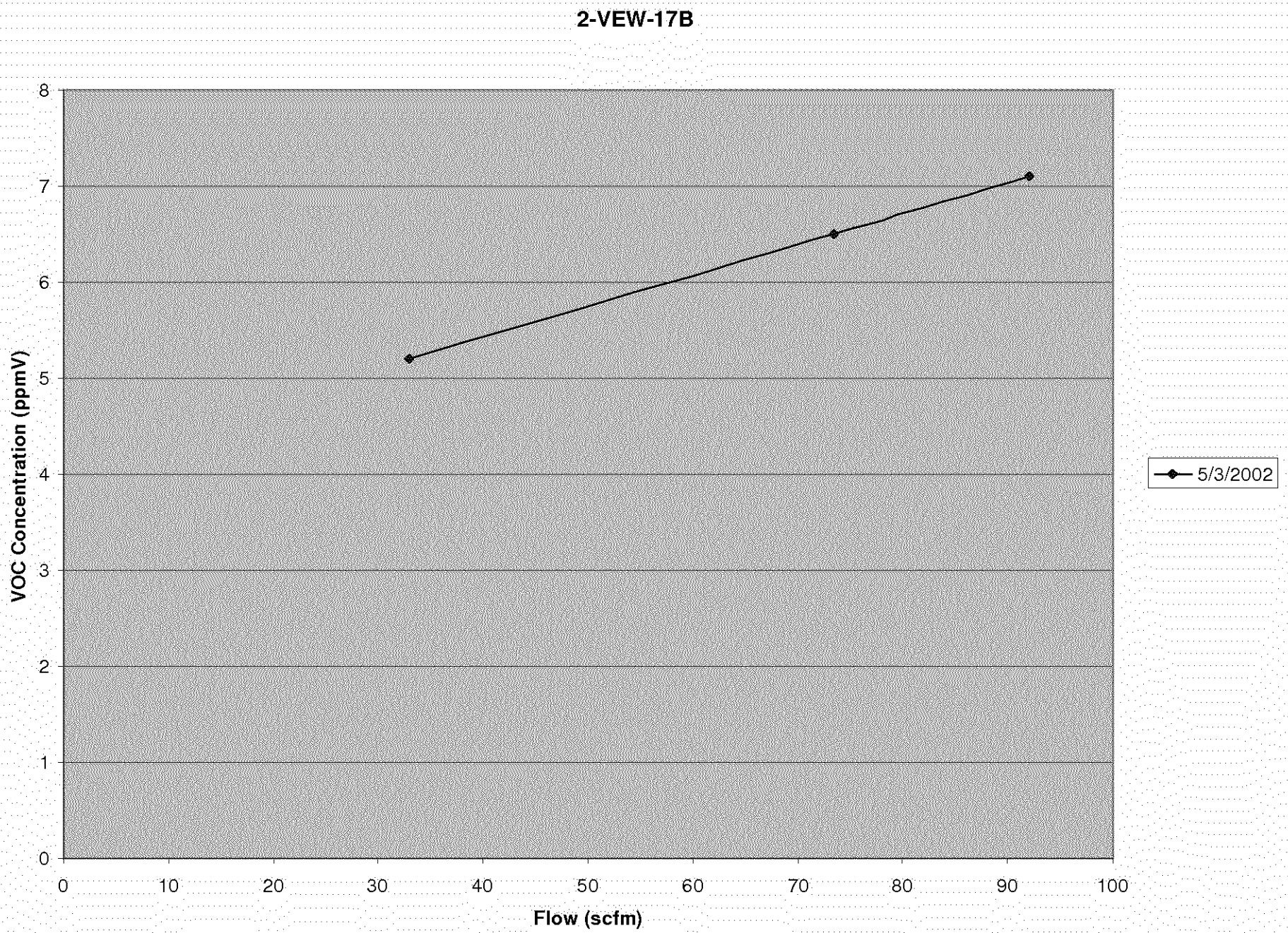

2-VEW-15A
VOC Concentration (ppmV)
200
180
160
140
120
100
80
60
40
20
0
0
20
40
60
80
100
120
140
Flow (scfm)
2/12/2002
4/12/2002

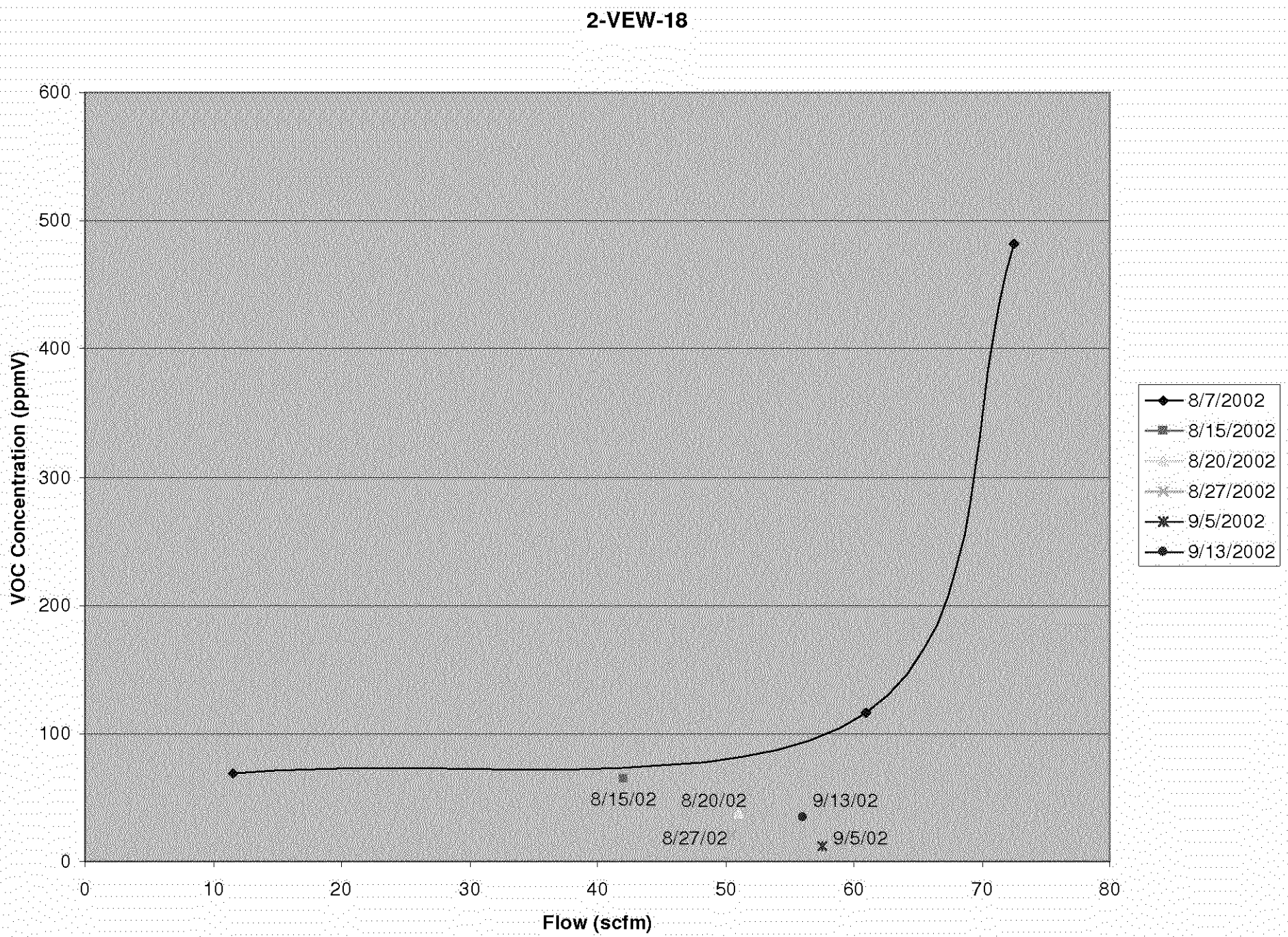

2-VEW-15B
VOC Concentration (ppmV)
Flow (scfm)
0
100
200
300
400
500
600
700
800
0
5
10
15
20
25
30
35
40
45
50
8/27/02
8/15/02
8/7/02
9/13/02
8/20/02
9/5/02
2/12/2002
4/11/2002
8/7/2002
8/15/2002
8/20/2002
8/27/2002
9/5/2002
9/13/2002

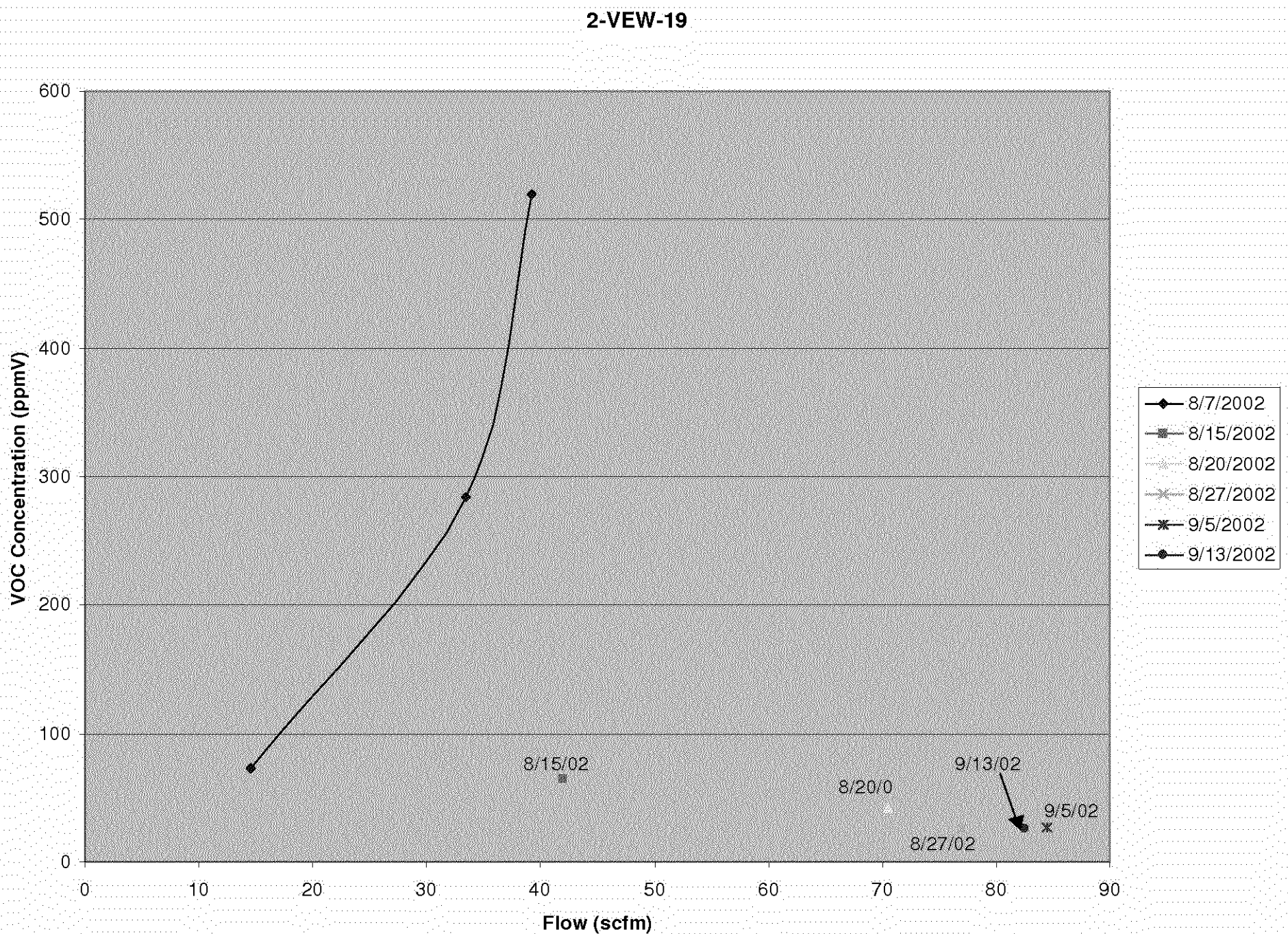

2-VEW-16A
VOC Concentration (ppmV)
40
35
30
25
20
15
10
5
0
0
2
4
6
8
10
12
14
16
18
20
Flow (scfm)
5/3/2002

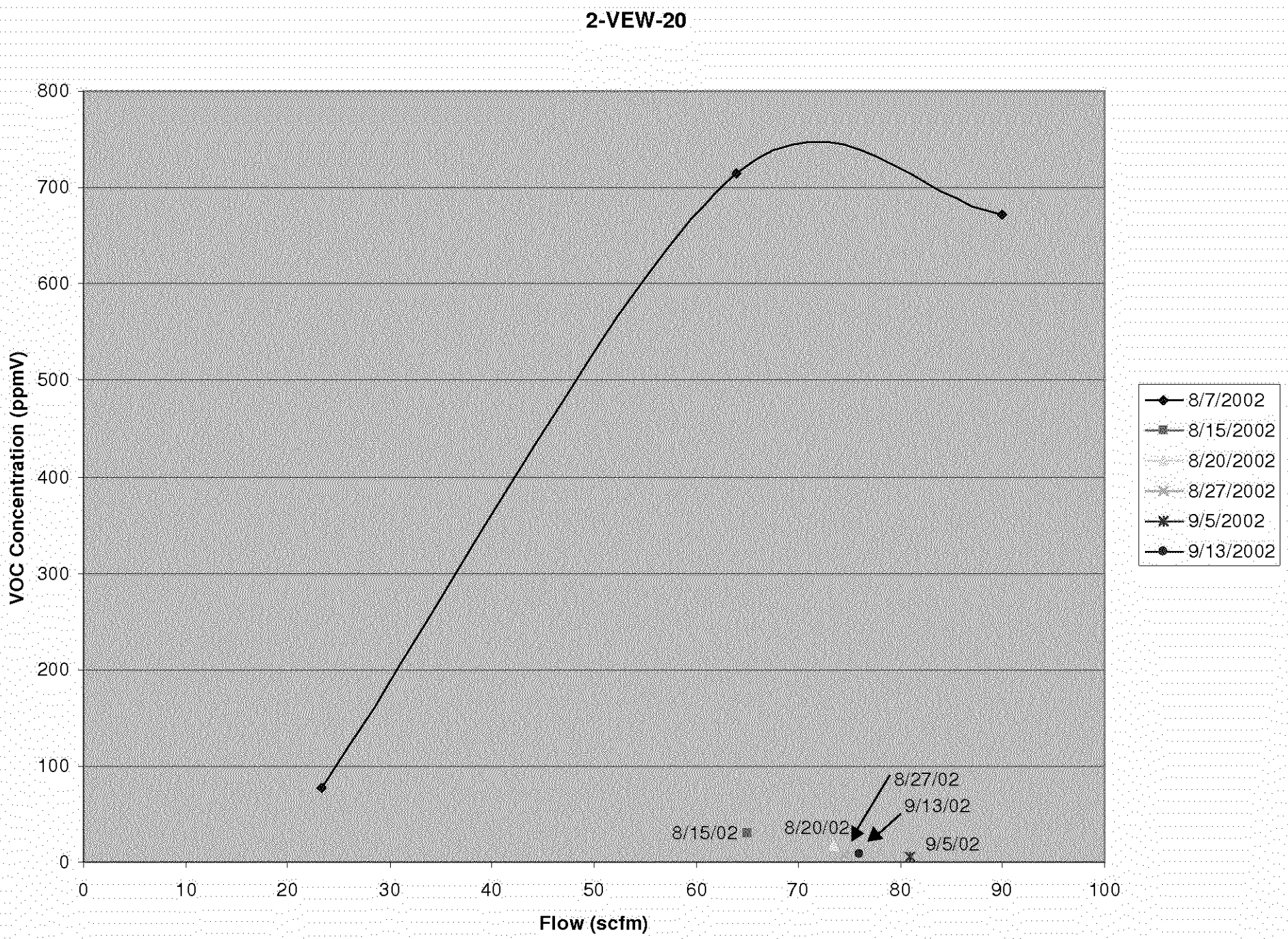

2-VEW-16B
VOC Concentration (ppmV)
30
25
20
15
10
5
0
0
10
20
30
40
50
60
70
80
90
100
Flow (scfm)
5/3/2002


2-VEW-17A
VOC Concentration (ppmV)
3
2.5
2
1.5
1
0.5
0
0
5
10
15
20
25
30
Flow (scfm)
5/3/2002


2-VEW-17B
VOC Concentration (ppmV)
0
1
2
3
4
5
6
7
8
0
10
20
30
40
50
60
70
80
90
100
Flow (scfm)
5/3/2002


2-VEW-18
VOC Concentration (ppmV)
600
500
400
300
200
100
0
0
10
20
30
40
50
60
70
80
Flow (scfm)
8/15/02
8/20/02
9/13/02
8/27/02
9/5/02
8/7/2002
8/15/2002
8/20/2002
8/27/2002
9/5/2002
9/13/2002


2-VEW-19
VOC Concentration (ppmV)
Flow (scfm)
0
100
200
300
400
500
600
0
10
20
30
40
50
60
70
80
90
8/15/02
8/20/0
9/13/02
9/5/02
8/27/02
8/7/2002
8/15/2002
8/20/2002
8/27/2002
9/5/2002
9/13/2002


2-VEW-20
VOC Concentration (ppmV)
800
700
600
500
400
300
200
100
0
0
10
20
30
40
50
60
70
80
90
100
Flow (scfm)
8/15/02
8/20/02
8/27/02
9/13/02
9/5/02
8/7/2002
8/15/2002
8/20/2002
8/27/2002
9/5/2002
9/13/2002

ANALYTICAL REPORT

BRC C-6, Torrance HaleyAldrich

Lot #: E2H010352

Scott Zachary

Haley & Aldrich Inc

SEVERN TRENT LABORATORIES, INC.

Diane Suzuki
Project Manager

August 14, 2002

EXECUTIVE SUMMARY - Detection Highlights

E2H010352

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
2_VEW_20_SSC080102_0001 08/01/02 10:00 009				
1,2-Dichloroethane	1.2 J	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	4.9 J	5.0	ug/kg	SW846 8260B
SB1000_SSC080102_0001 08/01/02 09:00 012				
Trichloroethene	3.6 J	5.0	ug/kg	SW846 8260B
SB1001_SSB080102_0001 08/01/02 13:00 014				
Acetone	890 J,B	1200	ug/kg	SW846 8260B
Trichloroethene	380	250	ug/kg	SW846 8260B
Tetrachloroethene	330	250	ug/kg	SW846 8260B
Ethylbenzene	390	250	ug/kg	SW846 8260B
Xylenes (total)	1000	250	ug/kg	SW846 8260B
Isopropylbenzene	340	250	ug/kg	SW846 8260B
p-Isopropyltoluene	900	250	ug/kg	SW846 8260B
n-Propylbenzene	900	250	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	2600	250	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	7700	250	ug/kg	SW846 8260B
sec-Butylbenzene	590	250	ug/kg	SW846 8260B
n-Butylbenzene	1900	250	ug/kg	SW846 8260B
SB1001_SSC080102_0001 08/01/02 13:00 015				
Trichloroethene	7.0	5.0	ug/kg	SW846 8260B
Tetrachloroethene	2.0 J	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	3.1 J	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	7.6	5.0	ug/kg	SW846 8260B
SP39_SSA080102_0001 08/01/02 13:00 016				
C12-C13	5.2 J	10	mg/kg	SW846 8015B
C14-C15	11	10	mg/kg	SW846 8015B
C16-C17	12	10	mg/kg	SW846 8015B
C18-C19	9.6 J	10	mg/kg	SW846 8015B
C20-C23	15	10	mg/kg	SW846 8015B
C24-C27	8.6 J	10	mg/kg	SW846 8015B
C28-C31	6.6 J	10	mg/kg	SW846 8015B
C32-C35	5.4 J	10	mg/kg	SW846 8015B
Total Carbon Chain Range	73	10	mg/kg	SW846 8015B
Mercury	0.020 B	0.10	mg/kg	SW846 7471A
Aluminum	20600	20.0	mg/kg	SW846 6010B
Arsenic	6.0	1.0	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E2H010352

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SP39_SSA080102_0001 08/01/02 13:00 016				
Barium	125	2.0	mg/kg	SW846 6010B
Chromium	28.0	1.0	mg/kg	SW846 6010B
Beryllium	0.61	0.50	mg/kg	SW846 6010B
Lead	5.7	0.50	mg/kg	SW846 6010B
Selenium	0.56	0.50	mg/kg	SW846 6010B
Cobalt	10.2	5.0	mg/kg	SW846 6010B
Copper	26.3	2.5	mg/kg	SW846 6010B
Molybdenum	1.1 B	4.0	mg/kg	SW846 6010B
Nickel	18.3	4.0	mg/kg	SW846 6010B
Vanadium	51.2	5.0	mg/kg	SW846 6010B
Zinc	66.5	2.0	mg/kg	SW846 6010B
SP39_SSB080102_0001 08/01/02 13:00 017				
C28-C31	2.1 J	10	mg/kg	SW846 8015B
C32-C35	3.2 J	10	mg/kg	SW846 8015B
C36-C39	2.1 J	10	mg/kg	SW846 8015B
Total Carbon Chain Range	7.4 J	10	mg/kg	SW846 8015B
Mercury	0.043 B	0.10	mg/kg	SW846 7471A
Aluminum	11500	20.0	mg/kg	SW846 6010B
Arsenic	6.5	1.0	mg/kg	SW846 6010B
Barium	55.7	2.0	mg/kg	SW846 6010B
Chromium	21.7	1.0	mg/kg	SW846 6010B
Beryllium	0.39 B	0.50	mg/kg	SW846 6010B
Lead	4.0	0.50	mg/kg	SW846 6010B
Cobalt	6.1	5.0	mg/kg	SW846 6010B
Copper	13.4	2.5	mg/kg	SW846 6010B
Molybdenum	1.1 B	4.0	mg/kg	SW846 6010B
Nickel	11.5	4.0	mg/kg	SW846 6010B
Vanadium	33.0	5.0	mg/kg	SW846 6010B
Zinc	35.3	2.0	mg/kg	SW846 6010B

METHODS SUMMARY

E2H010352

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B	SANA AUTO-SHAKE
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Volatile Organics by GC/MS	SW846 8260B	SW846 5030
Volatile Petroleum Hydrocarbons	SW846 8015B	SW846 5030

References:

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

SAMPLE SUMMARY

E2H010352

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E5RFP	001	2_VEW_18_SSA080102_0001	08/01/02	09:00
E5RF4	002	2_VEW_18_SSB080102_0001	08/01/02	09:00
E5RGE	003	2_VEW_18_SSC080102_0001	08/01/02	09:00
E5RGF	004	2_VEW_19_SSA080102_0001	08/01/02	10:00
E5RGK	005	2_VEW_19_SSB080102_0001	08/01/02	10:00
E5RGM	006	2_VEW_19_SSC080102_0001	08/01/02	10:00
E5RGN	007	2_VEW_20_SSA080102_0001	08/01/02	10:00
E5RGQ	008	2_VEW_20_SSB080102_0001	08/01/02	10:00
E5RGR	009	2_VEW_20_SSC080102_0001	08/01/02	10:00
E5RGV	010	SB1000_SSA080102_0001	08/01/02	09:00
E5RG1	011	SB1000_SSB080102_0001	08/01/02	09:00
E5RG4	012	SB1000_SSC080102_0001	08/01/02	09:00
E5RG9	013	SB1001_SSA080102_0001	08/01/02	13:00
E5RHC	014	SB1001_SSB080102_0001	08/01/02	13:00
E5RHD	015	SB1001_SSC080102_0001	08/01/02	13:00
E5RHE	016	SP39_SSA080102_0001	08/01/02	13:00
E5RHJ	017	SP39_SSB080102_0001	08/01/02	13:00

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.

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_18_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-001 **Work Order #...:** E5RFP1AA **Matrix.....:** SOLID
Date Sampled...: 08/01/02 09:00 **Date Received..:** 08/01/02 16:20 **MS Run #.....:** 2220107
Prep Date.....: 08/02/02 **Analysis Date..:** 08/02/02
Prep Batch #...: 2220270 **Analysis Time..:** 22:03
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_18_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-001 **Work Order #...:** E5RFP1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(65 - 135)
1,2-Dichloroethane-d4	85	(60 - 140)
Toluene-d8	88	(70 - 130)

HALEY & ALDRICH INC

2_VEW_18_SSA080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-001 **Work Order #:** E5RFP1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_18_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-002 **Work Order #...:** E5RF41AA **Matrix.....:** SOLID
Date Sampled...: 08/01/02 09:00 **Date Received..:** 08/01/02 16:20 **MS Run #.....:** 2218096
Prep Date.....: 08/05/02 **Analysis Date..:** 08/05/02
Prep Batch #...: 2218248 **Analysis Time..:** 16:49
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_18_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-002 **Work Order #...:** E5RF41AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	5.7 *	(65 - 135)
1,2-Dichloroethane-d4	18 *	(60 - 140)
Toluene-d8	4.0 *	(70 - 130)

NOTE(S):

The surrogate recovery in the sample is outside control limits due to confirmed matrix effect.

* Surrogate recovery is outside stated control limits.

HALEY & ALDRICH INC

2_VEW_18_SSB080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-002 **Work Order #:** E5RF41AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_18_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-003 **Work Order #...:** E5RGE1AA **Matrix.....:** SOLID
Date Sampled...: 08/01/02 09:00 **Date Received..:** 08/01/02 16:20 **MS Run #.....:** 2220107
Prep Date.....: 08/02/02 **Analysis Date..:** 08/02/02
Prep Batch #...: 2220270 **Analysis Time..:** 20:01
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_18_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-003 **Work Order #...:** E5RGE1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(65 - 135)
1,2-Dichloroethane-d4	92	(60 - 140)
Toluene-d8	98	(70 - 130)

HALEY & ALDRICH INC

2_VEW_18_SSC080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-003 **Work Order #:** E5RGE1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-004 **Work Order #...:** E5RGF1AA **Matrix.....:** SOLID
Date Sampled...: 08/01/02 10:00 **Date Received..:** 08/01/02 16:20 **MS Run #.....:** 2220107
Prep Date.....: 08/02/02 **Analysis Date..:** 08/02/02
Prep Batch #...: 2220270 **Analysis Time..:** 21:32
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-004 **Work Order #...:** E5RGF1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(65 - 135)
1,2-Dichloroethane-d4	91	(60 - 140)
Toluene-d8	92	(70 - 130)

HALEY & ALDRICH INC

2_VEW_19_SSA080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-004 **Work Order #:** E5RGF1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-005 **Work Order #...:** E5RGK1AA **Matrix.....:** SOLID
Date Sampled...: 08/01/02 10:00 **Date Received..:** 08/01/02 16:20 **MS Run #.....:** 2220107
Prep Date.....: 08/02/02 **Analysis Date..:** 08/02/02
Prep Batch #...: 2220270 **Analysis Time..:** 22:33
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-005 **Work Order #...:** E5RGK1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	87	(65 - 135)
1,2-Dichloroethane-d4	93	(60 - 140)
Toluene-d8	92	(70 - 130)

HALEY & ALDRICH INC

2_VEW_19_SSB080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-005 **Work Order #:** E5RGK1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-006 **Work Order #...:** E5RGM1AA **Matrix.....:** SOLID
Date Sampled...: 08/01/02 10:00 **Date Received..:** 08/01/02 16:20 **MS Run #.....:** 2220107
Prep Date.....: 08/02/02 **Analysis Date..:** 08/02/02
Prep Batch #...: 2220270 **Analysis Time..:** 23:04
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-006 **Work Order #...:** E5RGM1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(65 - 135)
1,2-Dichloroethane-d4	99	(60 - 140)
Toluene-d8	91	(70 - 130)

HALEY & ALDRICH INC

2_VEW_19_SSC080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-006 **Work Order #:** E5RGM1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_20_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-007 **Work Order #...:** E5RGN1AA **Matrix.....:** SOLID
Date Sampled...: 08/01/02 10:00 **Date Received..:** 08/01/02 16:20 **MS Run #.....:** 2220089
Prep Date.....: 08/07/02 **Analysis Date..:** 08/07/02
Prep Batch #...: 2220252 **Analysis Time..:** 12:59
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_20_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-007 **Work Order #...:** E5RGN1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(65 - 135)
1,2-Dichloroethane-d4	75	(60 - 140)
Toluene-d8	72	(70 - 130)

HALEY & ALDRICH INC

2_VEW_20_SSA080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-007 **Work Order #:** E5RGN1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_20_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-008 **Work Order #...:** E5RGQ1AA **Matrix.....:** SOLID
Date Sampled...: 08/01/02 10:00 **Date Received..:** 08/01/02 16:20 **MS Run #.....:** 2220107
Prep Date.....: 08/02/02 **Analysis Date..:** 08/03/02
Prep Batch #...: 2220270 **Analysis Time..:** 00:04
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_20_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-008 **Work Order #...:** E5RGQ1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(65 - 135)
1,2-Dichloroethane-d4	103	(60 - 140)
Toluene-d8	93	(70 - 130)

HALEY & ALDRICH INC

2_VEW_20_SSB080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-008 **Work Order #:** E5RGQ1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_20_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-009 **Work Order #...:** E5RGR1AA **Matrix.....:** SOLID
Date Sampled...: 08/01/02 10:00 **Date Received..:** 08/01/02 16:20 **MS Run #.....:** 2220107
Prep Date.....: 08/02/02 **Analysis Date..:** 08/03/02
Prep Batch #...: 2220270 **Analysis Time..:** 00:35
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	**1.2 J**	**5.0**	**ug/kg**	**1.0**
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_20_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-009 **Work Order #...:** E5RGR1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	**4.9 J**	**5.0**	**ug/kg**	**3.0**
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(65 - 135)
1,2-Dichloroethane-d4	102	(60 - 140)
Toluene-d8	94	(70 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_20_SSC080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-009 **Work Order #:** E5RGR1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1000_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-010 **Work Order #...:** E5RGV1AA **Matrix.....:** SOLID
Date Sampled...: 08/01/02 09:00 **Date Received..:** 08/01/02 16:20 **MS Run #.....:** 2220107
Prep Date.....: 08/02/02 **Analysis Date..:** 08/03/02
Prep Batch #...: 2220270 **Analysis Time..:** 01:05
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1000_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-010 **Work Order #...:** E5RGV1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(65 - 135)
1,2-Dichloroethane-d4	99	(60 - 140)
Toluene-d8	90	(70 - 130)

HALEY & ALDRICH INC

SB1000_SSA080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-010 **Work Order #:** E5RGV1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1000_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-011 **Work Order #...:** E5RG11AA **Matrix.....:** SOLID
Date Sampled...: 08/01/02 09:00 **Date Received..:** 08/01/02 16:20 **MS Run #.....:** 2220107
Prep Date.....: 08/02/02 **Analysis Date..:** 08/03/02
Prep Batch #...: 2220270 **Analysis Time..:** 01:35
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1000_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-011 **Work Order #...:** E5RG11AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(65 - 135)
1,2-Dichloroethane-d4	112	(60 - 140)
Toluene-d8	94	(70 - 130)

HALEY & ALDRICH INC

SB1000_SSB080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-011 **Work Order #:** E5RG11AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1000_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-012 **Work Order #...:** E5RG41AA **Matrix.....:** SOLID
Date Sampled...: 08/01/02 09:00 **Date Received..:** 08/01/02 16:20 **MS Run #.....:** 2220107
Prep Date.....: 08/02/02 **Analysis Date..:** 08/03/02
Prep Batch #...: 2220270 **Analysis Time..:** 02:06
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	**3.6 J**	**5.0**	**ug/kg**	**2.0**
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1000_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-012 **Work Order #...:** E5RG41AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(65 - 135)
1,2-Dichloroethane-d4	110	(60 - 140)
Toluene-d8	93	(70 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

SB1000_SSC080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-012 **Work Order #:** E5RG41AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1001_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-013 **Work Order #...:** E5RG91AA **Matrix.....:** SOLID
Date Sampled...: 08/01/02 13:00 **Date Received..:** 08/01/02 16:20 **MS Run #.....:** 2220107
Prep Date.....: 08/02/02 **Analysis Date..:** 08/03/02
Prep Batch #...: 2220270 **Analysis Time..:** 02:36
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1001_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-013 **Work Order #...:** E5RG91AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(65 - 135)
1,2-Dichloroethane-d4	115	(60 - 140)
Toluene-d8	95	(70 - 130)

HALEY & ALDRICH INC

SB1001_SSA080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-013 **Work Order #:** E5RG91AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1001_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-014 **Work Order #...:** E5RHC1AA **Matrix.....:** SOLID
Date Sampled...: 08/01/02 13:00 **Date Received..:** 08/01/02 16:20 **MS Run #.....:** 2225151
Prep Date.....: 08/06/02 **Analysis Date..:** 08/07/02
Prep Batch #...: 2225371 **Analysis Time..:** 19:08
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	500	ug/kg	170
Chloromethane	ND	500	ug/kg	200
Vinyl chloride	ND	500	ug/kg	150
Bromomethane	ND	500	ug/kg	250
1,2-Dibromoethane	ND	250	ug/kg	70
Chloroethane	ND	500	ug/kg	250
Trichlorofluoromethane	ND	500	ug/kg	70
Acrolein	ND	5000	ug/kg	2000
1,1-Dichloroethene	ND	250	ug/kg	120
Iodomethane	ND	500	ug/kg	250
Acetone	**890 J,B**	**1200**	**ug/kg**	**400**
Carbon disulfide	ND	250	ug/kg	120
Methylene chloride	ND	250	ug/kg	50
trans-1,2-Dichloroethene	ND	250	ug/kg	120
Acrylonitrile	ND	5000	ug/kg	2000
Methyl tert-butyl ether	ND	250	ug/kg	100
1,1-Dichloroethane	ND	250	ug/kg	100
Vinyl acetate	ND	500	ug/kg	380
2,2-Dichloropropane	ND	250	ug/kg	100
cis-1,2-Dichloroethene	ND	250	ug/kg	120
2-Butanone	ND	1200	ug/kg	700
Bromochloromethane	ND	250	ug/kg	110
Chloroform	ND	250	ug/kg	70
Tetrahydrofuran	ND	1000	ug/kg	500
1,1,1-Trichloroethane	ND	250	ug/kg	180
1,1-Dichloropropene	ND	250	ug/kg	100
Carbon tetrachloride	ND	250	ug/kg	100
Benzene	ND	250	ug/kg	100
1,2-Dichloroethane	ND	250	ug/kg	70
Trichloroethene	**380**	**250**	**ug/kg**	**70**
1,2-Dichloropropane	ND	250	ug/kg	100
Bromodichloromethane	ND	250	ug/kg	100
2-Chloroethyl vinyl ether	ND	500	ug/kg	350
cis-1,3-Dichloropropene	ND	250	ug/kg	100
4-Methyl-2-pentanone	ND	1200	ug/kg	400
Toluene	ND	250	ug/kg	60
trans-1,3-Dichloropropene	ND	250	ug/kg	70

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HALEY & ALDRICH INC

Client Sample ID: SB1001_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-014 **Work Order #...:** E5RHC1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	250	ug/kg	100
Tetrachloroethene	**330**	**250**	**ug/kg**	**80**
2-Hexanone	ND	1200	ug/kg	350
Dibromochloromethane	ND	250	ug/kg	110
Chlorobenzene	ND	250	ug/kg	100
Ethylbenzene	**390**	**250**	**ug/kg**	**70**
Xylenes (total)	**1000**	**250**	**ug/kg**	**180**
Styrene	ND	500	ug/kg	100
Bromoform	ND	250	ug/kg	100
Isopropylbenzene	**340**	**250**	**ug/kg**	**120**
p-Isopropyltoluene	**900**	**250**	**ug/kg**	**70**
Bromobenzene	ND	250	ug/kg	70
1,1,1,2-Tetrachloroethane	ND	250	ug/kg	60
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	100
1,2,3-Trichloropropane	ND	250	ug/kg	110
n-Propylbenzene	**900**	**250**	**ug/kg**	**110**
2-Chlorotoluene	ND	250	ug/kg	70
4-Chlorotoluene	ND	250	ug/kg	70
1,3,5-Trimethylbenzene	**2600**	**250**	**ug/kg**	**120**
tert-Butylbenzene	ND	250	ug/kg	70
1,2,4-Trimethylbenzene	**7700**	**250**	**ug/kg**	**70**
sec-Butylbenzene	**590**	**250**	**ug/kg**	**70**
1,3-Dichlorobenzene	ND	250	ug/kg	70
1,4-Dichlorobenzene	ND	250	ug/kg	100
1,2-Dichlorobenzene	ND	250	ug/kg	100
n-Butylbenzene	**1900**	**250**	**ug/kg**	**70**
1,2-Dibromo-3-chloro-propane	ND	500	ug/kg	150
1,2,4-Trichloro-benzene	ND	250	ug/kg	70
Hexachlorobutadiene	ND	250	ug/kg	70
1,2,3-Trichlorobenzene	ND	250	ug/kg	70
t-Butanol	ND	5000	ug/kg	2500
Isopropyl ether	ND	500	ug/kg	100
Tert-amyl methyl ether	ND	500	ug/kg	100
Tert-butyl ethyl ether	ND	500	ug/kg	100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(60 - 140)
1,2-Dichloroethane-d4	97	(60 - 140)
Toluene-d8	93	(60 - 140)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

HALEY & ALDRICH INC

SB1001_SSB080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-014 **Work Order #:** E5RHC1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
unknown aromatic hydrocarbon		8900	M	16.178	ug/kg
unknown aromatic hydrocarbon		8100	M	17.94	ug/kg
unknown aromatic hydrocarbon		13000	M	18.403	ug/kg
unknown aromatic hydrocarbon		7600	M	19.17	ug/kg
unknown aromatic hydrocarbon		5300	M	20.263	ug/kg
unknown aromatic hydrocarbon		21000	M	21.1	ug/kg
unknown Naphthalene		6200	M	21.395	ug/kg
unknown Naphthalene		13000	M	23.443	ug/kg
unknown Naphthalene		31000	M	24.113	ug/kg
unknown Naphthalene		13000	M	24.29	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

HALEY & ALDRICH INC

Client Sample ID: SB1001_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-015 **Work Order #...:** E5RHD1AA **Matrix.....:** SOLID
Date Sampled...: 08/01/02 13:00 **Date Received..:** 08/01/02 16:20 **MS Run #.....:** 2220107
Prep Date.....: 08/02/02 **Analysis Date..:** 08/03/02
Prep Batch #...: 2220270 **Analysis Time..:** 03:36
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	**7.0**	**5.0**	**ug/kg**	**2.0**
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1001_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-015 **Work Order #...:** E5RHD1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	**2.0 J**	**5.0**	**ug/kg**	**2.0**
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	**3.1 J**	**5.0**	**ug/kg**	**2.0**
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	**7.6**	**5.0**	**ug/kg**	**2.0**
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	128	(65 - 135)
1,2-Dichloroethane-d4	96	(60 - 140)
Toluene-d8	87	(70 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

SB1001_SSC080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-015 **Work Order #:** E5RHD1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown aromatic		140	M	17.382	ug/kg
Unknown alkane		420	M	18.82	ug/kg
Unknown cycloalkane		92	M	19.952	ug/kg
Unknown aromatic		67	M	20.11	ug/kg
Unknown alkane		380	M	21.399	ug/kg
Unknown cycloalkane		70	M	22.108	ug/kg
Unknown alkane		940	M	23.152	ug/kg
Unknown cycloalkane		140	M	23.9	ug/kg
Unknown alkane		410	M	24.087	ug/kg
Unknown alkane		330	M	24.284	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

HALEY & ALDRICH INC

Client Sample ID: SP39_SSA080102_0001

GC Volatiles

Lot-Sample #...:	E2H010352-016	**Work Order #...:**	E5RHE1AC	**Matrix.....:**	SOLID
Date Sampled...:	08/01/02 13:00	**Date Received..:**	08/01/02 16:20	**MS Run #.....:**	2217161
Prep Date.....:	08/02/02	**Analysis Date..:**	08/02/02		
Prep Batch #...:	2217325	**Analysis Time..:**	16:40		
Dilution Factor:	1				
Analyst ID.....:	001464	**Instrument ID..:**	G13		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	91	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP39_SSA080102_0001

GC Semivolatiles

Lot-Sample #...:	E2H010352-016	**Work Order #...:**	E5RHE1AA	**Matrix.....:**	SOLID
Date Sampled...:	08/01/02 13:00	**Date Received..:**	08/01/02 16:20	**MS Run #.....:**	2214105
Prep Date.....:	08/02/02	**Analysis Date..:**	08/05/02		
Prep Batch #...:	2214273	**Analysis Time..:**	17:15		
Dilution Factor:	1				
Analyst ID.....:	356074	**Instrument ID..:**	G02		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	2.0
C10-C11	ND	10	mg/kg	2.0
C12-C13	**5.2 J**	**10**	**mg/kg**	**2.0**
C14-C15	**11**	**10**	**mg/kg**	**2.0**
C16-C17	**12**	**10**	**mg/kg**	**2.0**
C18-C19	**9.6 J**	**10**	**mg/kg**	**2.0**
C20-C23	**15**	**10**	**mg/kg**	**2.0**
C24-C27	**8.6 J**	**10**	**mg/kg**	**2.0**
C28-C31	**6.6 J**	**10**	**mg/kg**	**2.0**
C32-C35	**5.4 J**	**10**	**mg/kg**	**2.0**
C36-C39	ND	10	mg/kg	2.0
C40+	ND	10	mg/kg	2.0
Total Carbon Chain Range	**73**	**10**	**mg/kg**	**2.0**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	97	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP39_SSA080102_0001

TOTAL Metals

Lot-Sample #...: E2H010352-016 **Matrix.....:** SOLID
Date Sampled...: 08/01/02 13:00 **Date Received..:** 08/01/02 16:20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2214218						
Aluminum	**20600**	**20.0**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHE1AE**
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 8.0	
Arsenic	**6.0**	**1.0**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHE1AF**
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AG
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.60	
Barium	**125**	**2.0**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHE1AH**
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AJ
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.060	
Chromium	**28.0**	**1.0**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHE1AK**
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Beryllium	**0.61**	**0.50**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHE1AL**
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.050	
Lead	**5.7**	**0.50**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHE1AM**
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.30	
Selenium	**0.56**	**0.50**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHE1AN**
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: SP39_SSA080102_0001

TOTAL Metals

Lot-Sample #...: E2H010352-016 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AP
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Cobalt	**10.2**	**5.0**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHE1AQ**
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Copper	**26.3**	**2.5**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHE1AR**
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.40	
Molybdenum	**1.1 B**	**4.0**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHE1AT**
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.30	
Nickel	**18.3**	**4.0**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHE1AU**
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AV
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.80	
Vanadium	**51.2**	**5.0**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHE1AW**
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Zinc	**66.5**	**2.0**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHE1AX**
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 1.0	

Prep Batch #...: 2214226

Mercury	**0.020 B**	**0.10**	**mg/kg**	**SW846 7471A**	**08/02/02**	**E5RHE1A0**
		Dilution Factor: 1		Analysis Time..: 14:00	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 2214073	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP39_SSB080102_0001

GC Volatiles

Lot-Sample #...:	E2H010352-017	**Work Order #...:**	E5RHJ1AD	**Matrix.....:**	SOLID
Date Sampled...:	08/01/02 13:00	**Date Received..:**	08/01/02 16:20	**MS Run #.....:**	2217161
Prep Date.....:	08/02/02	**Analysis Date..:**	08/02/02		
Prep Batch #...:	2217325	**Analysis Time..:**	17:08		
Dilution Factor:	1				
Analyst ID.....:	001464	**Instrument ID..:**	G13		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	90	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP39_SSB080102_0001

GC Semivolatiles

Lot-Sample #...:	E2H010352-017	**Work Order #...:**	E5RHJ1AC	**Matrix.....:**	SOLID
Date Sampled...:	08/01/02 13:00	**Date Received..:**	08/01/02 16:20	**MS Run #.....:**	2214105
Prep Date.....:	08/02/02	**Analysis Date..:**	08/05/02		
Prep Batch #...:	2214273	**Analysis Time..:**	17:54		
Dilution Factor:	1				
Analyst ID.....:	356074	**Instrument ID..:**	G02		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	2.0
C10-C11	ND	10	mg/kg	2.0
C12-C13	ND	10	mg/kg	2.0
C14-C15	ND	10	mg/kg	2.0
C16-C17	ND	10	mg/kg	2.0
C18-C19	ND	10	mg/kg	2.0
C20-C23	ND	10	mg/kg	2.0
C24-C27	ND	10	mg/kg	2.0
C28-C31	**2.1 J**	**10**	**mg/kg**	**2.0**
C32-C35	**3.2 J**	**10**	**mg/kg**	**2.0**
C36-C39	**2.1 J**	**10**	**mg/kg**	**2.0**
C40+	ND	10	mg/kg	2.0
Total Carbon Chain Range	**7.4 J**	**10**	**mg/kg**	**2.0**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	91	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP39_SSB080102_0001

TOTAL Metals

Lot-Sample #...: E2H010352-017 **Matrix.....:** SOLID
Date Sampled...: 08/01/02 13:00 **Date Received..:** 08/01/02 16:20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2214218						
Aluminum	**11500**	**20.0**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHJ1AF**
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 8.0	
Arsenic	**6.5**	**1.0**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHJ1AG**
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AH
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.60	
Barium	**55.7**	**2.0**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHJ1AJ**
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AK
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.060	
Chromium	**21.7**	**1.0**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHJ1AL**
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Beryllium	**0.39 B**	**0.50**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHJ1AM**
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.050	
Lead	**4.0**	**0.50**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHJ1AN**
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AP
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: SP39_SSB080102_0001

TOTAL Metals

Lot-Sample #...: E2H010352-017 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AQ
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Cobalt	**6.1**	**5.0**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHJ1AR**
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Copper	**13.4**	**2.5**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHJ1AT**
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.40	
Molybdenum	**1.1 B**	**4.0**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHJ1AU**
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.30	
Nickel	**11.5**	**4.0**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHJ1AV**
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AW
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.80	
Vanadium	**33.0**	**5.0**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHJ1AX**
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Zinc	**35.3**	**2.0**	**mg/kg**	**SW846 6010B**	**08/02-08/05/02**	**E5RHJ1A0**
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 1.0	

Prep Batch #...: 2214226

Mercury	**0.043 B**	**0.10**	**mg/kg**	**SW846 7471A**	**08/02/02**	**E5RHJ1AA**
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 2214073	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

QC DATA ASSOCIATION SUMMARY

E2H010352

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8260B		2220270	2220107
002	SOLID	SW846 8260B		2218248	2218096
003	SOLID	SW846 8260B		2220270	2220107
004	SOLID	SW846 8260B		2220270	2220107
005	SOLID	SW846 8260B		2220270	2220107
006	SOLID	SW846 8260B		2220270	2220107
007	SOLID	SW846 8260B		2220252	2220089
008	SOLID	SW846 8260B		2220270	2220107
009	SOLID	SW846 8260B		2220270	2220107
010	SOLID	SW846 8260B		2220270	2220107
011	SOLID	SW846 8260B		2220270	2220107
012	SOLID	SW846 8260B		2220270	2220107
013	SOLID	SW846 8260B		2220270	2220107
014	SOLID	SW846 8260B		2225371	2225151
015	SOLID	SW846 8260B		2220270	2220107
016	SOLID	SW846 8015B		2214273	2214105
	SOLID	SW846 8015B		2217325	2217161
	SOLID	SW846 7471A		2214226	2214073
	SOLID	SW846 6010B		2214218	2214071
017	SOLID	SW846 8015B		2214273	2214105
	SOLID	SW846 8015B		2217325	2217161
	SOLID	SW846 7471A		2214226	2214073
	SOLID	SW846 6010B		2214218	2214071

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 **Work Order #...:** E50FG1AA **Matrix.....:** SOLID
MB Lot-Sample #: E2H060000-248

Prep Date.....: 08/05/02 **Analysis Time..:** 16:04
Analysis Date..: 08/05/02 **Prep Batch #...:** 2218248 **Instrument ID..:** MSD
Dilution Factor: 1

Analyst ID.....: 999998

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	100	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 **Work Order #...:** E50FG1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
t-Butanol	ND	100	ug/kg	SW846 8260B
Isopropyl ether	ND	10	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	10	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(65 - 135)
1,2-Dichloroethane-d4	91	(60 - 140)
Toluene-d8	96	(70 - 130)

NOTE(S):

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

HALEY & ALDRICH INC

Method Blank Report

GC/MS Volatiles

Lot-Sample #: E2H060000-248 B **Work Order #:** E50FG1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 **Work Order #...:** E54KX1AA **Matrix.....:** SOLID
MB Lot-Sample #: E2H080000-252

Prep Date.....: 08/07/02 **Analysis Time..:** 12:07
Analysis Date..: 08/07/02 **Prep Batch #...:** 2220252 **Instrument ID..:** MSD
Dilution Factor: 1

Analyst ID.....: 999998

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	100	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 **Work Order #...:** E54KX1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
t-Butanol	ND	100	ug/kg	SW846 8260B
Isopropyl ether	ND	10	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	10	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(65 - 135)
1,2-Dichloroethane-d4	81	(60 - 140)
Toluene-d8	80	(70 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 **Work Order #...:** E54L91AA **Matrix.....:** SOLID
MB Lot-Sample #: E2H080000-270

Prep Date.....: 08/02/02 **Analysis Time..:** 19:30
Analysis Date..: 08/02/02 **Prep Batch #...:** 2220270 **Instrument ID..:** MSD
Dilution Factor: 1

Analyst ID.....: 999998

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	100	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 **Work Order #...:** E54L91AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
t-Butanol	ND	100	ug/kg	SW846 8260B
Isopropyl ether	ND	10	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	10	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(65 - 135)
1,2-Dichloroethane-d4	82	(60 - 140)
Toluene-d8	91	(70 - 130)

NOTE(S):

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

HALEY & ALDRICH INC

Method Blank Report

GC/MS Volatiles

Lot-Sample #: E2H080000-270 B **Work Order #:** E54L91AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 **Work Order #...:** E6D491AA **Matrix.....:** SOLID
MB Lot-Sample #: E2H130000-371

Prep Date.....: 08/06/02 **Analysis Time..:** 18:36
Analysis Date..: 08/07/02 **Prep Batch #...:** 2225371 **Instrument ID..:** MSD
Dilution Factor: 1

Analyst ID.....: 999998

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	500	ug/kg	SW846 8260B
Chloromethane	ND	500	ug/kg	SW846 8260B
Vinyl chloride	ND	500	ug/kg	SW846 8260B
Bromomethane	ND	500	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	250	ug/kg	SW846 8260B
Chloroethane	ND	500	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	500	ug/kg	SW846 8260B
Acrolein	ND	5000	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	250	ug/kg	SW846 8260B
Iodomethane	ND	500	ug/kg	SW846 8260B
Acetone	**920 J**	**1200**	**ug/kg**	**SW846 8260B**
Carbon disulfide	ND	250	ug/kg	SW846 8260B
Methylene chloride	ND	250	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
Acrylonitrile	ND	5000	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	250	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	250	ug/kg	SW846 8260B
Vinyl acetate	ND	500	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	250	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
2-Butanone	ND	1200	ug/kg	SW846 8260B
Bromochloromethane	ND	250	ug/kg	SW846 8260B
Chloroform	ND	250	ug/kg	SW846 8260B
Tetrahydrofuran	ND	1000	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	250	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	250	ug/kg	SW846 8260B
Carbon tetrachloride	ND	250	ug/kg	SW846 8260B
Benzene	ND	250	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	250	ug/kg	SW846 8260B
Trichloroethene	ND	250	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	250	ug/kg	SW846 8260B
Bromodichloromethane	ND	250	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	500	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	1200	ug/kg	SW846 8260B
Toluene	ND	250	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	250	ug/kg	SW846 8260B
Tetrachloroethene	ND	250	ug/kg	SW846 8260B
2-Hexanone	ND	1200	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 **Work Order #...:** E6D491AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dibromochloromethane	ND	250	ug/kg	SW846 8260B
Chlorobenzene	ND	250	ug/kg	SW846 8260B
Ethylbenzene	ND	250	ug/kg	SW846 8260B
Xylenes (total)	ND	250	ug/kg	SW846 8260B
Styrene	ND	500	ug/kg	SW846 8260B
Bromoform	ND	250	ug/kg	SW846 8260B
Isopropylbenzene	ND	250	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	250	ug/kg	SW846 8260B
Bromobenzene	ND	250	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	250	ug/kg	SW846 8260B
n-Propylbenzene	ND	250	ug/kg	SW846 8260B
2-Chlorotoluene	ND	250	ug/kg	SW846 8260B
4-Chlorotoluene	ND	250	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	250	ug/kg	SW846 8260B
tert-Butylbenzene	ND	250	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	250	ug/kg	SW846 8260B
sec-Butylbenzene	ND	250	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
n-Butylbenzene	ND	250	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	500	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	250	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	250	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	250	ug/kg	SW846 8260B
t-Butanol	ND	5000	ug/kg	SW846 8260B
Isopropyl ether	ND	500	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	500	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	500	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(60 - 140)
1,2-Dichloroethane-d4	105	(60 - 140)
Toluene-d8	102	(60 - 140)

NOTE(S):

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

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Method Blank Report

GC/MS Volatiles

Lot-Sample #: E2H130000-371 B **Work Order #:** E6D491AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
unknown		260	M	9.704	ug/kg
unknown		280	M	11.929	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E2H010352 **Work Order #...:** E5XCW1AA **Matrix.....:** SOLID
MB Lot-Sample #: E2H050000-325

Prep Date.....: 08/02/02 **Analysis Time..:** 15:44
Analysis Date..: 08/02/02 **Prep Batch #...:** 2217325 **Instrument ID..:** G13
Dilution Factor: 1

Analyst ID.....: 001464

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C6-C8	ND	1.0	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	91	(60 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E2H010352 **Work Order #...:** E5TF11AA **Matrix.....:** SOLID
MB Lot-Sample #: E2H020000-273

Prep Date.....: 08/02/02 **Analysis Time..:** 14:01
Analysis Date..: 08/05/02 **Prep Batch #...:** 2214273 **Instrument ID..:** G02
Dilution Factor: 1

Analyst ID.....: 356074

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C8-C9	ND	10	mg/kg	SW846 8015B
C10-C11	ND	10	mg/kg	SW846 8015B
C12-C13	ND	10	mg/kg	SW846 8015B
C14-C15	ND	10	mg/kg	SW846 8015B
C16-C17	ND	10	mg/kg	SW846 8015B
C18-C19	ND	10	mg/kg	SW846 8015B
C20-C23	ND	10	mg/kg	SW846 8015B
C24-C27	ND	10	mg/kg	SW846 8015B
C28-C31	ND	10	mg/kg	SW846 8015B
C32-C35	ND	10	mg/kg	SW846 8015B
C36-C39	ND	10	mg/kg	SW846 8015B
C40+	ND	10	mg/kg	SW846 8015B
Total Carbon Chain Range	ND	10	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	93	(60 - 130)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E2H010352 **Matrix.....:** SOLID

MB Lot-Sample #: E2H020000-218 **Prep Batch #...:** 2214218

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum	ND	20.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AA
		Dilution Factor: 1				
		Analysis Time..: 13:05	Analyst ID.....: 021088	Instrument ID..: M01		
Arsenic	ND	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AC
		Dilution Factor: 1				
		Analysis Time..: 13:05	Analyst ID.....: 021088	Instrument ID..: M01		
Antimony	ND	6.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AD
		Dilution Factor: 1				
		Analysis Time..: 13:05	Analyst ID.....: 021088	Instrument ID..: M01		
Barium	ND	2.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AE
		Dilution Factor: 1				
		Analysis Time..: 13:05	Analyst ID.....: 021088	Instrument ID..: M01		
Cadmium	ND	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AF
		Dilution Factor: 1				
		Analysis Time..: 13:05	Analyst ID.....: 021088	Instrument ID..: M01		
Chromium	ND	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AG
		Dilution Factor: 1				
		Analysis Time..: 13:05	Analyst ID.....: 021088	Instrument ID..: M01		
Beryllium	ND	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AH
		Dilution Factor: 1				
		Analysis Time..: 13:05	Analyst ID.....: 021088	Instrument ID..: M01		
Lead	ND	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AJ
		Dilution Factor: 1				
		Analysis Time..: 13:05	Analyst ID.....: 021088	Instrument ID..: M01		
Selenium	ND	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AK
		Dilution Factor: 1				
		Analysis Time..: 13:05	Analyst ID.....: 021088	Instrument ID..: M01		
Silver	ND	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AL
		Dilution Factor: 1				
		Analysis Time..: 13:05	Analyst ID.....: 021088	Instrument ID..: M01		
Cobalt	ND	5.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AM
		Dilution Factor: 1				
		Analysis Time..: 13:05	Analyst ID.....: 021088	Instrument ID..: M01		

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E2H010352 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	2.5	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AN
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AP
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AQ
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AR
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AT
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AU
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	

MB Lot-Sample #: E2H020000-226 **Prep Batch #...:** 2214226

Mercury	ND	0.10	mg/kg	SW846 7471A	08/02/02	E5R4L1AA
		Dilution Factor: 1				
		Analysis Time..: 13:55		Analyst ID.....: 000023	Instrument ID..: M04	

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 **Work Order #...:** E50FG1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2H060000-248
Prep Date.....: 08/05/02 **Analysis Date..:** 08/05/02
Prep Batch #...: 2218248 **Analysis Time..:** 15:34
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**88**	**(65 - 150)**	**SW846 8260B**
Benzene	**95**	**(70 - 130)**	**SW846 8260B**
Trichloroethene	**92**	**(70 - 135)**	**SW846 8260B**
Toluene	**90**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**89**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(65 - 135)
1,2-Dichloroethane-d4	84	(60 - 140)
Toluene-d8	90	(70 - 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 #...: E2H010352 **Work Order #...:** E50FG1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2H060000-248
Prep Date.....: 08/05/02 **Analysis Date..:** 08/05/02
Prep Batch #...: 2218248 **Analysis Time..:** 15:34
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**44.0**	**ug/kg**	**88**	**SW846 8260B**
Benzene	**50.0**	**47.6**	**ug/kg**	**95**	**SW846 8260B**
Trichloroethene	**50.0**	**45.8**	**ug/kg**	**92**	**SW846 8260B**
Toluene	**50.0**	**45.0**	**ug/kg**	**90**	**SW846 8260B**
Chlorobenzene	**50.0**	**44.3**	**ug/kg**	**89**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(65 - 135)
1,2-Dichloroethane-d4	84	(60 - 140)
Toluene-d8	90	(70 - 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 #...: E2H010352 **Work Order #...:** E54KX1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2H080000-252
Prep Date.....: 08/07/02 **Analysis Date..:** 08/07/02
Prep Batch #...: 2220252 **Analysis Time..:** 11:37
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**93**	**(73 - 128)**	**SW846 8260B**
Benzene	**94**	**(81 - 119)**	**SW846 8260B**
Trichloroethene	**94**	**(78 - 121)**	**SW846 8260B**
Toluene	**93**	**(80 - 122)**	**SW846 8260B**
Chlorobenzene	**92**	**(82 - 119)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(60 - 128)
1,2-Dichloroethane-d4	75	(63 - 134)
Toluene-d8	78	(72 - 123)
Dibromofluoromethane	81	(70 - 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 #...: E2H010352 **Work Order #...:** E54KX1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2H080000-252
Prep Date.....: 08/07/02 **Analysis Date..:** 08/07/02
Prep Batch #...: 2220252 **Analysis Time..:** 11:37
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**46.4**	**ug/kg**	**93**	**SW846 8260B**
Benzene	**50.0**	**47.2**	**ug/kg**	**94**	**SW846 8260B**
Trichloroethene	**50.0**	**46.8**	**ug/kg**	**94**	**SW846 8260B**
Toluene	**50.0**	**46.6**	**ug/kg**	**93**	**SW846 8260B**
Chlorobenzene	**50.0**	**46.2**	**ug/kg**	**92**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(60 - 128)
1,2-Dichloroethane-d4	75	(63 - 134)
Toluene-d8	78	(72 - 123)
Dibromofluoromethane	81	(70 - 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 #...: E2H010352 **Work Order #...:** E54L91AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2H080000-270
Prep Date.....: 08/02/02 **Analysis Date..:** 08/02/02
Prep Batch #...: 2220270 **Analysis Time..:** 17:35
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**99**	**(73 - 128)**	**SW846 8260B**
Benzene	**101**	**(81 - 119)**	**SW846 8260B**
Trichloroethene	**97**	**(78 - 121)**	**SW846 8260B**
Toluene	**98**	**(80 - 122)**	**SW846 8260B**
Chlorobenzene	**97**	**(82 - 119)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(60 - 128)
1,2-Dichloroethane-d4	92	(63 - 134)
Toluene-d8	99	(72 - 123)
Dibromofluoromethane	97	(70 - 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 #...: E2H010352 **Work Order #...:** E54L91AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2H080000-270
Prep Date.....: 08/02/02 **Analysis Date..:** 08/02/02
Prep Batch #...: 2220270 **Analysis Time..:** 17:35
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**49.6**	**ug/kg**	**99**	**SW846 8260B**
Benzene	**50.0**	**50.4**	**ug/kg**	**101**	**SW846 8260B**
Trichloroethene	**50.0**	**48.5**	**ug/kg**	**97**	**SW846 8260B**
Toluene	**50.0**	**48.8**	**ug/kg**	**98**	**SW846 8260B**
Chlorobenzene	**50.0**	**48.3**	**ug/kg**	**97**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(60 - 128)
1,2-Dichloroethane-d4	92	(63 - 134)
Toluene-d8	99	(72 - 123)
Dibromofluoromethane	97	(70 - 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 #...: E2H010352 **Work Order #...:** E6D491AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2H130000-371
Prep Date.....: 08/06/02 **Analysis Date..:** 08/07/02
Prep Batch #...: 2225371 **Analysis Time..:** 17:33
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**89**	**(60 - 145)**	**SW846 8260B**
Benzene	**82**	**(60 - 135)**	**SW846 8260B**
Trichloroethene	**88**	**(60 - 140)**	**SW846 8260B**
Toluene	**91**	**(60 - 125)**	**SW846 8260B**
Chlorobenzene	**92**	**(60 - 125)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(60 - 140)
1,2-Dichloroethane-d4	104	(60 - 140)
Toluene-d8	106	(60 - 140)

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 #...: E2H010352 **Work Order #...:** E6D491AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2H130000-371
Prep Date.....: 08/06/02 **Analysis Date..:** 08/07/02
Prep Batch #...: 2225371 **Analysis Time..:** 17:33
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**2500**	**2230**	**ug/kg**	**89**	**SW846 8260B**
Benzene	**2500**	**2050**	**ug/kg**	**82**	**SW846 8260B**
Trichloroethene	**2500**	**2190**	**ug/kg**	**88**	**SW846 8260B**
Toluene	**2500**	**2270**	**ug/kg**	**91**	**SW846 8260B**
Chlorobenzene	**2500**	**2310**	**ug/kg**	**92**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(60 - 140)
1,2-Dichloroethane-d4	104	(60 - 140)
Toluene-d8	106	(60 - 140)

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 Volatiles

Client Lot #...: E2H010352 **Work Order #...:** E5XCW1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2H050000-325
Prep Date.....: 08/02/02 **Analysis Date..:** 08/02/02
Prep Batch #...: 2217325 **Analysis Time..:** 16:12
Dilution Factor: 1 **Instrument ID..:** G13
Analyst ID.....: 001464

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	**93**	**(70 - 140)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	117	(60 - 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 Volatiles

Client Lot #...: E2H010352 **Work Order #...:** E5XCW1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2H050000-325
Prep Date.....: 08/02/02 **Analysis Date..:** 08/02/02
Prep Batch #...: 2217325 **Analysis Time..:** 16:12
Dilution Factor: 1 **Instrument ID..:** G13
Analyst ID.....: 001464

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Gasoline)	**5.00**	**4.63**	**mg/kg**	**93**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	117	(60 - 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 Semivolatiles

Client Lot #...: E2H010352 **Work Order #...:** E5TF11AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2H020000-273
Prep Date.....: 08/02/02 **Analysis Date..:** 08/05/02
Prep Batch #...: 2214273 **Analysis Time..:** 14:40
Dilution Factor: 1 **Instrument ID..:** G02
Analyst ID.....: 356074

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**81**	**(55 - 130)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	98	(60 - 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 Semivolatiles

Client Lot #...: E2H010352 **Work Order #...:** E5TF11AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2H020000-273
Prep Date.....: 08/02/02 **Analysis Date..:** 08/05/02
Prep Batch #...: 2214273 **Analysis Time..:** 14:40
Dilution Factor: 1 **Instrument ID..:** G02
Analyst ID.....: 356074

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Diesel)	**250**	**202**	**mg/kg**	**81**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	98	(60 - 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

TOTAL Metals

Client Lot #...: E2H010352 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E2H020000-218 **Prep Batch #...:** 2214218					
Aluminum	97	(70 - 115)	SW846 6010B	08/02-08/05/02	E5R4E1AV
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Arsenic	103	(75 - 115)	SW846 6010B	08/02-08/05/02	E5R4E1AW
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Antimony	101	(75 - 115)	SW846 6010B	08/02-08/05/02	E5R4E1AX
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Barium	100	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1A0
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Cadmium	99	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1A1
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Chromium	103	(85 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1A2
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Beryllium	109	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1A3
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Lead	103	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1A4
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Selenium	96	(70 - 115)	SW846 6010B	08/02-08/05/02	E5R4E1A5
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Silver	105	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1A6
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2H010352 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	101	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1A7
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Copper	103	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1A8
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Molybdenum	103	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1A9
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Nickel	98	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1CA
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Thallium	102	(75 - 125)	SW846 6010B	08/02-08/05/02	E5R4E1CC
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Vanadium	103	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1CD
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Zinc	106	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1CE
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			

LCS Lot-Sample#: E2H020000-226 **Prep Batch #...:** 2214226

Mercury	102	(85 - 115)	SW846 7471A	08/02/02	E5R4L1AC
		Dilution Factor: 1	Analysis Time..: 13:56	Analyst ID.....: 000023	
		Instrument ID..: M04			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2H010352 **Matrix.....:** SOLID

LCS Lot-Sample#: E2H020000-218 **Prep Batch #...:** 2214218

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum	200	195	mg/kg	97	SW846 6010B	08/02-08/05/02	E5R4E1AV
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Arsenic	200	206	mg/kg	103	SW846 6010B	08/02-08/05/02	E5R4E1AW
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Antimony	50.0	50.6	mg/kg	101	SW846 6010B	08/02-08/05/02	E5R4E1AX
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Barium	200	200	mg/kg	100	SW846 6010B	08/02-08/05/02	E5R4E1A0
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Cadmium	5.00	4.94	mg/kg	99	SW846 6010B	08/02-08/05/02	E5R4E1A1
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Chromium	20.0	20.5	mg/kg	103	SW846 6010B	08/02-08/05/02	E5R4E1A2
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Beryllium	5.00	5.44	mg/kg	109	SW846 6010B	08/02-08/05/02	E5R4E1A3
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Lead	50.0	51.3	mg/kg	103	SW846 6010B	08/02-08/05/02	E5R4E1A4
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Selenium	200	192	mg/kg	96	SW846 6010B	08/02-08/05/02	E5R4E1A5
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Silver	5.00	5.27	mg/kg	105	SW846 6010B	08/02-08/05/02	E5R4E1A6
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2H010352 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	50.0	50.7	mg/kg	101	SW846 6010B	08/02-08/05/02	E5R4E1A7
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Copper	25.0	25.7	mg/kg	103	SW846 6010B	08/02-08/05/02	E5R4E1A8
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Molybdenum	100	103	mg/kg	103	SW846 6010B	08/02-08/05/02	E5R4E1A9
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Nickel	50.0	49.2	mg/kg	98	SW846 6010B	08/02-08/05/02	E5R4E1CA
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Thallium	200	204	mg/kg	102	SW846 6010B	08/02-08/05/02	E5R4E1CC
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Vanadium	50.0	51.6	mg/kg	103	SW846 6010B	08/02-08/05/02	E5R4E1CD
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Zinc	50.0	52.9	mg/kg	106	SW846 6010B	08/02-08/05/02	E5R4E1CE
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				

LCS Lot-Sample#: E2H020000-226 **Prep Batch #...:** 2214226

Mercury	0.833	0.849	mg/kg	102	SW846 7471A	08/02/02	E5R4L1AC
			Dilution Factor: 1		Analysis Time..: 13:56	Analyst ID.....: 000023	
			Instrument ID..: M04				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E2H010352	**Work Order #...:**	E5RGN1AC-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E2H010352-007		E5RGN1AD-MSD		
Date Sampled...:	08/01/02 10:00	**Date Received..:**	08/01/02 16:20	**MS Run #.....:**	2220089
Prep Date.....:	08/07/02	**Analysis Date..:**	08/07/02		
Prep Batch #...:	2220252	**Analysis Time..:**	14:30		
Dilution Factor:	1	**Analyst ID.....:**	999998	**Instrument ID..:**	MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**84**	**(65 - 150)**			**SW846 8260B**
	83	**(65 - 150)**	**1.7**	**(0-30)**	**SW846 8260B**
Benzene	**92**	**(70 - 130)**			**SW846 8260B**
	90	**(70 - 130)**	**2.9**	**(0-30)**	**SW846 8260B**
Trichloroethene	**84**	**(70 - 135)**			**SW846 8260B**
	86	**(70 - 135)**	**2.4**	**(0-30)**	**SW846 8260B**
Toluene	**87**	**(70 - 130)**			**SW846 8260B**
	90	**(70 - 130)**	**3.6**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**89**	**(70 - 130)**			**SW846 8260B**
	90	**(70 - 130)**	**0.98**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(65 - 135)
	96	(65 - 135)
1,2-Dichloroethane-d4	68	(60 - 140)
	69	(60 - 140)
Toluene-d8	73	(70 - 130)
	74	(70 - 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 #...: E2H010352 **Work Order #...:** E5RGN1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: E2H010352-007 E5RGN1AD-MSD
Date Sampled...: 08/01/02 10:00 **Date Received..:** 08/01/02 16:20 **MS Run #.....:** 2220089
Prep Date.....: 08/07/02 **Analysis Date..:** 08/07/02
Prep Batch #...: 2220252 **Analysis Time..:** 14:30
Dilution Factor: 1 **Analyst ID.....:** 999998 **Instrument ID..:** MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**ND**	**50.0**	**42.0**	**ug/kg**	**84**		**SW846 8260B**
	ND	**50.0**	**41.3**	**ug/kg**	**83**	**1.7**	**SW846 8260B**
Benzene	**ND**	**50.0**	**46.2**	**ug/kg**	**92**		**SW846 8260B**
	ND	**50.0**	**44.9**	**ug/kg**	**90**	**2.9**	**SW846 8260B**
Trichloroethene	**ND**	**50.0**	**41.8**	**ug/kg**	**84**		**SW846 8260B**
	ND	**50.0**	**42.9**	**ug/kg**	**86**	**2.4**	**SW846 8260B**
Toluene	**ND**	**50.0**	**43.4**	**ug/kg**	**87**		**SW846 8260B**
	ND	**50.0**	**45.1**	**ug/kg**	**90**	**3.6**	**SW846 8260B**
Chlorobenzene	**ND**	**50.0**	**44.3**	**ug/kg**	**89**		**SW846 8260B**
	ND	**50.0**	**44.8**	**ug/kg**	**90**	**0.98**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(65 - 135)
	96	(65 - 135)
1,2-Dichloroethane-d4	68	(60 - 140)
	69	(60 - 140)
Toluene-d8	73	(70 - 130)
	74	(70 - 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 #...:	E2H010352	**Work Order #...:**	E5RFP1AC-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E2H010352-001		E5RFP1AD-MSD		
Date Sampled...:	08/01/02 09:00	**Date Received..:**	08/01/02 16:20	**MS Run #.....:**	2220107
Prep Date.....:	08/02/02	**Analysis Date..:**	08/02/02		
Prep Batch #...:	2220270	**Analysis Time..:**	20:32		
Dilution Factor:	1	**Analyst ID.....:**	999998	**Instrument ID..:**	MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**97**	**(65 - 150)**			**SW846 8260B**
	94	**(65 - 150)**	**3.6**	**(0-30)**	**SW846 8260B**
Benzene	**99**	**(70 - 130)**			**SW846 8260B**
	99	**(70 - 130)**	**0.14**	**(0-30)**	**SW846 8260B**
Trichloroethene	**98**	**(70 - 135)**			**SW846 8260B**
	102	**(70 - 135)**	**3.9**	**(0-30)**	**SW846 8260B**
Toluene	**93**	**(70 - 130)**			**SW846 8260B**
	95	**(70 - 130)**	**2.2**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**93**	**(70 - 130)**			**SW846 8260B**
	94	**(70 - 130)**	**0.47**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(65 - 135)
	95	(65 - 135)
1,2-Dichloroethane-d4	96	(60 - 140)
	97	(60 - 140)
Toluene-d8	98	(70 - 130)
	100	(70 - 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 #...: E2H010352 **Work Order #...:** E5RFP1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: E2H010352-001 E5RFP1AD-MSD
Date Sampled...: 08/01/02 09:00 **Date Received..:** 08/01/02 16:20 **MS Run #.....:** 2220107
Prep Date.....: 08/02/02 **Analysis Date..:** 08/02/02
Prep Batch #...: 2220270 **Analysis Time..:** 20:32
Dilution Factor: 1 **Analyst ID.....:** 999998 **Instrument ID..:** MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**ND**	**50.0**	**48.5**	**ug/kg**	**97**		**SW846 8260B**
	ND	**50.0**	**46.8**	**ug/kg**	**94**	**3.6**	**SW846 8260B**
Benzene	**ND**	**50.0**	**49.7**	**ug/kg**	**99**		**SW846 8260B**
	ND	**50.0**	**49.6**	**ug/kg**	**99**	**0.14**	**SW846 8260B**
Trichloroethene	**ND**	**50.0**	**49.1**	**ug/kg**	**98**		**SW846 8260B**
	ND	**50.0**	**51.0**	**ug/kg**	**102**	**3.9**	**SW846 8260B**
Toluene	**ND**	**50.0**	**46.5**	**ug/kg**	**93**		**SW846 8260B**
	ND	**50.0**	**47.6**	**ug/kg**	**95**	**2.2**	**SW846 8260B**
Chlorobenzene	**ND**	**50.0**	**46.6**	**ug/kg**	**93**		**SW846 8260B**
	ND	**50.0**	**46.8**	**ug/kg**	**94**	**0.47**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(65 - 135)
	95	(65 - 135)
1,2-Dichloroethane-d4	96	(60 - 140)
	97	(60 - 140)
Toluene-d8	98	(70 - 130)
	100	(70 - 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 #...:	E2H010352	**Work Order #...:**	E5VVV1AL-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E2H020314-001		E5VVV1AM-MSD		
Date Sampled...:	07/30/02 10:25	**Date Received..:**	08/02/02 16:15	**MS Run #.....:**	2218096
Prep Date.....:	08/05/02	**Analysis Date..:**	08/05/02		
Prep Batch #...:	2218248	**Analysis Time..:**	22:53		
Dilution Factor:	1	**Analyst ID.....:**	999998	**Instrument ID..:**	MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**92**	**(65 - 150)**			**SW846 8260B**
	97	**(65 - 150)**	**5.1**	**(0-30)**	**SW846 8260B**
Benzene	**91**	**(70 - 130)**			**SW846 8260B**
	95	**(70 - 130)**	**4.4**	**(0-30)**	**SW846 8260B**
Trichloroethene	**142 a,MSC**	**(70 - 135)**			**SW846 8260B**
	146 a,MSC	**(70 - 135)**	**2.5**	**(0-30)**	**SW846 8260B**
Toluene	**87**	**(70 - 130)**			**SW846 8260B**
	86	**(70 - 130)**	**1.7**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**89**	**(70 - 130)**			**SW846 8260B**
	87	**(70 - 130)**	**1.6**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(65 - 135)
	95	(65 - 135)
1,2-Dichloroethane-d4	110	(60 - 140)
	117	(60 - 140)
Toluene-d8	92	(70 - 130)
	97	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 **Work Order #...:** E5VVV1AL-MS **Matrix.....:** SOLID
MS Lot-Sample #: E2H020314-001 E5VVV1AM-MSD
Date Sampled...: 07/30/02 10:25 **Date Received..:** 08/02/02 16:15 **MS Run #.....:** 2218096
Prep Date.....: 08/05/02 **Analysis Date..:** 08/05/02
Prep Batch #...: 2218248 **Analysis Time..:** 22:53
Dilution Factor: 1 **Analyst ID.....:** 999998 **Instrument ID..:** MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**ND**	**56.6**	**52.2**	**ug/kg**	**92**		**SW846 8260B**
	ND	**56.6**	**55.0**	**ug/kg**	**97**	**5.1**	**SW846 8260B**
Benzene	**ND**	**56.6**	**51.6**	**ug/kg**	**91**		**SW846 8260B**
	ND	**56.6**	**53.9**	**ug/kg**	**95**	**4.4**	**SW846 8260B**
Trichloroethene	**ND**	**56.6**	**80.4**	**ug/kg**	**142**		**SW846 8260B**
	Qualifiers:		a,MSC				
	ND	**56.6**	**82.4**	**ug/kg**	**146**	**2.5**	**SW846 8260B**
	Qualifiers:		a,MSC				
Toluene	**ND**	**56.6**	**49.5**	**ug/kg**	**87**		**SW846 8260B**
	ND	**56.6**	**48.7**	**ug/kg**	**86**	**1.7**	**SW846 8260B**
Chlorobenzene	**ND**	**56.6**	**50.3**	**ug/kg**	**89**		**SW846 8260B**
	ND	**56.6**	**49.5**	**ug/kg**	**87**	**1.6**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(65 - 135)
	95	(65 - 135)
1,2-Dichloroethane-d4	110	(60 - 140)
	117	(60 - 140)
Toluene-d8	92	(70 - 130)
	97	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 **Work Order #...:** E5VV61AJ-MS **Matrix.....:** SOLID
MS Lot-Sample #: E2H020314-006 E5VV61AK-MSD
Date Sampled...: 08/01/02 11:10 **Date Received..:** 08/02/02 16:15 **MS Run #.....:** 2225151
Prep Date.....: 08/06/02 **Analysis Date..:** 08/08/02
Prep Batch #...: 2225371 **Analysis Time..:** 01:57
Dilution Factor: 5 **Analyst ID.....:** 999998 **Instrument ID..:** MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**85**	**(60 - 145)**			**SW846 8260B**
	81	**(60 - 145)**	**5.7**	**(0-35)**	**SW846 8260B**
Benzene	**97**	**(60 - 135)**			**SW846 8260B**
	96	**(60 - 135)**	**0.10**	**(0-35)**	**SW846 8260B**
Trichloroethene	**90**	**(60 - 140)**			**SW846 8260B**
	83	**(60 - 140)**	**7.9**	**(0-35)**	**SW846 8260B**
Toluene	**0.0**	**(60 - 125)**			**SW846 8260B**
	Qualifiers: NC,MSB,MSC				
	0.0	**(60 - 125)**	**0.0**	**(0-35)**	**SW846 8260B**
	Qualifiers: NC,MSB,MSC				
Chlorobenzene	**123**	**(60 - 125)**			**SW846 8260B**
	115	**(60 - 125)**	**6.8**	**(0-35)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	153 *	(60 - 140)
	150 *	(60 - 140)
1,2-Dichloroethane-d4	230 *	(60 - 140)
	179 *	(60 - 140)
Toluene-d8	179 *	(60 - 140)
	179 *	(60 - 140)

NOTE(S):

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

Bold print denotes control parameters

The surrogate recovery in the sample is outside control limits due to confirmed matrix effect.

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

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.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 **Work Order #...:** E5VV61AJ-MS **Matrix.....:** SOLID
MS Lot-Sample #: E2H020314-006 E5VV61AK-MSD
Date Sampled...: 08/01/02 11:10 **Date Received..:** 08/02/02 16:15 **MS Run #.....:** 2225151
Prep Date.....: 08/06/02 **Analysis Date..:** 08/08/02
Prep Batch #...: 2225371 **Analysis Time..:** 01:57
Dilution Factor: 5 **Analyst ID.....:** 999998 **Instrument ID..:** MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**ND**	**2740**	**2340**	**ug/kg**	**85**		**SW846 8260B**
	ND	**2740**	**2210**	**ug/kg**	**81**	**5.7**	**SW846 8260B**
Benzene	**3500**	**2740**	**6190**	**ug/kg**	**97**		**SW846 8260B**
	3500	**2740**	**6180**	**ug/kg**	**96**	**0.10**	**SW846 8260B**
Trichloroethene	**ND**	**2740**	**2470**	**ug/kg**	**90**		**SW846 8260B**
	ND	**2740**	**2280**	**ug/kg**	**83**	**7.9**	**SW846 8260B**
Toluene	**24000**	**2740**		**ug/kg**	**0.0**		**SW846 8260B**
	Qualifiers: NC,MSB,MSC						
	24000	**2740**		**ug/kg**	**0.0**	**0.0**	**SW846 8260B**
	Qualifiers: NC,MSB,MSC						
Chlorobenzene	**ND**	**2740**	**3370**	**ug/kg**	**123**		**SW846 8260B**
	ND	**2740**	**3150**	**ug/kg**	**115**	**6.8**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	153 *	(60 - 140)
	150 *	(60 - 140)
1,2-Dichloroethane-d4	230 *	(60 - 140)
	179 *	(60 - 140)
Toluene-d8	179 *	(60 - 140)
	179 *	(60 - 140)

NOTE(S):

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

Bold print denotes control parameters

The surrogate recovery in the sample is outside control limits due to confirmed matrix effect.

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

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.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...:	E2H010352	**Work Order #...:**	E5RHJ1A1-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E2H010352-017		E5RHJ1A2-MSD		
Date Sampled...:	08/01/02 13:00	**Date Received..:**	08/01/02 16:20	**MS Run #.....:**	2217161
Prep Date.....:	08/02/02	**Analysis Date..:**	08/02/02		
Prep Batch #...:	2217325	**Analysis Time..:**	17:36		
Dilution Factor:	1	**Analyst ID.....:**	001464	**Instrument ID..:**	G13

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	**90**	**(70 - 140)**			**SW846 8015B**
	85	**(70 - 140)**	**6.4**	**(0-40)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	118	(60 - 130)
	116	(60 - 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 Volatiles

Client Lot #...: E2H010352 **Work Order #...:** E5RHJ1A1-MS **Matrix.....:** SOLID
MS Lot-Sample #: E2H010352-017 E5RHJ1A2-MSD
Date Sampled...: 08/01/02 13:00 **Date Received..:** 08/01/02 16:20 **MS Run #.....:** 2217161
Prep Date.....: 08/02/02 **Analysis Date..:** 08/02/02
Prep Batch #...: 2217325 **Analysis Time..:** 17:36
Dilution Factor: 1 **Analyst ID.....:** 001464 **Instrument ID..:** G13

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
TPH (as Gasoline)	**ND**	**5.00**	**4.51**	**mg/kg**	**90**		**SW846 8015B**
	ND	**5.00**	**4.23**	**mg/kg**	**85**	**6.4**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	118	(60 - 130)
	116	(60 - 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 Semivolatiles

Client Lot #...:	E2H010352	**Work Order #...:**	E5Q5P1AF-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E2H010311-001		E5Q5P1AG-MSD		
Date Sampled...:	08/01/02	**Date Received..:**	08/01/02 12:00	**MS Run #.....:**	2214105
Prep Date.....:	08/02/02	**Analysis Date..:**	08/05/02		
Prep Batch #...:	2214273	**Analysis Time..:**	15:57		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**76**	**(55 - 130)**			**SW846 8015B**
	74	**(55 - 130)**	**2.0**	**(0-35)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	88	(60 - 130)
	90	(60 - 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 Semivolatiles

Client Lot #...:	E2H010352	**Work Order #...:**	E5Q5P1AF-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E2H010311-001		E5Q5P1AG-MSD		
Date Sampled...:	08/01/02	**Date Received..:**	08/01/02 12:00	**MS Run #.....:**	2214105
Prep Date.....:	08/02/02	**Analysis Date..:**	08/05/02		
Prep Batch #...:	2214273	**Analysis Time..:**	15:57		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
TPH (as Diesel)	**22**	**250**	**211**	**mg/kg**	**76**		**SW846 8015B**
	22	**250**	**207**	**mg/kg**	**74**	**2.0**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	88	(60 - 130)
	90	(60 - 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

TOTAL Metals

Client Lot #...: E2H010352 **Matrix.....:** SOLID
Date Sampled...: 08/01/02 13:00 **Date Received..:** 08/01/02 16:20

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E2H010352-016 **Prep Batch #...:** 2214218							
Aluminum	NC	(70 - 115)			SW846 6010B	08/02-08/05/02	E5RHE1A1
	NC	(70 - 115)		(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1A2
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Arsenic	96	(75 - 115)			SW846 6010B	08/02-08/05/02	E5RHE1A3
	99	(75 - 115)	2.9	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1A4
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Antimony	21 N	(75 - 115)			SW846 6010B	08/02-08/05/02	E5RHE1A5
	22 N	(75 - 115)	6.3	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1A6
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Barium	83	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1A7
	100	(80 - 120)	11	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1A8
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Cadmium	74 N	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1A9
	78 N	(80 - 120)	4.6	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CA
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Chromium	92	(85 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1CC
	108	(85 - 120)	6.7	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CD
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Beryllium	99	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1CE
	104	(80 - 120)	4.6	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CF
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2H010352 **Matrix.....:** SOLID
Date Sampled...: 08/01/02 13:00 **Date Received..:** 08/01/02 16:20

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	92	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1CG
	97	(80 - 120)	4.4	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CH
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Selenium	91	(70 - 115)			SW846 6010B	08/02-08/05/02	E5RHE1CJ
	94	(70 - 115)	3.4	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CK
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Silver	94	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1CL
	99	(80 - 120)	4.6	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CM
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Cobalt	91	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1CN
	97	(80 - 120)	5.4	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CP
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Copper	91	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1CQ
	110	(80 - 120)	8.9	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CR
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Molybdenum	89	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1CT
	93	(80 - 120)	4.2	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CU
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Nickel	87	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1CV
	94	(80 - 120)	5.8	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CW
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2H010352 **Matrix.....:** SOLID
Date Sampled...: 08/01/02 13:00 **Date Received..:** 08/01/02 16:20

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	94	(75 - 125)			SW846 6010B	08/02-08/05/02	E5RHE1CX
	98	(75 - 125)	4.2	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1C0

Dilution Factor: 1
Analysis Time..: 14:04 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 2214071

Vanadium	90	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1C1
	109	(80 - 120)	9.8	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1C2

Dilution Factor: 1
Analysis Time..: 14:04 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 2214071

Zinc	86	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1C3
	106	(80 - 120)	8.8	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1C4

Dilution Factor: 1
Analysis Time..: 14:04 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 2214071

MS Lot-Sample #: E2H010352-016 **Prep Batch #...:** 2214226

Mercury	122 N	(80 - 120)			SW846 7471A	08/02/02	E5RHE1C5
	129 N	(80 - 120)	5.1	(0-20)	SW846 7471A	08/02/02	E5RHE1C6

Dilution Factor: 1
Analysis Time..: 14:01 Instrument ID..: M04 Analyst ID.....: 000023
MS Run #.....: 2214073

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2H010352 **Matrix.....:** SOLID
Date Sampled...: 08/01/02 13:00 **Date Received..:** 08/01/02 16:20

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E2H010352-016 **Prep Batch #...:** 2214218									
Aluminum									
	20600	200	19700	mg/kg			SW846 6010B	08/02-08/05/02	E5RHE1A1
			Qualifiers: NC						
	20600	200	23200	mg/kg			SW846 6010B	08/02-08/05/02	E5RHE1A2
			Qualifiers: NC						
			Dilution Factor: 1						
			Analysis Time..: 14:04	Instrument ID..: M01				Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Arsenic									
	6.0	200	199	mg/kg	96		SW846 6010B	08/02-08/05/02	E5RHE1A3
	6.0	200	204	mg/kg	99	2.9	SW846 6010B	08/02-08/05/02	E5RHE1A4
			Dilution Factor: 1						
			Analysis Time..: 14:04	Instrument ID..: M01				Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Antimony									
	ND	50.0	10.4 N	mg/kg	21		SW846 6010B	08/02-08/05/02	E5RHE1A5
	ND	50.0	11.1 N	mg/kg	22	6.3	SW846 6010B	08/02-08/05/02	E5RHE1A6
			Dilution Factor: 1						
			Analysis Time..: 14:04	Instrument ID..: M01				Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Barium									
	125	200	290	mg/kg	83		SW846 6010B	08/02-08/05/02	E5RHE1A7
	125	200	326	mg/kg	100	11	SW846 6010B	08/02-08/05/02	E5RHE1A8
			Dilution Factor: 1						
			Analysis Time..: 14:04	Instrument ID..: M01				Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Cadmium									
	ND	5.00	3.70 N	mg/kg	74		SW846 6010B	08/02-08/05/02	E5RHE1A9
	ND	5.00	3.88 N	mg/kg	78	4.6	SW846 6010B	08/02-08/05/02	E5RHE1CA
			Dilution Factor: 1						
			Analysis Time..: 14:04	Instrument ID..: M01				Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Chromium									
	28.0	20.0	46.4	mg/kg	92		SW846 6010B	08/02-08/05/02	E5RHE1CC
	28.0	20.0	49.6	mg/kg	108	6.7	SW846 6010B	08/02-08/05/02	E5RHE1CD
			Dilution Factor: 1						
			Analysis Time..: 14:04	Instrument ID..: M01				Analyst ID.....: 021088	
			MS Run #.....: 2214071						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2H010352 **Matrix.....:** SOLID
Date Sampled...: 08/01/02 13:00 **Date Received..:** 08/01/02 16:20

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium									
	0.61	5.00	5.56	mg/kg	99		SW846 6010B	08/02-08/05/02	E5RHE1CE
	0.61	5.00	5.82	mg/kg	104	4.6	SW846 6010B	08/02-08/05/02	E5RHE1CF
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Lead									
	5.7	50.0	51.8	mg/kg	92		SW846 6010B	08/02-08/05/02	E5RHE1CG
	5.7	50.0	54.1	mg/kg	97	4.4	SW846 6010B	08/02-08/05/02	E5RHE1CH
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Selenium									
	0.56	200	182	mg/kg	91		SW846 6010B	08/02-08/05/02	E5RHE1CJ
	0.56	200	188	mg/kg	94	3.4	SW846 6010B	08/02-08/05/02	E5RHE1CK
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Silver									
	ND	5.00	4.71	mg/kg	94		SW846 6010B	08/02-08/05/02	E5RHE1CL
	ND	5.00	4.93	mg/kg	99	4.6	SW846 6010B	08/02-08/05/02	E5RHE1CM
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Cobalt									
	10.2	50.0	55.5	mg/kg	91		SW846 6010B	08/02-08/05/02	E5RHE1CN
	10.2	50.0	58.5	mg/kg	97	5.4	SW846 6010B	08/02-08/05/02	E5RHE1CP
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Copper									
	26.3	25.0	49.1	mg/kg	91		SW846 6010B	08/02-08/05/02	E5RHE1CQ
	26.3	25.0	53.7	mg/kg	110	8.9	SW846 6010B	08/02-08/05/02	E5RHE1CR
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2H010352 **Matrix.....:** SOLID
Date Sampled...: 08/01/02 13:00 **Date Received..:** 08/01/02 16:20

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum									
	1.1	100	90.0	mg/kg	89		SW846 6010B	08/02-08/05/02	E5RHE1CT
	1.1	100	93.8	mg/kg	93	4.2	SW846 6010B	08/02-08/05/02	E5RHE1CU
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Nickel									
	18.3	50.0	61.6	mg/kg	87		SW846 6010B	08/02-08/05/02	E5RHE1CV
	18.3	50.0	65.2	mg/kg	94	5.8	SW846 6010B	08/02-08/05/02	E5RHE1CW
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Thallium									
	ND	200	189	mg/kg	94		SW846 6010B	08/02-08/05/02	E5RHE1CX
	ND	200	197	mg/kg	98	4.2	SW846 6010B	08/02-08/05/02	E5RHE1C0
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Vanadium									
	51.2	50.0	95.9	mg/kg	90		SW846 6010B	08/02-08/05/02	E5RHE1C1
	51.2	50.0	106	mg/kg	109	9.8	SW846 6010B	08/02-08/05/02	E5RHE1C2
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Zinc									
	66.5	50.0	110	mg/kg	86		SW846 6010B	08/02-08/05/02	E5RHE1C3
	66.5	50.0	120	mg/kg	106	8.8	SW846 6010B	08/02-08/05/02	E5RHE1C4
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						

MS Lot-Sample #: E2H010352-016 **Prep Batch #...:** 2214226

Mercury									
	0.020	0.167	0.223 N	mg/kg	122		SW846 7471A	08/02/02	E5RHE1C5
	0.020	0.167	0.235 N	mg/kg	129	5.1	SW846 7471A	08/02/02	E5RHE1C6
			Dilution Factor: 1						
			Analysis Time..: 14:01		Instrument ID..: M04			Analyst ID.....: 000023	
			MS Run #.....: 2214073						

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

ANALYTICAL REPORT

Boeing BR C-6 Torrance HalAld

Lot #: E2I240147

Scott Zachary

Haley & Aldrich Inc

SEVERN TRENT LABORATORIES, INC.

Diane Suzuki
Project Manager

September 30, 2002

EXECUTIVE SUMMARY - Detection Highlights

E2I240147

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB1002_SS50_0001 09/23/02 15:30 004				
Chloroform	1.9 J	5.0	ug/kg	SW846 8260B
Trichloroethene	110	5.0	ug/kg	SW846 8260B
Tetrachloroethene	2.4 J	5.0	ug/kg	SW846 8260B
SB1003_SS50_0001 09/23/02 15:00 008				
Trichloroethene	27	5.0	ug/kg	SW846 8260B

METHODS SUMMARY

E2I240147

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

References:

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

SAMPLE SUMMARY

E2I240147

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E8QAG	001	2_VEW_21_SS50_0001	09/23/02	10:30
E8QAT	002	SB1002_SS25_0001	09/23/02	15:00
E8QAW	003	SB1002_SS40_0001	09/23/02	15:15
E8QA0	004	SB1002_SS50_0001	09/23/02	15:30
E8QA2	005	SB1003_SS25_0001	09/23/02	14:45
E8QA3	006	SB1003_SS30_0001	09/23/02	14:50
E8QA4	007	SB1003_SS40_0001	09/23/02	14:55
E8QA6	008	SB1003_SS50_0001	09/23/02	15:00
E8QA7	009	SB1004_SS30_0001	09/23/02	13:15
E8QA8	010	SB1004_SS40_0001	09/23/02	13:20
E8QA9	011	SB1004_SS50_0001	09/23/02	13:25

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.

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_21_SS50_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-001 **Work Order #...:** E8QAG1AA **Matrix.....:** SO
Date Sampled...: 09/23/02 10:30 **Date Received..:** 09/23/02 19:45 **MS Run #.....:** 2270268
Prep Date.....: 09/26/02 **Analysis Date..:** 09/26/02
Prep Batch #...: 2270530 **Analysis Time..:** 18:36
Dilution Factor: 1
Analyst ID.....: 064667 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_21_SS50_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-001 **Work Order #...:** E8QAG1AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	111	(65 - 135)
1,2-Dichloroethane-d4	92	(60 - 140)
Toluene-d8	106	(70 - 130)

HALEY & ALDRICH INC

2_VEW_21_SS50_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-001 **Work Order #:** E8QAG1AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1002_SS25_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-002 **Work Order #...:** E8QAT1AA **Matrix.....:** SO
Date Sampled...: 09/23/02 15:00 **Date Received..:** 09/23/02 19:45 **MS Run #.....:** 2270268
Prep Date.....: 09/26/02 **Analysis Date..:** 09/26/02
Prep Batch #...: 2270530 **Analysis Time..:** 19:06
Dilution Factor: 1
Analyst ID.....: 064667 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1002_SS25_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-002 **Work Order #...:** E8QAT1AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	111	(65 - 135)
1,2-Dichloroethane-d4	90	(60 - 140)
Toluene-d8	109	(70 - 130)

HALEY & ALDRICH INC

SB1002_SS25_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-002 **Work Order #:** E8QAT1AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1002_SS40_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-003 **Work Order #...:** E8QAW1AA **Matrix.....:** SO
Date Sampled...: 09/23/02 15:15 **Date Received..:** 09/23/02 19:45 **MS Run #.....:** 2270268
Prep Date.....: 09/26/02 **Analysis Date..:** 09/26/02
Prep Batch #...: 2270530 **Analysis Time..:** 19:37
Dilution Factor: 1
Analyst ID.....: 064667 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1002_SS40_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-003 **Work Order #...:** E8QAW1AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(65 - 135)
1,2-Dichloroethane-d4	89	(60 - 140)
Toluene-d8	101	(70 - 130)

HALEY & ALDRICH INC

SB1002_SS40_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-003 **Work Order #:** E8QAW1AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1002_SS50_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-004 **Work Order #...:** E8QA01AA **Matrix.....:** SO
Date Sampled...: 09/23/02 15:30 **Date Received..:** 09/23/02 19:45 **MS Run #.....:** 2271035
Prep Date.....: 09/27/02 **Analysis Date..:** 09/27/02
Prep Batch #...: 2271149 **Analysis Time..:** 16:14
Dilution Factor: 1
Analyst ID.....: 064667 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	**1.9 J**	**5.0**	**ug/kg**	**1.0**
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	**110**	**5.0**	**ug/kg**	**2.0**
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1002_SS50_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-004 **Work Order #...:** E8QA01AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	**2.4 J**	**5.0**	**ug/kg**	**2.0**
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	114	(65 - 135)
1,2-Dichloroethane-d4	81	(60 - 140)
Toluene-d8	110	(70 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

SB1002_SS50_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-004 **Work Order #:** E8QA01AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1003_SS25_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-005 **Work Order #...:** E8QA21AA **Matrix.....:** SO
Date Sampled...: 09/23/02 14:45 **Date Received..:** 09/23/02 19:45 **MS Run #.....:** 2270268
Prep Date.....: 09/26/02 **Analysis Date..:** 09/26/02
Prep Batch #...: 2270530 **Analysis Time..:** 20:38
Dilution Factor: 1
Analyst ID.....: 064667 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1003_SS25_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-005 **Work Order #...:** E8QA21AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	109	(65 - 135)
1,2-Dichloroethane-d4	88	(60 - 140)
Toluene-d8	106	(70 - 130)

HALEY & ALDRICH INC

SB1003_SS25_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-005 **Work Order #:** E8QA21AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1003_SS30_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-006 **Work Order #...:** E8QA31AA **Matrix.....:** SO
Date Sampled...: 09/23/02 14:50 **Date Received..:** 09/23/02 19:45 **MS Run #.....:** 2270268
Prep Date.....: 09/26/02 **Analysis Date..:** 09/26/02
Prep Batch #...: 2270530 **Analysis Time..:** 21:08
Dilution Factor: 1
Analyst ID.....: 064667 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1003_SS30_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-006 **Work Order #...:** E8QA31AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(65 - 135)
1,2-Dichloroethane-d4	81	(60 - 140)
Toluene-d8	100	(70 - 130)

HALEY & ALDRICH INC

SB1003_SS30_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-006 **Work Order #:** E8QA31AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1003_SS40_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-007 **Work Order #...:** E8QA41AA **Matrix.....:** SO
Date Sampled...: 09/23/02 14:55 **Date Received..:** 09/23/02 19:45 **MS Run #.....:** 2270268
Prep Date.....: 09/26/02 **Analysis Date..:** 09/26/02
Prep Batch #...: 2270530 **Analysis Time..:** 21:39
Dilution Factor: 1
Analyst ID.....: 064667 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1003_SS40_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-007 **Work Order #...:** E8QA41AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(65 - 135)
1,2-Dichloroethane-d4	90	(60 - 140)
Toluene-d8	107	(70 - 130)

HALEY & ALDRICH INC

SB1003_SS40_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-007 **Work Order #:** E8QA41AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1003_SS50_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-008 **Work Order #...:** E8QA61AA **Matrix.....:** SO
Date Sampled...: 09/23/02 15:00 **Date Received..:** 09/23/02 19:45 **MS Run #.....:** 2270268
Prep Date.....: 09/26/02 **Analysis Date..:** 09/26/02
Prep Batch #...: 2270530 **Analysis Time..:** 22:09
Dilution Factor: 1
Analyst ID.....: 064667 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	**27**	**5.0**	**ug/kg**	**2.0**
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1003_SS50_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-008 **Work Order #...:** E8QA61AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	110	(65 - 135)
1,2-Dichloroethane-d4	90	(60 - 140)
Toluene-d8	110	(70 - 130)

HALEY & ALDRICH INC

SB1003_SS50_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-008 **Work Order #:** E8QA61AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1004_SS30_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-009 **Work Order #...:** E8QA71AA **Matrix.....:** SO
Date Sampled...: 09/23/02 13:15 **Date Received..:** 09/23/02 19:45 **MS Run #.....:** 2270268
Prep Date.....: 09/26/02 **Analysis Date..:** 09/26/02
Prep Batch #...: 2270530 **Analysis Time..:** 22:39
Dilution Factor: 1
Analyst ID.....: 064667 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1004_SS30_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-009 **Work Order #...:** E8QA71AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(65 - 135)
1,2-Dichloroethane-d4	85	(60 - 140)
Toluene-d8	97	(70 - 130)

HALEY & ALDRICH INC

SB1004_SS30_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-009 **Work Order #:** E8QA71AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1004_SS40_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-010 **Work Order #...:** E8QA81AA **Matrix.....:** SO
Date Sampled...: 09/23/02 13:20 **Date Received..:** 09/23/02 19:45 **MS Run #.....:** 2270268
Prep Date.....: 09/26/02 **Analysis Date..:** 09/26/02
Prep Batch #...: 2270530 **Analysis Time..:** 23:10
Dilution Factor: 1
Analyst ID.....: 064667 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1004_SS40_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-010 **Work Order #...:** E8QA81AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	108	(65 - 135)
1,2-Dichloroethane-d4	92	(60 - 140)
Toluene-d8	106	(70 - 130)

HALEY & ALDRICH INC

SB1004_SS40_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-010 **Work Order #:** E8QA81AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1004_SS50_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-011 **Work Order #...:** E8QA91AA **Matrix.....:** SO
Date Sampled...: 09/23/02 13:25 **Date Received..:** 09/23/02 19:45 **MS Run #.....:** 2271035
Prep Date.....: 09/27/02 **Analysis Date..:** 09/27/02
Prep Batch #...: 2271149 **Analysis Time..:** 16:49
Dilution Factor: 1
Analyst ID.....: 064667 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1004_SS50_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-011 **Work Order #...:** E8QA91AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	109	(65 - 135)
1,2-Dichloroethane-d4	83	(60 - 140)
Toluene-d8	105	(70 - 130)

HALEY & ALDRICH INC

SB1004_SS50_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-011 **Work Order #:** E8QA91AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

QC DATA ASSOCIATION SUMMARY

E2I240147

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SO	SW846 8260B		2270530	2270268
002	SO	SW846 8260B		2270530	2270268
003	SO	SW846 8260B		2270530	2270268
004	SO	SW846 8260B		2271149	2271035
005	SO	SW846 8260B		2270530	2270268
006	SO	SW846 8260B		2270530	2270268
007	SO	SW846 8260B		2270530	2270268
008	SO	SW846 8260B		2270530	2270268
009	SO	SW846 8260B		2270530	2270268
010	SO	SW846 8260B		2270530	2270268
011	SO	SW846 8260B		2271149	2271035

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2I240147 **Work Order #...:** E829W1AA **Matrix.....:** SOLID
MB Lot-Sample #: E2I270000-530

Prep Date.....: 09/26/02 **Analysis Time..:** 13:06
Analysis Date..: 09/26/02 **Prep Batch #...:** 2270530 **Instrument ID..:** MSD
Dilution Factor: 1

Analyst ID.....: 064667

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	100	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2I240147 **Work Order #...:** E829W1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
t-Butanol	ND	100	ug/kg	SW846 8260B
Isopropyl ether	ND	10	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	10	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(65 - 135)
1,2-Dichloroethane-d4	75	(60 - 140)
Toluene-d8	91	(70 - 130)

NOTE(S):

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

HALEY & ALDRICH INC

Method Blank Report

GC/MS Volatiles

Lot-Sample #: E2I270000-530 B **Work Order #:** E829W1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2I240147 **Work Order #...:** E83581AA **Matrix.....:** SOLID
MB Lot-Sample #: E2I280000-149

Prep Date.....: 09/27/02 **Analysis Time..:** 14:41
Analysis Date..: 09/27/02 **Prep Batch #...:** 2271149 **Instrument ID..:** MSD
Dilution Factor: 1

Analyst ID.....: 064667

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	100	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2I240147 **Work Order #...:** E83581AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
t-Butanol	ND	100	ug/kg	SW846 8260B
Isopropyl ether	ND	10	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	10	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	115	(65 - 135)
1,2-Dichloroethane-d4	84	(60 - 140)
Toluene-d8	108	(70 - 130)

NOTE(S):

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

HALEY & ALDRICH INC

Method Blank Report

GC/MS Volatiles

Lot-Sample #: E2I280000-149 B **Work Order #:** E83581AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2I240147 **Work Order #...:** E829W1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2I270000-530
Prep Date.....: 09/26/02 **Analysis Date..:** 09/26/02
Prep Batch #...: 2270530 **Analysis Time..:** 13:36
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 064667

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**100**	**(65 - 150)**	**SW846 8260B**
Benzene	**95**	**(70 - 130)**	**SW846 8260B**
Trichloroethene	**90**	**(70 - 135)**	**SW846 8260B**
Toluene	**111**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**108**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	111	(65 - 135)
1,2-Dichloroethane-d4	91	(60 - 140)
Toluene-d8	110	(70 - 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 #...: E2I240147 **Work Order #...:** E829W1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2I270000-530
Prep Date.....: 09/26/02 **Analysis Date..:** 09/26/02
Prep Batch #...: 2270530 **Analysis Time..:** 13:36
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 064667

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**49.8**	**ug/kg**	**100**	**SW846 8260B**
Benzene	**50.0**	**47.6**	**ug/kg**	**95**	**SW846 8260B**
Trichloroethene	**50.0**	**44.9**	**ug/kg**	**90**	**SW846 8260B**
Toluene	**50.0**	**55.3**	**ug/kg**	**111**	**SW846 8260B**
Chlorobenzene	**50.0**	**54.0**	**ug/kg**	**108**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	111	(65 - 135)
1,2-Dichloroethane-d4	91	(60 - 140)
Toluene-d8	110	(70 - 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 #...: E2I240147 **Work Order #...:** E83581AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2I280000-149
Prep Date.....: 09/27/02 **Analysis Date..:** 09/27/02
Prep Batch #...: 2271149 **Analysis Time..:** 15:21
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 064667

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**105**	**(65 - 150)**	**SW846 8260B**
Benzene	**97**	**(70 - 130)**	**SW846 8260B**
Trichloroethene	**92**	**(70 - 135)**	**SW846 8260B**
Toluene	**116**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**113**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	116	(65 - 135)
1,2-Dichloroethane-d4	86	(60 - 140)
Toluene-d8	110	(70 - 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 #...: E2I240147 **Work Order #...:** E83581AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2I280000-149
Prep Date.....: 09/27/02 **Analysis Date..:** 09/27/02
Prep Batch #...: 2271149 **Analysis Time..:** 15:21
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 064667

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**52.6**	**ug/kg**	**105**	**SW846 8260B**
Benzene	**50.0**	**48.3**	**ug/kg**	**97**	**SW846 8260B**
Trichloroethene	**50.0**	**46.1**	**ug/kg**	**92**	**SW846 8260B**
Toluene	**50.0**	**58.2**	**ug/kg**	**116**	**SW846 8260B**
Chlorobenzene	**50.0**	**56.6**	**ug/kg**	**113**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	116	(65 - 135)
1,2-Dichloroethane-d4	86	(60 - 140)
Toluene-d8	110	(70 - 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 #...: E2I240147 **Work Order #...:** E8PML1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: E2I230242-001 E8PML1AD-MSD
Date Sampled...: 09/23/02 09:40 **Date Received..:** 09/23/02 16:30 **MS Run #.....:** 2270268
Prep Date.....: 09/26/02 **Analysis Date..:** 09/26/02
Prep Batch #...: 2270530 **Analysis Time..:** 17:35
Dilution Factor: 1 **Analyst ID.....:** 064667 **Instrument ID..:** MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**98**	**(65 - 150)**			**SW846 8260B**
	101	**(65 - 150)**	**3.0**	**(0-30)**	**SW846 8260B**
Benzene	**96**	**(70 - 130)**			**SW846 8260B**
	97	**(70 - 130)**	**0.58**	**(0-30)**	**SW846 8260B**
Trichloroethene	**93**	**(70 - 135)**			**SW846 8260B**
	92	**(70 - 135)**	**0.36**	**(0-30)**	**SW846 8260B**
Toluene	**108**	**(70 - 130)**			**SW846 8260B**
	105	**(70 - 130)**	**2.4**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**107**	**(70 - 130)**			**SW846 8260B**
	104	**(70 - 130)**	**2.4**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(65 - 135)
	107	(65 - 135)
1,2-Dichloroethane-d4	91	(60 - 140)
	92	(60 - 140)
Toluene-d8	105	(70 - 130)
	103	(70 - 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 #...: E2I240147 **Work Order #...:** E8PML1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: E2I230242-001 E8PML1AD-MSD
Date Sampled...: 09/23/02 09:40 **Date Received..:** 09/23/02 16:30 **MS Run #.....:** 2270268
Prep Date.....: 09/26/02 **Analysis Date..:** 09/26/02
Prep Batch #...: 2270530 **Analysis Time..:** 17:35
Dilution Factor: 1 **Analyst ID.....:** 064667 **Instrument ID..:** MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**ND**	**50.0**	**49.2**	**ug/kg**	**98**		**SW846 8260B**
	ND	**50.0**	**50.7**	**ug/kg**	**101**	**3.0**	**SW846 8260B**
Benzene	**ND**	**50.0**	**48.1**	**ug/kg**	**96**		**SW846 8260B**
	ND	**50.0**	**48.4**	**ug/kg**	**97**	**0.58**	**SW846 8260B**
Trichloroethene	**ND**	**50.0**	**46.4**	**ug/kg**	**93**		**SW846 8260B**
	ND	**50.0**	**46.2**	**ug/kg**	**92**	**0.36**	**SW846 8260B**
Toluene	**ND**	**50.0**	**54.0**	**ug/kg**	**108**		**SW846 8260B**
	ND	**50.0**	**52.7**	**ug/kg**	**105**	**2.4**	**SW846 8260B**
Chlorobenzene	**ND**	**50.0**	**53.3**	**ug/kg**	**107**		**SW846 8260B**
	ND	**50.0**	**52.0**	**ug/kg**	**104**	**2.4**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(65 - 135)
	107	(65 - 135)
1,2-Dichloroethane-d4	91	(60 - 140)
	92	(60 - 140)
Toluene-d8	105	(70 - 130)
	103	(70 - 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 #...: E2I240147 **Work Order #...:** E8RJH1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: E2I240296-001 E8RJH1AD-MSD
Date Sampled...: 09/24/02 08:35 **Date Received..:** 09/24/02 13:40 **MS Run #.....:** 2271035
Prep Date.....: 09/27/02 **Analysis Date..:** 09/27/02
Prep Batch #...: 2271149 **Analysis Time..:** 17:50
Dilution Factor: 1 **Analyst ID.....:** 064667 **Instrument ID..:** MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**101**	**(65 - 150)**			**SW846 8260B**
	103	**(65 - 150)**	**2.2**	**(0-30)**	**SW846 8260B**
Benzene	**96**	**(70 - 130)**			**SW846 8260B**
	95	**(70 - 130)**	**1.5**	**(0-30)**	**SW846 8260B**
Trichloroethene	**92**	**(70 - 135)**			**SW846 8260B**
	93	**(70 - 135)**	**0.91**	**(0-30)**	**SW846 8260B**
Toluene	**113**	**(70 - 130)**			**SW846 8260B**
	113	**(70 - 130)**	**0.42**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**111**	**(70 - 130)**			**SW846 8260B**
	110	**(70 - 130)**	**0.78**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(65 - 135)
	103	(65 - 135)
1,2-Dichloroethane-d4	89	(60 - 140)
	87	(60 - 140)
Toluene-d8	100	(70 - 130)
	100	(70 - 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 #...: E2I240147 **Work Order #...:** E8RJH1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: E2I240296-001 E8RJH1AD-MSD
Date Sampled...: 09/24/02 08:35 **Date Received..:** 09/24/02 13:40 **MS Run #.....:** 2271035
Prep Date.....: 09/27/02 **Analysis Date..:** 09/27/02
Prep Batch #...: 2271149 **Analysis Time..:** 17:50
Dilution Factor: 1 **Analyst ID.....:** 064667 **Instrument ID..:** MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**ND**	**50.0**	**50.6**	**ug/kg**	**101**		**SW846 8260B**
	ND	**50.0**	**51.7**	**ug/kg**	**103**	**2.2**	**SW846 8260B**
Benzene	**ND**	**50.0**	**48.2**	**ug/kg**	**96**		**SW846 8260B**
	ND	**50.0**	**47.5**	**ug/kg**	**95**	**1.5**	**SW846 8260B**
Trichloroethene	**ND**	**50.0**	**45.9**	**ug/kg**	**92**		**SW846 8260B**
	ND	**50.0**	**46.3**	**ug/kg**	**93**	**0.91**	**SW846 8260B**
Toluene	**ND**	**50.0**	**56.4**	**ug/kg**	**113**		**SW846 8260B**
	ND	**50.0**	**56.6**	**ug/kg**	**113**	**0.42**	**SW846 8260B**
Chlorobenzene	**ND**	**50.0**	**55.3**	**ug/kg**	**111**		**SW846 8260B**
	ND	**50.0**	**54.9**	**ug/kg**	**110**	**0.78**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(65 - 135)
	103	(65 - 135)
1,2-Dichloroethane-d4	89	(60 - 140)
	87	(60 - 140)
Toluene-d8	100	(70 - 130)
	100	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

EXECUTIVE SUMMARY - Detection Highlights

E3A100316

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB1005_SS55_0001 01/10/03 09:15 002				
Trichloroethene	6.7	5.0	ug/kg	SW846 8260B
SB1006_SS45_0001 01/10/03 10:50 003				
Tetrahydrofuran	7.4 J,B	20	ug/kg	SW846 8260B
SB1006_SS55_0001 01/10/03 11:00 004				
Tetrahydrofuran	34 J,B	100	ug/kg	SW846 8260B
Trichloroethene	370	25	ug/kg	SW846 8260B

METHODS SUMMARY

E3A100316

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

References:

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

SAMPLE SUMMARY

E3A100316

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
FFXQ1	001	SB1005_SS45_0001	01/10/03	09:00
FFXRV	002	SB1005_SS55_0001	01/10/03	09:15
FFXR2	003	SB1006_SS45_0001	01/10/03	10:50
FFXR5	004	SB1006_SS55_0001	01/10/03	11:00

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.

HALEY & ALDRICH INC

Client Sample ID: SB1005_SS45_0001

GC/MS Volatiles

Lot-Sample #...: E3A100316-001 **Work Order #...:** FFXQ11AA **Matrix.....:** SOLID
Date Sampled...: 01/10/03 09:00 **Date Received..:** 01/10/03 13:35 **MS Run #.....:** 3015137
Prep Date.....: 01/14/03 **Analysis Date..:** 01/14/03
Prep Batch #...: 3015268 **Analysis Time..:** 21:31
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	40
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1005_SS45_0001

GC/MS Volatiles

Lot-Sample #...: E3A100316-001 **Work Order #...:** FFXQ11AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(60 - 130)
1,2-Dichloroethane-d4	91	(60 - 140)
Toluene-d8	88	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SB1005_SS55_0001

GC/MS Volatiles

Lot-Sample #...: E3A100316-002 **Work Order #...:** FFXRV1AA **Matrix.....:** SOLID
Date Sampled...: 01/10/03 09:15 **Date Received..:** 01/10/03 13:35 **MS Run #.....:** 3015137
Prep Date.....: 01/14/03 **Analysis Date..:** 01/14/03
Prep Batch #...: 3015268 **Analysis Time..:** 22:01
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	40
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	**6.7**	**5.0**	**ug/kg**	**2.0**
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1005_SS55_0001

GC/MS Volatiles

Lot-Sample #...: E3A100316-002 **Work Order #...:** FFXRV1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	84	(60 - 130)
1,2-Dichloroethane-d4	87	(60 - 140)
Toluene-d8	82	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SB1006_SS45_0001

GC/MS Volatiles

Lot-Sample #...: E3A100316-003 **Work Order #...:** FFXR21AA **Matrix.....:** SOLID
Date Sampled...: 01/10/03 10:50 **Date Received..:** 01/10/03 13:35 **MS Run #.....:** 3015137
Prep Date.....: 01/14/03 **Analysis Date..:** 01/14/03
Prep Batch #...: 3015268 **Analysis Time..:** 22:31
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	40
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	**7.4 J,B**	**20**	**ug/kg**	**2.0**
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1006_SS45_0001

GC/MS Volatiles

Lot-Sample #...: E3A100316-003 **Work Order #...:** FFXR21AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(60 - 130)
1,2-Dichloroethane-d4	95	(60 - 140)
Toluene-d8	93	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

HALEY & ALDRICH INC

Client Sample ID: SB1006_SS55_0001

GC/MS Volatiles

Lot-Sample #...: E3A100316-004 **Work Order #...:** FFXR51AA **Matrix.....:** SOLID
Date Sampled...: 01/10/03 11:00 **Date Received..:** 01/10/03 13:35 **MS Run #.....:** 3015137
Prep Date.....: 01/14/03 **Analysis Date..:** 01/14/03
Prep Batch #...: 3015268 **Analysis Time..:** 23:01
Dilution Factor: 5
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	50	ug/kg	5.0
Chloromethane	ND	50	ug/kg	15
Vinyl chloride	ND	50	ug/kg	10
Bromomethane	ND	50	ug/kg	40
1,2-Dibromoethane	ND	25	ug/kg	15
Chloroethane	ND	50	ug/kg	10
Trichlorofluoromethane	ND	50	ug/kg	10
Acrolein	ND	500	ug/kg	150
1,1-Dichloroethene	ND	25	ug/kg	10
Iodomethane	ND	50	ug/kg	50
Acetone	ND	120	ug/kg	75
Carbon disulfide	ND	25	ug/kg	15
Methylene chloride	ND	25	ug/kg	15
trans-1,2-Dichloroethene	ND	25	ug/kg	10
Acrylonitrile	ND	500	ug/kg	200
Methyl tert-butyl ether	ND	25	ug/kg	5.0
1,1-Dichloroethane	ND	25	ug/kg	5.0
Vinyl acetate	ND	50	ug/kg	25
2,2-Dichloropropane	ND	25	ug/kg	10
cis-1,2-Dichloroethene	ND	25	ug/kg	10
2-Butanone	ND	120	ug/kg	75
Bromochloromethane	ND	25	ug/kg	5.0
Chloroform	ND	25	ug/kg	5.0
Tetrahydrofuran	**34 J,B**	**100**	**ug/kg**	**10**
1,1,1-Trichloroethane	ND	25	ug/kg	5.0
1,1-Dichloropropene	ND	25	ug/kg	5.0
Carbon tetrachloride	ND	25	ug/kg	5.0
Benzene	ND	25	ug/kg	10
1,2-Dichloroethane	ND	25	ug/kg	5.0
Trichloroethene	**370**	**25**	**ug/kg**	**10**
1,2-Dichloropropane	ND	25	ug/kg	5.0
Bromodichloromethane	ND	25	ug/kg	5.0
2-Chloroethyl vinyl ether	ND	50	ug/kg	25
cis-1,3-Dichloropropene	ND	25	ug/kg	5.0
4-Methyl-2-pentanone	ND	120	ug/kg	50
Toluene	ND	25	ug/kg	10
trans-1,3-Dichloropropene	ND	25	ug/kg	15

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: SB1006_SS55_0001

GC/MS Volatiles

Lot-Sample #...: E3A100316-004 **Work Order #...:** FFXR51AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	25	ug/kg	15
Tetrachloroethene	ND	25	ug/kg	10
2-Hexanone	ND	120	ug/kg	50
Dibromochloromethane	ND	25	ug/kg	5.0
Chlorobenzene	ND	25	ug/kg	10
Ethylbenzene	ND	25	ug/kg	10
Xylenes (total)	ND	25	ug/kg	15
Styrene	ND	50	ug/kg	10
Bromoform	ND	25	ug/kg	15
Isopropylbenzene	ND	25	ug/kg	10
p-Isopropyltoluene	ND	25	ug/kg	10
Bromobenzene	ND	25	ug/kg	10
1,1,1,2-Tetrachloroethane	ND	25	ug/kg	15
1,1,2,2-Tetrachloroethane	ND	25	ug/kg	15
1,2,3-Trichloropropane	ND	25	ug/kg	15
n-Propylbenzene	ND	25	ug/kg	10
2-Chlorotoluene	ND	25	ug/kg	10
4-Chlorotoluene	ND	25	ug/kg	10
1,3,5-Trimethylbenzene	ND	25	ug/kg	10
tert-Butylbenzene	ND	25	ug/kg	10
1,2,4-Trimethylbenzene	ND	25	ug/kg	10
sec-Butylbenzene	ND	25	ug/kg	10
1,3-Dichlorobenzene	ND	25	ug/kg	10
1,4-Dichlorobenzene	ND	25	ug/kg	10
1,2-Dichlorobenzene	ND	25	ug/kg	10
n-Butylbenzene	ND	25	ug/kg	10
1,2-Dibromo-3-chloro-propane	ND	50	ug/kg	15
1,2,4-Trichloro-benzene	ND	25	ug/kg	10
Hexachlorobutadiene	ND	25	ug/kg	10
1,2,3-Trichlorobenzene	ND	25	ug/kg	10
t-Butanol	ND	500	ug/kg	250
Isopropyl ether	ND	50	ug/kg	5.0
Tert-amyl methyl ether	ND	50	ug/kg	10
Tert-butyl ethyl ether	ND	50	ug/kg	5.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(60 - 130)
1,2-Dichloroethane-d4	96	(60 - 140)
Toluene-d8	92	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

QC DATA ASSOCIATION SUMMARY

E3A100316

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8260B		3015268	3015137
002	SOLID	SW846 8260B		3015268	3015137
003	SOLID	SW846 8260B		3015268	3015137
004	SOLID	SW846 8260B		3015268	3015137

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E3A100316 **Work Order #...:** FF40R1AA **Matrix.....:** SOLID
MB Lot-Sample #: E3A150000-268

Prep Date.....: 01/14/03 **Analysis Time..:** 12:58
Analysis Date..: 01/14/03 **Prep Batch #...:** 3015268 **Instrument ID..:** MSD
Dilution Factor: 1

Analyst ID.....: 999998

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	100	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	**6.1 J**	**20**	**ug/kg**	**SW846 8260B**
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E3A100316 **Work Order #...:** FF40R1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
t-Butanol	ND	100	ug/kg	SW846 8260B
Isopropyl ether	ND	10	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	10	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(60 - 130)
1,2-Dichloroethane-d4	89	(60 - 140)
Toluene-d8	93	(60 - 130)

NOTE(S):

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

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E3A100316 **Work Order #...:** FF40R1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E3A150000-268
Prep Date.....: 01/14/03 **Analysis Date..:** 01/14/03
Prep Batch #...: 3015268 **Analysis Time..:** 12:28
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**105**	**(65 - 150)**	**SW846 8260B**
Benzene	**100**	**(70 - 130)**	**SW846 8260B**
Trichloroethene	**116**	**(70 - 135)**	**SW846 8260B**
Toluene	**93**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**96**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(60 - 130)
1,2-Dichloroethane-d4	92	(60 - 140)
Toluene-d8	96	(60 - 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 #...: E3A100316 **Work Order #...:** FF40R1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E3A150000-268
Prep Date.....: 01/14/03 **Analysis Date..:** 01/14/03
Prep Batch #...: 3015268 **Analysis Time..:** 12:28
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**52.3**	**ug/kg**	**105**	**SW846 8260B**
Benzene	**50.0**	**49.9**	**ug/kg**	**100**	**SW846 8260B**
Trichloroethene	**50.0**	**57.8**	**ug/kg**	**116**	**SW846 8260B**
Toluene	**50.0**	**46.6**	**ug/kg**	**93**	**SW846 8260B**
Chlorobenzene	**50.0**	**48.0**	**ug/kg**	**96**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(60 - 130)
1,2-Dichloroethane-d4	92	(60 - 140)
Toluene-d8	96	(60 - 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 #...: E3A100316 **Work Order #...:** FFX611AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: E3A100364-016 FFX611AD-MSD
Date Sampled...: 01/10/03 13:00 **Date Received..:** 01/10/03 17:05 **MS Run #.....:** 3015137
Prep Date.....: 01/14/03 **Analysis Date..:** 01/14/03
Prep Batch #...: 3015268 **Analysis Time..:** 17:00
Dilution Factor: 1 **Analyst ID.....:** 999998 **Instrument ID..:** MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**101**	**(65 - 150)**			**SW846 8260B**
	101	**(65 - 150)**	**0.69**	**(0-30)**	**SW846 8260B**
Benzene	**99**	**(70 - 130)**			**SW846 8260B**
	99	**(70 - 130)**	**0.20**	**(0-30)**	**SW846 8260B**
Trichloroethene	**110**	**(70 - 135)**			**SW846 8260B**
	109	**(70 - 135)**	**0.18**	**(0-30)**	**SW846 8260B**
Toluene	**92**	**(70 - 130)**			**SW846 8260B**
	91	**(70 - 130)**	**1.8**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**92**	**(70 - 130)**			**SW846 8260B**
	90	**(70 - 130)**	**1.7**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(60 - 130)
	98	(60 - 130)
1,2-Dichloroethane-d4	98	(60 - 140)
	95	(60 - 140)
Toluene-d8	102	(60 - 130)
	93	(60 - 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 #...: E3A100316 **Work Order #...:** FFX611AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: E3A100364-016 FFX611AD-MSD
Date Sampled...: 01/10/03 13:00 **Date Received..:** 01/10/03 17:05 **MS Run #.....:** 3015137
Prep Date.....: 01/14/03 **Analysis Date..:** 01/14/03
Prep Batch #...: 3015268 **Analysis Time..:** 17:00
Dilution Factor: 1 **Analyst ID.....:** 999998 **Instrument ID..:** MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**ND**	**50.0**	**50.7**	**ug/kg**	**101**		**SW846 8260B**
	ND	**50.0**	**50.4**	**ug/kg**	**101**	**0.69**	**SW846 8260B**
Benzene	**ND**	**50.0**	**49.4**	**ug/kg**	**99**		**SW846 8260B**
	ND	**50.0**	**49.4**	**ug/kg**	**99**	**0.20**	**SW846 8260B**
Trichloroethene	**ND**	**50.0**	**54.8**	**ug/kg**	**110**		**SW846 8260B**
	ND	**50.0**	**54.7**	**ug/kg**	**109**	**0.18**	**SW846 8260B**
Toluene	**ND**	**50.0**	**46.1**	**ug/kg**	**92**		**SW846 8260B**
	ND	**50.0**	**45.3**	**ug/kg**	**91**	**1.8**	**SW846 8260B**
Chlorobenzene	**ND**	**50.0**	**45.8**	**ug/kg**	**92**		**SW846 8260B**
	ND	**50.0**	**45.0**	**ug/kg**	**90**	**1.7**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(60 - 130)
	98	(60 - 130)
1,2-Dichloroethane-d4	98	(60 - 140)
	95	(60 - 140)
Toluene-d8	102	(60 - 130)
	93	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

APPENDIX C

SVE Closure Sample Laboratory Analytical Results and Data Validation Reports

TEST BORING REPORT

Boring No. SB1002

Project Boeing Former C-6 Facility, Parcel C, Building 2 SVE Los Angeles, CA
Client Boeing Realty Corporation
Contractor West Hazmat Drilling

File No. 28997-003
Sheet No. 1 of 3
Start September 23, 2002
Finish September 23, 2002
Driller R. Leininger
H&A Rep. T. Hammond
Elevation
Datum NGVD 1929
Location 10-feet north of 2_VEW_11

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	HSA	MC	-	Rig Make & Model: Truck-mounted CME-75
Inside Diameter (in.)	4.25	1.875	-	Bit Type: Cutting Head Drill Mud: None
Hammer Weight (lb.)	NA	140	-	Casing: Hollow-stem Auger
Hammer Fall (in.)	NA	30	-	Hoist/Hammer: Winch / Down-hole Hammer

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0				NO WELL INSTALLED			Soil samples were not collected until 25' bgs.										
					1.0		Cuttings: brown silty CLAY (CL), no odor, moist PID = 0.1 ppm										
5																	
10																	
15																	
					19.0		Cuttings became sandy at a drilling depth of 21 feet bgs.										
20																	

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
		Not Encountered			

Sample Identification

- S SPT (1-3/8" I.D.)
- CA Cal. (2-3/8" I.D.)
- MC Cal. Mod. (1-7/8" I.D.)
- U Undisturbed Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (lin. ft.)	50
Rock Cored (lin. ft.)	0
Samples	3

Boring No. SB1002

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

*** Indicates the use of a 3" sampler and 300 lb hammer**

USCS_TB3CA1 USCSLIB4.GLB USCSTC3A.GDT G:\PROJECTS\ENVIRO-1\28997_-1-003BL-1\GINT\28997002B.GPJ Feb 25, 03

TEST BORING REPORT

HALEY & ALDRICH

Boring No. SB1002
File No. 28997-003
Sheet No. 2 of 3

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20																	
					23.0												
25	9 14 18	SS25 18	25.0 26.5			CL	Stiff, brown silty CLAY (CL), no odor, dry to moist PID = 0.1 ppm	0	0	0	0	10	90			M	M
30					30.0		Cuttings became very sandy at a drilling depth of 30 feet bgs.										
35																	
40	33 50/6	SS40 12	40.0 41.0		40.0	SP	Very dense, light brown to tan poorly-graded silty SAND with gravel (SP), mps = 13 mm, no odor, dry to moist, gravel-size grains are thin shell fragments alligned on bedding planes PID = 0.1 ppm	0	10	20	45	20	5			N	L
45																	
					48.0												

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. SB1002

*** Indicates the use of a 3" sampler and 300 lb hammer**

USCS_TB3CA1 USCSLIB4.GLB USCSTC3A.GDT G:\PROJECTS\ENVIRO-1\28997_-1\-003BL-1\GINT\28997002B.GPJ Feb 25, 03

TEST BORING REPORT

HALEY & ALDRICH

Boring No. SB1002
File No. 28997-003
Sheet No. 3 of 3

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
50	10 18 29	SS50 18	50.0 51.5			CL	Very stiff, olive-brown silty CLAY (CL), no odor, dry to moist, Rust staining along fractures PID = 10.5 ppm	0	0	0	0	10	90	N		M	M
					51.5		Bottom of Exploration at 51.5 ft. Note: Borehole backfilled with bentonite grout										

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. SB1002

*** Indicates the use of a 3" sampler and 300 lb hammer**

USCS_TB3CA1 USCSLIB4.GLB USCSTC3A.GDT G:\PROJECTS\ENVIRO-1\28997_-1\-003BL-1\GINT\28997002B.GPJ Feb 25, 03

TEST BORING REPORT

Boring No. SB1003

Project Boeing Former C-6 Facility, Parcel C, Building 2 SVE Los Angeles, CA
Client Boeing Realty Corporation
Contractor West Hazmat Drilling

File No. 28997-003
Sheet No. 1 of 3
Start September 23, 2002
Finish September 23, 2002
Driller R. Leininger
H&A Rep. T. Hammond
Elevation
Datum NGVD 1929
Location 10-feet east of 2_VEW_12

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	HSA	MC	-	Rig Make & Model: Truck-mounted CME-75
Inside Diameter (in.)	4.25	1.875	-	Bit Type: Cutting Head Drill Mud: None
Hammer Weight (lb.)	NA	140	-	Casing: Hollow-stem Auger
Hammer Fall (in.)	NA	30	-	Hoist/Hammer: Winch / Down-hole Hammer

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0				NO WELL INSTALLED			Soil samples were not collected until 25' bgs. Cuttings: brown silty CLAY (CL), no odor, moist PID = 1.0 ppm										
5																	
10																	
15																	
20																	

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
		Not Encountered			

Sample Identification	
S	SPT (1-3/8" I.D.)
CA	Cal. (2-3/8" I.D.)
MC	Cal. Mod. (1-7/8" I.D.)
U	Undisturbed Sample
G	Geoprobe

Well Diagram: Riser Pipe, Screen, Filter Sand, Cuttings, Grout, Concrete, Bentonite Seal

Summary	
Overburden (lin. ft.)	50
Rock Cored (lin. ft.)	0
Samples	4

Boring No. SB1003

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

*** Indicates the use of a 3" sampler and 300 lb hammer**

USCS_TB3CA1 USCSLIB4.GLB USCSTC3A.GDT G:\PROJECTS\ENVIRO~1\28997_~1\-003BL~1\GINT\28997002B.GPJ Feb 25, 03

TEST BORING REPORT

Boring No. SB1003
File No. 28997-003
Sheet No. 2 of 3

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20							Cuttings became sandy at a drilling depth of 23 feet bgs. PID = up to 1.0 ppm										
25	11 14 20	SS25 18	25.0 26.5			CL	Stiff to very stiff, brown silty CLAY (CL), layered structure, no odor, dry to moist, fossil worm burrows and occasional sand PID = 0.1 ppm	0	0	0	5	10	85	N	M	M	M
					28.0												
30	8 24 27	SS30 16	30.0 31.5			SP	Medium dense, brown to light brown silty fine SAND (SP), layered structure, no odor, dry to moist, has continuous cylindrical burrows filled with grayish sand PID = 0.1 ppm	0	0	0	10	80	10	N	L	L	L
35																	
40	20 50/4	SS40 12	40.0 41.5			SP	Very dense, light brown to gray-brown SAND with gravel (SP), layered structure, no odor, dry to moist, partially cemented zones PID = 0.1 ppm	0	5	5	10	80	0		L	N	L
45					49.0												

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. SB1003

*** Indicates the use of a 3" sampler and 300 lb hammer**

USCS_TB3CA1 USCSLIB4.GLB USCSTC3A.GDT G:\PROJECTS\ENVIRO-1\28997_-1\-003BL-1\GINT\28997002B.GPJ Feb 25, 03

TEST BORING REPORT

HALEY & ALDRICH

Boring No. SB1003
File No. 28997-003
Sheet No. 3 of 3

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
50	6 9 25	SS50 18	50.0 51.5			CL	Medium stiff to stiff, gray-brown to olive-brown silty CLAY with sand (CL), layered structure, no odor, moist, 2 to 3 mm iron cemented nodules of sand and rust staining PID = 0.4 ppm	0	0	0	5	5	90		M	M	L
					51.5		Bottom of Exploration at 51.5 ft. Note: Borehole backfilled with bentonite grout										

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. SB1003

*** Indicates the use of a 3" sampler and 300 lb hammer**

USCS_TB3CA1 USCSLIB4.GLB USCSTC3A.GDT G:\PROJECTS\ENVIRO-1\28997_-1\-003BL-1\GINT\28997002B.GPJ Feb 25, 03

TEST BORING REPORT

Boring No. SB1004

Project Boeing Former C-6 Facility, Parcel C, Building 2 SVE Los Angeles, CA
Client Boeing Realty Corporation
Contractor West Hazmat Drilling

File No. 28997-003
Sheet No. 1 of 3
Start September 23, 2002
Finish September 23, 2002
Driller R. Leininger
H&A Rep. T. Hammond
Elevation
Datum NGVD 1929
Location 10-feet southeast of 2_VEW_4

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	HSA	MC	-	Rig Make & Model: Truck-mounted CME-75
Inside Diameter (in.)	4.25	1.875	-	Bit Type: Cutting Head Drill Mud: None
Hammer Weight (lb.)	NA	140	-	Casing: Hollow-stem Auger
Hammer Fall (in.)	NA	30	-	Hoist/Hammer: Winch / Down-hole Hammer

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0				NO WELL INSTALLED			Soil samples were not collected until 30' bgs. Cuttings: brown CLAY, -FILL-										
5																	
10																	
15																	
20																	

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
		Not Encountered			

Sample Identification

- S SPT (1-3/8" I.D.)
- CA Cal. (2-3/8" I.D.)
- MC Cal. Mod. (1-7/8" I.D.)
- U Undisturbed Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (lin. ft.)	50
Rock Cored (lin. ft.)	0
Samples	3

Boring No. SB1004

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

*** Indicates the use of a 3" sampler and 300 lb hammer**

USCS_TB3CA1 USCSLIB4.GLB USCSTC3A.GDT G:\PROJECTS\ENVIRO~1\28997_~1\-003BL~1\GINT\28997002B.GPJ Feb 25, 03

TEST BORING REPORT

Boring No. SB1004
File No. 28997-003
Sheet No. 2 of 3

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20							Cuttings: olive-brown, silty CLAY, moist, no odor PID = 3.3 ppm										
25					25.0		Cuttings became sandy at drilling depth of 25' bgs										
30	10 15 30	SS30 16	30.0 31.5			SP-SM	Medium dense, light brown to brown silty SAND (SP-SM), layered structure, no odor, moist PID = 2.5 ppm	0	0	0	20	60	20			N	L
35																	
40	10 19 20	SS40 18	40.0 41.5			SP	Medium dense, light brown fine SAND with silt (SP), no structure, no odor, moist PID = 0.7 ppm	0	0	0	20	70	10			N	L
45																	

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. SB1004

*** Indicates the use of a 3" sampler and 300 lb hammer**

USCS_TB3CA1 USCSLIB4.GLB USCSTC3A.GDT G:\PROJECTS\ENVIRO-1\28997_-1\-003BL-1\GINT\28997002B.GPJ Feb 25, 03

TEST BORING REPORT

HALEY & ALDRICH

Boring No. SB1004
File No. 28997-003
Sheet No. 3 of 3

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
50	11 20 24	SS50 16	50.0 51.5			SP	Medium dense, light brown with white and gray shell fragments, SAND with silt and gravel sized shell fragments (SP), mps = 9.5 mm, layered structure, no odor, dry to moist, partially cemented PID = 0.5 ppm	0	10	20	30	20	10			N	L
					51.5		Bottom of Exploration at 51.5 ft. Note: Borehole backfilled with bentonite grout										

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. SB1004

*** Indicates the use of a 3" sampler and 300 lb hammer**

USCS_TB3CA1 USCSLIB4.GLB USCSTC3A.GDT G:\PROJECTS\ENVIRO-1\28997_-1\-003BL-1\GINT\28997002B.GPJ Feb 25, 03

TEST BORING REPORT

Boring No. SB1005

Project Boeing Former C-6 Facility, Parcel C, Building 2 SVE Los Angeles, CA
Client Boeing Realty Corporation
Contractor West Hazmat Drilling

File No. 28997-003
Sheet No. 1 of 3
Start January 10, 2003
Finish January 10, 2003
Driller R. Hastings
H&A Rep. T. Hammond
Elevation
Datum NGVD 1929
Location x:6469956 y:1769210

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	HSA	MC	-	Rig Make & Model: Truck-mounted CME-75
Inside Diameter (in.)	4.25	1.875	-	Bit Type: Cutting Head Drill Mud: None
Hammer Weight (lb.)	NA	140	-	Casing: Hollow-stem Auger
Hammer Fall (in.)	NA	30	-	Hoist/Hammer: Winch / Down-hole Hammer

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0				NO WELL INSTALLED			Soil samples were not collected until 45 feet bgs.										
5																	
10																	
15																	
20																	

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
		Not Encountered			

Sample Identification

- S SPT (1-3/8" I.D.)
- CA Cal. (2-3/8" I.D.)
- MC Cal. Mod. (1-7/8" I.D.)
- U Undisturbed Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (lin. ft.)	65.5
Rock Cored (lin. ft.)	0
Samples	3

Boring No. SB1005

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Toughness: L-Low, M-Medium, H-High Plasticity: N-Nonplastic, L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

*** Indicates the use of a 3" sampler and 300 lb hammer**

USCS_TB3CA1 USCSLIB4.GLB USCSTC3A.GDT G:\PROJECTS\ENVIRO-1\28997_-1-003BL-1\GINT\28997002B.GPJ Feb 25, 03

TEST BORING REPORT

HALEY & ALDRICH

Boring No. SB1005
File No. 28997-003
Sheet No. 2 of 3

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20																	
25																	
30																	
35																	
40																	
45	12 24 27	MC-1 12"	45.0 46.0			SC	Medium dense, tan to light brown sandy CLAY (SC), layered structure, no odor, moist, shell fragments PID = 0.0 ppm	0	5	15	25	25	30				

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. SB1005

*** Indicates the use of a 3" sampler and 300 lb hammer**

USCS_TB3CA1 USCSLIB4.GLB USCSTC3A.GDT G:\PROJECTS\ENVIRO-1\28997_-1\-003BL-1\GINT\28997002B.GPJ Feb 25, 03

TEST BORING REPORT

Boring No. SB1005
File No. 28997-003
Sheet No. 3 of 3

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
50					50.0												
55	40 50/6	MC-2 18"	55.0 56.5			MH	Hard, olive-brown elastic SILT (MH), layered structure, no odor, moist, rust staining along fractures PID = up to 39 ppm	0	0	0	0	5	95	N	M	M	M
60					60.0												
65	50/6	MC-3 6"	65.0 65.5		65.5	SC	Very dense, olive-brown clayey SAND (SC), no structure, no odor, wet	0	0	0	30	40	30				
							Bottom of Exploration at 65.5 ft. Note: Borehole backfilled with bentonite grout to 5 feet bgs and topped off with medium bentonite chips to the surface.										

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. SB1005

*** Indicates the use of a 3" sampler and 300 lb hammer**

USCS_TB3CA1 USCSLIB4.GLB USCSTC3A.GDT G:\PROJECTS\ENVIRO-1\28997_-1\-003BL-1\GINT\28997002B.GPJ Feb 25, 03

TEST BORING REPORT

Boring No. SB1006

Project Boeing Former C-6 Facility, Parcel C, Building 2 SVE Los Angeles, CA
Client Boeing Realty Corporation
Contractor West Hazmat Drilling

File No. 28997-003
Sheet No. 1 of 3
Start January 10, 2003
Finish January 10, 2003
Driller R. Hastings
H&A Rep. T. Hammond
Elevation
Datum NGVD 1929
Location x:6469721 y:1769125

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	HSA	MC	-	Rig Make & Model: Truck-mounted CME-75
Inside Diameter (in.)	4.25	1.875	-	Bit Type: Cutting Head Drill Mud: None
Hammer Weight (lb.)	NA	140	-	Casing: Hollow-stem Auger
Hammer Fall (in.)	NA	30	-	Hoist/Hammer: Winch / Down-hole Hammer

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0				NO WELL INSTALLED			Soil samples were not collected until 45 feet bgs.										
5																	
10							Cuttings 0 to 25 feet bgs: silty CLAY										
15																	
20																	

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
		Not Encountered			

Sample Identification
- S SPT (1-3/8" I.D.)
- CA Cal. (2-3/8" I.D.)
- MC Cal. Mod. (1-7/8" I.D.)
- U Undisturbed Sample
- G Geoprobe

Well Diagram
- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (lin. ft.)	66
Rock Cored (lin. ft.)	0
Samples	3

Boring No. SB1006

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

*** Indicates the use of a 3" sampler and 300 lb hammer**

USCS_TB3CA1 USCSLIB4.GLB USCSTC3A.GDT G:\PROJECTS\ENVIRONMENTAL\28997_BOEING C-6 2002 SVE\003 BLDG 2 DATA\GINT\28997002B.GPJ Feb 25, 03

TEST BORING REPORT

Boring No. SB1006
File No. 28997-003
Sheet No. 2 of 3

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20																	
25					25.0		Cuttings 25 to 45 feet bgs: silty SAND										
30																	
35																	
40																	
45	32 50/5	MC-1 6"	45.0 45.5			SP	Dense, light brown poorly-graded SAND (SP), no structure, no odor, moist	0	0	0	50	45	5				

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. SB1006

*** Indicates the use of a 3" sampler and 300 lb hammer**

USCS_TB3CA1 USCSLIB4.GLB USCSTC3A.GDT G:\PROJECTS\ENVIRONMENTAL\28997_BOEING C-6 2002 SVE\003 BLDG 2 DATA\GINT\28997002B.GPJ Feb 25, 03

TEST BORING REPORT

Boring No. SB1006
File No. 28997-003
Sheet No. 3 of 3

Depth (ft.)	SPT[1]	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size[2], structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
50					50.0												
55	27 50/6	MC-2 18"	55.0 56.5			CH	Very stiff, olive-brown to light brown fat CLAY (CH), layered structure, no odor, moist, occasional medium sand lenses and pockets - rust stained PID = up to 47 ppm	0	0	0	0	0	100				
60					60.0		Cuttings PID = up to 34 ppm										
65	40 50	MC-3 12"	65.0 66.0		65.5	SC	Dense, mottled gray-brown and yellow-brown clayey SAND (SC), blocky structure, no odor, moist PID = up to 34 ppm	0	0	0	30	45	25				

Bottom of Exploration at 66 ft.

Note: Borehole backfilled with bentonite grout to 7 feet bgs and topped off with medium bentonite chips to the surface.

[1]SPT = Sampler blows per 6 in. [2]Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. SB1006

*** Indicates the use of a 3" sampler and 300 lb hammer**

USCS_TB3CA1 USCSLIB4.GLB USCSTC3A.GDT G:\PROJECTS\ENVIRONMENTAL\28997_BOEING C-6 2002 SVE\003 BLDG 2 DATA\GINT\28997002B.GPJ Feb 25, 03

EXECUTIVE SUMMARY - Detection Highlights

E2J170170

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
2_VEW_10B_AV101602_0001 10/16/02 12:57 001				
Methane	0.00024	0.00020	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	11	5.0	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	0.013 J	0.020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.72	0.020	ppm(v/v)	EPA-21 TO-14A
Methylene chloride	0.017 J	0.020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.027	0.020	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.023	0.020	ppm(v/v)	EPA-21 TO-14A
Chloroform	1.5	0.020	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.056	0.020	ppm(v/v)	EPA-21 TO-14A
Carbon tetrachloride	0.048	0.020	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	3.9	0.020	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.18	0.020	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.013 J	0.10	ppm(v/v)	EPA-21 TO-14A
2_VEW_15B_AV101602_0001 10/16/02 13:10 002				
Methane	0.00020	0.00020	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	10	3.1	ppm(v/v)	EPA-21 TO-14A
Dichlorodifluoromethane	0.036	0.012	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	0.022	0.012	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.44	0.012	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0034 J	0.012	ppm(v/v)	EPA-21 TO-14A
Acetone	0.012 J	0.062	ppm(v/v)	EPA-21 TO-14A
Methylene chloride	0.0071 J	0.012	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.0092 J	0.012	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.0081 J	0.012	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.32	0.012	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.023	0.012	ppm(v/v)	EPA-21 TO-14A
Carbon tetrachloride	0.015	0.012	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	2.7	0.012	ppm(v/v)	EPA-21 TO-14A
Toluene	0.0035 J	0.031	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.11	0.012	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.016 J	0.062	ppm(v/v)	EPA-21 TO-14A
2_VEW_11B_AV101602_0001 10/16/02 13:20 003				
Methane	0.00023	0.00020	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	15	4.2	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	0.051	0.017	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	2.9	0.017	ppm(v/v)	EPA-21 TO-14A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E2J170170

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
2_VEW_11B_AV101602_0001 10/16/02 13:20 003				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.010 J	0.017	ppm(v/v)	EPA-21 TO-14A
Methylene chloride	0.0074 J	0.017	ppm(v/v)	EPA-21 TO-14A
trans-1,2-Dichloroethene	0.013 J	0.017	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.013 J	0.017	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.013 J	0.017	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.058	0.017	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.018	0.017	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	3.5	0.017	ppm(v/v)	EPA-21 TO-14A
Toluene	0.010 J	0.042	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.14	0.017	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	0.0090 J	0.017	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	0.066	0.017	ppm(v/v)	EPA-21 TO-14A
4-Ethyltoluene	0.065	0.017	ppm(v/v)	EPA-21 TO-14A
1,3,5-Trimethylbenzene	0.056	0.017	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	0.12	0.017	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.017 J	0.083	ppm(v/v)	EPA-21 TO-14A
2_VEW_19_AV101602_0001 10/16/02 13:28 004				
Total Non-Methane Hydrocarbons	5.0	2.5	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	0.075	0.010	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.55	0.010	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0069 J	0.010	ppm(v/v)	EPA-21 TO-14A
Acetone	0.012 J	0.050	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.033	0.010	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.0040 J	0.010	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.027	0.010	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.0063 J	0.010	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	2.1	0.010	ppm(v/v)	EPA-21 TO-14A
Toluene	0.0030 J	0.025	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.14	0.010	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.012 J	0.050	ppm(v/v)	EPA-21 TO-14A
2_VEW_9_AV101602_0001 10/16/02 13:40 005				
Methane	0.00011 J	0.00020	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	4.0	2.0	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	0.034	0.0080	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.24	0.0080	ppm(v/v)	EPA-21 TO-14A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E2J170170

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
2_VEW_9_AV101602_0001 10/16/02 13:40	**005**			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0031 J	0.0080	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.030	0.0080	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.0056 J	0.0080	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.021	0.0080	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.0049 J	0.0080	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	1.9	0.0080	ppm(v/v)	EPA-21 TO-14A
Toluene	0.0062 J	0.020	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.057	0.0080	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	0.0045 J	0.0080	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.0095 J	0.040	ppm(v/v)	EPA-21 TO-14A
GAC0002U_AV101602_0001 10/16/02 16:12	**006**			
Methane	0.00021	0.00020	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	4.8	1.7	ppm(v/v)	EPA-21 TO-14A
Dichlorodifluoromethane	0.0032 J	0.0067	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	0.019	0.0067	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.39	0.0067	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0032 J	0.0067	ppm(v/v)	EPA-21 TO-14A
Acetone	0.0074 J	0.033	ppm(v/v)	EPA-21 TO-14A
Methylene chloride	0.0032 J	0.0067	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.013	0.0067	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.0073	0.0067	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.33	0.0067	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.017	0.0067	ppm(v/v)	EPA-21 TO-14A
Carbon tetrachloride	0.014	0.0067	ppm(v/v)	EPA-21 TO-14A
Benzene	0.0032 J	0.0067	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	1.7	0.0067	ppm(v/v)	EPA-21 TO-14A
Toluene	0.0087 J	0.017	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.10	0.0067	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	0.0019 J	0.0067	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	0.0093	0.0067	ppm(v/v)	EPA-21 TO-14A
4-Ethyltoluene	0.0026 J	0.0067	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	0.0023 J	0.0067	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.011 J	0.033	ppm(v/v)	EPA-21 TO-14A

METHODS SUMMARY

E2J170170

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Fixed Gases	ASTM D1946	ASTM D1946
Volatile Organics by TO-14A	EPA-21 TO-14A	

References:

ASTM Annual Book Of ASTM Standards.

EPA-21 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", Second Edition, EPA/625/R-96/010b, January 1999

SAMPLE SUMMARY

E2J170170

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E97GV	001	2_VEW_10B_AV101602_0001	10/16/02	12:57
E97G6	002	2_VEW_15B_AV101602_0001	10/16/02	13:10
E97G9	003	2_VEW_11B_AV101602_0001	10/16/02	13:20
E97HH	004	2_VEW_19_AV101602_0001	10/16/02	13:28
E97HL	005	2_VEW_9_AV101602_0001	10/16/02	13:40
E97HR	006	GAC0002U_AV101602_0001	10/16/02	16:12

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.

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_10B_AV101602_0001

GC/MS Volatiles

Lot-Sample #...: E2J170170-001 **Work Order #...:** E97GV1AA **Matrix.....:** AA
Date Sampled...: 10/16/02 12:57 **Date Received..:** 10/16/02 19:00 **MS Run #.....:**
Prep Date.....: 10/17/02 **Analysis Date..:** 10/17/02
Prep Batch #...: 2291281 **Analysis Time..:** 14:47
Dilution Factor: 10
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**11**	**5.0**	**ppm(v/v)**	**1.0**
Dichlorodifluoromethane	ND	0.020	ppm(v/v)	0.0050
Chloromethane	ND	0.040	ppm(v/v)	0.010
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.020	ppm(v/v)	0.0080
Vinyl chloride	ND	0.020	ppm(v/v)	0.0080
Bromomethane	ND	0.020	ppm(v/v)	0.010
Chloroethane	ND	0.040	ppm(v/v)	0.0080
Trichlorofluoromethane	**0.013 J**	**0.020**	**ppm(v/v)**	**0.0050**
1,1-Dichloroethene	**0.72**	**0.020**	**ppm(v/v)**	**0.0050**
Carbon disulfide	ND	0.10	ppm(v/v)	0.020
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.020	ppm(v/v)	0.0050
Acetone	ND	0.10	ppm(v/v)	0.020
Methylene chloride	**0.017 J**	**0.020**	**ppm(v/v)**	**0.0080**
trans-1,2-Dichloroethene	ND	0.020	ppm(v/v)	0.0050
1,1-Dichloroethane	**0.027**	**0.020**	**ppm(v/v)**	**0.0050**
Vinyl acetate	ND	0.10	ppm(v/v)	0.020
cis-1,2-Dichloroethene	**0.023**	**0.020**	**ppm(v/v)**	**0.0080**
2-Butanone (MEK)	ND	0.10	ppm(v/v)	0.020
Chloroform	**1.5**	**0.020**	**ppm(v/v)**	**0.0080**
1,1,1-Trichloroethane	**0.056**	**0.020**	**ppm(v/v)**	**0.0050**
Carbon tetrachloride	**0.048**	**0.020**	**ppm(v/v)**	**0.0050**
Benzene	ND	0.020	ppm(v/v)	0.0080
1,2-Dichloroethane	ND	0.020	ppm(v/v)	0.0080
Trichloroethene	**3.9**	**0.020**	**ppm(v/v)**	**0.0060**
1,2-Dichloropropane	ND	0.020	ppm(v/v)	0.0080
Bromodichloromethane	ND	0.020	ppm(v/v)	0.0080
cis-1,3-Dichloropropene	ND	0.020	ppm(v/v)	0.0050
4-Methyl-2-pentanone (MIBK)	ND	0.10	ppm(v/v)	0.020
Toluene	ND	0.050	ppm(v/v)	0.0050
trans-1,3-Dichloropropene	ND	0.020	ppm(v/v)	0.0080
1,1,2-Trichloroethane	ND	0.020	ppm(v/v)	0.0060
Tetrachloroethene	**0.18**	**0.020**	**ppm(v/v)**	**0.0050**
2-Hexanone	ND	0.30	ppm(v/v)	0.010

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_10B_AV101602_0001

GC/MS Volatiles

Lot-Sample #...: E2J170170-001 **Work Order #...:** E97GV1AA **Matrix.....:** AA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.020	ppm(v/v)	0.0050
1,2-Dibromoethane (EDB)	ND	0.020	ppm(v/v)	0.0050
Chlorobenzene	ND	0.020	ppm(v/v)	0.0050
Ethylbenzene	ND	0.020	ppm(v/v)	0.0050
Xylenes (total)	ND	0.020	ppm(v/v)	0.0080
Styrene	ND	0.020	ppm(v/v)	0.0060
Bromoform	ND	0.020	ppm(v/v)	0.0050
1,1,2,2-Tetrachloroethane	ND	0.020	ppm(v/v)	0.0050
Benzyl chloride	ND	0.10	ppm(v/v)	0.0080
4-Ethyltoluene	ND	0.020	ppm(v/v)	0.0070
1,3,5-Trimethylbenzene	ND	0.020	ppm(v/v)	0.0080
1,2,4-Trimethylbenzene	ND	0.020	ppm(v/v)	0.0050
1,3-Dichlorobenzene	ND	0.020	ppm(v/v)	0.0060
1,4-Dichlorobenzene	ND	0.020	ppm(v/v)	0.0080
1,2-Dichlorobenzene	ND	0.020	ppm(v/v)	0.0080
1,2,4-Trichloro-benzene	ND	0.20	ppm(v/v)	0.0060
Hexachlorobutadiene	ND	0.040	ppm(v/v)	0.010
Methyl tert-butyl ether (MTBE)	**0.013 J**	**0.10**	**ppm(v/v)**	**0.0050**

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_10B_AV101602_0001

GC/MS Volatiles

Lot-Sample #: E2J170170-001 **Work Order #:** E97GV1AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_10B_AV101602_0001

GC Volatiles

Lot-Sample #...:	E2J170170-001	Work Order #...:	E97GV1AC	Matrix.....:	AA
Date Sampled...:	10/16/02 12:57	Date Received..:	10/16/02 19:00	MS Run #.....:	
Prep Date.....:	10/18/02	Analysis Date..:	10/18/02		
Prep Batch #...:	2291461	Analysis Time..:	14:21		
Dilution Factor:	1				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methane	0.00024	0.00020	%(v/v)	0.000080

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_15B_AV101602_0001

GC/MS Volatiles

Lot-Sample #...: E2J170170-002 **Work Order #...:** E97G61AA **Matrix.....:** AA
Date Sampled...: 10/16/02 13:10 **Date Received..:** 10/16/02 19:00 **MS Run #.....:**
Prep Date.....: 10/17/02 **Analysis Date..:** 10/17/02
Prep Batch #...: 2291281 **Analysis Time..:** 15:20
Dilution Factor: 6.25
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**10**	**3.1**	**ppm(v/v)**	**0.62**
Dichlorodifluoromethane	**0.036**	**0.012**	**ppm(v/v)**	**0.0031**
Chloromethane	ND	0.025	ppm(v/v)	0.0062
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.012	ppm(v/v)	0.0050
Vinyl chloride	ND	0.012	ppm(v/v)	0.0050
Bromomethane	ND	0.012	ppm(v/v)	0.0062
Chloroethane	ND	0.025	ppm(v/v)	0.0050
Trichlorofluoromethane	**0.022**	**0.012**	**ppm(v/v)**	**0.0031**
1,1-Dichloroethene	**0.44**	**0.012**	**ppm(v/v)**	**0.0031**
Carbon disulfide	ND	0.062	ppm(v/v)	0.012
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.0034 J**	**0.012**	**ppm(v/v)**	**0.0031**
Acetone	**0.012 J**	**0.062**	**ppm(v/v)**	**0.012**
Methylene chloride	**0.0071 J**	**0.012**	**ppm(v/v)**	**0.0050**
trans-1,2-Dichloroethene	ND	0.012	ppm(v/v)	0.0031
1,1-Dichloroethane	**0.0092 J**	**0.012**	**ppm(v/v)**	**0.0031**
Vinyl acetate	ND	0.062	ppm(v/v)	0.012
cis-1,2-Dichloroethene	**0.0081 J**	**0.012**	**ppm(v/v)**	**0.0050**
2-Butanone (MEK)	ND	0.062	ppm(v/v)	0.012
Chloroform	**0.32**	**0.012**	**ppm(v/v)**	**0.0050**
1,1,1-Trichloroethane	**0.023**	**0.012**	**ppm(v/v)**	**0.0031**
Carbon tetrachloride	**0.015**	**0.012**	**ppm(v/v)**	**0.0031**
Benzene	ND	0.012	ppm(v/v)	0.0050
1,2-Dichloroethane	ND	0.012	ppm(v/v)	0.0050
Trichloroethene	**2.7**	**0.012**	**ppm(v/v)**	**0.0038**
1,2-Dichloropropane	ND	0.012	ppm(v/v)	0.0050
Bromodichloromethane	ND	0.012	ppm(v/v)	0.0050
cis-1,3-Dichloropropene	ND	0.012	ppm(v/v)	0.0031
4-Methyl-2-pentanone (MIBK)	ND	0.062	ppm(v/v)	0.012
Toluene	**0.0035 J**	**0.031**	**ppm(v/v)**	**0.0031**
trans-1,3-Dichloropropene	ND	0.012	ppm(v/v)	0.0050
1,1,2-Trichloroethane	ND	0.012	ppm(v/v)	0.0038
Tetrachloroethene	**0.11**	**0.012**	**ppm(v/v)**	**0.0031**
2-Hexanone	ND	0.19	ppm(v/v)	0.0062

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_15B_AV101602_0001

GC/MS Volatiles

Lot-Sample #...: E2J170170-002 **Work Order #...:** E97G61AA **Matrix.....:** AA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.012	ppm(v/v)	0.0031
1,2-Dibromoethane (EDB)	ND	0.012	ppm(v/v)	0.0031
Chlorobenzene	ND	0.012	ppm(v/v)	0.0031
Ethylbenzene	ND	0.012	ppm(v/v)	0.0031
Xylenes (total)	ND	0.012	ppm(v/v)	0.0050
Styrene	ND	0.012	ppm(v/v)	0.0038
Bromoform	ND	0.012	ppm(v/v)	0.0031
1,1,2,2-Tetrachloroethane	ND	0.012	ppm(v/v)	0.0031
Benzyl chloride	ND	0.062	ppm(v/v)	0.0050
4-Ethyltoluene	ND	0.012	ppm(v/v)	0.0044
1,3,5-Trimethylbenzene	ND	0.012	ppm(v/v)	0.0050
1,2,4-Trimethylbenzene	ND	0.012	ppm(v/v)	0.0031
1,3-Dichlorobenzene	ND	0.012	ppm(v/v)	0.0038
1,4-Dichlorobenzene	ND	0.012	ppm(v/v)	0.0050
1,2-Dichlorobenzene	ND	0.012	ppm(v/v)	0.0050
1,2,4-Trichloro-benzene	ND	0.12	ppm(v/v)	0.0038
Hexachlorobutadiene	ND	0.025	ppm(v/v)	0.0062
Methyl tert-butyl ether (MTBE)	**0.016 J**	**0.062**	**ppm(v/v)**	**0.0031**

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_15B_AV101602_0001

GC/MS Volatiles

Lot-Sample #: E2J170170-002 **Work Order #:** E97G61AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
butane	106-97-8	0.072	M	2.6223	ppm(v/v)
butane, 2-methyl-	78-78-4	0.83	M	3.4798	ppm(v/v)
unknown branched alkane		0.050	M	7.6048	ppm(v/v)
unknown branched alkane		0.13	M	9.1844	ppm(v/v)
unknown branched alkane		0.24	M	9.6176	ppm(v/v)
cyclohexane, methyl-	108-87-2	0.061	M	10.926	ppm(v/v)

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_15B_AV101602_0001

GC Volatiles

Lot-Sample #...:	E2J170170-002	Work Order #...:	E97G61AC	Matrix.....:	AA
Date Sampled...:	10/16/02 13:10	Date Received..:	10/16/02 19:00	MS Run #.....:	
Prep Date.....:	10/18/02	Analysis Date..:	10/18/02		
Prep Batch #...:	2291461	Analysis Time..:	14:46		
Dilution Factor:	1				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methane	0.00020	0.00020	%(v/v)	0.000080

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_11B_AV101602_0001

GC/MS Volatiles

Lot-Sample #...: E2J170170-003 **Work Order #...:** E97G91AA **Matrix.....:** AA
Date Sampled...: 10/16/02 13:20 **Date Received..:** 10/16/02 19:00 **MS Run #.....:**
Prep Date.....: 10/17/02 **Analysis Date..:** 10/17/02
Prep Batch #...: 2291281 **Analysis Time..:** 16:01
Dilution Factor: 8.33
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**15**	**4.2**	**ppm(v/v)**	**0.83**
Dichlorodifluoromethane	ND	0.017	ppm(v/v)	0.0042
Chloromethane	ND	0.033	ppm(v/v)	0.0083
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.017	ppm(v/v)	0.0067
Vinyl chloride	ND	0.017	ppm(v/v)	0.0067
Bromomethane	ND	0.017	ppm(v/v)	0.0083
Chloroethane	ND	0.033	ppm(v/v)	0.0067
Trichlorofluoromethane	**0.051**	**0.017**	**ppm(v/v)**	**0.0042**
1,1-Dichloroethene	**2.9**	**0.017**	**ppm(v/v)**	**0.0042**
Carbon disulfide	ND	0.083	ppm(v/v)	0.017
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.010 J**	**0.017**	**ppm(v/v)**	**0.0042**
Acetone	ND	0.083	ppm(v/v)	0.017
Methylene chloride	**0.0074 J**	**0.017**	**ppm(v/v)**	**0.0067**
trans-1,2-Dichloroethene	**0.013 J**	**0.017**	**ppm(v/v)**	**0.0042**
1,1-Dichloroethane	**0.013 J**	**0.017**	**ppm(v/v)**	**0.0042**
Vinyl acetate	ND	0.083	ppm(v/v)	0.017
cis-1,2-Dichloroethene	**0.013 J**	**0.017**	**ppm(v/v)**	**0.0067**
2-Butanone (MEK)	ND	0.083	ppm(v/v)	0.017
Chloroform	**0.058**	**0.017**	**ppm(v/v)**	**0.0067**
1,1,1-Trichloroethane	**0.018**	**0.017**	**ppm(v/v)**	**0.0042**
Carbon tetrachloride	ND	0.017	ppm(v/v)	0.0042
Benzene	ND	0.017	ppm(v/v)	0.0067
1,2-Dichloroethane	ND	0.017	ppm(v/v)	0.0067
Trichloroethene	**3.5**	**0.017**	**ppm(v/v)**	**0.0050**
1,2-Dichloropropane	ND	0.017	ppm(v/v)	0.0067
Bromodichloromethane	ND	0.017	ppm(v/v)	0.0067
cis-1,3-Dichloropropene	ND	0.017	ppm(v/v)	0.0042
4-Methyl-2-pentanone (MIBK)	ND	0.083	ppm(v/v)	0.017
Toluene	**0.010 J**	**0.042**	**ppm(v/v)**	**0.0042**
trans-1,3-Dichloropropene	ND	0.017	ppm(v/v)	0.0067
1,1,2-Trichloroethane	ND	0.017	ppm(v/v)	0.0050
Tetrachloroethene	**0.14**	**0.017**	**ppm(v/v)**	**0.0042**
2-Hexanone	ND	0.25	ppm(v/v)	0.0083

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_11B_AV101602_0001

GC/MS Volatiles

Lot-Sample #...: E2J170170-003 **Work Order #...:** E97G91AA **Matrix.....:** AA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.017	ppm(v/v)	0.0042
1,2-Dibromoethane (EDB)	ND	0.017	ppm(v/v)	0.0042
Chlorobenzene	ND	0.017	ppm(v/v)	0.0042
Ethylbenzene	**0.0090 J**	**0.017**	**ppm(v/v)**	**0.0042**
Xylenes (total)	**0.066**	**0.017**	**ppm(v/v)**	**0.0067**
Styrene	ND	0.017	ppm(v/v)	0.0050
Bromoform	ND	0.017	ppm(v/v)	0.0042
1,1,2,2-Tetrachloroethane	ND	0.017	ppm(v/v)	0.0042
Benzyl chloride	ND	0.083	ppm(v/v)	0.0067
4-Ethyltoluene	**0.065**	**0.017**	**ppm(v/v)**	**0.0058**
1,3,5-Trimethylbenzene	**0.056**	**0.017**	**ppm(v/v)**	**0.0067**
1,2,4-Trimethylbenzene	**0.12**	**0.017**	**ppm(v/v)**	**0.0042**
1,3-Dichlorobenzene	ND	0.017	ppm(v/v)	0.0050
1,4-Dichlorobenzene	ND	0.017	ppm(v/v)	0.0067
1,2-Dichlorobenzene	ND	0.017	ppm(v/v)	0.0067
1,2,4-Trichloro-benzene	ND	0.17	ppm(v/v)	0.0050
Hexachlorobutadiene	ND	0.033	ppm(v/v)	0.0083
Methyl tert-butyl ether (MTBE)	**0.017 J**	**0.083**	**ppm(v/v)**	**0.0042**

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_11B_AV101602_0001

GC/MS Volatiles

Lot-Sample #: E2J170170-003 **Work Order #:** E97G91AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
unknown cycloalkane		0.083	M	14.537	ppm(v/v)
unknown cycloalkane		0.16	M	16.937	ppm(v/v)
unknown cycloalkane		0.15	M	17.154	ppm(v/v)
unknown branched alkane		0.12	M	19.158	ppm(v/v)
unknown cycloalkane		0.11	M	19.763	ppm(v/v)
unknown aromatic		0.13	M	20.692	ppm(v/v)
undecane	1120-21-4	0.16	M	20.945	ppm(v/v)
unknown aromatic		0.11	M	21.279	ppm(v/v)
unknown aromatic		0.092	M	22.66	ppm(v/v)

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_11B_AV101602_0001

GC Volatiles

Lot-Sample #...:	E2J170170-003	Work Order #...:	E97G91AC	Matrix.....:	AA
Date Sampled...:	10/16/02 13:20	Date Received..:	10/16/02 19:00	MS Run #.....:	
Prep Date.....:	10/18/02	Analysis Date..:	10/18/02		
Prep Batch #...:	2291461	Analysis Time..:	15:12		
Dilution Factor:	1				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methane	0.00023	0.00020	%(v/v)	0.000080

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_AV101602_0001

GC/MS Volatiles

Lot-Sample #...: E2J170170-004 **Work Order #...:** E97HH1AA **Matrix.....:** AA
Date Sampled...: 10/16/02 13:28 **Date Received..:** 10/16/02 19:00 **MS Run #.....:**
Prep Date.....: 10/17/02 **Analysis Date..:** 10/17/02
Prep Batch #...: 2291281 **Analysis Time..:** 16:36
Dilution Factor: 5
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**5.0**	**2.5**	**ppm(v/v)**	**0.50**
Dichlorodifluoromethane	ND	0.010	ppm(v/v)	0.0025
Chloromethane	ND	0.020	ppm(v/v)	0.0050
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.010	ppm(v/v)	0.0040
Vinyl chloride	ND	0.010	ppm(v/v)	0.0040
Bromomethane	ND	0.010	ppm(v/v)	0.0050
Chloroethane	ND	0.020	ppm(v/v)	0.0040
Trichlorofluoromethane	**0.075**	**0.010**	**ppm(v/v)**	**0.0025**
1,1-Dichloroethene	**0.55**	**0.010**	**ppm(v/v)**	**0.0025**
Carbon disulfide	ND	0.050	ppm(v/v)	0.010
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.0069 J**	**0.010**	**ppm(v/v)**	**0.0025**
Acetone	**0.012 J**	**0.050**	**ppm(v/v)**	**0.010**
Methylene chloride	ND	0.010	ppm(v/v)	0.0040
trans-1,2-Dichloroethene	ND	0.010	ppm(v/v)	0.0025
1,1-Dichloroethane	**0.033**	**0.010**	**ppm(v/v)**	**0.0025**
Vinyl acetate	ND	0.050	ppm(v/v)	0.010
cis-1,2-Dichloroethene	**0.0040 J**	**0.010**	**ppm(v/v)**	**0.0040**
2-Butanone (MEK)	ND	0.050	ppm(v/v)	0.010
Chloroform	**0.027**	**0.010**	**ppm(v/v)**	**0.0040**
1,1,1-Trichloroethane	**0.0063 J**	**0.010**	**ppm(v/v)**	**0.0025**
Carbon tetrachloride	ND	0.010	ppm(v/v)	0.0025
Benzene	ND	0.010	ppm(v/v)	0.0040
1,2-Dichloroethane	ND	0.010	ppm(v/v)	0.0040
Trichloroethene	**2.1**	**0.010**	**ppm(v/v)**	**0.0030**
1,2-Dichloropropane	ND	0.010	ppm(v/v)	0.0040
Bromodichloromethane	ND	0.010	ppm(v/v)	0.0040
cis-1,3-Dichloropropene	ND	0.010	ppm(v/v)	0.0025
4-Methyl-2-pentanone (MIBK)	ND	0.050	ppm(v/v)	0.010
Toluene	**0.0030 J**	**0.025**	**ppm(v/v)**	**0.0025**
trans-1,3-Dichloropropene	ND	0.010	ppm(v/v)	0.0040
1,1,2-Trichloroethane	ND	0.010	ppm(v/v)	0.0030
Tetrachloroethene	**0.14**	**0.010**	**ppm(v/v)**	**0.0025**
2-Hexanone	ND	0.15	ppm(v/v)	0.0050

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_AV101602_0001

GC/MS Volatiles

Lot-Sample #...: E2J170170-004 **Work Order #...:** E97HH1AA **Matrix.....:** AA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.010	ppm(v/v)	0.0025
1,2-Dibromoethane (EDB)	ND	0.010	ppm(v/v)	0.0025
Chlorobenzene	ND	0.010	ppm(v/v)	0.0025
Ethylbenzene	ND	0.010	ppm(v/v)	0.0025
Xylenes (total)	ND	0.010	ppm(v/v)	0.0040
Styrene	ND	0.010	ppm(v/v)	0.0030
Bromoform	ND	0.010	ppm(v/v)	0.0025
1,1,2,2-Tetrachloroethane	ND	0.010	ppm(v/v)	0.0025
Benzyl chloride	ND	0.050	ppm(v/v)	0.0040
4-Ethyltoluene	ND	0.010	ppm(v/v)	0.0035
1,3,5-Trimethylbenzene	ND	0.010	ppm(v/v)	0.0040
1,2,4-Trimethylbenzene	ND	0.010	ppm(v/v)	0.0025
1,3-Dichlorobenzene	ND	0.010	ppm(v/v)	0.0030
1,4-Dichlorobenzene	ND	0.010	ppm(v/v)	0.0040
1,2-Dichlorobenzene	ND	0.010	ppm(v/v)	0.0040
1,2,4-Trichloro-benzene	ND	0.10	ppm(v/v)	0.0030
Hexachlorobutadiene	ND	0.020	ppm(v/v)	0.0050
Methyl tert-butyl ether (MTBE)	**0.012 J**	**0.050**	**ppm(v/v)**	**0.0025**

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_19_AV101602_0001

GC/MS Volatiles

Lot-Sample #: E2J170170-004 **Work Order #:** E97HH1AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_AV101602_0001

GC Volatiles

Lot-Sample #...:	E2J170170-004	**Work Order #...:**	E97HH1AC	**Matrix.....:**	AA
Date Sampled...:	10/16/02 13:28	**Date Received..:**	10/16/02 19:00	**MS Run #.....:**	
Prep Date.....:	10/18/02	**Analysis Date..:**	10/18/02		
Prep Batch #...:	2291461	**Analysis Time..:**	12:15		
Dilution Factor:	1				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methane	ND	0.00020	%(v/v)	0.000080

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_9_AV101602_0001

GC/MS Volatiles

Lot-Sample #...: E2J170170-005 **Work Order #...:** E97HL1AA **Matrix.....:** AA
Date Sampled...: 10/16/02 13:40 **Date Received..:** 10/16/02 19:00 **MS Run #.....:**
Prep Date.....: 10/17/02 **Analysis Date..:** 10/17/02
Prep Batch #...: 2291281 **Analysis Time..:** 17:09
Dilution Factor: 4
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**4.0**	**2.0**	**ppm(v/v)**	**0.40**
Dichlorodifluoromethane	ND	0.0080	ppm(v/v)	0.0020
Chloromethane	ND	0.016	ppm(v/v)	0.0040
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.0080	ppm(v/v)	0.0032
Vinyl chloride	ND	0.0080	ppm(v/v)	0.0032
Bromomethane	ND	0.0080	ppm(v/v)	0.0040
Chloroethane	ND	0.016	ppm(v/v)	0.0032
Trichlorofluoromethane	**0.034**	**0.0080**	**ppm(v/v)**	**0.0020**
1,1-Dichloroethene	**0.24**	**0.0080**	**ppm(v/v)**	**0.0020**
Carbon disulfide	ND	0.040	ppm(v/v)	0.0080
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.0031 J**	**0.0080**	**ppm(v/v)**	**0.0020**
Acetone	ND	0.040	ppm(v/v)	0.0080
Methylene chloride	ND	0.0080	ppm(v/v)	0.0032
trans-1,2-Dichloroethene	ND	0.0080	ppm(v/v)	0.0020
1,1-Dichloroethane	**0.030**	**0.0080**	**ppm(v/v)**	**0.0020**
Vinyl acetate	ND	0.040	ppm(v/v)	0.0080
cis-1,2-Dichloroethene	**0.0056 J**	**0.0080**	**ppm(v/v)**	**0.0032**
2-Butanone (MEK)	ND	0.040	ppm(v/v)	0.0080
Chloroform	**0.021**	**0.0080**	**ppm(v/v)**	**0.0032**
1,1,1-Trichloroethane	**0.0049 J**	**0.0080**	**ppm(v/v)**	**0.0020**
Carbon tetrachloride	ND	0.0080	ppm(v/v)	0.0020
Benzene	ND	0.0080	ppm(v/v)	0.0032
1,2-Dichloroethane	ND	0.0080	ppm(v/v)	0.0032
Trichloroethene	**1.9**	**0.0080**	**ppm(v/v)**	**0.0024**
1,2-Dichloropropane	ND	0.0080	ppm(v/v)	0.0032
Bromodichloromethane	ND	0.0080	ppm(v/v)	0.0032
cis-1,3-Dichloropropene	ND	0.0080	ppm(v/v)	0.0020
4-Methyl-2-pentanone (MIBK)	ND	0.040	ppm(v/v)	0.0080
Toluene	**0.0062 J**	**0.020**	**ppm(v/v)**	**0.0020**
trans-1,3-Dichloropropene	ND	0.0080	ppm(v/v)	0.0032
1,1,2-Trichloroethane	ND	0.0080	ppm(v/v)	0.0024
Tetrachloroethene	**0.057**	**0.0080**	**ppm(v/v)**	**0.0020**
2-Hexanone	ND	0.12	ppm(v/v)	0.0040

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_9_AV101602_0001

GC/MS Volatiles

Lot-Sample #...: E2J170170-005 **Work Order #...:** E97HL1AA **Matrix.....:** AA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.0080	ppm(v/v)	0.0020
1,2-Dibromoethane (EDB)	ND	0.0080	ppm(v/v)	0.0020
Chlorobenzene	ND	0.0080	ppm(v/v)	0.0020
Ethylbenzene	ND	0.0080	ppm(v/v)	0.0020
Xylenes (total)	**0.0045 J**	**0.0080**	**ppm(v/v)**	**0.0032**
Styrene	ND	0.0080	ppm(v/v)	0.0024
Bromoform	ND	0.0080	ppm(v/v)	0.0020
1,1,2,2-Tetrachloroethane	ND	0.0080	ppm(v/v)	0.0020
Benzyl chloride	ND	0.040	ppm(v/v)	0.0032
4-Ethyltoluene	ND	0.0080	ppm(v/v)	0.0028
1,3,5-Trimethylbenzene	ND	0.0080	ppm(v/v)	0.0032
1,2,4-Trimethylbenzene	ND	0.0080	ppm(v/v)	0.0020
1,3-Dichlorobenzene	ND	0.0080	ppm(v/v)	0.0024
1,4-Dichlorobenzene	ND	0.0080	ppm(v/v)	0.0032
1,2-Dichlorobenzene	ND	0.0080	ppm(v/v)	0.0032
1,2,4-Trichloro-benzene	ND	0.080	ppm(v/v)	0.0024
Hexachlorobutadiene	ND	0.016	ppm(v/v)	0.0040
Methyl tert-butyl ether (MTBE)	**0.0095 J**	**0.040**	**ppm(v/v)**	**0.0020**

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_9_AV101602_0001

GC/MS Volatiles

Lot-Sample #: E2J170170-005 **Work Order #:** E97HL1AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_9_AV101602_0001

GC Volatiles

Lot-Sample #...:	E2J170170-005	Work Order #...:	E97HL1AC	Matrix.....:	AA
Date Sampled...:	10/16/02 13:40	Date Received..:	10/16/02 19:00	MS Run #.....:	
Prep Date.....:	10/18/02	Analysis Date..:	10/18/02		
Prep Batch #...:	2291461	Analysis Time..:	12:40		
Dilution Factor:	1				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methane	0.00011 J	0.00020	%(v/v)	0.000080

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: GAC0002U_AV101602_0001

GC/MS Volatiles

Lot-Sample #...: E2J170170-006 **Work Order #...:** E97HR1AA **Matrix.....:** AA
Date Sampled...: 10/16/02 16:12 **Date Received..:** 10/16/02 19:00 **MS Run #.....:**
Prep Date.....: 10/17/02 **Analysis Date..:** 10/17/02
Prep Batch #...: 2291281 **Analysis Time..:** 17:43
Dilution Factor: 3.33
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**4.8**	**1.7**	**ppm(v/v)**	**0.33**
Dichlorodifluoromethane	**0.0032 J**	**0.0067**	**ppm(v/v)**	**0.0017**
Chloromethane	ND	0.013	ppm(v/v)	0.0033
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.0067	ppm(v/v)	0.0027
Vinyl chloride	ND	0.0067	ppm(v/v)	0.0027
Bromomethane	ND	0.0067	ppm(v/v)	0.0033
Chloroethane	ND	0.013	ppm(v/v)	0.0027
Trichlorofluoromethane	**0.019**	**0.0067**	**ppm(v/v)**	**0.0017**
1,1-Dichloroethene	**0.39**	**0.0067**	**ppm(v/v)**	**0.0017**
Carbon disulfide	ND	0.033	ppm(v/v)	0.0067
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.0032 J**	**0.0067**	**ppm(v/v)**	**0.0017**
Acetone	**0.0074 J**	**0.033**	**ppm(v/v)**	**0.0067**
Methylene chloride	**0.0032 J**	**0.0067**	**ppm(v/v)**	**0.0027**
trans-1,2-Dichloroethene	ND	0.0067	ppm(v/v)	0.0017
1,1-Dichloroethane	**0.013**	**0.0067**	**ppm(v/v)**	**0.0017**
Vinyl acetate	ND	0.033	ppm(v/v)	0.0067
cis-1,2-Dichloroethene	**0.0073**	**0.0067**	**ppm(v/v)**	**0.0027**
2-Butanone (MEK)	ND	0.033	ppm(v/v)	0.0067
Chloroform	**0.33**	**0.0067**	**ppm(v/v)**	**0.0027**
1,1,1-Trichloroethane	**0.017**	**0.0067**	**ppm(v/v)**	**0.0017**
Carbon tetrachloride	**0.014**	**0.0067**	**ppm(v/v)**	**0.0017**
Benzene	**0.0032 J**	**0.0067**	**ppm(v/v)**	**0.0027**
1,2-Dichloroethane	ND	0.0067	ppm(v/v)	0.0027
Trichloroethene	**1.7**	**0.0067**	**ppm(v/v)**	**0.0020**
1,2-Dichloropropane	ND	0.0067	ppm(v/v)	0.0027
Bromodichloromethane	ND	0.0067	ppm(v/v)	0.0027
cis-1,3-Dichloropropene	ND	0.0067	ppm(v/v)	0.0017
4-Methyl-2-pentanone (MIBK)	ND	0.033	ppm(v/v)	0.0067
Toluene	**0.0087 J**	**0.017**	**ppm(v/v)**	**0.0017**
trans-1,3-Dichloropropene	ND	0.0067	ppm(v/v)	0.0027
1,1,2-Trichloroethane	ND	0.0067	ppm(v/v)	0.0020
Tetrachloroethene	**0.10**	**0.0067**	**ppm(v/v)**	**0.0017**
2-Hexanone	ND	0.10	ppm(v/v)	0.0033

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HALEY & ALDRICH INC

Client Sample ID: GAC0002U_AV101602_0001

GC/MS Volatiles

Lot-Sample #...: E2J170170-006 **Work Order #...:** E97HR1AA **Matrix.....:** AA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.0067	ppm(v/v)	0.0017
1,2-Dibromoethane (EDB)	ND	0.0067	ppm(v/v)	0.0017
Chlorobenzene	ND	0.0067	ppm(v/v)	0.0017
Ethylbenzene	**0.0019 J**	**0.0067**	**ppm(v/v)**	**0.0017**
Xylenes (total)	**0.0093**	**0.0067**	**ppm(v/v)**	**0.0027**
Styrene	ND	0.0067	ppm(v/v)	0.0020
Bromoform	ND	0.0067	ppm(v/v)	0.0017
1,1,2,2-Tetrachloroethane	ND	0.0067	ppm(v/v)	0.0017
Benzyl chloride	ND	0.033	ppm(v/v)	0.0027
4-Ethyltoluene	**0.0026 J**	**0.0067**	**ppm(v/v)**	**0.0023**
1,3,5-Trimethylbenzene	ND	0.0067	ppm(v/v)	0.0027
1,2,4-Trimethylbenzene	**0.0023 J**	**0.0067**	**ppm(v/v)**	**0.0017**
1,3-Dichlorobenzene	ND	0.0067	ppm(v/v)	0.0020
1,4-Dichlorobenzene	ND	0.0067	ppm(v/v)	0.0027
1,2-Dichlorobenzene	ND	0.0067	ppm(v/v)	0.0027
1,2,4-Trichloro-benzene	ND	0.067	ppm(v/v)	0.0020
Hexachlorobutadiene	ND	0.013	ppm(v/v)	0.0033
Methyl tert-butyl ether (MTBE)	**0.011 J**	**0.033**	**ppm(v/v)**	**0.0017**

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

GAC0002U_AV101602_0001

GC/MS Volatiles

Lot-Sample #: E2J170170-006 **Work Order #:** E97HR1AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: GAC0002U_AV101602_0001

GC Volatiles

Lot-Sample #...:	E2J170170-006	Work Order #...:	E97HR1AC	Matrix.....:	AA
Date Sampled...:	10/16/02 16:12	Date Received..:	10/16/02 19:00	MS Run #.....:	
Prep Date.....:	10/18/02	Analysis Date..:	10/18/02		
Prep Batch #...:	2291461	Analysis Time..:	13:05		
Dilution Factor:	1				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methane	0.00021	0.00020	%(v/v)	0.000080

QC DATA ASSOCIATION SUMMARY

E2J170170

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AA	ASTM D1946		2291461	
	AA	EPA-21 TO-14A		2291281	
002	AA	ASTM D1946		2291461	
	AA	EPA-21 TO-14A		2291281	
003	AA	ASTM D1946		2291461	
	AA	EPA-21 TO-14A		2291281	
004	AA	ASTM D1946		2291461	
	AA	EPA-21 TO-14A		2291281	
005	AA	ASTM D1946		2291461	
	AA	EPA-21 TO-14A		2291281	
006	AA	ASTM D1946		2291461	
	AA	EPA-21 TO-14A		2291281	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2J170170 **Work Order #...:** E999T1AA **Matrix.....:** AIR
MB Lot-Sample #: M2J180000-281

Prep Date.....: 10/17/02 **Analysis Time..:** 12:01
Analysis Date..: 10/17/02 **Prep Batch #...:** 2291281 **Instrument ID..:** MSB
Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Non-Methane Hydroca	ND	0.50	ppm(v/v)	EPA-21 TO-14A
Dichlorodifluoromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chloromethane	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Vinyl chloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromomethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chloroethane	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Carbon disulfide	ND	0.010	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Acetone	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Methylene chloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
trans-1,2-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Vinyl acetate	ND	0.010	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
2-Butanone (MEK)	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Chloroform	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Carbon tetrachloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Benzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloropropane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromodichloromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
cis-1,3-Dichloropropene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
4-Methyl-2-pentanone (MIBK)	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Toluene	ND	0.0050	ppm(v/v)	EPA-21 TO-14A
trans-1,3-Dichloropropene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
2-Hexanone	ND	0.030	ppm(v/v)	EPA-21 TO-14A
Dibromochloromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dibromoethane (EDB)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2J170170 **Work Order #...:** E999T1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Xylenes (total)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Styrene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromoform	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Benzyl chloride	ND	0.010	ppm(v/v)	EPA-21 TO-14A
4-Ethyltoluene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,3,5-Trimethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,3-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,4-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trichloro-benzene	ND	0.020	ppm(v/v)	EPA-21 TO-14A
Hexachlorobutadiene	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	ND	0.010	ppm(v/v)	EPA-21 TO-14A

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E2J170170 **Work Order #...:** FACTW1AA **Matrix.....:** AIR
MB Lot-Sample #: M2J180000-461

Prep Date.....: 10/18/02 **Analysis Time..:** 11:49
Analysis Date..: 10/18/02 **Prep Batch #...:** 2291461 **Instrument ID..:** GC3
Dilution Factor: 1

Analyst ID.....: 101605

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methane	ND	0.00020	%(v/v)	ASTM D1946

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2J170170 Work Order #...: E999T1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M2J180000-281 E999T1AD-LCSD
Prep Date.....: 10/17/02 Analysis Date..: 10/17/02
Prep Batch #...: 2291281 Analysis Time..: 10:54
Dilution Factor: 1 Instrument ID..: MSB
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	115	(70 - 125)			EPA-21 TO-14A
	115	(70 - 125)	0.33	(0-20)	EPA-21 TO-14A
Methylene chloride	99	(75 - 120)			EPA-21 TO-14A
	100	(75 - 120)	1.0	(0-20)	EPA-21 TO-14A
Trichloroethene	100	(80 - 125)			EPA-21 TO-14A
	101	(80 - 125)	1.4	(0-20)	EPA-21 TO-14A
Toluene	104	(70 - 120)			EPA-21 TO-14A
	103	(70 - 120)	0.86	(0-20)	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	95	(70 - 130)			EPA-21 TO-14A
	98	(70 - 130)	3.4	(0-20)	EPA-21 TO-14A

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 #...: E2J170170 **Work Order #...:** E999T1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M2J180000-281 E999T1AD-LCSD
Prep Date.....: 10/17/02 **Analysis Date..:** 10/17/02
Prep Batch #...: 2291281 **Analysis Time..:** 10:54
Dilution Factor: 1 **Instrument ID..:** MSB
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	0.0591	0.0681	ppm(v/v)	115		EPA-21 TO-14A
	0.0591	0.0678	ppm(v/v)	115	0.33	EPA-21 TO-14A
Methylene chloride	0.0587	0.0579	ppm(v/v)	99		EPA-21 TO-14A
	0.0587	0.0585	ppm(v/v)	100	1.0	EPA-21 TO-14A
Trichloroethene	0.0595	0.0594	ppm(v/v)	100		EPA-21 TO-14A
	0.0595	0.0602	ppm(v/v)	101	1.4	EPA-21 TO-14A
Toluene	0.0557	0.0580	ppm(v/v)	104		EPA-21 TO-14A
	0.0557	0.0576	ppm(v/v)	103	0.86	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	0.0554	0.0524	ppm(v/v)	95		EPA-21 TO-14A
	0.0554	0.0542	ppm(v/v)	98	3.4	EPA-21 TO-14A

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 Volatiles

Client Lot #...: E2J170170 **Work Order #...:** FACTW1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M2J180000-461 FACTW1AD-LCSD
Prep Date.....: 10/18/02 **Analysis Date..:** 10/18/02
Prep Batch #...: 2291461 **Analysis Time..:** 10:59
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Carbon dioxide	**100**	**(75 - 125)**			**ASTM D1946**
	101	**(75 - 125)**	**0.49**	**(0-20)**	**ASTM D1946**
Methane	**101**	**(60 - 120)**			**ASTM D1946**
	101	**(60 - 120)**	**0.36**	**(0-20)**	**ASTM D1946**

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 Volatiles

Client Lot #...: E2J170170 **Work Order #...:** FACTW1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M2J180000-461 FACTW1AD-LCSD
Prep Date.....: 10/18/02 **Analysis Date..:** 10/18/02
Prep Batch #...: 2291461 **Analysis Time..:** 10:59
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	**1.00**	**1.00**	**%(v/v)**	**100**		**ASTM D1946**
	1.00	**1.01**	**%(v/v)**	**101**	**0.49**	**ASTM D1946**
Methane	**0.0500**	**0.0506**	**%(v/v)**	**101**		**ASTM D1946**
	0.0500	**0.0504**	**%(v/v)**	**101**	**0.36**	**ASTM D1946**

NOTE(S):

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

Bold print denotes control parameters

EXECUTIVE SUMMARY - Detection Highlights

E2K080194

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GAC002E_AV110702_0001 11/07/02 15:15 001				
Total Non-Methane Hydrocarbons	1.4	0.50	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	0.0065	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.38	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0021	0.0020	ppm(v/v)	EPA-21 TO-14A
Acetone	0.0039 J	0.010	ppm(v/v)	EPA-21 TO-14A
Methylene chloride	0.0023	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.015	0.0020	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.0082	0.0020	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.80	0.020	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.029	0.0020	ppm(v/v)	EPA-21 TO-14A
Carbon tetrachloride	0.0042	0.0020	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	0.0071	0.0020	ppm(v/v)	EPA-21 TO-14A
Toluene	0.0025 J	0.0050	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.00085 J	0.0020	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	0.00052 J	0.0020	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	0.0029	0.0020	ppm(v/v)	EPA-21 TO-14A
4-Ethyltoluene	0.0015 J	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	0.0021	0.0020	ppm(v/v)	EPA-21 TO-14A
GAC002U_AV110702_0001 11/07/02 15:20 002				
Total Non-Methane Hydrocarbons	6.9	5.0	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	0.0076 J	0.020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.36	0.020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.014 J	0.020	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.014 J	0.020	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.69	0.020	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.051	0.020	ppm(v/v)	EPA-21 TO-14A
Carbon tetrachloride	0.019 J	0.020	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	3.0	0.020	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.091	0.020	ppm(v/v)	EPA-21 TO-14A
GAC002D_AV110702_0001 11/07/02 15:25 003				
Total Non-Methane Hydrocarbons	4.5	2.5	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	0.0066 J	0.010	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.29	0.010	ppm(v/v)	EPA-21 TO-14A
Acetone	0.016 J	0.050	ppm(v/v)	EPA-21 TO-14A
Methylene chloride	0.0040 J	0.010	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.011	0.010	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.011	0.010	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.52	0.010	ppm(v/v)	EPA-21 TO-14A

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EXECUTIVE SUMMARY - Detection Highlights

E2K080194

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GAC002D_AV110702_0001 11/07/02 15:25	003			
1,1,1-Trichloroethane	0.039	0.010	ppm(v/v)	EPA-21 TO-14A
Carbon tetrachloride	0.015	0.010	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	2.0	0.010	ppm(v/v)	EPA-21 TO-14A
Toluene	0.011 J	0.025	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.050	0.010	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	0.013	0.010	ppm(v/v)	EPA-21 TO-14A
4-Ethyltoluene	0.0053 J	0.010	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	0.0059 J	0.010	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.0078 J	0.050	ppm(v/v)	EPA-21 TO-14A

METHODS SUMMARY

E2K080194

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by TO-14A	EPA-21 TO-14A	

References:

EPA-21 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", Second Edition, EPA/625/R-96/010b, January 1999

SAMPLE SUMMARY

E2K080194

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
FCNWW	001	GAC002E_AV110702_0001	11/07/02	15:15
FCNW6	002	GAC002U_AV110702_0001	11/07/02	15:20
FCNW8	003	GAC002D_AV110702_0001	11/07/02	15:25

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.

HALEY & ALDRICH INC

Client Sample ID: GAC002E_AV110702_0001

GC/MS Volatiles

Lot-Sample #...: E2K080194-001 **Work Order #...:** FCNWW1AA **Matrix.....:** AA
Date Sampled...: 11/07/02 15:15 **Date Received..:** 11/08/02 09:55 **MS Run #.....:**
Prep Date.....: 11/08/02 **Analysis Date..:** 11/08/02
Prep Batch #...: 2316492 **Analysis Time..:** 22:38
Dilution Factor: 1
Analyst ID.....: 117751 **Instrument ID..:** MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**1.4**	**0.50**	**ppm(v/v)**	**0.10**
Dichlorodifluoromethane	ND	0.0020	ppm(v/v)	0.00050
Chloromethane	ND	0.0040	ppm(v/v)	0.0010
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.0020	ppm(v/v)	0.00080
Vinyl chloride	ND	0.0020	ppm(v/v)	0.00080
Bromomethane	ND	0.0020	ppm(v/v)	0.0010
Chloroethane	ND	0.0040	ppm(v/v)	0.00080
Trichlorofluoromethane	**0.0065**	**0.0020**	**ppm(v/v)**	**0.00050**
1,1-Dichloroethene	**0.38**	**0.0020**	**ppm(v/v)**	**0.00050**
Carbon disulfide	ND	0.010	ppm(v/v)	0.0020
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.0021**	**0.0020**	**ppm(v/v)**	**0.00050**
Acetone	**0.0039 J**	**0.010**	**ppm(v/v)**	**0.0020**
Methylene chloride	**0.0023**	**0.0020**	**ppm(v/v)**	**0.00080**
trans-1,2-Dichloroethene	ND	0.0020	ppm(v/v)	0.00050
1,1-Dichloroethane	**0.015**	**0.0020**	**ppm(v/v)**	**0.00050**
Vinyl acetate	ND	0.010	ppm(v/v)	0.0020
cis-1,2-Dichloroethene	**0.0082**	**0.0020**	**ppm(v/v)**	**0.00080**
2-Butanone (MEK)	ND	0.010	ppm(v/v)	0.0020
1,1,1-Trichloroethane	**0.029**	**0.0020**	**ppm(v/v)**	**0.00050**
Carbon tetrachloride	**0.0042**	**0.0020**	**ppm(v/v)**	**0.00050**
Benzene	ND	0.0020	ppm(v/v)	0.00080
1,2-Dichloroethane	ND	0.0020	ppm(v/v)	0.00080
Trichloroethene	**0.0071**	**0.0020**	**ppm(v/v)**	**0.00060**
1,2-Dichloropropane	ND	0.0020	ppm(v/v)	0.00080
Bromodichloromethane	ND	0.0020	ppm(v/v)	0.00080
cis-1,3-Dichloropropene	ND	0.0020	ppm(v/v)	0.00050
4-Methyl-2-pentanone (MIBK)	ND	0.010	ppm(v/v)	0.0020
Toluene	**0.0025 J**	**0.0050**	**ppm(v/v)**	**0.00050**
trans-1,3-Dichloropropene	ND	0.0020	ppm(v/v)	0.00080
1,1,2-Trichloroethane	ND	0.0020	ppm(v/v)	0.00060
Tetrachloroethene	**0.00085 J**	**0.0020**	**ppm(v/v)**	**0.00050**
2-Hexanone	ND	0.030	ppm(v/v)	0.0010
Dibromochloromethane	ND	0.0020	ppm(v/v)	0.00050

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HALEY & ALDRICH INC

Client Sample ID: GAC002E_AV110702_0001

GC/MS Volatiles

Lot-Sample #...: E2K080194-001 **Work Order #...:** FCNWW1AA **Matrix.....:** AA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2-Dibromoethane (EDB)	ND	0.0020	ppm(v/v)	0.00050
Chlorobenzene	ND	0.0020	ppm(v/v)	0.00050
Ethylbenzene	**0.00052 J**	**0.0020**	**ppm(v/v)**	**0.00050**
Xylenes (total)	**0.0029**	**0.0020**	**ppm(v/v)**	**0.00080**
Styrene	ND	0.0020	ppm(v/v)	0.00060
Bromoform	ND	0.0020	ppm(v/v)	0.00050
1,1,2,2-Tetrachloroethane	ND	0.0020	ppm(v/v)	0.00050
Benzyl chloride	ND	0.010	ppm(v/v)	0.00080
4-Ethyltoluene	**0.0015 J**	**0.0020**	**ppm(v/v)**	**0.00070**
1,3,5-Trimethylbenzene	ND	0.0020	ppm(v/v)	0.00080
1,2,4-Trimethylbenzene	**0.0021**	**0.0020**	**ppm(v/v)**	**0.00050**
1,3-Dichlorobenzene	ND	0.0020	ppm(v/v)	0.00060
1,4-Dichlorobenzene	ND	0.0020	ppm(v/v)	0.00080
1,2-Dichlorobenzene	ND	0.0020	ppm(v/v)	0.00080
1,2,4-Trichloro-benzene	ND	0.020	ppm(v/v)	0.00060
Hexachlorobutadiene	ND	0.0040	ppm(v/v)	0.0010
Methyl tert-butyl ether (MTBE)	ND	0.010	ppm(v/v)	0.00050

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

GAC002E_AV110702_0001

GC/MS Volatiles

Lot-Sample #: E2K080194-001 **Work Order #:** FCNWW1AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
butane, 2-methyl-	78-78-4	0.035	M	3.7921	ppm(v/v)

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

HALEY & ALDRICH INC

Client Sample ID: GAC002E_AV110702_0001

GC/MS Volatiles

Lot-Sample #...:	E2K080194-001	Work Order #...:	FCNWW2AA	Matrix.....:	AA
Date Sampled...:	11/07/02 15:15	Date Received..:	11/08/02 09:55	MS Run #.....:	
Prep Date.....:	11/09/02	Analysis Date..:	11/09/02		
Prep Batch #...:	2316495	Analysis Time..:	17:11		
Dilution Factor:	10				
Analyst ID.....:	117751	Instrument ID..:	MSA		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloroform	0.80	0.020	ppm(v/v)	0.0080

HALEY & ALDRICH INC

Client Sample ID: GAC002U_AV110702_0001

GC/MS Volatiles

Lot-Sample #...: E2K080194-002 **Work Order #...:** FCNW61AA **Matrix.....:** AA
Date Sampled...: 11/07/02 15:20 **Date Received..:** 11/08/02 09:55 **MS Run #.....:**
Prep Date.....: 11/08/02 **Analysis Date..:** 11/08/02
Prep Batch #...: 2316492 **Analysis Time..:** 23:12
Dilution Factor: 10
Analyst ID.....: 117751 **Instrument ID..:** MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**6.9**	**5.0**	**ppm(v/v)**	**1.0**
Dichlorodifluoromethane	ND	0.020	ppm(v/v)	0.0050
Chloromethane	ND	0.040	ppm(v/v)	0.010
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.020	ppm(v/v)	0.0080
Vinyl chloride	ND	0.020	ppm(v/v)	0.0080
Bromomethane	ND	0.020	ppm(v/v)	0.010
Chloroethane	ND	0.040	ppm(v/v)	0.0080
Trichlorofluoromethane	**0.0076 J**	**0.020**	**ppm(v/v)**	**0.0050**
1,1-Dichloroethene	**0.36**	**0.020**	**ppm(v/v)**	**0.0050**
Carbon disulfide	ND	0.10	ppm(v/v)	0.020
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.020	ppm(v/v)	0.0050
Acetone	ND	0.10	ppm(v/v)	0.020
Methylene chloride	ND	0.020	ppm(v/v)	0.0080
trans-1,2-Dichloroethene	ND	0.020	ppm(v/v)	0.0050
1,1-Dichloroethane	**0.014 J**	**0.020**	**ppm(v/v)**	**0.0050**
Vinyl acetate	ND	0.10	ppm(v/v)	0.020
cis-1,2-Dichloroethene	**0.014 J**	**0.020**	**ppm(v/v)**	**0.0080**
2-Butanone (MEK)	ND	0.10	ppm(v/v)	0.020
Chloroform	**0.69**	**0.020**	**ppm(v/v)**	**0.0080**
1,1,1-Trichloroethane	**0.051**	**0.020**	**ppm(v/v)**	**0.0050**
Carbon tetrachloride	**0.019 J**	**0.020**	**ppm(v/v)**	**0.0050**
Benzene	ND	0.020	ppm(v/v)	0.0080
1,2-Dichloroethane	ND	0.020	ppm(v/v)	0.0080
Trichloroethene	**3.0**	**0.020**	**ppm(v/v)**	**0.0060**
1,2-Dichloropropane	ND	0.020	ppm(v/v)	0.0080
Bromodichloromethane	ND	0.020	ppm(v/v)	0.0080
cis-1,3-Dichloropropene	ND	0.020	ppm(v/v)	0.0050
4-Methyl-2-pentanone (MIBK)	ND	0.10	ppm(v/v)	0.020
Toluene	ND	0.050	ppm(v/v)	0.0050
trans-1,3-Dichloropropene	ND	0.020	ppm(v/v)	0.0080
1,1,2-Trichloroethane	ND	0.020	ppm(v/v)	0.0060
Tetrachloroethene	**0.091**	**0.020**	**ppm(v/v)**	**0.0050**
2-Hexanone	ND	0.30	ppm(v/v)	0.010

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HALEY & ALDRICH INC

Client Sample ID: GAC002U_AV110702_0001

GC/MS Volatiles

Lot-Sample #...: E2K080194-002 **Work Order #...:** FCNW61AA **Matrix.....:** AA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.020	ppm(v/v)	0.0050
1,2-Dibromoethane (EDB)	ND	0.020	ppm(v/v)	0.0050
Chlorobenzene	ND	0.020	ppm(v/v)	0.0050
Ethylbenzene	ND	0.020	ppm(v/v)	0.0050
Xylenes (total)	ND	0.020	ppm(v/v)	0.0080
Styrene	ND	0.020	ppm(v/v)	0.0060
Bromoform	ND	0.020	ppm(v/v)	0.0050
1,1,2,2-Tetrachloroethane	ND	0.020	ppm(v/v)	0.0050
Benzyl chloride	ND	0.10	ppm(v/v)	0.0080
4-Ethyltoluene	ND	0.020	ppm(v/v)	0.0070
1,3,5-Trimethylbenzene	ND	0.020	ppm(v/v)	0.0080
1,2,4-Trimethylbenzene	ND	0.020	ppm(v/v)	0.0050
1,3-Dichlorobenzene	ND	0.020	ppm(v/v)	0.0060
1,4-Dichlorobenzene	ND	0.020	ppm(v/v)	0.0080
1,2-Dichlorobenzene	ND	0.020	ppm(v/v)	0.0080
1,2,4-Trichloro-benzene	ND	0.20	ppm(v/v)	0.0060
Hexachlorobutadiene	ND	0.040	ppm(v/v)	0.010
Methyl tert-butyl ether (MTBE)	ND	0.10	ppm(v/v)	0.0050

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

GAC002U_AV110702_0001

GC/MS Volatiles

Lot-Sample #: E2K080194-002 **Work Order #:** FCNW61AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: GAC002D_AV110702_0001

GC/MS Volatiles

Lot-Sample #...: E2K080194-003 **Work Order #...:** FCNW81AA **Matrix.....:** AA
Date Sampled...: 11/07/02 15:25 **Date Received..:** 11/08/02 09:55 **MS Run #.....:**
Prep Date.....: 11/09/02 **Analysis Date..:** 11/09/02
Prep Batch #...: 2316495 **Analysis Time..:** 17:44
Dilution Factor: 5
Analyst ID.....: 117751 **Instrument ID..:** MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**4.5**	**2.5**	**ppm(v/v)**	**0.50**
Dichlorodifluoromethane	ND	0.010	ppm(v/v)	0.0025
Chloromethane	ND	0.020	ppm(v/v)	0.0050
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.010	ppm(v/v)	0.0040
Vinyl chloride	ND	0.010	ppm(v/v)	0.0040
Bromomethane	ND	0.010	ppm(v/v)	0.0050
Chloroethane	ND	0.020	ppm(v/v)	0.0040
Trichlorofluoromethane	**0.0066 J**	**0.010**	**ppm(v/v)**	**0.0025**
1,1-Dichloroethene	**0.29**	**0.010**	**ppm(v/v)**	**0.0025**
Carbon disulfide	ND	0.050	ppm(v/v)	0.010
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.010	ppm(v/v)	0.0025
Acetone	**0.016 J**	**0.050**	**ppm(v/v)**	**0.010**
Methylene chloride	**0.0040 J**	**0.010**	**ppm(v/v)**	**0.0040**
trans-1,2-Dichloroethene	ND	0.010	ppm(v/v)	0.0025
1,1-Dichloroethane	**0.011**	**0.010**	**ppm(v/v)**	**0.0025**
Vinyl acetate	ND	0.050	ppm(v/v)	0.010
cis-1,2-Dichloroethene	**0.011**	**0.010**	**ppm(v/v)**	**0.0040**
2-Butanone (MEK)	ND	0.050	ppm(v/v)	0.010
Chloroform	**0.52**	**0.010**	**ppm(v/v)**	**0.0040**
1,1,1-Trichloroethane	**0.039**	**0.010**	**ppm(v/v)**	**0.0025**
Carbon tetrachloride	**0.015**	**0.010**	**ppm(v/v)**	**0.0025**
Benzene	ND	0.010	ppm(v/v)	0.0040
1,2-Dichloroethane	ND	0.010	ppm(v/v)	0.0040
Trichloroethene	**2.0**	**0.010**	**ppm(v/v)**	**0.0030**
1,2-Dichloropropane	ND	0.010	ppm(v/v)	0.0040
Bromodichloromethane	ND	0.010	ppm(v/v)	0.0040
cis-1,3-Dichloropropene	ND	0.010	ppm(v/v)	0.0025
4-Methyl-2-pentanone (MIBK)	ND	0.050	ppm(v/v)	0.010
Toluene	**0.011 J**	**0.025**	**ppm(v/v)**	**0.0025**
trans-1,3-Dichloropropene	ND	0.010	ppm(v/v)	0.0040
1,1,2-Trichloroethane	ND	0.010	ppm(v/v)	0.0030
Tetrachloroethene	**0.050**	**0.010**	**ppm(v/v)**	**0.0025**
2-Hexanone	ND	0.15	ppm(v/v)	0.0050

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HALEY & ALDRICH INC

Client Sample ID: GAC002D_AV110702_0001

GC/MS Volatiles

Lot-Sample #...: E2K080194-003 **Work Order #...:** FCNW81AA **Matrix.....:** AA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.010	ppm(v/v)	0.0025
1,2-Dibromoethane (EDB)	ND	0.010	ppm(v/v)	0.0025
Chlorobenzene	ND	0.010	ppm(v/v)	0.0025
Ethylbenzene	ND	0.010	ppm(v/v)	0.0025
Xylenes (total)	**0.013**	**0.010**	**ppm(v/v)**	**0.0040**
Styrene	ND	0.010	ppm(v/v)	0.0030
Bromoform	ND	0.010	ppm(v/v)	0.0025
1,1,2,2-Tetrachloroethane	ND	0.010	ppm(v/v)	0.0025
Benzyl chloride	ND	0.050	ppm(v/v)	0.0040
4-Ethyltoluene	**0.0053 J**	**0.010**	**ppm(v/v)**	**0.0035**
1,3,5-Trimethylbenzene	ND	0.010	ppm(v/v)	0.0040
1,2,4-Trimethylbenzene	**0.0059 J**	**0.010**	**ppm(v/v)**	**0.0025**
1,3-Dichlorobenzene	ND	0.010	ppm(v/v)	0.0030
1,4-Dichlorobenzene	ND	0.010	ppm(v/v)	0.0040
1,2-Dichlorobenzene	ND	0.010	ppm(v/v)	0.0040
1,2,4-Trichloro-benzene	ND	0.10	ppm(v/v)	0.0030
Hexachlorobutadiene	ND	0.020	ppm(v/v)	0.0050
Methyl tert-butyl ether (MTBE)	**0.0078 J**	**0.050**	**ppm(v/v)**	**0.0025**

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

GAC002D_AV110702_0001

GC/MS Volatiles

Lot-Sample #: E2K080194-003 **Work Order #:** FCNW81AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

QC DATA ASSOCIATION SUMMARY

E2K080194

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AA	EPA-21 TO-14A		2316492	
	AA	EPA-21 TO-14A		2316495	
002	AA	EPA-21 TO-14A		2316492	
003	AA	EPA-21 TO-14A		2316495	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2K080194 **Work Order #...:** FCX5L1AA **Matrix.....:** AIR
MB Lot-Sample #: M2K120000-492

Prep Date.....: 11/08/02 **Analysis Time..:** 11:23
Analysis Date..: 11/08/02 **Prep Batch #...:** 2316492 **Instrument ID..:** MSA
Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Non-Methane Hydroca	ND	0.50	ppm(v/v)	EPA-21 TO-14A
Dichlorodifluoromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chloromethane	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Vinyl chloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromomethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chloroethane	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Carbon disulfide	ND	0.010	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Acetone	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Methylene chloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
trans-1,2-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Vinyl acetate	ND	0.010	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
2-Butanone (MEK)	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Chloroform	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Carbon tetrachloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Benzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloropropane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromodichloromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
cis-1,3-Dichloropropene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
4-Methyl-2-pentanone (MIBK)	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Toluene	ND	0.0050	ppm(v/v)	EPA-21 TO-14A
trans-1,3-Dichloropropene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
2-Hexanone	ND	0.030	ppm(v/v)	EPA-21 TO-14A
Dibromochloromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dibromoethane (EDB)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2K080194 **Work Order #...:** FCX5L1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Xylenes (total)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Styrene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromoform	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Benzyl chloride	ND	0.010	ppm(v/v)	EPA-21 TO-14A
4-Ethyltoluene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,3,5-Trimethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,3-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,4-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trichloro-benzene	ND	0.020	ppm(v/v)	EPA-21 TO-14A
Hexachlorobutadiene	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	ND	0.010	ppm(v/v)	EPA-21 TO-14A

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2K080194 **Work Order #...:** FCX6P1AA **Matrix.....:** AIR
MB Lot-Sample #: M2K120000-495

Prep Date.....: 11/09/02 **Analysis Time..:** 10:43
Analysis Date..: 11/09/02 **Prep Batch #...:** 2316495 **Instrument ID..:** MSA
Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Non-Methane Hydroca	ND	0.50	ppm(v/v)	EPA-21 TO-14A
Dichlorodifluoromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chloromethane	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Vinyl chloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromomethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chloroethane	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Carbon disulfide	ND	0.010	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Acetone	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Methylene chloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
trans-1,2-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Vinyl acetate	ND	0.010	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
2-Butanone (MEK)	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Chloroform	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Carbon tetrachloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Benzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloropropane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromodichloromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
cis-1,3-Dichloropropene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
4-Methyl-2-pentanone (MIBK)	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Toluene	ND	0.0050	ppm(v/v)	EPA-21 TO-14A
trans-1,3-Dichloropropene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
2-Hexanone	ND	0.030	ppm(v/v)	EPA-21 TO-14A
Dibromochloromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dibromoethane (EDB)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2K080194 **Work Order #...:** FCX6P1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Xylenes (total)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Styrene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromoform	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Benzyl chloride	ND	0.010	ppm(v/v)	EPA-21 TO-14A
4-Ethyltoluene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,3,5-Trimethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,3-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,4-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trichloro-benzene	ND	0.020	ppm(v/v)	EPA-21 TO-14A
Hexachlorobutadiene	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	ND	0.010	ppm(v/v)	EPA-21 TO-14A

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2K080194 Work Order #...: FCX5L1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M2K120000-492 FCX5L1AD-LCSD
Prep Date.....: 11/08/02 Analysis Date..: 11/08/02
Prep Batch #...: 2316492 Analysis Time..: 10:20
Dilution Factor: 1 Instrument ID..: MSA
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	109	(70 - 125)			EPA-21 TO-14A
	109	(70 - 125)	0.090	(0-20)	EPA-21 TO-14A
Methylene chloride	98	(75 - 120)			EPA-21 TO-14A
	97	(75 - 120)	1.9	(0-20)	EPA-21 TO-14A
Trichloroethene	102	(80 - 125)			EPA-21 TO-14A
	102	(80 - 125)	0.020	(0-20)	EPA-21 TO-14A
Toluene	100	(70 - 120)			EPA-21 TO-14A
	101	(70 - 120)	1.1	(0-20)	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	100	(70 - 130)			EPA-21 TO-14A
	102	(70 - 130)	1.7	(0-20)	EPA-21 TO-14A

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 #...: E2K080194 Work Order #...: FCX5L1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M2K120000-492 FCX5L1AD-LCSD
Prep Date.....: 11/08/02 Analysis Date..: 11/08/02
Prep Batch #...: 2316492 Analysis Time..: 10:20
Dilution Factor: 1 Instrument ID..: MSA
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	0.0500	0.0544	ppm(v/v)	109		EPA-21 TO-14A
	0.0500	0.0543	ppm(v/v)	109	0.090	EPA-21 TO-14A
Methylene chloride	0.0500	0.0492	ppm(v/v)	98		EPA-21 TO-14A
	0.0500	0.0483	ppm(v/v)	97	1.9	EPA-21 TO-14A
Trichloroethene	0.0500	0.0512	ppm(v/v)	102		EPA-21 TO-14A
	0.0500	0.0512	ppm(v/v)	102	0.020	EPA-21 TO-14A
Toluene	0.0500	0.0498	ppm(v/v)	100		EPA-21 TO-14A
	0.0500	0.0504	ppm(v/v)	101	1.1	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	0.0500	0.0499	ppm(v/v)	100		EPA-21 TO-14A
	0.0500	0.0508	ppm(v/v)	102	1.7	EPA-21 TO-14A

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 #...: E2K080194 Work Order #...: FCX6P1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M2K120000-495 FCX6P1AD-LCSD
Prep Date.....: 11/09/02 Analysis Date..: 11/09/02
Prep Batch #...: 2316495 Analysis Time..: 09:39
Dilution Factor: 1 Instrument ID..: MSA
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	110	(70 - 125)			EPA-21 TO-14A
	109	(70 - 125)	1.6	(0-20)	EPA-21 TO-14A
Methylene chloride	98	(75 - 120)			EPA-21 TO-14A
	97	(75 - 120)	1.0	(0-20)	EPA-21 TO-14A
Trichloroethene	102	(80 - 125)			EPA-21 TO-14A
	102	(80 - 125)	0.11	(0-20)	EPA-21 TO-14A
Toluene	100	(70 - 120)			EPA-21 TO-14A
	100	(70 - 120)	0.26	(0-20)	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	101	(70 - 130)			EPA-21 TO-14A
	93	(70 - 130)	8.7	(0-20)	EPA-21 TO-14A

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 #...: E2K080194 Work Order #...: FCX6P1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M2K120000-495 FCX6P1AD-LCSD
Prep Date.....: 11/09/02 Analysis Date..: 11/09/02
Prep Batch #...: 2316495 Analysis Time..: 09:39
Dilution Factor: 1 Instrument ID..: MSA
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	0.0500	0.0552	ppm(v/v)	110		EPA-21 TO-14A
	0.0500	0.0544	ppm(v/v)	109	1.6	EPA-21 TO-14A
Methylene chloride	0.0500	0.0491	ppm(v/v)	98		EPA-21 TO-14A
	0.0500	0.0486	ppm(v/v)	97	1.0	EPA-21 TO-14A
Trichloroethene	0.0500	0.0512	ppm(v/v)	102		EPA-21 TO-14A
	0.0500	0.0511	ppm(v/v)	102	0.11	EPA-21 TO-14A
Toluene	0.0500	0.0498	ppm(v/v)	100		EPA-21 TO-14A
	0.0500	0.0500	ppm(v/v)	100	0.26	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	0.0500	0.0507	ppm(v/v)	101		EPA-21 TO-14A
	0.0500	0.0465	ppm(v/v)	93	8.7	EPA-21 TO-14A

NOTE(S):

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

Bold print denotes control parameters

EXECUTIVE SUMMARY - Detection Highlights

E2K120134

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
2VEW_1B_AV111102_0001 11/11/02 10:15 001				
Total Non-Methane Hydrocarbons	26	25	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.27	0.10	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.025 J	0.10	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.038 J	0.10	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	15	0.10	ppm(v/v)	EPA-21 TO-14A
2VEW_4_AV111102_0001 11/11/02 10:30 002				
Total Non-Methane Hydrocarbons	4.5	2.5	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.023	0.010	ppm(v/v)	EPA-21 TO-14A
Acetone	0.014 J	0.050	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.0072 J	0.010	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.057	0.010	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	1.9	0.010	ppm(v/v)	EPA-21 TO-14A
Toluene	0.012 J	0.025	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.0039 J	0.010	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	0.0028 J	0.010	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	0.016	0.010	ppm(v/v)	EPA-21 TO-14A
4-Ethyltoluene	0.0053 J	0.010	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	0.0063 J	0.010	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.0039 J	0.050	ppm(v/v)	EPA-21 TO-14A
2VEW_8B_AV111102_0001 11/11/02 10:45 003				
Total Non-Methane Hydrocarbons	7.2	2.5	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	0.031	0.010	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.62	0.010	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0035 J	0.010	ppm(v/v)	EPA-21 TO-14A
Acetone	0.014 J	0.050	ppm(v/v)	EPA-21 TO-14A
Methylene chloride	0.0071 J	0.010	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.017	0.010	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.014	0.010	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.35	0.010	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.027	0.010	ppm(v/v)	EPA-21 TO-14A
Carbon tetrachloride	0.013	0.010	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	2.7	0.025	ppm(v/v)	EPA-21 TO-14A
Toluene	0.0089 J	0.025	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.11	0.010	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	0.013	0.010	ppm(v/v)	EPA-21 TO-14A
4-Ethyltoluene	0.0043 J	0.010	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	0.0049 J	0.010	ppm(v/v)	EPA-21 TO-14A

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EXECUTIVE SUMMARY - Detection Highlights

E2K120134

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
2VEW_8B_AV111102_0001 11/11/02 10:45	**003**			
Methyl tert-butyl ether (MTBE)	0.0033 J	0.050	ppm(v/v)	EPA-21 TO-14A
GAC0024_AV111102_0001 11/11/02 14:30	**004**			
Total Non-Methane Hydrocarbons	4.2	1.2	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	0.0099	0.0050	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.30	0.0050	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0020 J	0.0050	ppm(v/v)	EPA-21 TO-14A
Acetone	0.014 J	0.025	ppm(v/v)	EPA-21 TO-14A
Methylene chloride	0.0026 J	0.0050	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.010	0.0050	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.0095	0.0050	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.75	0.0050	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.031	0.0050	ppm(v/v)	EPA-21 TO-14A
Carbon tetrachloride	0.022	0.0050	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloroethane	0.0031 J	0.0050	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	1.4	0.020	ppm(v/v)	EPA-21 TO-14A
Toluene	0.0045 J	0.012	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.097	0.0050	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	0.0031 J	0.0050	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	0.0014 J	0.0050	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.0029 J	0.025	ppm(v/v)	EPA-21 TO-14A

METHODS SUMMARY

E2K120134

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by TO-14A	EPA-21 TO-14A	

References:

EPA-21 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", Second Edition, EPA/625/R-96/010b, January 1999

SAMPLE SUMMARY

E2K120134

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
FCWNX	001	2VEW_1B_AV111102_0001	11/11/02	10:15
FCWN1	002	2VEW_4_AV111102_0001	11/11/02	10:30
FCWN4	003	2VEW_8B_AV111102_0001	11/11/02	10:45
FCWN7	004	GAC0024_AV111102_0001	11/11/02	14:30

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.

HALEY & ALDRICH INC

Client Sample ID: 2VEW_1B_AV111102_0001

GC/MS Volatiles

Lot-Sample #...: E2K120134-001 **Work Order #...:** FCWNX1AA **Matrix.....:** AA
Date Sampled...: 11/11/02 10:15 **Date Received..:** 11/12/02 08:45 **MS Run #.....:**
Prep Date.....: 11/12/02 **Analysis Date..:** 11/12/02
Prep Batch #...: 2317479 **Analysis Time..:** 15:19
Dilution Factor: 50
Analyst ID.....: 117751 **Instrument ID..:** MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**26**	**25**	**ppm(v/v)**	**5.0**
Dichlorodifluoromethane	ND	0.10	ppm(v/v)	0.025
Chloromethane	ND	0.20	ppm(v/v)	0.050
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.10	ppm(v/v)	0.040
Vinyl chloride	ND	0.10	ppm(v/v)	0.040
Bromomethane	ND	0.10	ppm(v/v)	0.050
Chloroethane	ND	0.20	ppm(v/v)	0.040
Trichlorofluoromethane	ND	0.10	ppm(v/v)	0.025
1,1-Dichloroethene	**0.27**	**0.10**	**ppm(v/v)**	**0.025**
Carbon disulfide	ND	0.50	ppm(v/v)	0.10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.10	ppm(v/v)	0.025
Acetone	ND	0.50	ppm(v/v)	0.10
Methylene chloride	ND	0.10	ppm(v/v)	0.040
trans-1,2-Dichloroethene	ND	0.10	ppm(v/v)	0.025
1,1-Dichloroethane	**0.025 J**	**0.10**	**ppm(v/v)**	**0.025**
Vinyl acetate	ND	0.50	ppm(v/v)	0.10
cis-1,2-Dichloroethene	ND	0.10	ppm(v/v)	0.040
2-Butanone (MEK)	ND	0.50	ppm(v/v)	0.10
Chloroform	ND	0.10	ppm(v/v)	0.040
1,1,1-Trichloroethane	**0.038 J**	**0.10**	**ppm(v/v)**	**0.025**
Carbon tetrachloride	ND	0.10	ppm(v/v)	0.025
Benzene	ND	0.10	ppm(v/v)	0.040
1,2-Dichloroethane	ND	0.10	ppm(v/v)	0.040
Trichloroethene	**15**	**0.10**	**ppm(v/v)**	**0.030**
1,2-Dichloropropane	ND	0.10	ppm(v/v)	0.040
Bromodichloromethane	ND	0.10	ppm(v/v)	0.040
cis-1,3-Dichloropropene	ND	0.10	ppm(v/v)	0.025
4-Methyl-2-pentanone (MIBK)	ND	0.50	ppm(v/v)	0.10
Toluene	ND	0.25	ppm(v/v)	0.025
trans-1,3-Dichloropropene	ND	0.10	ppm(v/v)	0.040
1,1,2-Trichloroethane	ND	0.10	ppm(v/v)	0.030
Tetrachloroethene	ND	0.10	ppm(v/v)	0.025
2-Hexanone	ND	1.5	ppm(v/v)	0.050

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HALEY & ALDRICH INC

Client Sample ID: 2VEW_1B_AV111102_0001

GC/MS Volatiles

Lot-Sample #...: E2K120134-001 **Work Order #...:** FCWNX1AA **Matrix.....:** AA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.10	ppm(v/v)	0.025
1,2-Dibromoethane (EDB)	ND	0.10	ppm(v/v)	0.025
Chlorobenzene	ND	0.10	ppm(v/v)	0.025
Ethylbenzene	ND	0.10	ppm(v/v)	0.025
Xylenes (total)	ND	0.10	ppm(v/v)	0.040
Styrene	ND	0.10	ppm(v/v)	0.030
Bromoform	ND	0.10	ppm(v/v)	0.025
1,1,2,2-Tetrachloroethane	ND	0.10	ppm(v/v)	0.025
Benzyl chloride	ND	0.50	ppm(v/v)	0.040
4-Ethyltoluene	ND	0.10	ppm(v/v)	0.035
1,3,5-Trimethylbenzene	ND	0.10	ppm(v/v)	0.040
1,2,4-Trimethylbenzene	ND	0.10	ppm(v/v)	0.025
1,3-Dichlorobenzene	ND	0.10	ppm(v/v)	0.030
1,4-Dichlorobenzene	ND	0.10	ppm(v/v)	0.040
1,2-Dichlorobenzene	ND	0.10	ppm(v/v)	0.040
1,2,4-Trichloro-benzene	ND	1.0	ppm(v/v)	0.030
Hexachlorobutadiene	ND	0.20	ppm(v/v)	0.050
Methyl tert-butyl ether (MTBE)	ND	0.50	ppm(v/v)	0.025

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2VEW_1B_AV111102_0001

GC/MS Volatiles

Lot-Sample #: E2K120134-001 **Work Order #:** FCWNX1AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: 2VEW_4_AV111102_0001

GC/MS Volatiles

Lot-Sample #...: E2K120134-002 **Work Order #...:** FCWN11AA **Matrix.....:** AA
Date Sampled...: 11/11/02 10:30 **Date Received..:** 11/12/02 08:45 **MS Run #.....:**
Prep Date.....: 11/12/02 **Analysis Date..:** 11/12/02
Prep Batch #...: 2317479 **Analysis Time..:** 15:50
Dilution Factor: 5
Analyst ID.....: 117751 **Instrument ID..:** MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**4.5**	**2.5**	**ppm(v/v)**	**0.50**
Dichlorodifluoromethane	ND	0.010	ppm(v/v)	0.0025
Chloromethane	ND	0.020	ppm(v/v)	0.0050
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.010	ppm(v/v)	0.0040
Vinyl chloride	ND	0.010	ppm(v/v)	0.0040
Bromomethane	ND	0.010	ppm(v/v)	0.0050
Chloroethane	ND	0.020	ppm(v/v)	0.0040
Trichlorofluoromethane	ND	0.010	ppm(v/v)	0.0025
1,1-Dichloroethene	**0.023**	**0.010**	**ppm(v/v)**	**0.0025**
Carbon disulfide	ND	0.050	ppm(v/v)	0.010
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.010	ppm(v/v)	0.0025
Acetone	**0.014 J**	**0.050**	**ppm(v/v)**	**0.010**
Methylene chloride	ND	0.010	ppm(v/v)	0.0040
trans-1,2-Dichloroethene	ND	0.010	ppm(v/v)	0.0025
1,1-Dichloroethane	**0.0072 J**	**0.010**	**ppm(v/v)**	**0.0025**
Vinyl acetate	ND	0.050	ppm(v/v)	0.010
cis-1,2-Dichloroethene	ND	0.010	ppm(v/v)	0.0040
2-Butanone (MEK)	ND	0.050	ppm(v/v)	0.010
Chloroform	ND	0.010	ppm(v/v)	0.0040
1,1,1-Trichloroethane	**0.057**	**0.010**	**ppm(v/v)**	**0.0025**
Carbon tetrachloride	ND	0.010	ppm(v/v)	0.0025
Benzene	ND	0.010	ppm(v/v)	0.0040
1,2-Dichloroethane	ND	0.010	ppm(v/v)	0.0040
Trichloroethene	**1.9**	**0.010**	**ppm(v/v)**	**0.0030**
1,2-Dichloropropane	ND	0.010	ppm(v/v)	0.0040
Bromodichloromethane	ND	0.010	ppm(v/v)	0.0040
cis-1,3-Dichloropropene	ND	0.010	ppm(v/v)	0.0025
4-Methyl-2-pentanone (MIBK)	ND	0.050	ppm(v/v)	0.010
Toluene	**0.012 J**	**0.025**	**ppm(v/v)**	**0.0025**
trans-1,3-Dichloropropene	ND	0.010	ppm(v/v)	0.0040
1,1,2-Trichloroethane	ND	0.010	ppm(v/v)	0.0030
Tetrachloroethene	**0.0039 J**	**0.010**	**ppm(v/v)**	**0.0025**
2-Hexanone	ND	0.15	ppm(v/v)	0.0050

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HALEY & ALDRICH INC

Client Sample ID: 2VEW_4_AV111102_0001

GC/MS Volatiles

Lot-Sample #...: E2K120134-002 **Work Order #...:** FCWN11AA **Matrix.....:** AA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.010	ppm(v/v)	0.0025
1,2-Dibromoethane (EDB)	ND	0.010	ppm(v/v)	0.0025
Chlorobenzene	ND	0.010	ppm(v/v)	0.0025
Ethylbenzene	**0.0028 J**	**0.010**	**ppm(v/v)**	**0.0025**
Xylenes (total)	**0.016**	**0.010**	**ppm(v/v)**	**0.0040**
Styrene	ND	0.010	ppm(v/v)	0.0030
Bromoform	ND	0.010	ppm(v/v)	0.0025
1,1,2,2-Tetrachloroethane	ND	0.010	ppm(v/v)	0.0025
Benzyl chloride	ND	0.050	ppm(v/v)	0.0040
4-Ethyltoluene	**0.0053 J**	**0.010**	**ppm(v/v)**	**0.0035**
1,3,5-Trimethylbenzene	ND	0.010	ppm(v/v)	0.0040
1,2,4-Trimethylbenzene	**0.0063 J**	**0.010**	**ppm(v/v)**	**0.0025**
1,3-Dichlorobenzene	ND	0.010	ppm(v/v)	0.0030
1,4-Dichlorobenzene	ND	0.010	ppm(v/v)	0.0040
1,2-Dichlorobenzene	ND	0.010	ppm(v/v)	0.0040
1,2,4-Trichloro-benzene	ND	0.10	ppm(v/v)	0.0030
Hexachlorobutadiene	ND	0.020	ppm(v/v)	0.0050
Methyl tert-butyl ether (MTBE)	**0.0039 J**	**0.050**	**ppm(v/v)**	**0.0025**

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2VEW_4_AV111102_0001

GC/MS Volatiles

Lot-Sample #: E2K120134-002 **Work Order #:** FCWN11AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: 2VEW_8B_AV111102_0001

GC/MS Volatiles

Lot-Sample #...: E2K120134-003 **Work Order #...:** FCWN41AA **Matrix.....:** AA
Date Sampled...: 11/11/02 10:45 **Date Received..:** 11/12/02 08:45 **MS Run #.....:**
Prep Date.....: 11/12/02 **Analysis Date..:** 11/12/02
Prep Batch #...: 2317479 **Analysis Time..:** 16:22
Dilution Factor: 5
Analyst ID.....: 117751 **Instrument ID..:** MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**7.2**	**2.5**	**ppm(v/v)**	**0.50**
Dichlorodifluoromethane	ND	0.010	ppm(v/v)	0.0025
Chloromethane	ND	0.020	ppm(v/v)	0.0050
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.010	ppm(v/v)	0.0040
Vinyl chloride	ND	0.010	ppm(v/v)	0.0040
Bromomethane	ND	0.010	ppm(v/v)	0.0050
Chloroethane	ND	0.020	ppm(v/v)	0.0040
Trichlorofluoromethane	**0.031**	**0.010**	**ppm(v/v)**	**0.0025**
1,1-Dichloroethene	**0.62**	**0.010**	**ppm(v/v)**	**0.0025**
Carbon disulfide	ND	0.050	ppm(v/v)	0.010
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.0035 J**	**0.010**	**ppm(v/v)**	**0.0025**
Acetone	**0.014 J**	**0.050**	**ppm(v/v)**	**0.010**
Methylene chloride	**0.0071 J**	**0.010**	**ppm(v/v)**	**0.0040**
trans-1,2-Dichloroethene	ND	0.010	ppm(v/v)	0.0025
1,1-Dichloroethane	**0.017**	**0.010**	**ppm(v/v)**	**0.0025**
Vinyl acetate	ND	0.050	ppm(v/v)	0.010
cis-1,2-Dichloroethene	**0.014**	**0.010**	**ppm(v/v)**	**0.0040**
2-Butanone (MEK)	ND	0.050	ppm(v/v)	0.010
Chloroform	**0.35**	**0.010**	**ppm(v/v)**	**0.0040**
1,1,1-Trichloroethane	**0.027**	**0.010**	**ppm(v/v)**	**0.0025**
Carbon tetrachloride	**0.013**	**0.010**	**ppm(v/v)**	**0.0025**
Benzene	ND	0.010	ppm(v/v)	0.0040
1,2-Dichloroethane	ND	0.010	ppm(v/v)	0.0040
1,2-Dichloropropane	ND	0.010	ppm(v/v)	0.0040
Bromodichloromethane	ND	0.010	ppm(v/v)	0.0040
cis-1,3-Dichloropropene	ND	0.010	ppm(v/v)	0.0025
4-Methyl-2-pentanone (MIBK)	ND	0.050	ppm(v/v)	0.010
Toluene	**0.0089 J**	**0.025**	**ppm(v/v)**	**0.0025**
trans-1,3-Dichloropropene	ND	0.010	ppm(v/v)	0.0040
1,1,2-Trichloroethane	ND	0.010	ppm(v/v)	0.0030
Tetrachloroethene	**0.11**	**0.010**	**ppm(v/v)**	**0.0025**
2-Hexanone	ND	0.15	ppm(v/v)	0.0050
Dibromochloromethane	ND	0.010	ppm(v/v)	0.0025

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HALEY & ALDRICH INC

Client Sample ID: 2VEW_8B_AV111102_0001

GC/MS Volatiles

Lot-Sample #...: E2K120134-003 **Work Order #...:** FCWN41AA **Matrix.....:** AA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2-Dibromoethane (EDB)	ND	0.010	ppm(v/v)	0.0025
Chlorobenzene	ND	0.010	ppm(v/v)	0.0025
Ethylbenzene	ND	0.010	ppm(v/v)	0.0025
Xylenes (total)	**0.013**	**0.010**	**ppm(v/v)**	**0.0040**
Styrene	ND	0.010	ppm(v/v)	0.0030
Bromoform	ND	0.010	ppm(v/v)	0.0025
1,1,2,2-Tetrachloroethane	ND	0.010	ppm(v/v)	0.0025
Benzyl chloride	ND	0.050	ppm(v/v)	0.0040
4-Ethyltoluene	**0.0043 J**	**0.010**	**ppm(v/v)**	**0.0035**
1,3,5-Trimethylbenzene	ND	0.010	ppm(v/v)	0.0040
1,2,4-Trimethylbenzene	**0.0049 J**	**0.010**	**ppm(v/v)**	**0.0025**
1,3-Dichlorobenzene	ND	0.010	ppm(v/v)	0.0030
1,4-Dichlorobenzene	ND	0.010	ppm(v/v)	0.0040
1,2-Dichlorobenzene	ND	0.010	ppm(v/v)	0.0040
1,2,4-Trichloro-benzene	ND	0.10	ppm(v/v)	0.0030
Hexachlorobutadiene	ND	0.020	ppm(v/v)	0.0050
Methyl tert-butyl ether (MTBE)	**0.0033 J**	**0.050**	**ppm(v/v)**	**0.0025**

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2VEW_8B_AV111102_0001

GC/MS Volatiles

Lot-Sample #: E2K120134-003 **Work Order #:** FCWN41AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: 2VEW_8B_AV111102_0001

GC/MS Volatiles

Lot-Sample #...:	E2K120134-003	Work Order #...:	FCWN42AA	Matrix.....:	AA
Date Sampled...:	11/11/02 10:45	Date Received..:	11/12/02 08:45	MS Run #.....:	
Prep Date.....:	11/13/02	Analysis Date..:	11/13/02		
Prep Batch #...:	2317479	Analysis Time..:	01:26		
Dilution Factor:	12.5				
Analyst ID.....:	117751	Instrument ID..:	MSA		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Trichloroethene	2.7	0.025	ppm(v/v)	0.0075

HALEY & ALDRICH INC

Client Sample ID: GAC0024_AV111102_0001

GC/MS Volatiles

Lot-Sample #...: E2K120134-004 **Work Order #...:** FCWN71AA **Matrix.....:** AA
Date Sampled...: 11/11/02 14:30 **Date Received..:** 11/12/02 08:45 **MS Run #.....:**
Prep Date.....: 11/12/02 **Analysis Date..:** 11/12/02
Prep Batch #...: 2317479 **Analysis Time..:** 16:56
Dilution Factor: 2.5
Analyst ID.....: 117751 **Instrument ID..:** MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**4.2**	**1.2**	**ppm(v/v)**	**0.25**
Dichlorodifluoromethane	ND	0.0050	ppm(v/v)	0.0012
Chloromethane	ND	0.010	ppm(v/v)	0.0025
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.0050	ppm(v/v)	0.0020
Vinyl chloride	ND	0.0050	ppm(v/v)	0.0020
Bromomethane	ND	0.0050	ppm(v/v)	0.0025
Chloroethane	ND	0.010	ppm(v/v)	0.0020
Trichlorofluoromethane	**0.0099**	**0.0050**	**ppm(v/v)**	**0.0012**
1,1-Dichloroethene	**0.30**	**0.0050**	**ppm(v/v)**	**0.0012**
Carbon disulfide	ND	0.025	ppm(v/v)	0.0050
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.0020 J**	**0.0050**	**ppm(v/v)**	**0.0012**
Acetone	**0.014 J**	**0.025**	**ppm(v/v)**	**0.0050**
Methylene chloride	**0.0026 J**	**0.0050**	**ppm(v/v)**	**0.0020**
trans-1,2-Dichloroethene	ND	0.0050	ppm(v/v)	0.0012
1,1-Dichloroethane	**0.010**	**0.0050**	**ppm(v/v)**	**0.0012**
Vinyl acetate	ND	0.025	ppm(v/v)	0.0050
cis-1,2-Dichloroethene	**0.0095**	**0.0050**	**ppm(v/v)**	**0.0020**
2-Butanone (MEK)	ND	0.025	ppm(v/v)	0.0050
Chloroform	**0.75**	**0.0050**	**ppm(v/v)**	**0.0020**
1,1,1-Trichloroethane	**0.031**	**0.0050**	**ppm(v/v)**	**0.0012**
Carbon tetrachloride	**0.022**	**0.0050**	**ppm(v/v)**	**0.0012**
Benzene	ND	0.0050	ppm(v/v)	0.0020
1,2-Dichloroethane	**0.0031 J**	**0.0050**	**ppm(v/v)**	**0.0020**
1,2-Dichloropropane	ND	0.0050	ppm(v/v)	0.0020
Bromodichloromethane	ND	0.0050	ppm(v/v)	0.0020
cis-1,3-Dichloropropene	ND	0.0050	ppm(v/v)	0.0012
4-Methyl-2-pentanone (MIBK)	ND	0.025	ppm(v/v)	0.0050
Toluene	**0.0045 J**	**0.012**	**ppm(v/v)**	**0.0012**
trans-1,3-Dichloropropene	ND	0.0050	ppm(v/v)	0.0020
1,1,2-Trichloroethane	ND	0.0050	ppm(v/v)	0.0015
Tetrachloroethene	**0.097**	**0.0050**	**ppm(v/v)**	**0.0012**
2-Hexanone	ND	0.075	ppm(v/v)	0.0025
Dibromochloromethane	ND	0.0050	ppm(v/v)	0.0012

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HALEY & ALDRICH INC

Client Sample ID: GAC0024_AV111102_0001

GC/MS Volatiles

Lot-Sample #...: E2K120134-004 **Work Order #...:** FCWN71AA **Matrix.....:** AA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2-Dibromoethane (EDB)	ND	0.0050	ppm(v/v)	0.0012
Chlorobenzene	ND	0.0050	ppm(v/v)	0.0012
Ethylbenzene	ND	0.0050	ppm(v/v)	0.0012
Xylenes (total)	**0.0031 J**	**0.0050**	**ppm(v/v)**	**0.0020**
Styrene	ND	0.0050	ppm(v/v)	0.0015
Bromoform	ND	0.0050	ppm(v/v)	0.0012
1,1,2,2-Tetrachloroethane	ND	0.0050	ppm(v/v)	0.0012
Benzyl chloride	ND	0.025	ppm(v/v)	0.0020
4-Ethyltoluene	ND	0.0050	ppm(v/v)	0.0018
1,3,5-Trimethylbenzene	ND	0.0050	ppm(v/v)	0.0020
1,2,4-Trimethylbenzene	**0.0014 J**	**0.0050**	**ppm(v/v)**	**0.0012**
1,3-Dichlorobenzene	ND	0.0050	ppm(v/v)	0.0015
1,4-Dichlorobenzene	ND	0.0050	ppm(v/v)	0.0020
1,2-Dichlorobenzene	ND	0.0050	ppm(v/v)	0.0020
1,2,4-Trichloro-benzene	ND	0.050	ppm(v/v)	0.0015
Hexachlorobutadiene	ND	0.010	ppm(v/v)	0.0025
Methyl tert-butyl ether (MTBE)	**0.0029 J**	**0.025**	**ppm(v/v)**	**0.0012**

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

GAC0024_AV111102_0001

GC/MS Volatiles

Lot-Sample #: E2K120134-004 **Work Order #:** FCWN71AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: GAC0024_AV111102_0001

GC/MS Volatiles

Lot-Sample #...:	E2K120134-004	Work Order #...:	FCWN72AA	Matrix.....:	AA
Date Sampled...:	11/11/02 14:30	Date Received..:	11/12/02 08:45	MS Run #.....:	
Prep Date.....:	11/13/02	Analysis Date..:	11/13/02		
Prep Batch #...:	2317479	Analysis Time..:	02:00		
Dilution Factor:	10				
Analyst ID.....:	117751	Instrument ID..:	MSA		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Trichloroethene	1.4	0.020	ppm(v/v)	0.0060

QC DATA ASSOCIATION SUMMARY

E2K120134

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AA	EPA-21 TO-14A		2317479	
002	AA	EPA-21 TO-14A		2317479	
003	AA	EPA-21 TO-14A		2317479	
004	AA	EPA-21 TO-14A		2317479	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2K120134 **Work Order #...:** FC16M1AA **Matrix.....:** AIR
MB Lot-Sample #: M2K130000-479

Prep Date.....: 11/12/02 **Analysis Time..:** 11:57
Analysis Date..: 11/12/02 **Prep Batch #...:** 2317479 **Instrument ID..:** MSA
Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Non-Methane Hydroca	ND	0.50	ppm(v/v)	EPA-21 TO-14A
Dichlorodifluoromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chloromethane	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Vinyl chloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromomethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chloroethane	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Carbon disulfide	ND	0.010	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Acetone	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Methylene chloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
trans-1,2-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Vinyl acetate	ND	0.010	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
2-Butanone (MEK)	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Chloroform	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Carbon tetrachloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Benzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloropropane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromodichloromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
cis-1,3-Dichloropropene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
4-Methyl-2-pentanone (MIBK)	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Toluene	ND	0.0050	ppm(v/v)	EPA-21 TO-14A
trans-1,3-Dichloropropene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
2-Hexanone	ND	0.030	ppm(v/v)	EPA-21 TO-14A
Dibromochloromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dibromoethane (EDB)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2K120134 **Work Order #...:** FC16M1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Xylenes (total)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Styrene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromoform	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Benzyl chloride	ND	0.010	ppm(v/v)	EPA-21 TO-14A
4-Ethyltoluene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,3,5-Trimethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,3-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,4-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trichloro-benzene	ND	0.020	ppm(v/v)	EPA-21 TO-14A
Hexachlorobutadiene	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	ND	0.010	ppm(v/v)	EPA-21 TO-14A

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2K120134 Work Order #...: FC16M1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M2K130000-479 FC16M1AD-LCSD
Prep Date.....: 11/12/02 Analysis Date..: 11/12/02
Prep Batch #...: 2317479 Analysis Time..: 10:45
Dilution Factor: 1 Instrument ID..: MSA
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	112	(70 - 125)			EPA-21 TO-14A
	109	(70 - 125)	2.2	(0-20)	EPA-21 TO-14A
Methylene chloride	94	(75 - 120)			EPA-21 TO-14A
	94	(75 - 120)	0.21	(0-20)	EPA-21 TO-14A
Trichloroethene	99	(80 - 125)			EPA-21 TO-14A
	100	(80 - 125)	0.40	(0-20)	EPA-21 TO-14A
Toluene	100	(70 - 120)			EPA-21 TO-14A
	99	(70 - 120)	0.98	(0-20)	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	86	(70 - 130)			EPA-21 TO-14A
	89	(70 - 130)	2.7	(0-20)	EPA-21 TO-14A

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 #...: E2K120134 **Work Order #...:** FC16M1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M2K130000-479 FC16M1AD-LCSD
Prep Date.....: 11/12/02 **Analysis Date..:** 11/12/02
Prep Batch #...: 2317479 **Analysis Time..:** 10:45
Dilution Factor: 1 **Instrument ID..:** MSA
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	0.0591	0.0659	ppm(v/v)	112		EPA-21 TO-14A
	0.0591	0.0645	ppm(v/v)	109	2.2	EPA-21 TO-14A
Methylene chloride	0.0587	0.0552	ppm(v/v)	94		EPA-21 TO-14A
	0.0587	0.0553	ppm(v/v)	94	0.21	EPA-21 TO-14A
Trichloroethene	0.0595	0.0590	ppm(v/v)	99		EPA-21 TO-14A
	0.0595	0.0592	ppm(v/v)	100	0.40	EPA-21 TO-14A
Toluene	0.0557	0.0559	ppm(v/v)	100		EPA-21 TO-14A
	0.0557	0.0554	ppm(v/v)	99	0.98	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	0.0554	0.0479	ppm(v/v)	86		EPA-21 TO-14A
	0.0554	0.0492	ppm(v/v)	89	2.7	EPA-21 TO-14A

NOTE(S):

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

Bold print denotes control parameters

EXECUTIVE SUMMARY - Detection Highlights

E3B190275

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
2_VEW_15B_AV021903_0001 02/19/03 11:50 001				
Total Non-Methane Hydrocarbons	11	10	ppm(v/v)	EPA-21 TO-14A
Dichlorodifluoromethane	0.013 J	0.040	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.48	0.040	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.058	0.040	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	5.4	0.040	ppm(v/v)	EPA-21 TO-14A
Toluene	0.023 J	0.10	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.14	0.040	ppm(v/v)	EPA-21 TO-14A
2_VEW_19_AV021903_0001 02/19/03 12:20 002				
Total Non-Methane Hydrocarbons	9.7	8.3	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.43	0.033	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.016 J	0.033	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	4.9	0.033	ppm(v/v)	EPA-21 TO-14A
Toluene	0.024 J	0.083	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.074	0.033	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	0.021 J	0.033	ppm(v/v)	EPA-21 TO-14A
2_VEW_11B_AV021903_0001 02/19/03 12:30 003				
Total Non-Methane Hydrocarbons	4.9	3.6	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.28	0.014	ppm(v/v)	EPA-21 TO-14A
2-Butanone (MEK)	0.023 J	0.071	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.0091 J	0.014	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	2.4	0.014	ppm(v/v)	EPA-21 TO-14A
Toluene	0.020 J	0.036	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.043	0.014	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	0.0040 J	0.014	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	0.023	0.014	ppm(v/v)	EPA-21 TO-14A
4-Ethyltoluene	0.0084 J	0.014	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	0.0072 J	0.014	ppm(v/v)	EPA-21 TO-14A
2_VEW_9_AV021903_0001 02/19/03 12:45 004				
Total Non-Methane Hydrocarbons	10	8.3	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.29	0.033	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.020 J	0.033	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	5.2	0.033	ppm(v/v)	EPA-21 TO-14A
Toluene	0.016 J	0.083	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.045	0.033	ppm(v/v)	EPA-21 TO-14A

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EXECUTIVE SUMMARY - Detection Highlights

E3B190275

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
2_VEW_10B_AV021903_0001 02/19/03 13:05 005				
Total Non-Methane Hydrocarbons	18	12	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.31	0.050	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.014 J	0.050	ppm(v/v)	EPA-21 TO-14A
2-Butanone (MEK)	1.0	0.25	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.32	0.050	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	8.5	0.050	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.069	0.050	ppm(v/v)	EPA-21 TO-14A
2_VEW_8B_AV021903_0001 02/19/03 13:20 006				
Total Non-Methane Hydrocarbons	20	12	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.94	0.050	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.034 J	0.050	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.058	0.050	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.33	0.050	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.051	0.050	ppm(v/v)	EPA-21 TO-14A
Carbon tetrachloride	0.013 J	0.050	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	9.7	0.050	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.13	0.050	ppm(v/v)	EPA-21 TO-14A
2_VEW_4_AV021903_0001 02/19/03 13:35 007				
Total Non-Methane Hydrocarbons	9.9	6.2	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.072	0.025	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.024 J	0.025	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.017 J	0.025	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.034	0.025	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.22	0.025	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	4.9	0.025	ppm(v/v)	EPA-21 TO-14A
Toluene	0.0063 J	0.062	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.023 J	0.025	ppm(v/v)	EPA-21 TO-14A
2_VEW_1B_AV021903_0001 02/19/03 13:55 008				
Total Non-Methane Hydrocarbons	4.6	2.5	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.11	0.010	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.0043 J	0.010	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.0055 J	0.010	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.0081 J	0.010	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.0076 J	0.010	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	2.3	0.010	ppm(v/v)	EPA-21 TO-14A
Toluene	0.0077 J	0.025	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.010	0.010	ppm(v/v)	EPA-21 TO-14A

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EXECUTIVE SUMMARY - Detection Highlights

E3B190275

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
2_VEW_1B_AV021903_0001 02/19/03 13:55 008				
Xylenes (total)	0.0086 J	0.010	ppm(v/v)	EPA-21 TO-14A
4-Ethyltoluene	0.0052 J	0.010	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	0.0045 J	0.010	ppm(v/v)	EPA-21 TO-14A

METHODS SUMMARY

E3B190275

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by TO-14A	EPA-21 TO-14A	

References:

EPA-21 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", Second Edition, EPA/625/R-96/010b, January 1999

SAMPLE SUMMARY

E3B190275

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
FHWLN	001	2_VEW_15B_AV021903_0001	02/19/03	11:50
FHWLP	002	2_VEW_19_AV021903_0001	02/19/03	12:20
FHWLQ	003	2_VEW_11B_AV021903_0001	02/19/03	12:30
FHWLR	004	2_VEW_9_AV021903_0001	02/19/03	12:45
FHWLT	005	2_VEW_10B_AV021903_0001	02/19/03	13:05
FHWLV	006	2_VEW_8B_AV021903_0001	02/19/03	13:20
FHWLW	007	2_VEW_4_AV021903_0001	02/19/03	13:35
FHWLX	008	2_VEW_1B_AV021903_0001	02/19/03	13:55

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.

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_15B_AV021903_0001

GC/MS Volatiles

Lot-Sample #...: E3B190275-001 **Work Order #...:** FHWLN1AA **Matrix.....:** AIR
Date Sampled...: 02/19/03 11:50 **Date Received..:** 02/19/03 16:50 **MS Run #.....:**
Prep Date.....: 02/19/03 **Analysis Date..:** 02/19/03
Prep Batch #...: 3051247 **Analysis Time..:** 21:42
Dilution Factor: 20
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**11**	**10**	**ppm(v/v)**	**2.0**
Dichlorodifluoromethane	**0.013 J**	**0.040**	**ppm(v/v)**	**0.010**
Chloromethane	ND	0.080	ppm(v/v)	0.020
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.040	ppm(v/v)	0.016
Vinyl chloride	ND	0.040	ppm(v/v)	0.016
Bromomethane	ND	0.040	ppm(v/v)	0.020
Chloroethane	ND	0.080	ppm(v/v)	0.016
Trichlorofluoromethane	ND	0.040	ppm(v/v)	0.010
1,1-Dichloroethene	**0.48**	**0.040**	**ppm(v/v)**	**0.010**
Carbon disulfide	ND	0.20	ppm(v/v)	0.040
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.040	ppm(v/v)	0.010
Acetone	ND	0.20	ppm(v/v)	0.040
Methylene chloride	ND	0.040	ppm(v/v)	0.016
trans-1,2-Dichloroethene	ND	0.040	ppm(v/v)	0.010
1,1-Dichloroethane	ND	0.040	ppm(v/v)	0.010
Vinyl acetate	ND	0.20	ppm(v/v)	0.040
cis-1,2-Dichloroethene	ND	0.040	ppm(v/v)	0.016
2-Butanone (MEK)	ND	0.20	ppm(v/v)	0.040
Chloroform	**0.058**	**0.040**	**ppm(v/v)**	**0.016**
1,1,1-Trichloroethane	ND	0.040	ppm(v/v)	0.010
Carbon tetrachloride	ND	0.040	ppm(v/v)	0.010
Benzene	ND	0.040	ppm(v/v)	0.016
1,2-Dichloroethane	ND	0.040	ppm(v/v)	0.016
Trichloroethene	**5.4**	**0.040**	**ppm(v/v)**	**0.010**
1,2-Dichloropropane	ND	0.040	ppm(v/v)	0.016
Bromodichloromethane	ND	0.040	ppm(v/v)	0.016
cis-1,3-Dichloropropene	ND	0.040	ppm(v/v)	0.010
4-Methyl-2-pentanone (MIBK)	ND	0.20	ppm(v/v)	0.040
Toluene	**0.023 J**	**0.10**	**ppm(v/v)**	**0.010**
trans-1,3-Dichloropropene	ND	0.040	ppm(v/v)	0.016
1,1,2-Trichloroethane	ND	0.040	ppm(v/v)	0.012
Tetrachloroethene	**0.14**	**0.040**	**ppm(v/v)**	**0.012**
2-Hexanone	ND	0.60	ppm(v/v)	0.020

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_15B_AV021903_0001

GC/MS Volatiles

Lot-Sample #...: E3B190275-001 **Work Order #...:** FHWLN1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.040	ppm(v/v)	0.010
1,2-Dibromoethane (EDB)	ND	0.040	ppm(v/v)	0.010
Chlorobenzene	ND	0.040	ppm(v/v)	0.010
Ethylbenzene	ND	0.040	ppm(v/v)	0.010
Xylenes (total)	ND	0.040	ppm(v/v)	0.016
Styrene	ND	0.040	ppm(v/v)	0.012
Bromoform	ND	0.040	ppm(v/v)	0.010
1,1,2,2-Tetrachloroethane	ND	0.040	ppm(v/v)	0.010
Benzyl chloride	ND	0.20	ppm(v/v)	0.016
4-Ethyltoluene	ND	0.040	ppm(v/v)	0.014
1,3,5-Trimethylbenzene	ND	0.040	ppm(v/v)	0.016
1,2,4-Trimethylbenzene	ND	0.040	ppm(v/v)	0.016
1,3-Dichlorobenzene	ND	0.040	ppm(v/v)	0.014
1,4-Dichlorobenzene	ND	0.040	ppm(v/v)	0.016
1,2-Dichlorobenzene	ND	0.040	ppm(v/v)	0.016
1,2,4-Trichloro-benzene	ND	0.40	ppm(v/v)	0.020
Hexachlorobutadiene	ND	0.080	ppm(v/v)	0.020
Methyl tert-butyl ether (MTBE)	ND	0.20	ppm(v/v)	0.010

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_15B_AV021903_0001

GC/MS Volatiles

Lot-Sample #: E3B190275-001 **Work Order #:** FHWLN1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
butane, 2-methyl-	78-78-4	0.25	M	3.4564	ppm(v/v)

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_AV021903_0001

GC/MS Volatiles

Lot-Sample #...: E3B190275-002 **Work Order #...:** FHWLP1AA **Matrix.....:** AIR
Date Sampled...: 02/19/03 12:20 **Date Received..:** 02/19/03 16:50 **MS Run #.....:**
Prep Date.....: 02/19/03 **Analysis Date..:** 02/19/03
Prep Batch #...: 3051247 **Analysis Time..:** 22:16
Dilution Factor: 16.67
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**9.7**	**8.3**	**ppm(v/v)**	**1.7**
Dichlorodifluoromethane	ND	0.033	ppm(v/v)	0.0083
Chloromethane	ND	0.067	ppm(v/v)	0.017
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.033	ppm(v/v)	0.013
Vinyl chloride	ND	0.033	ppm(v/v)	0.013
Bromomethane	ND	0.033	ppm(v/v)	0.017
Chloroethane	ND	0.067	ppm(v/v)	0.013
Trichlorofluoromethane	ND	0.033	ppm(v/v)	0.0083
1,1-Dichloroethene	**0.43**	**0.033**	**ppm(v/v)**	**0.0083**
Carbon disulfide	ND	0.17	ppm(v/v)	0.033
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.033	ppm(v/v)	0.0083
Acetone	ND	0.17	ppm(v/v)	0.033
Methylene chloride	ND	0.033	ppm(v/v)	0.013
trans-1,2-Dichloroethene	ND	0.033	ppm(v/v)	0.0083
1,1-Dichloroethane	ND	0.033	ppm(v/v)	0.0083
Vinyl acetate	ND	0.17	ppm(v/v)	0.033
cis-1,2-Dichloroethene	ND	0.033	ppm(v/v)	0.013
2-Butanone (MEK)	ND	0.17	ppm(v/v)	0.033
Chloroform	**0.016 J**	**0.033**	**ppm(v/v)**	**0.013**
1,1,1-Trichloroethane	ND	0.033	ppm(v/v)	0.0083
Carbon tetrachloride	ND	0.033	ppm(v/v)	0.0083
Benzene	ND	0.033	ppm(v/v)	0.013
1,2-Dichloroethane	ND	0.033	ppm(v/v)	0.013
Trichloroethene	**4.9**	**0.033**	**ppm(v/v)**	**0.0083**
1,2-Dichloropropane	ND	0.033	ppm(v/v)	0.013
Bromodichloromethane	ND	0.033	ppm(v/v)	0.013
cis-1,3-Dichloropropene	ND	0.033	ppm(v/v)	0.0083
4-Methyl-2-pentanone (MIBK)	ND	0.17	ppm(v/v)	0.033
Toluene	**0.024 J**	**0.083**	**ppm(v/v)**	**0.0083**
trans-1,3-Dichloropropene	ND	0.033	ppm(v/v)	0.013
1,1,2-Trichloroethane	ND	0.033	ppm(v/v)	0.010
Tetrachloroethene	**0.074**	**0.033**	**ppm(v/v)**	**0.010**
2-Hexanone	ND	0.50	ppm(v/v)	0.017

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_AV021903_0001

GC/MS Volatiles

Lot-Sample #...: E3B190275-002 **Work Order #...:** FHWLP1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.033	ppm(v/v)	0.0083
1,2-Dibromoethane (EDB)	ND	0.033	ppm(v/v)	0.0083
Chlorobenzene	ND	0.033	ppm(v/v)	0.0083
Ethylbenzene	ND	0.033	ppm(v/v)	0.0083
Xylenes (total)	**0.021 J**	**0.033**	**ppm(v/v)**	**0.013**
Styrene	ND	0.033	ppm(v/v)	0.010
Bromoform	ND	0.033	ppm(v/v)	0.0083
1,1,2,2-Tetrachloroethane	ND	0.033	ppm(v/v)	0.0083
Benzyl chloride	ND	0.17	ppm(v/v)	0.013
4-Ethyltoluene	ND	0.033	ppm(v/v)	0.012
1,3,5-Trimethylbenzene	ND	0.033	ppm(v/v)	0.013
1,2,4-Trimethylbenzene	ND	0.033	ppm(v/v)	0.013
1,3-Dichlorobenzene	ND	0.033	ppm(v/v)	0.012
1,4-Dichlorobenzene	ND	0.033	ppm(v/v)	0.013
1,2-Dichlorobenzene	ND	0.033	ppm(v/v)	0.013
1,2,4-Trichloro-benzene	ND	0.33	ppm(v/v)	0.017
Hexachlorobutadiene	ND	0.067	ppm(v/v)	0.017
Methyl tert-butyl ether (MTBE)	ND	0.17	ppm(v/v)	0.0083

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_19_AV021903_0001

GC/MS Volatiles

Lot-Sample #: E3B190275-002 **Work Order #:** FHWLP1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_11B_AV021903_0001

GC/MS Volatiles

Lot-Sample #...: E3B190275-003 **Work Order #...:** FHWLQ1AA **Matrix.....:** AIR
Date Sampled...: 02/19/03 12:30 **Date Received..:** 02/19/03 16:50 **MS Run #.....:**
Prep Date.....: 02/19/03 **Analysis Date..:** 02/19/03
Prep Batch #...: 3051247 **Analysis Time..:** 22:50
Dilution Factor: 7.14
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**4.9**	**3.6**	**ppm(v/v)**	**0.71**
Dichlorodifluoromethane	ND	0.014	ppm(v/v)	0.0036
Chloromethane	ND	0.029	ppm(v/v)	0.0071
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.014	ppm(v/v)	0.0057
Vinyl chloride	ND	0.014	ppm(v/v)	0.0057
Bromomethane	ND	0.014	ppm(v/v)	0.0071
Chloroethane	ND	0.029	ppm(v/v)	0.0057
Trichlorofluoromethane	ND	0.014	ppm(v/v)	0.0036
1,1-Dichloroethene	**0.28**	**0.014**	**ppm(v/v)**	**0.0036**
Carbon disulfide	ND	0.071	ppm(v/v)	0.014
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.014	ppm(v/v)	0.0036
Acetone	ND	0.071	ppm(v/v)	0.014
Methylene chloride	ND	0.014	ppm(v/v)	0.0057
trans-1,2-Dichloroethene	ND	0.014	ppm(v/v)	0.0036
1,1-Dichloroethane	ND	0.014	ppm(v/v)	0.0036
Vinyl acetate	ND	0.071	ppm(v/v)	0.014
cis-1,2-Dichloroethene	ND	0.014	ppm(v/v)	0.0057
2-Butanone (MEK)	**0.023 J**	**0.071**	**ppm(v/v)**	**0.014**
Chloroform	**0.0091 J**	**0.014**	**ppm(v/v)**	**0.0057**
1,1,1-Trichloroethane	ND	0.014	ppm(v/v)	0.0036
Carbon tetrachloride	ND	0.014	ppm(v/v)	0.0036
Benzene	ND	0.014	ppm(v/v)	0.0057
1,2-Dichloroethane	ND	0.014	ppm(v/v)	0.0057
Trichloroethene	**2.4**	**0.014**	**ppm(v/v)**	**0.0036**
1,2-Dichloropropane	ND	0.014	ppm(v/v)	0.0057
Bromodichloromethane	ND	0.014	ppm(v/v)	0.0057
cis-1,3-Dichloropropene	ND	0.014	ppm(v/v)	0.0036
4-Methyl-2-pentanone (MIBK)	ND	0.071	ppm(v/v)	0.014
Toluene	**0.020 J**	**0.036**	**ppm(v/v)**	**0.0036**
trans-1,3-Dichloropropene	ND	0.014	ppm(v/v)	0.0057
1,1,2-Trichloroethane	ND	0.014	ppm(v/v)	0.0043
Tetrachloroethene	**0.043**	**0.014**	**ppm(v/v)**	**0.0043**
2-Hexanone	ND	0.21	ppm(v/v)	0.0071

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_11B_AV021903_0001

GC/MS Volatiles

Lot-Sample #...: E3B190275-003 **Work Order #...:** FHWLQ1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.014	ppm(v/v)	0.0036
1,2-Dibromoethane (EDB)	ND	0.014	ppm(v/v)	0.0036
Chlorobenzene	ND	0.014	ppm(v/v)	0.0036
Ethylbenzene	**0.0040 J**	**0.014**	**ppm(v/v)**	**0.0036**
Xylenes (total)	**0.023**	**0.014**	**ppm(v/v)**	**0.0057**
Styrene	ND	0.014	ppm(v/v)	0.0043
Bromoform	ND	0.014	ppm(v/v)	0.0036
1,1,2,2-Tetrachloroethane	ND	0.014	ppm(v/v)	0.0036
Benzyl chloride	ND	0.071	ppm(v/v)	0.0057
4-Ethyltoluene	**0.0084 J**	**0.014**	**ppm(v/v)**	**0.0050**
1,3,5-Trimethylbenzene	ND	0.014	ppm(v/v)	0.0057
1,2,4-Trimethylbenzene	**0.0072 J**	**0.014**	**ppm(v/v)**	**0.0057**
1,3-Dichlorobenzene	ND	0.014	ppm(v/v)	0.0050
1,4-Dichlorobenzene	ND	0.014	ppm(v/v)	0.0057
1,2-Dichlorobenzene	ND	0.014	ppm(v/v)	0.0057
1,2,4-Trichloro-benzene	ND	0.14	ppm(v/v)	0.0071
Hexachlorobutadiene	ND	0.029	ppm(v/v)	0.0071
Methyl tert-butyl ether (MTBE)	ND	0.071	ppm(v/v)	0.0036

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_11B_AV021903_0001

GC/MS Volatiles

Lot-Sample #: E3B190275-003 **Work Order #:** FHWLQ1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_9_AV021903_0001

GC/MS Volatiles

Lot-Sample #...: E3B190275-004 **Work Order #...:** FHWLR1AA **Matrix.....:** AIR
Date Sampled...: 02/19/03 12:45 **Date Received..:** 02/19/03 16:50 **MS Run #.....:**
Prep Date.....: 02/19/03 **Analysis Date..:** 02/19/03
Prep Batch #...: 3051247 **Analysis Time..:** 23:24
Dilution Factor: 16.67
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**10**	**8.3**	**ppm(v/v)**	**1.7**
Dichlorodifluoromethane	ND	0.033	ppm(v/v)	0.0083
Chloromethane	ND	0.067	ppm(v/v)	0.017
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.033	ppm(v/v)	0.013
Vinyl chloride	ND	0.033	ppm(v/v)	0.013
Bromomethane	ND	0.033	ppm(v/v)	0.017
Chloroethane	ND	0.067	ppm(v/v)	0.013
Trichlorofluoromethane	ND	0.033	ppm(v/v)	0.0083
1,1-Dichloroethene	**0.29**	**0.033**	**ppm(v/v)**	**0.0083**
Carbon disulfide	ND	0.17	ppm(v/v)	0.033
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.033	ppm(v/v)	0.0083
Acetone	ND	0.17	ppm(v/v)	0.033
Methylene chloride	ND	0.033	ppm(v/v)	0.013
trans-1,2-Dichloroethene	ND	0.033	ppm(v/v)	0.0083
1,1-Dichloroethane	ND	0.033	ppm(v/v)	0.0083
Vinyl acetate	ND	0.17	ppm(v/v)	0.033
cis-1,2-Dichloroethene	ND	0.033	ppm(v/v)	0.013
2-Butanone (MEK)	ND	0.17	ppm(v/v)	0.033
Chloroform	**0.020 J**	**0.033**	**ppm(v/v)**	**0.013**
1,1,1-Trichloroethane	ND	0.033	ppm(v/v)	0.0083
Carbon tetrachloride	ND	0.033	ppm(v/v)	0.0083
Benzene	ND	0.033	ppm(v/v)	0.013
1,2-Dichloroethane	ND	0.033	ppm(v/v)	0.013
Trichloroethene	**5.2**	**0.033**	**ppm(v/v)**	**0.0083**
1,2-Dichloropropane	ND	0.033	ppm(v/v)	0.013
Bromodichloromethane	ND	0.033	ppm(v/v)	0.013
cis-1,3-Dichloropropene	ND	0.033	ppm(v/v)	0.0083
4-Methyl-2-pentanone (MIBK)	ND	0.17	ppm(v/v)	0.033
Toluene	**0.016 J**	**0.083**	**ppm(v/v)**	**0.0083**
trans-1,3-Dichloropropene	ND	0.033	ppm(v/v)	0.013
1,1,2-Trichloroethane	ND	0.033	ppm(v/v)	0.010
Tetrachloroethene	**0.045**	**0.033**	**ppm(v/v)**	**0.010**
2-Hexanone	ND	0.50	ppm(v/v)	0.017

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_9_AV021903_0001

GC/MS Volatiles

Lot-Sample #...: E3B190275-004 **Work Order #...:** FHWLR1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.033	ppm(v/v)	0.0083
1,2-Dibromoethane (EDB)	ND	0.033	ppm(v/v)	0.0083
Chlorobenzene	ND	0.033	ppm(v/v)	0.0083
Ethylbenzene	ND	0.033	ppm(v/v)	0.0083
Xylenes (total)	ND	0.033	ppm(v/v)	0.013
Styrene	ND	0.033	ppm(v/v)	0.010
Bromoform	ND	0.033	ppm(v/v)	0.0083
1,1,2,2-Tetrachloroethane	ND	0.033	ppm(v/v)	0.0083
Benzyl chloride	ND	0.17	ppm(v/v)	0.013
4-Ethyltoluene	ND	0.033	ppm(v/v)	0.012
1,3,5-Trimethylbenzene	ND	0.033	ppm(v/v)	0.013
1,2,4-Trimethylbenzene	ND	0.033	ppm(v/v)	0.013
1,3-Dichlorobenzene	ND	0.033	ppm(v/v)	0.012
1,4-Dichlorobenzene	ND	0.033	ppm(v/v)	0.013
1,2-Dichlorobenzene	ND	0.033	ppm(v/v)	0.013
1,2,4-Trichloro-benzene	ND	0.33	ppm(v/v)	0.017
Hexachlorobutadiene	ND	0.067	ppm(v/v)	0.017
Methyl tert-butyl ether (MTBE)	ND	0.17	ppm(v/v)	0.0083

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_9_AV021903_0001

GC/MS Volatiles

Lot-Sample #: E3B190275-004 **Work Order #:** FHWLR1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_10B_AV021903_0001

GC/MS Volatiles

Lot-Sample #...: E3B190275-005 **Work Order #...:** FHWLT1AA **Matrix.....:** AIR
Date Sampled...: 02/19/03 13:05 **Date Received..:** 02/19/03 16:50 **MS Run #.....:**
Prep Date.....: 02/20/03 **Analysis Date..:** 02/20/03
Prep Batch #...: 3051479 **Analysis Time..:** 11:09
Dilution Factor: 25
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**18**	**12**	**ppm(v/v)**	**2.5**
Dichlorodifluoromethane	ND	0.050	ppm(v/v)	0.012
Chloromethane	ND	0.10	ppm(v/v)	0.025
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	ppm(v/v)	0.020
Vinyl chloride	ND	0.050	ppm(v/v)	0.020
Bromomethane	ND	0.050	ppm(v/v)	0.025
Chloroethane	ND	0.10	ppm(v/v)	0.020
Trichlorofluoromethane	ND	0.050	ppm(v/v)	0.012
1,1-Dichloroethene	**0.31**	**0.050**	**ppm(v/v)**	**0.012**
Carbon disulfide	ND	0.25	ppm(v/v)	0.050
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ppm(v/v)	0.012
Acetone	ND	0.25	ppm(v/v)	0.050
Methylene chloride	ND	0.050	ppm(v/v)	0.020
trans-1,2-Dichloroethene	ND	0.050	ppm(v/v)	0.012
1,1-Dichloroethane	**0.014 J**	**0.050**	**ppm(v/v)**	**0.012**
Vinyl acetate	ND	0.25	ppm(v/v)	0.050
cis-1,2-Dichloroethene	ND	0.050	ppm(v/v)	0.020
2-Butanone (MEK)	**1.0**	**0.25**	**ppm(v/v)**	**0.050**
Chloroform	**0.32**	**0.050**	**ppm(v/v)**	**0.020**
1,1,1-Trichloroethane	ND	0.050	ppm(v/v)	0.012
Carbon tetrachloride	ND	0.050	ppm(v/v)	0.012
Benzene	ND	0.050	ppm(v/v)	0.020
1,2-Dichloroethane	ND	0.050	ppm(v/v)	0.020
Trichloroethene	**8.5**	**0.050**	**ppm(v/v)**	**0.012**
1,2-Dichloropropane	ND	0.050	ppm(v/v)	0.020
Bromodichloromethane	ND	0.050	ppm(v/v)	0.020
cis-1,3-Dichloropropene	ND	0.050	ppm(v/v)	0.012
4-Methyl-2-pentanone (MIBK)	ND	0.25	ppm(v/v)	0.050
Toluene	ND	0.12	ppm(v/v)	0.012
trans-1,3-Dichloropropene	ND	0.050	ppm(v/v)	0.020
1,1,2-Trichloroethane	ND	0.050	ppm(v/v)	0.015
Tetrachloroethene	**0.069**	**0.050**	**ppm(v/v)**	**0.015**
2-Hexanone	ND	0.75	ppm(v/v)	0.025

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_10B_AV021903_0001

GC/MS Volatiles

Lot-Sample #...: E3B190275-005 **Work Order #...:** FHWLT1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.050	ppm(v/v)	0.012
1,2-Dibromoethane (EDB)	ND	0.050	ppm(v/v)	0.012
Chlorobenzene	ND	0.050	ppm(v/v)	0.012
Ethylbenzene	ND	0.050	ppm(v/v)	0.012
Xylenes (total)	ND	0.050	ppm(v/v)	0.020
Styrene	ND	0.050	ppm(v/v)	0.015
Bromoform	ND	0.050	ppm(v/v)	0.012
1,1,2,2-Tetrachloroethane	ND	0.050	ppm(v/v)	0.012
Benzyl chloride	ND	0.25	ppm(v/v)	0.020
4-Ethyltoluene	ND	0.050	ppm(v/v)	0.018
1,3,5-Trimethylbenzene	ND	0.050	ppm(v/v)	0.020
1,2,4-Trimethylbenzene	ND	0.050	ppm(v/v)	0.020
1,3-Dichlorobenzene	ND	0.050	ppm(v/v)	0.018
1,4-Dichlorobenzene	ND	0.050	ppm(v/v)	0.020
1,2-Dichlorobenzene	ND	0.050	ppm(v/v)	0.020
1,2,4-Trichloro-benzene	ND	0.50	ppm(v/v)	0.025
Hexachlorobutadiene	ND	0.10	ppm(v/v)	0.025
Methyl tert-butyl ether (MTBE)	ND	0.25	ppm(v/v)	0.012

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_10B_AV021903_0001

GC/MS Volatiles

Lot-Sample #: E3B190275-005 **Work Order #:** FHWLT1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
cyclohexanone	108-94-1	0.23	M	17.53	ppm(v/v)

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_8B_AV021903_0001

GC/MS Volatiles

Lot-Sample #...: E3B190275-006 **Work Order #...:** FHWLV1AA **Matrix.....:** AIR
Date Sampled...: 02/19/03 13:20 **Date Received..:** 02/19/03 16:50 **MS Run #.....:**
Prep Date.....: 02/20/03 **Analysis Date..:** 02/20/03
Prep Batch #...: 3051479 **Analysis Time..:** 11:42
Dilution Factor: 25
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**20**	**12**	**ppm(v/v)**	**2.5**
Dichlorodifluoromethane	ND	0.050	ppm(v/v)	0.012
Chloromethane	ND	0.10	ppm(v/v)	0.025
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	ppm(v/v)	0.020
Vinyl chloride	ND	0.050	ppm(v/v)	0.020
Bromomethane	ND	0.050	ppm(v/v)	0.025
Chloroethane	ND	0.10	ppm(v/v)	0.020
Trichlorofluoromethane	ND	0.050	ppm(v/v)	0.012
1,1-Dichloroethene	**0.94**	**0.050**	**ppm(v/v)**	**0.012**
Carbon disulfide	ND	0.25	ppm(v/v)	0.050
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ppm(v/v)	0.012
Acetone	ND	0.25	ppm(v/v)	0.050
Methylene chloride	ND	0.050	ppm(v/v)	0.020
trans-1,2-Dichloroethene	ND	0.050	ppm(v/v)	0.012
1,1-Dichloroethane	**0.034 J**	**0.050**	**ppm(v/v)**	**0.012**
Vinyl acetate	ND	0.25	ppm(v/v)	0.050
cis-1,2-Dichloroethene	**0.058**	**0.050**	**ppm(v/v)**	**0.020**
2-Butanone (MEK)	ND	0.25	ppm(v/v)	0.050
Chloroform	**0.33**	**0.050**	**ppm(v/v)**	**0.020**
1,1,1-Trichloroethane	**0.051**	**0.050**	**ppm(v/v)**	**0.012**
Carbon tetrachloride	**0.013 J**	**0.050**	**ppm(v/v)**	**0.012**
Benzene	ND	0.050	ppm(v/v)	0.020
1,2-Dichloroethane	ND	0.050	ppm(v/v)	0.020
Trichloroethene	**9.7**	**0.050**	**ppm(v/v)**	**0.012**
1,2-Dichloropropane	ND	0.050	ppm(v/v)	0.020
Bromodichloromethane	ND	0.050	ppm(v/v)	0.020
cis-1,3-Dichloropropene	ND	0.050	ppm(v/v)	0.012
4-Methyl-2-pentanone (MIBK)	ND	0.25	ppm(v/v)	0.050
Toluene	ND	0.12	ppm(v/v)	0.012
trans-1,3-Dichloropropene	ND	0.050	ppm(v/v)	0.020
1,1,2-Trichloroethane	ND	0.050	ppm(v/v)	0.015
Tetrachloroethene	**0.13**	**0.050**	**ppm(v/v)**	**0.015**
2-Hexanone	ND	0.75	ppm(v/v)	0.025

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_8B_AV021903_0001

GC/MS Volatiles

Lot-Sample #...: E3B190275-006 **Work Order #...:** FHWLV1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.050	ppm(v/v)	0.012
1,2-Dibromoethane (EDB)	ND	0.050	ppm(v/v)	0.012
Chlorobenzene	ND	0.050	ppm(v/v)	0.012
Ethylbenzene	ND	0.050	ppm(v/v)	0.012
Xylenes (total)	ND	0.050	ppm(v/v)	0.020
Styrene	ND	0.050	ppm(v/v)	0.015
Bromoform	ND	0.050	ppm(v/v)	0.012
1,1,2,2-Tetrachloroethane	ND	0.050	ppm(v/v)	0.012
Benzyl chloride	ND	0.25	ppm(v/v)	0.020
4-Ethyltoluene	ND	0.050	ppm(v/v)	0.018
1,3,5-Trimethylbenzene	ND	0.050	ppm(v/v)	0.020
1,2,4-Trimethylbenzene	ND	0.050	ppm(v/v)	0.020
1,3-Dichlorobenzene	ND	0.050	ppm(v/v)	0.018
1,4-Dichlorobenzene	ND	0.050	ppm(v/v)	0.020
1,2-Dichlorobenzene	ND	0.050	ppm(v/v)	0.020
1,2,4-Trichloro-benzene	ND	0.50	ppm(v/v)	0.025
Hexachlorobutadiene	ND	0.10	ppm(v/v)	0.025
Methyl tert-butyl ether (MTBE)	ND	0.25	ppm(v/v)	0.012

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_8B_AV021903_0001

GC/MS Volatiles

Lot-Sample #: E3B190275-006 **Work Order #:** FHWLV1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_4_AV021903_0001

GC/MS Volatiles

Lot-Sample #...: E3B190275-007 **Work Order #...:** FHWLW1AA **Matrix.....:** AIR
Date Sampled...: 02/19/03 13:35 **Date Received..:** 02/19/03 16:50 **MS Run #.....:**
Prep Date.....: 02/20/03 **Analysis Date..:** 02/20/03
Prep Batch #...: 3051479 **Analysis Time..:** 12:16
Dilution Factor: 12.5
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**9.9**	**6.2**	**ppm(v/v)**	**1.2**
Dichlorodifluoromethane	ND	0.025	ppm(v/v)	0.0062
Chloromethane	ND	0.050	ppm(v/v)	0.012
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.025	ppm(v/v)	0.010
Vinyl chloride	ND	0.025	ppm(v/v)	0.010
Bromomethane	ND	0.025	ppm(v/v)	0.012
Chloroethane	ND	0.050	ppm(v/v)	0.010
Trichlorofluoromethane	ND	0.025	ppm(v/v)	0.0062
1,1-Dichloroethene	**0.072**	**0.025**	**ppm(v/v)**	**0.0062**
Carbon disulfide	ND	0.12	ppm(v/v)	0.025
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.025	ppm(v/v)	0.0062
Acetone	ND	0.12	ppm(v/v)	0.025
Methylene chloride	ND	0.025	ppm(v/v)	0.010
trans-1,2-Dichloroethene	ND	0.025	ppm(v/v)	0.0062
1,1-Dichloroethane	**0.024 J**	**0.025**	**ppm(v/v)**	**0.0062**
Vinyl acetate	ND	0.12	ppm(v/v)	0.025
cis-1,2-Dichloroethene	**0.017 J**	**0.025**	**ppm(v/v)**	**0.010**
2-Butanone (MEK)	ND	0.12	ppm(v/v)	0.025
Chloroform	**0.034**	**0.025**	**ppm(v/v)**	**0.010**
1,1,1-Trichloroethane	**0.22**	**0.025**	**ppm(v/v)**	**0.0062**
Carbon tetrachloride	ND	0.025	ppm(v/v)	0.0062
Benzene	ND	0.025	ppm(v/v)	0.010
1,2-Dichloroethane	ND	0.025	ppm(v/v)	0.010
Trichloroethene	**4.9**	**0.025**	**ppm(v/v)**	**0.0062**
1,2-Dichloropropane	ND	0.025	ppm(v/v)	0.010
Bromodichloromethane	ND	0.025	ppm(v/v)	0.010
cis-1,3-Dichloropropene	ND	0.025	ppm(v/v)	0.0062
4-Methyl-2-pentanone (MIBK)	ND	0.12	ppm(v/v)	0.025
Toluene	**0.0063 J**	**0.062**	**ppm(v/v)**	**0.0062**
trans-1,3-Dichloropropene	ND	0.025	ppm(v/v)	0.010
1,1,2-Trichloroethane	ND	0.025	ppm(v/v)	0.0075
Tetrachloroethene	**0.023 J**	**0.025**	**ppm(v/v)**	**0.0075**
2-Hexanone	ND	0.38	ppm(v/v)	0.012

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_4_AV021903_0001

GC/MS Volatiles

Lot-Sample #...: E3B190275-007 **Work Order #...:** FHWLW1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.025	ppm(v/v)	0.0062
1,2-Dibromoethane (EDB)	ND	0.025	ppm(v/v)	0.0062
Chlorobenzene	ND	0.025	ppm(v/v)	0.0062
Ethylbenzene	ND	0.025	ppm(v/v)	0.0062
Xylenes (total)	ND	0.025	ppm(v/v)	0.010
Styrene	ND	0.025	ppm(v/v)	0.0075
Bromoform	ND	0.025	ppm(v/v)	0.0062
1,1,2,2-Tetrachloroethane	ND	0.025	ppm(v/v)	0.0062
Benzyl chloride	ND	0.12	ppm(v/v)	0.010
4-Ethyltoluene	ND	0.025	ppm(v/v)	0.0088
1,3,5-Trimethylbenzene	ND	0.025	ppm(v/v)	0.010
1,2,4-Trimethylbenzene	ND	0.025	ppm(v/v)	0.010
1,3-Dichlorobenzene	ND	0.025	ppm(v/v)	0.0088
1,4-Dichlorobenzene	ND	0.025	ppm(v/v)	0.010
1,2-Dichlorobenzene	ND	0.025	ppm(v/v)	0.010
1,2,4-Trichloro-benzene	ND	0.25	ppm(v/v)	0.012
Hexachlorobutadiene	ND	0.050	ppm(v/v)	0.012
Methyl tert-butyl ether (MTBE)	ND	0.12	ppm(v/v)	0.0062

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_4_AV021903_0001

GC/MS Volatiles

Lot-Sample #: E3B190275-007 **Work Order #:** FHWLW1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_1B_AV021903_0001

GC/MS Volatiles

Lot-Sample #...: E3B190275-008 **Work Order #...:** FHWLX1AA **Matrix.....:** AIR
Date Sampled...: 02/19/03 13:55 **Date Received..:** 02/19/03 16:50 **MS Run #.....:**
Prep Date.....: 02/20/03 **Analysis Date..:** 02/20/03
Prep Batch #...: 3051479 **Analysis Time..:** 12:48
Dilution Factor: 5
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**4.6**	**2.5**	**ppm(v/v)**	**0.50**
Dichlorodifluoromethane	ND	0.010	ppm(v/v)	0.0025
Chloromethane	ND	0.020	ppm(v/v)	0.0050
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.010	ppm(v/v)	0.0040
Vinyl chloride	ND	0.010	ppm(v/v)	0.0040
Bromomethane	ND	0.010	ppm(v/v)	0.0050
Chloroethane	ND	0.020	ppm(v/v)	0.0040
Trichlorofluoromethane	ND	0.010	ppm(v/v)	0.0025
1,1-Dichloroethene	**0.11**	**0.010**	**ppm(v/v)**	**0.0025**
Carbon disulfide	ND	0.050	ppm(v/v)	0.010
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.010	ppm(v/v)	0.0025
Acetone	ND	0.050	ppm(v/v)	0.010
Methylene chloride	ND	0.010	ppm(v/v)	0.0040
trans-1,2-Dichloroethene	ND	0.010	ppm(v/v)	0.0025
1,1-Dichloroethane	**0.0043 J**	**0.010**	**ppm(v/v)**	**0.0025**
Vinyl acetate	ND	0.050	ppm(v/v)	0.010
cis-1,2-Dichloroethene	**0.0055 J**	**0.010**	**ppm(v/v)**	**0.0040**
2-Butanone (MEK)	ND	0.050	ppm(v/v)	0.010
Chloroform	**0.0081 J**	**0.010**	**ppm(v/v)**	**0.0040**
1,1,1-Trichloroethane	**0.0076 J**	**0.010**	**ppm(v/v)**	**0.0025**
Carbon tetrachloride	ND	0.010	ppm(v/v)	0.0025
Benzene	ND	0.010	ppm(v/v)	0.0040
1,2-Dichloroethane	ND	0.010	ppm(v/v)	0.0040
Trichloroethene	**2.3**	**0.010**	**ppm(v/v)**	**0.0025**
1,2-Dichloropropane	ND	0.010	ppm(v/v)	0.0040
Bromodichloromethane	ND	0.010	ppm(v/v)	0.0040
cis-1,3-Dichloropropene	ND	0.010	ppm(v/v)	0.0025
4-Methyl-2-pentanone (MIBK)	ND	0.050	ppm(v/v)	0.010
Toluene	**0.0077 J**	**0.025**	**ppm(v/v)**	**0.0025**
trans-1,3-Dichloropropene	ND	0.010	ppm(v/v)	0.0040
1,1,2-Trichloroethane	ND	0.010	ppm(v/v)	0.0030
Tetrachloroethene	**0.010**	**0.010**	**ppm(v/v)**	**0.0030**
2-Hexanone	ND	0.15	ppm(v/v)	0.0050

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_1B_AV021903_0001

GC/MS Volatiles

Lot-Sample #...: E3B190275-008 **Work Order #...:** FHWLX1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.010	ppm(v/v)	0.0025
1,2-Dibromoethane (EDB)	ND	0.010	ppm(v/v)	0.0025
Chlorobenzene	ND	0.010	ppm(v/v)	0.0025
Ethylbenzene	ND	0.010	ppm(v/v)	0.0025
Xylenes (total)	**0.0086 J**	**0.010**	**ppm(v/v)**	**0.0040**
Styrene	ND	0.010	ppm(v/v)	0.0030
Bromoform	ND	0.010	ppm(v/v)	0.0025
1,1,2,2-Tetrachloroethane	ND	0.010	ppm(v/v)	0.0025
Benzyl chloride	ND	0.050	ppm(v/v)	0.0040
4-Ethyltoluene	**0.0052 J**	**0.010**	**ppm(v/v)**	**0.0035**
1,3,5-Trimethylbenzene	ND	0.010	ppm(v/v)	0.0040
1,2,4-Trimethylbenzene	**0.0045 J**	**0.010**	**ppm(v/v)**	**0.0040**
1,3-Dichlorobenzene	ND	0.010	ppm(v/v)	0.0035
1,4-Dichlorobenzene	ND	0.010	ppm(v/v)	0.0040
1,2-Dichlorobenzene	ND	0.010	ppm(v/v)	0.0040
1,2,4-Trichloro-benzene	ND	0.10	ppm(v/v)	0.0050
Hexachlorobutadiene	ND	0.020	ppm(v/v)	0.0050
Methyl tert-butyl ether (MTBE)	ND	0.050	ppm(v/v)	0.0025

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_1B_AV021903_0001

GC/MS Volatiles

Lot-Sample #: E3B190275-008 **Work Order #:** FHWLX1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
cyclohexanone	108-94-1	0.035	M	17.527	ppm(v/v)

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

QC DATA ASSOCIATION SUMMARY

E3B190275

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	EPA-21 TO-14A		3051247	
002	AIR	EPA-21 TO-14A		3051247	
003	AIR	EPA-21 TO-14A		3051247	
004	AIR	EPA-21 TO-14A		3051247	
005	AIR	EPA-21 TO-14A		3051479	
006	AIR	EPA-21 TO-14A		3051479	
007	AIR	EPA-21 TO-14A		3051479	
008	AIR	EPA-21 TO-14A		3051479	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E3B190275 **Work Order #...:** FHXHF1AA **Matrix.....:** AIR
MB Lot-Sample #: M3B200000-247

Prep Date.....: 02/19/03 **Analysis Time..:** 11:59
Analysis Date..: 02/19/03 **Prep Batch #...:** 3051247 **Instrument ID..:** MSB
Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Non-Methane Hydroca	ND	0.50	ppm(v/v)	EPA-21 TO-14A
Dichlorodifluoromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chloromethane	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Vinyl chloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromomethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chloroethane	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Carbon disulfide	ND	0.010	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Acetone	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Methylene chloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
trans-1,2-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Vinyl acetate	ND	0.010	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
2-Butanone (MEK)	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Chloroform	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Carbon tetrachloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Benzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloropropane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromodichloromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
cis-1,3-Dichloropropene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
4-Methyl-2-pentanone (MIBK)	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Toluene	ND	0.0050	ppm(v/v)	EPA-21 TO-14A
trans-1,3-Dichloropropene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
2-Hexanone	ND	0.030	ppm(v/v)	EPA-21 TO-14A
Dibromochloromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dibromoethane (EDB)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E3B190275 **Work Order #...:** FHXHF1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Xylenes (total)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Styrene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromoform	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Benzyl chloride	ND	0.010	ppm(v/v)	EPA-21 TO-14A
4-Ethyltoluene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,3,5-Trimethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,3-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,4-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trichloro-benzene	ND	0.020	ppm(v/v)	EPA-21 TO-14A
Hexachlorobutadiene	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	ND	0.010	ppm(v/v)	EPA-21 TO-14A

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E3B190275 **Work Order #...:** FH0W11AA **Matrix.....:** AIR
MB Lot-Sample #: M3B200000-479

Prep Date.....: 02/20/03 **Analysis Time..:** 10:37
Analysis Date..: 02/20/03 **Prep Batch #...:** 3051479 **Instrument ID..:** MSB
Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Non-Methane Hydroca	ND	0.50	ppm(v/v)	EPA-21 TO-14A
Dichlorodifluoromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chloromethane	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Vinyl chloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromomethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chloroethane	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Carbon disulfide	ND	0.010	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Acetone	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Methylene chloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
trans-1,2-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Vinyl acetate	ND	0.010	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
2-Butanone (MEK)	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Chloroform	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Carbon tetrachloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Benzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloropropane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromodichloromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
cis-1,3-Dichloropropene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
4-Methyl-2-pentanone (MIBK)	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Toluene	ND	0.0050	ppm(v/v)	EPA-21 TO-14A
trans-1,3-Dichloropropene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
2-Hexanone	ND	0.030	ppm(v/v)	EPA-21 TO-14A
Dibromochloromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dibromoethane (EDB)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E3B190275 **Work Order #...:** FH0W11AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Xylenes (total)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Styrene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromoform	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Benzyl chloride	ND	0.010	ppm(v/v)	EPA-21 TO-14A
4-Ethyltoluene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,3,5-Trimethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,3-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,4-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trichloro-benzene	ND	0.020	ppm(v/v)	EPA-21 TO-14A
Hexachlorobutadiene	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	ND	0.010	ppm(v/v)	EPA-21 TO-14A

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E3B190275 Work Order #...: FHXHF1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M3B200000-247 FHXHF1AD-LCSD
Prep Date.....: 02/19/03 Analysis Date..: 02/19/03
Prep Batch #...: 3051247 Analysis Time..: 10:53
Dilution Factor: 1 Instrument ID..: MSB
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	97	(70 - 125)			EPA-21 TO-14A
	97	(70 - 125)	0.27	(0-20)	EPA-21 TO-14A
Methylene chloride	94	(75 - 120)			EPA-21 TO-14A
	94	(75 - 120)	0.47	(0-20)	EPA-21 TO-14A
Trichloroethene	86	(70 - 125)			EPA-21 TO-14A
	85	(70 - 125)	1.0	(0-20)	EPA-21 TO-14A
Toluene	92	(75 - 125)			EPA-21 TO-14A
	92	(75 - 125)	0.050	(0-20)	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	88	(65 - 130)			EPA-21 TO-14A
	89	(65 - 130)	0.77	(0-20)	EPA-21 TO-14A

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 #...: E3B190275 Work Order #...: FHXHF1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M3B200000-247 FHXHF1AD-LCSD
Prep Date.....: 02/19/03 Analysis Date..: 02/19/03
Prep Batch #...: 3051247 Analysis Time..: 10:53
Dilution Factor: 1 Instrument ID..: MSB
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	0.0591	0.0572	ppm(v/v)	97		EPA-21 TO-14A
	0.0591	0.0573	ppm(v/v)	97	0.27	EPA-21 TO-14A
Methylene chloride	0.0587	0.0550	ppm(v/v)	94		EPA-21 TO-14A
	0.0587	0.0553	ppm(v/v)	94	0.47	EPA-21 TO-14A
Trichloroethene	0.0595	0.0514	ppm(v/v)	86		EPA-21 TO-14A
	0.0595	0.0509	ppm(v/v)	85	1.0	EPA-21 TO-14A
Toluene	0.0557	0.0515	ppm(v/v)	92		EPA-21 TO-14A
	0.0557	0.0515	ppm(v/v)	92	0.050	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	0.0554	0.0490	ppm(v/v)	88		EPA-21 TO-14A
	0.0554	0.0494	ppm(v/v)	89	0.77	EPA-21 TO-14A

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 #...: E3B190275 Work Order #...: FH0W11AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M3B200000-479 FH0W11AD-LCSD
Prep Date.....: 02/20/03 Analysis Date..: 02/20/03
Prep Batch #...: 3051479 Analysis Time..: 09:33
Dilution Factor: 1 Instrument ID..: MSB
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	92	(70 - 125)			EPA-21 TO-14A
	94	(70 - 125)	2.1	(0-20)	EPA-21 TO-14A
Methylene chloride	91	(75 - 120)			EPA-21 TO-14A
	95	(75 - 120)	4.3	(0-20)	EPA-21 TO-14A
Trichloroethene	86	(70 - 125)			EPA-21 TO-14A
	86	(70 - 125)	0.39	(0-20)	EPA-21 TO-14A
Toluene	93	(75 - 125)			EPA-21 TO-14A
	91	(75 - 125)	1.3	(0-20)	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	86	(65 - 130)			EPA-21 TO-14A
	87	(65 - 130)	1.7	(0-20)	EPA-21 TO-14A

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 #...: E3B190275 Work Order #...: FH0W11AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M3B200000-479 FH0W11AD-LCSD
Prep Date.....: 02/20/03 Analysis Date..: 02/20/03
Prep Batch #...: 3051479 Analysis Time..: 09:33
Dilution Factor: 1 Instrument ID..: MSB
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	0.0591	0.0546	ppm(v/v)	92		EPA-21 TO-14A
	0.0591	0.0558	ppm(v/v)	94	2.1	EPA-21 TO-14A
Methylene chloride	0.0587	0.0533	ppm(v/v)	91		EPA-21 TO-14A
	0.0587	0.0556	ppm(v/v)	95	4.3	EPA-21 TO-14A
Trichloroethene	0.0595	0.0514	ppm(v/v)	86		EPA-21 TO-14A
	0.0595	0.0512	ppm(v/v)	86	0.39	EPA-21 TO-14A
Toluene	0.0557	0.0516	ppm(v/v)	93		EPA-21 TO-14A
	0.0557	0.0509	ppm(v/v)	91	1.3	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	0.0554	0.0474	ppm(v/v)	86		EPA-21 TO-14A
	0.0554	0.0482	ppm(v/v)	87	1.7	EPA-21 TO-14A

NOTE(S):

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

Bold print denotes control parameters

EXECUTIVE SUMMARY - Detection Highlights

E3B200333

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GAC002U_AV022003_0001 02/20/03 12:00 001				
Total Non-Methane Hydrocarbons	8.8	6.2	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.33	0.025	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.012 J	0.025	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.012 J	0.025	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.13	0.025	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.033	0.025	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	4.1	0.025	ppm(v/v)	EPA-21 TO-14A
Toluene	0.010 J	0.062	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.057	0.025	ppm(v/v)	EPA-21 TO-14A
GAC002U_AV022003_0002 02/20/03 15:30 002				
Total Non-Methane Hydrocarbons	7.4	6.2	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.35	0.025	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.010 J	0.025	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.011 J	0.025	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.12	0.025	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.022 J	0.025	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	3.4	0.025	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.053	0.025	ppm(v/v)	EPA-21 TO-14A
2_VEW_19_AV022003_0001 02/20/03 16:00 003				
Total Non-Methane Hydrocarbons	8.8	6.2	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	0.027	0.025	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.96	0.025	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.013 J	0.025	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.019 J	0.025	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	3.8	0.025	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.17	0.025	ppm(v/v)	EPA-21 TO-14A
2_VEW_9_AV022003_0001 02/20/03 16:10 004				
Total Non-Methane Hydrocarbons	12	8.3	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	0.026 J	0.033	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.44	0.033	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.021 J	0.033	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.022 J	0.033	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	6.0	0.033	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.10	0.033	ppm(v/v)	EPA-21 TO-14A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E3B200333

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
2_VEW_11B_AV022003_0001 02/20/03 16:20 005				
Total Non-Methane Hydrocarbons	19	12	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	0.022 J	0.050	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	3.0	0.050	ppm(v/v)	EPA-21 TO-14A
trans-1,2-Dichloroethene	0.013 J	0.050	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.030 J	0.050	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	8.2	0.050	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.23	0.050	ppm(v/v)	EPA-21 TO-14A
2_VEW_10B_AV022003_0001 02/20/03 16:30 006				
Total Non-Methane Hydrocarbons	13	10	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.45	0.040	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.012 J	0.040	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.47	0.040	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.022 J	0.040	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	6.0	0.040	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.092	0.040	ppm(v/v)	EPA-21 TO-14A
2_VEW_15B_AV022003_0001 02/20/03 16:40 007				
Total Non-Methane Hydrocarbons	17	12	ppm(v/v)	EPA-21 TO-14A
Dichlorodifluoromethane	0.034 J	0.050	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	0.018 J	0.050	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.70	0.050	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.082	0.050	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	5.5	0.050	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.10	0.050	ppm(v/v)	EPA-21 TO-14A
2_VEW_8B_AV022003_0001 02/20/03 16:55 008				
Total Non-Methane Hydrocarbons	13	10	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	0.013 J	0.040	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.85	0.040	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.028 J	0.040	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.026 J	0.040	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.32	0.040	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.049	0.040	ppm(v/v)	EPA-21 TO-14A
Carbon tetrachloride	0.020 J	0.040	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	5.8	0.040	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.15	0.040	ppm(v/v)	EPA-21 TO-14A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E3B200333

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
2_VEW_4_AV022003_0001 02/20/03 17:05 009				
Total Non-Methane Hydrocarbons	5.1	3.3	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.056	0.013	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.015	0.013	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.0054 J	0.013	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.0090 J	0.013	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.081	0.013	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	2.5	0.013	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.0081 J	0.013	ppm(v/v)	EPA-21 TO-14A
2_VEW_1B_AV022003_0001 02/20/03 17:15 010				
Total Non-Methane Hydrocarbons	89	83	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	2.3	0.33	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.092 J	0.33	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.10 J	0.33	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	44	0.33	ppm(v/v)	EPA-21 TO-14A
GAC002U_AV022003_0003 02/20/03 17:30 011				
Total Non-Methane Hydrocarbons	8.7	5.0	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	0.0080 J	0.020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	0.45	0.020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	0.013 J	0.020	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	0.012 J	0.020	ppm(v/v)	EPA-21 TO-14A
Chloroform	0.15	0.020	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	0.027	0.020	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	4.0	0.020	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	0.065	0.020	ppm(v/v)	EPA-21 TO-14A

METHODS SUMMARY

E3B200333

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by TO-14A	EPA-21 TO-14A	

References:

EPA-21 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", Second Edition, EPA/625/R-96/010b, January 1999

SAMPLE SUMMARY

E3B200333

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
FH03K	001	GAC002U_AV022003_0001	02/20/03	12:00
FH03M	002	GAC002U_AV022003_0002	02/20/03	15:30
FH03P	003	2_VEW_19_AV022003_0001	02/20/03	16:00
FH03Q	004	2_VEW_9_AV022003_0001	02/20/03	16:10
FH03R	005	2_VEW_11B_AV022003_0001	02/20/03	16:20
FH03T	006	2_VEW_10B_AV022003_0001	02/20/03	16:30
FH03V	007	2_VEW_15B_AV022003_0001	02/20/03	16:40
FH03W	008	2_VEW_8B_AV022003_0001	02/20/03	16:55
FH030	009	2_VEW_4_AV022003_0001	02/20/03	17:05
FH031	010	2_VEW_1B_AV022003_0001	02/20/03	17:15
FH032	011	GAC002U_AV022003_0003	02/20/03	17:30

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.

HALEY & ALDRICH INC

Client Sample ID: GAC002U_AV022003_0001

GC/MS Volatiles

Lot-Sample #...: E3B200333-001 **Work Order #...:** FH03K1AA **Matrix.....:** AE
Date Sampled...: 02/20/03 12:00 **Date Received..:** 02/20/03 19:00 **MS Run #.....:**
Prep Date.....: 02/21/03 **Analysis Date..:** 02/21/03
Prep Batch #...: 3052534 **Analysis Time..:** 09:54
Dilution Factor: 12.5
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**8.8**	**6.2**	**ppm(v/v)**	**1.2**
Dichlorodifluoromethane	ND	0.025	ppm(v/v)	0.0062
Chloromethane	ND	0.050	ppm(v/v)	0.012
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.025	ppm(v/v)	0.010
Vinyl chloride	ND	0.025	ppm(v/v)	0.010
Bromomethane	ND	0.025	ppm(v/v)	0.012
Chloroethane	ND	0.050	ppm(v/v)	0.010
Trichlorofluoromethane	ND	0.025	ppm(v/v)	0.0062
1,1-Dichloroethene	**0.33**	**0.025**	**ppm(v/v)**	**0.0062**
Carbon disulfide	ND	0.12	ppm(v/v)	0.025
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.025	ppm(v/v)	0.0062
Acetone	ND	0.12	ppm(v/v)	0.025
Methylene chloride	ND	0.025	ppm(v/v)	0.010
trans-1,2-Dichloroethene	ND	0.025	ppm(v/v)	0.0062
1,1-Dichloroethane	**0.012 J**	**0.025**	**ppm(v/v)**	**0.0062**
Vinyl acetate	ND	0.12	ppm(v/v)	0.025
cis-1,2-Dichloroethene	**0.012 J**	**0.025**	**ppm(v/v)**	**0.010**
2-Butanone (MEK)	ND	0.12	ppm(v/v)	0.025
Chloroform	**0.13**	**0.025**	**ppm(v/v)**	**0.010**
1,1,1-Trichloroethane	**0.033**	**0.025**	**ppm(v/v)**	**0.0062**
Carbon tetrachloride	ND	0.025	ppm(v/v)	0.0062
Benzene	ND	0.025	ppm(v/v)	0.010
1,2-Dichloroethane	ND	0.025	ppm(v/v)	0.010
Trichloroethene	**4.1**	**0.025**	**ppm(v/v)**	**0.0062**
1,2-Dichloropropane	ND	0.025	ppm(v/v)	0.010
Bromodichloromethane	ND	0.025	ppm(v/v)	0.010
cis-1,3-Dichloropropene	ND	0.025	ppm(v/v)	0.0062
4-Methyl-2-pentanone (MIBK)	ND	0.12	ppm(v/v)	0.025
Toluene	**0.010 J**	**0.062**	**ppm(v/v)**	**0.0062**
trans-1,3-Dichloropropene	ND	0.025	ppm(v/v)	0.010
1,1,2-Trichloroethane	ND	0.025	ppm(v/v)	0.0075
Tetrachloroethene	**0.057**	**0.025**	**ppm(v/v)**	**0.0075**
2-Hexanone	ND	0.38	ppm(v/v)	0.012

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HALEY & ALDRICH INC

Client Sample ID: GAC002U_AV022003_0001

GC/MS Volatiles

Lot-Sample #...: E3B200333-001 **Work Order #...:** FH03K1AA **Matrix.....:** AE

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.025	ppm(v/v)	0.0062
1,2-Dibromoethane (EDB)	ND	0.025	ppm(v/v)	0.0062
Chlorobenzene	ND	0.025	ppm(v/v)	0.0062
Ethylbenzene	ND	0.025	ppm(v/v)	0.0062
Xylenes (total)	ND	0.025	ppm(v/v)	0.010
Styrene	ND	0.025	ppm(v/v)	0.0075
Bromoform	ND	0.025	ppm(v/v)	0.0062
1,1,2,2-Tetrachloroethane	ND	0.025	ppm(v/v)	0.0062
Benzyl chloride	ND	0.12	ppm(v/v)	0.010
4-Ethyltoluene	ND	0.025	ppm(v/v)	0.0088
1,3,5-Trimethylbenzene	ND	0.025	ppm(v/v)	0.010
1,2,4-Trimethylbenzene	ND	0.025	ppm(v/v)	0.010
1,3-Dichlorobenzene	ND	0.025	ppm(v/v)	0.0088
1,4-Dichlorobenzene	ND	0.025	ppm(v/v)	0.010
1,2-Dichlorobenzene	ND	0.025	ppm(v/v)	0.010
1,2,4-Trichloro-benzene	ND	0.25	ppm(v/v)	0.012
Hexachlorobutadiene	ND	0.050	ppm(v/v)	0.012
Methyl tert-butyl ether (MTBE)	ND	0.12	ppm(v/v)	0.0062

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

GAC002U_AV022003_0001

GC/MS Volatiles

Lot-Sample #: E3B200333-001 **Work Order #:** FH03K1AA **Matrix:** AE

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: GAC002U_AV022003_0002

GC/MS Volatiles

Lot-Sample #...: E3B200333-002 **Work Order #...:** FH03M1AA **Matrix.....:** AE
Date Sampled...: 02/20/03 15:30 **Date Received..:** 02/20/03 19:00 **MS Run #.....:**
Prep Date.....: 02/21/03 **Analysis Date..:** 02/21/03
Prep Batch #...: 3052534 **Analysis Time..:** 10:27
Dilution Factor: 12.5
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**7.4**	**6.2**	**ppm(v/v)**	**1.2**
Dichlorodifluoromethane	ND	0.025	ppm(v/v)	0.0062
Chloromethane	ND	0.050	ppm(v/v)	0.012
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.025	ppm(v/v)	0.010
Vinyl chloride	ND	0.025	ppm(v/v)	0.010
Bromomethane	ND	0.025	ppm(v/v)	0.012
Chloroethane	ND	0.050	ppm(v/v)	0.010
Trichlorofluoromethane	ND	0.025	ppm(v/v)	0.0062
1,1-Dichloroethene	**0.35**	**0.025**	**ppm(v/v)**	**0.0062**
Carbon disulfide	ND	0.12	ppm(v/v)	0.025
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.025	ppm(v/v)	0.0062
Acetone	ND	0.12	ppm(v/v)	0.025
Methylene chloride	ND	0.025	ppm(v/v)	0.010
trans-1,2-Dichloroethene	ND	0.025	ppm(v/v)	0.0062
1,1-Dichloroethane	**0.010 J**	**0.025**	**ppm(v/v)**	**0.0062**
Vinyl acetate	ND	0.12	ppm(v/v)	0.025
cis-1,2-Dichloroethene	**0.011 J**	**0.025**	**ppm(v/v)**	**0.010**
2-Butanone (MEK)	ND	0.12	ppm(v/v)	0.025
Chloroform	**0.12**	**0.025**	**ppm(v/v)**	**0.010**
1,1,1-Trichloroethane	**0.022 J**	**0.025**	**ppm(v/v)**	**0.0062**
Carbon tetrachloride	ND	0.025	ppm(v/v)	0.0062
Benzene	ND	0.025	ppm(v/v)	0.010
1,2-Dichloroethane	ND	0.025	ppm(v/v)	0.010
Trichloroethene	**3.4**	**0.025**	**ppm(v/v)**	**0.0062**
1,2-Dichloropropane	ND	0.025	ppm(v/v)	0.010
Bromodichloromethane	ND	0.025	ppm(v/v)	0.010
cis-1,3-Dichloropropene	ND	0.025	ppm(v/v)	0.0062
4-Methyl-2-pentanone (MIBK)	ND	0.12	ppm(v/v)	0.025
Toluene	ND	0.062	ppm(v/v)	0.0062
trans-1,3-Dichloropropene	ND	0.025	ppm(v/v)	0.010
1,1,2-Trichloroethane	ND	0.025	ppm(v/v)	0.0075
Tetrachloroethene	**0.053**	**0.025**	**ppm(v/v)**	**0.0075**
2-Hexanone	ND	0.38	ppm(v/v)	0.012

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HALEY & ALDRICH INC

Client Sample ID: GAC002U_AV022003_0002

GC/MS Volatiles

Lot-Sample #...: E3B200333-002 **Work Order #...:** FH03M1AA **Matrix.....:** AE

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.025	ppm(v/v)	0.0062
1,2-Dibromoethane (EDB)	ND	0.025	ppm(v/v)	0.0062
Chlorobenzene	ND	0.025	ppm(v/v)	0.0062
Ethylbenzene	ND	0.025	ppm(v/v)	0.0062
Xylenes (total)	ND	0.025	ppm(v/v)	0.010
Styrene	ND	0.025	ppm(v/v)	0.0075
Bromoform	ND	0.025	ppm(v/v)	0.0062
1,1,2,2-Tetrachloroethane	ND	0.025	ppm(v/v)	0.0062
Benzyl chloride	ND	0.12	ppm(v/v)	0.010
4-Ethyltoluene	ND	0.025	ppm(v/v)	0.0088
1,3,5-Trimethylbenzene	ND	0.025	ppm(v/v)	0.010
1,2,4-Trimethylbenzene	ND	0.025	ppm(v/v)	0.010
1,3-Dichlorobenzene	ND	0.025	ppm(v/v)	0.0088
1,4-Dichlorobenzene	ND	0.025	ppm(v/v)	0.010
1,2-Dichlorobenzene	ND	0.025	ppm(v/v)	0.010
1,2,4-Trichloro-benzene	ND	0.25	ppm(v/v)	0.012
Hexachlorobutadiene	ND	0.050	ppm(v/v)	0.012
Methyl tert-butyl ether (MTBE)	ND	0.12	ppm(v/v)	0.0062

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

GAC002U_AV022003_0002

GC/MS Volatiles

Lot-Sample #: E3B200333-002 **Work Order #:** FH03M1AA **Matrix:** AE

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_AV022003_0001

GC/MS Volatiles

Lot-Sample #...: E3B200333-003 **Work Order #...:** FH03P1AA **Matrix.....:** AE
Date Sampled...: 02/20/03 16:00 **Date Received..:** 02/20/03 19:00 **MS Run #.....:**
Prep Date.....: 02/21/03 **Analysis Date..:** 02/21/03
Prep Batch #...: 3052534 **Analysis Time..:** 11:00
Dilution Factor: 12.5
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**8.8**	**6.2**	**ppm(v/v)**	**1.2**
Dichlorodifluoromethane	ND	0.025	ppm(v/v)	0.0062
Chloromethane	ND	0.050	ppm(v/v)	0.012
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.025	ppm(v/v)	0.010
Vinyl chloride	ND	0.025	ppm(v/v)	0.010
Bromomethane	ND	0.025	ppm(v/v)	0.012
Chloroethane	ND	0.050	ppm(v/v)	0.010
Trichlorofluoromethane	**0.027**	**0.025**	**ppm(v/v)**	**0.0062**
1,1-Dichloroethene	**0.96**	**0.025**	**ppm(v/v)**	**0.0062**
Carbon disulfide	ND	0.12	ppm(v/v)	0.025
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.025	ppm(v/v)	0.0062
Acetone	ND	0.12	ppm(v/v)	0.025
Methylene chloride	ND	0.025	ppm(v/v)	0.010
trans-1,2-Dichloroethene	ND	0.025	ppm(v/v)	0.0062
1,1-Dichloroethane	**0.013 J**	**0.025**	**ppm(v/v)**	**0.0062**
Vinyl acetate	ND	0.12	ppm(v/v)	0.025
cis-1,2-Dichloroethene	ND	0.025	ppm(v/v)	0.010
2-Butanone (MEK)	ND	0.12	ppm(v/v)	0.025
Chloroform	**0.019 J**	**0.025**	**ppm(v/v)**	**0.010**
1,1,1-Trichloroethane	ND	0.025	ppm(v/v)	0.0062
Carbon tetrachloride	ND	0.025	ppm(v/v)	0.0062
Benzene	ND	0.025	ppm(v/v)	0.010
1,2-Dichloroethane	ND	0.025	ppm(v/v)	0.010
Trichloroethene	**3.8**	**0.025**	**ppm(v/v)**	**0.0062**
1,2-Dichloropropane	ND	0.025	ppm(v/v)	0.010
Bromodichloromethane	ND	0.025	ppm(v/v)	0.010
cis-1,3-Dichloropropene	ND	0.025	ppm(v/v)	0.0062
4-Methyl-2-pentanone (MIBK)	ND	0.12	ppm(v/v)	0.025
Toluene	ND	0.062	ppm(v/v)	0.0062
trans-1,3-Dichloropropene	ND	0.025	ppm(v/v)	0.010
1,1,2-Trichloroethane	ND	0.025	ppm(v/v)	0.0075
Tetrachloroethene	**0.17**	**0.025**	**ppm(v/v)**	**0.0075**
2-Hexanone	ND	0.38	ppm(v/v)	0.012

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_AV022003_0001

GC/MS Volatiles

Lot-Sample #...: E3B200333-003 **Work Order #...:** FH03P1AA **Matrix.....:** AE

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.025	ppm(v/v)	0.0062
1,2-Dibromoethane (EDB)	ND	0.025	ppm(v/v)	0.0062
Chlorobenzene	ND	0.025	ppm(v/v)	0.0062
Ethylbenzene	ND	0.025	ppm(v/v)	0.0062
Xylenes (total)	ND	0.025	ppm(v/v)	0.010
Styrene	ND	0.025	ppm(v/v)	0.0075
Bromoform	ND	0.025	ppm(v/v)	0.0062
1,1,2,2-Tetrachloroethane	ND	0.025	ppm(v/v)	0.0062
Benzyl chloride	ND	0.12	ppm(v/v)	0.010
4-Ethyltoluene	ND	0.025	ppm(v/v)	0.0088
1,3,5-Trimethylbenzene	ND	0.025	ppm(v/v)	0.010
1,2,4-Trimethylbenzene	ND	0.025	ppm(v/v)	0.010
1,3-Dichlorobenzene	ND	0.025	ppm(v/v)	0.0088
1,4-Dichlorobenzene	ND	0.025	ppm(v/v)	0.010
1,2-Dichlorobenzene	ND	0.025	ppm(v/v)	0.010
1,2,4-Trichloro-benzene	ND	0.25	ppm(v/v)	0.012
Hexachlorobutadiene	ND	0.050	ppm(v/v)	0.012
Methyl tert-butyl ether (MTBE)	ND	0.12	ppm(v/v)	0.0062

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_19_AV022003_0001

GC/MS Volatiles

Lot-Sample #: E3B200333-003 **Work Order #:** FH03P1AA **Matrix:** AE

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_9_AV022003_0001

GC/MS Volatiles

Lot-Sample #...: E3B200333-004 **Work Order #...:** FH03Q1AA **Matrix.....:** AE
Date Sampled...: 02/20/03 16:10 **Date Received..:** 02/20/03 19:00 **MS Run #.....:**
Prep Date.....: 02/21/03 **Analysis Date..:** 02/21/03
Prep Batch #...: 3052534 **Analysis Time..:** 11:34
Dilution Factor: 16.67
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**12**	**8.3**	**ppm(v/v)**	**1.7**
Dichlorodifluoromethane	ND	0.033	ppm(v/v)	0.0083
Chloromethane	ND	0.067	ppm(v/v)	0.017
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.033	ppm(v/v)	0.013
Vinyl chloride	ND	0.033	ppm(v/v)	0.013
Bromomethane	ND	0.033	ppm(v/v)	0.017
Chloroethane	ND	0.067	ppm(v/v)	0.013
Trichlorofluoromethane	**0.026 J**	**0.033**	**ppm(v/v)**	**0.0083**
1,1-Dichloroethene	**0.44**	**0.033**	**ppm(v/v)**	**0.0083**
Carbon disulfide	ND	0.17	ppm(v/v)	0.033
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.033	ppm(v/v)	0.0083
Acetone	ND	0.17	ppm(v/v)	0.033
Methylene chloride	ND	0.033	ppm(v/v)	0.013
trans-1,2-Dichloroethene	ND	0.033	ppm(v/v)	0.0083
1,1-Dichloroethane	**0.021 J**	**0.033**	**ppm(v/v)**	**0.0083**
Vinyl acetate	ND	0.17	ppm(v/v)	0.033
cis-1,2-Dichloroethene	ND	0.033	ppm(v/v)	0.013
2-Butanone (MEK)	ND	0.17	ppm(v/v)	0.033
Chloroform	**0.022 J**	**0.033**	**ppm(v/v)**	**0.013**
1,1,1-Trichloroethane	ND	0.033	ppm(v/v)	0.0083
Carbon tetrachloride	ND	0.033	ppm(v/v)	0.0083
Benzene	ND	0.033	ppm(v/v)	0.013
1,2-Dichloroethane	ND	0.033	ppm(v/v)	0.013
Trichloroethene	**6.0**	**0.033**	**ppm(v/v)**	**0.0083**
1,2-Dichloropropane	ND	0.033	ppm(v/v)	0.013
Bromodichloromethane	ND	0.033	ppm(v/v)	0.013
cis-1,3-Dichloropropene	ND	0.033	ppm(v/v)	0.0083
4-Methyl-2-pentanone (MIBK)	ND	0.17	ppm(v/v)	0.033
Toluene	ND	0.083	ppm(v/v)	0.0083
trans-1,3-Dichloropropene	ND	0.033	ppm(v/v)	0.013
1,1,2-Trichloroethane	ND	0.033	ppm(v/v)	0.010
Tetrachloroethene	**0.10**	**0.033**	**ppm(v/v)**	**0.010**
2-Hexanone	ND	0.50	ppm(v/v)	0.017

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_9_AV022003_0001

GC/MS Volatiles

Lot-Sample #...: E3B200333-004 **Work Order #...:** FH03Q1AA **Matrix.....:** AE

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.033	ppm(v/v)	0.0083
1,2-Dibromoethane (EDB)	ND	0.033	ppm(v/v)	0.0083
Chlorobenzene	ND	0.033	ppm(v/v)	0.0083
Ethylbenzene	ND	0.033	ppm(v/v)	0.0083
Xylenes (total)	ND	0.033	ppm(v/v)	0.013
Styrene	ND	0.033	ppm(v/v)	0.010
Bromoform	ND	0.033	ppm(v/v)	0.0083
1,1,2,2-Tetrachloroethane	ND	0.033	ppm(v/v)	0.0083
Benzyl chloride	ND	0.17	ppm(v/v)	0.013
4-Ethyltoluene	ND	0.033	ppm(v/v)	0.012
1,3,5-Trimethylbenzene	ND	0.033	ppm(v/v)	0.013
1,2,4-Trimethylbenzene	ND	0.033	ppm(v/v)	0.013
1,3-Dichlorobenzene	ND	0.033	ppm(v/v)	0.012
1,4-Dichlorobenzene	ND	0.033	ppm(v/v)	0.013
1,2-Dichlorobenzene	ND	0.033	ppm(v/v)	0.013
1,2,4-Trichloro-benzene	ND	0.33	ppm(v/v)	0.017
Hexachlorobutadiene	ND	0.067	ppm(v/v)	0.017
Methyl tert-butyl ether (MTBE)	ND	0.17	ppm(v/v)	0.0083

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_9_AV022003_0001

GC/MS Volatiles

Lot-Sample #: E3B200333-004 **Work Order #:** FH03Q1AA **Matrix:** AE

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_11B_AV022003_0001

GC/MS Volatiles

Lot-Sample #...: E3B200333-005 **Work Order #...:** FH03R1AA **Matrix.....:** AE
Date Sampled...: 02/20/03 16:20 **Date Received..:** 02/20/03 19:00 **MS Run #.....:**
Prep Date.....: 02/21/03 **Analysis Date..:** 02/21/03
Prep Batch #...: 3052534 **Analysis Time..:** 12:07
Dilution Factor: 25
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**19**	**12**	**ppm(v/v)**	**2.5**
Dichlorodifluoromethane	ND	0.050	ppm(v/v)	0.012
Chloromethane	ND	0.10	ppm(v/v)	0.025
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	ppm(v/v)	0.020
Vinyl chloride	ND	0.050	ppm(v/v)	0.020
Bromomethane	ND	0.050	ppm(v/v)	0.025
Chloroethane	ND	0.10	ppm(v/v)	0.020
Trichlorofluoromethane	**0.022 J**	**0.050**	**ppm(v/v)**	**0.012**
1,1-Dichloroethene	**3.0**	**0.050**	**ppm(v/v)**	**0.012**
Carbon disulfide	ND	0.25	ppm(v/v)	0.050
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ppm(v/v)	0.012
Acetone	ND	0.25	ppm(v/v)	0.050
Methylene chloride	ND	0.050	ppm(v/v)	0.020
trans-1,2-Dichloroethene	**0.013 J**	**0.050**	**ppm(v/v)**	**0.012**
1,1-Dichloroethane	ND	0.050	ppm(v/v)	0.012
Vinyl acetate	ND	0.25	ppm(v/v)	0.050
cis-1,2-Dichloroethene	ND	0.050	ppm(v/v)	0.020
2-Butanone (MEK)	ND	0.25	ppm(v/v)	0.050
Chloroform	**0.030 J**	**0.050**	**ppm(v/v)**	**0.020**
1,1,1-Trichloroethane	ND	0.050	ppm(v/v)	0.012
Carbon tetrachloride	ND	0.050	ppm(v/v)	0.012
Benzene	ND	0.050	ppm(v/v)	0.020
1,2-Dichloroethane	ND	0.050	ppm(v/v)	0.020
Trichloroethene	**8.2**	**0.050**	**ppm(v/v)**	**0.012**
1,2-Dichloropropane	ND	0.050	ppm(v/v)	0.020
Bromodichloromethane	ND	0.050	ppm(v/v)	0.020
cis-1,3-Dichloropropene	ND	0.050	ppm(v/v)	0.012
4-Methyl-2-pentanone (MIBK)	ND	0.25	ppm(v/v)	0.050
Toluene	ND	0.12	ppm(v/v)	0.012
trans-1,3-Dichloropropene	ND	0.050	ppm(v/v)	0.020
1,1,2-Trichloroethane	ND	0.050	ppm(v/v)	0.015
Tetrachloroethene	**0.23**	**0.050**	**ppm(v/v)**	**0.015**
2-Hexanone	ND	0.75	ppm(v/v)	0.025

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_11B_AV022003_0001

GC/MS Volatiles

Lot-Sample #...: E3B200333-005 **Work Order #...:** FH03R1AA **Matrix.....:** AE

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.050	ppm(v/v)	0.012
1,2-Dibromoethane (EDB)	ND	0.050	ppm(v/v)	0.012
Chlorobenzene	ND	0.050	ppm(v/v)	0.012
Ethylbenzene	ND	0.050	ppm(v/v)	0.012
Xylenes (total)	ND	0.050	ppm(v/v)	0.020
Styrene	ND	0.050	ppm(v/v)	0.015
Bromoform	ND	0.050	ppm(v/v)	0.012
1,1,2,2-Tetrachloroethane	ND	0.050	ppm(v/v)	0.012
Benzyl chloride	ND	0.25	ppm(v/v)	0.020
4-Ethyltoluene	ND	0.050	ppm(v/v)	0.018
1,3,5-Trimethylbenzene	ND	0.050	ppm(v/v)	0.020
1,2,4-Trimethylbenzene	ND	0.050	ppm(v/v)	0.020
1,3-Dichlorobenzene	ND	0.050	ppm(v/v)	0.018
1,4-Dichlorobenzene	ND	0.050	ppm(v/v)	0.020
1,2-Dichlorobenzene	ND	0.050	ppm(v/v)	0.020
1,2,4-Trichloro-benzene	ND	0.50	ppm(v/v)	0.025
Hexachlorobutadiene	ND	0.10	ppm(v/v)	0.025
Methyl tert-butyl ether (MTBE)	ND	0.25	ppm(v/v)	0.012

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_11B_AV022003_0001

GC/MS Volatiles

Lot-Sample #: E3B200333-005 **Work Order #:** FH03R1AA **Matrix:** AE

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_10B_AV022003_0001

GC/MS Volatiles

Lot-Sample #...: E3B200333-006 **Work Order #...:** FH03T1AA **Matrix.....:** AE
Date Sampled...: 02/20/03 16:30 **Date Received..:** 02/20/03 19:00 **MS Run #.....:**
Prep Date.....: 02/21/03 **Analysis Date..:** 02/21/03
Prep Batch #...: 3052534 **Analysis Time..:** 17:36
Dilution Factor: 20
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**13**	**10**	**ppm(v/v)**	**2.0**
Dichlorodifluoromethane	ND	0.040	ppm(v/v)	0.010
Chloromethane	ND	0.080	ppm(v/v)	0.020
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.040	ppm(v/v)	0.016
Vinyl chloride	ND	0.040	ppm(v/v)	0.016
Bromomethane	ND	0.040	ppm(v/v)	0.020
Chloroethane	ND	0.080	ppm(v/v)	0.016
Trichlorofluoromethane	ND	0.040	ppm(v/v)	0.010
1,1-Dichloroethene	**0.45**	**0.040**	**ppm(v/v)**	**0.010**
Carbon disulfide	ND	0.20	ppm(v/v)	0.040
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.040	ppm(v/v)	0.010
Acetone	ND	0.20	ppm(v/v)	0.040
Methylene chloride	ND	0.040	ppm(v/v)	0.016
trans-1,2-Dichloroethene	ND	0.040	ppm(v/v)	0.010
1,1-Dichloroethane	**0.012 J**	**0.040**	**ppm(v/v)**	**0.010**
Vinyl acetate	ND	0.20	ppm(v/v)	0.040
cis-1,2-Dichloroethene	ND	0.040	ppm(v/v)	0.016
2-Butanone (MEK)	ND	0.20	ppm(v/v)	0.040
Chloroform	**0.47**	**0.040**	**ppm(v/v)**	**0.016**
1,1,1-Trichloroethane	**0.022 J**	**0.040**	**ppm(v/v)**	**0.010**
Carbon tetrachloride	ND	0.040	ppm(v/v)	0.010
Benzene	ND	0.040	ppm(v/v)	0.016
1,2-Dichloroethane	ND	0.040	ppm(v/v)	0.016
Trichloroethene	**6.0**	**0.040**	**ppm(v/v)**	**0.010**
1,2-Dichloropropane	ND	0.040	ppm(v/v)	0.016
Bromodichloromethane	ND	0.040	ppm(v/v)	0.016
cis-1,3-Dichloropropene	ND	0.040	ppm(v/v)	0.010
4-Methyl-2-pentanone (MIBK)	ND	0.20	ppm(v/v)	0.040
Toluene	ND	0.10	ppm(v/v)	0.010
trans-1,3-Dichloropropene	ND	0.040	ppm(v/v)	0.016
1,1,2-Trichloroethane	ND	0.040	ppm(v/v)	0.012
Tetrachloroethene	**0.092**	**0.040**	**ppm(v/v)**	**0.012**
2-Hexanone	ND	0.60	ppm(v/v)	0.020

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_10B_AV022003_0001

GC/MS Volatiles

Lot-Sample #...: E3B200333-006 **Work Order #...:** FH03T1AA **Matrix.....:** AE

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.040	ppm(v/v)	0.010
1,2-Dibromoethane (EDB)	ND	0.040	ppm(v/v)	0.010
Chlorobenzene	ND	0.040	ppm(v/v)	0.010
Ethylbenzene	ND	0.040	ppm(v/v)	0.010
Xylenes (total)	ND	0.040	ppm(v/v)	0.016
Styrene	ND	0.040	ppm(v/v)	0.012
Bromoform	ND	0.040	ppm(v/v)	0.010
1,1,2,2-Tetrachloroethane	ND	0.040	ppm(v/v)	0.010
Benzyl chloride	ND	0.20	ppm(v/v)	0.016
4-Ethyltoluene	ND	0.040	ppm(v/v)	0.014
1,3,5-Trimethylbenzene	ND	0.040	ppm(v/v)	0.016
1,2,4-Trimethylbenzene	ND	0.040	ppm(v/v)	0.016
1,3-Dichlorobenzene	ND	0.040	ppm(v/v)	0.014
1,4-Dichlorobenzene	ND	0.040	ppm(v/v)	0.016
1,2-Dichlorobenzene	ND	0.040	ppm(v/v)	0.016
1,2,4-Trichloro-benzene	ND	0.40	ppm(v/v)	0.020
Hexachlorobutadiene	ND	0.080	ppm(v/v)	0.020
Methyl tert-butyl ether (MTBE)	ND	0.20	ppm(v/v)	0.010

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_10B_AV022003_0001

GC/MS Volatiles

Lot-Sample #: E3B200333-006 **Work Order #:** FH03T1AA **Matrix:** AE

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_15B_AV022003_0001

GC/MS Volatiles

Lot-Sample #...: E3B200333-007 **Work Order #...:** FH03V1AA **Matrix.....:** AE
Date Sampled...: 02/20/03 16:40 **Date Received..:** 02/20/03 19:00 **MS Run #.....:**
Prep Date.....: 02/21/03 **Analysis Date..:** 02/21/03
Prep Batch #...: 3052534 **Analysis Time..:** 13:10
Dilution Factor: 25
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**17**	**12**	**ppm(v/v)**	**2.5**
Dichlorodifluoromethane	**0.034 J**	**0.050**	**ppm(v/v)**	**0.012**
Chloromethane	ND	0.10	ppm(v/v)	0.025
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	ppm(v/v)	0.020
Vinyl chloride	ND	0.050	ppm(v/v)	0.020
Bromomethane	ND	0.050	ppm(v/v)	0.025
Chloroethane	ND	0.10	ppm(v/v)	0.020
Trichlorofluoromethane	**0.018 J**	**0.050**	**ppm(v/v)**	**0.012**
1,1-Dichloroethene	**0.70**	**0.050**	**ppm(v/v)**	**0.012**
Carbon disulfide	ND	0.25	ppm(v/v)	0.050
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ppm(v/v)	0.012
Acetone	ND	0.25	ppm(v/v)	0.050
Methylene chloride	ND	0.050	ppm(v/v)	0.020
trans-1,2-Dichloroethene	ND	0.050	ppm(v/v)	0.012
1,1-Dichloroethane	ND	0.050	ppm(v/v)	0.012
Vinyl acetate	ND	0.25	ppm(v/v)	0.050
cis-1,2-Dichloroethene	ND	0.050	ppm(v/v)	0.020
2-Butanone (MEK)	ND	0.25	ppm(v/v)	0.050
Chloroform	**0.082**	**0.050**	**ppm(v/v)**	**0.020**
1,1,1-Trichloroethane	ND	0.050	ppm(v/v)	0.012
Carbon tetrachloride	ND	0.050	ppm(v/v)	0.012
Benzene	ND	0.050	ppm(v/v)	0.020
1,2-Dichloroethane	ND	0.050	ppm(v/v)	0.020
Trichloroethene	**5.5**	**0.050**	**ppm(v/v)**	**0.012**
1,2-Dichloropropane	ND	0.050	ppm(v/v)	0.020
Bromodichloromethane	ND	0.050	ppm(v/v)	0.020
cis-1,3-Dichloropropene	ND	0.050	ppm(v/v)	0.012
4-Methyl-2-pentanone (MIBK)	ND	0.25	ppm(v/v)	0.050
Toluene	ND	0.12	ppm(v/v)	0.012
trans-1,3-Dichloropropene	ND	0.050	ppm(v/v)	0.020
1,1,2-Trichloroethane	ND	0.050	ppm(v/v)	0.015
Tetrachloroethene	**0.10**	**0.050**	**ppm(v/v)**	**0.015**
2-Hexanone	ND	0.75	ppm(v/v)	0.025

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_15B_AV022003_0001

GC/MS Volatiles

Lot-Sample #...: E3B200333-007 **Work Order #...:** FH03V1AA **Matrix.....:** AE

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.050	ppm(v/v)	0.012
1,2-Dibromoethane (EDB)	ND	0.050	ppm(v/v)	0.012
Chlorobenzene	ND	0.050	ppm(v/v)	0.012
Ethylbenzene	ND	0.050	ppm(v/v)	0.012
Xylenes (total)	ND	0.050	ppm(v/v)	0.020
Styrene	ND	0.050	ppm(v/v)	0.015
Bromoform	ND	0.050	ppm(v/v)	0.012
1,1,2,2-Tetrachloroethane	ND	0.050	ppm(v/v)	0.012
Benzyl chloride	ND	0.25	ppm(v/v)	0.020
4-Ethyltoluene	ND	0.050	ppm(v/v)	0.018
1,3,5-Trimethylbenzene	ND	0.050	ppm(v/v)	0.020
1,2,4-Trimethylbenzene	ND	0.050	ppm(v/v)	0.020
1,3-Dichlorobenzene	ND	0.050	ppm(v/v)	0.018
1,4-Dichlorobenzene	ND	0.050	ppm(v/v)	0.020
1,2-Dichlorobenzene	ND	0.050	ppm(v/v)	0.020
1,2,4-Trichloro-benzene	ND	0.50	ppm(v/v)	0.025
Hexachlorobutadiene	ND	0.10	ppm(v/v)	0.025
Methyl tert-butyl ether (MTBE)	ND	0.25	ppm(v/v)	0.012

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_15B_AV022003_0001

GC/MS Volatiles

Lot-Sample #: E3B200333-007 **Work Order #:** FH03V1AA **Matrix:** AE

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
butane, 2-methyl-	78-78-4	1.2	M	3.4517	ppm(v/v)
unknown branched alkane		1.0	M	5.6451	ppm(v/v)
unknown branched alkane		0.46	M	6.1054	ppm(v/v)
Hexane	110-54-3	0.27	M	6.6199	ppm(v/v)
Cyclopentane, methyl-	96-37-7	0.36	M	7.6759	ppm(v/v)
unknown branched alkane		0.17	M	8.8494	ppm(v/v)
unknown branched alkane		0.14	M	8.9577	ppm(v/v)
unknown branched alkane		0.17	M	9.1563	ppm(v/v)
unknown branched alkane		0.35	M	9.5805	ppm(v/v)

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_8B_AV022003_0001

GC/MS Volatiles

Lot-Sample #...: E3B200333-008 **Work Order #...:** FH03W1AA **Matrix.....:** AE
Date Sampled...: 02/20/03 16:55 **Date Received..:** 02/20/03 19:00 **MS Run #.....:**
Prep Date.....: 02/21/03 **Analysis Date..:** 02/21/03
Prep Batch #...: 3052534 **Analysis Time..:** 13:42
Dilution Factor: 20
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**13**	**10**	**ppm(v/v)**	**2.0**
Dichlorodifluoromethane	ND	0.040	ppm(v/v)	0.010
Chloromethane	ND	0.080	ppm(v/v)	0.020
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.040	ppm(v/v)	0.016
Vinyl chloride	ND	0.040	ppm(v/v)	0.016
Bromomethane	ND	0.040	ppm(v/v)	0.020
Chloroethane	ND	0.080	ppm(v/v)	0.016
Trichlorofluoromethane	**0.013 J**	**0.040**	**ppm(v/v)**	**0.010**
1,1-Dichloroethene	**0.85**	**0.040**	**ppm(v/v)**	**0.010**
Carbon disulfide	ND	0.20	ppm(v/v)	0.040
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.040	ppm(v/v)	0.010
Acetone	ND	0.20	ppm(v/v)	0.040
Methylene chloride	ND	0.040	ppm(v/v)	0.016
trans-1,2-Dichloroethene	ND	0.040	ppm(v/v)	0.010
1,1-Dichloroethane	**0.028 J**	**0.040**	**ppm(v/v)**	**0.010**
Vinyl acetate	ND	0.20	ppm(v/v)	0.040
cis-1,2-Dichloroethene	**0.026 J**	**0.040**	**ppm(v/v)**	**0.016**
2-Butanone (MEK)	ND	0.20	ppm(v/v)	0.040
Chloroform	**0.32**	**0.040**	**ppm(v/v)**	**0.016**
1,1,1-Trichloroethane	**0.049**	**0.040**	**ppm(v/v)**	**0.010**
Carbon tetrachloride	**0.020 J**	**0.040**	**ppm(v/v)**	**0.010**
Benzene	ND	0.040	ppm(v/v)	0.016
1,2-Dichloroethane	ND	0.040	ppm(v/v)	0.016
Trichloroethene	**5.8**	**0.040**	**ppm(v/v)**	**0.010**
1,2-Dichloropropane	ND	0.040	ppm(v/v)	0.016
Bromodichloromethane	ND	0.040	ppm(v/v)	0.016
cis-1,3-Dichloropropene	ND	0.040	ppm(v/v)	0.010
4-Methyl-2-pentanone (MIBK)	ND	0.20	ppm(v/v)	0.040
Toluene	ND	0.10	ppm(v/v)	0.010
trans-1,3-Dichloropropene	ND	0.040	ppm(v/v)	0.016
1,1,2-Trichloroethane	ND	0.040	ppm(v/v)	0.012
Tetrachloroethene	**0.15**	**0.040**	**ppm(v/v)**	**0.012**
2-Hexanone	ND	0.60	ppm(v/v)	0.020

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_8B_AV022003_0001

GC/MS Volatiles

Lot-Sample #...: E3B200333-008 **Work Order #...:** FH03W1AA **Matrix.....:** AE

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.040	ppm(v/v)	0.010
1,2-Dibromoethane (EDB)	ND	0.040	ppm(v/v)	0.010
Chlorobenzene	ND	0.040	ppm(v/v)	0.010
Ethylbenzene	ND	0.040	ppm(v/v)	0.010
Xylenes (total)	ND	0.040	ppm(v/v)	0.016
Styrene	ND	0.040	ppm(v/v)	0.012
Bromoform	ND	0.040	ppm(v/v)	0.010
1,1,2,2-Tetrachloroethane	ND	0.040	ppm(v/v)	0.010
Benzyl chloride	ND	0.20	ppm(v/v)	0.016
4-Ethyltoluene	ND	0.040	ppm(v/v)	0.014
1,3,5-Trimethylbenzene	ND	0.040	ppm(v/v)	0.016
1,2,4-Trimethylbenzene	ND	0.040	ppm(v/v)	0.016
1,3-Dichlorobenzene	ND	0.040	ppm(v/v)	0.014
1,4-Dichlorobenzene	ND	0.040	ppm(v/v)	0.016
1,2-Dichlorobenzene	ND	0.040	ppm(v/v)	0.016
1,2,4-Trichloro-benzene	ND	0.40	ppm(v/v)	0.020
Hexachlorobutadiene	ND	0.080	ppm(v/v)	0.020
Methyl tert-butyl ether (MTBE)	ND	0.20	ppm(v/v)	0.010

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_8B_AV022003_0001

GC/MS Volatiles

Lot-Sample #: E3B200333-008 **Work Order #:** FH03W1AA **Matrix:** AE

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_4_AV022003_0001

GC/MS Volatiles

Lot-Sample #...: E3B200333-009 **Work Order #...:** FH0301AA **Matrix.....:** AE
Date Sampled...: 02/20/03 17:05 **Date Received..:** 02/20/03 19:00 **MS Run #.....:**
Prep Date.....: 02/21/03 **Analysis Date..:** 02/21/03
Prep Batch #...: 3052534 **Analysis Time..:** 14:14
Dilution Factor: 6.66
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**5.1**	**3.3**	**ppm(v/v)**	**0.67**
Dichlorodifluoromethane	ND	0.013	ppm(v/v)	0.0033
Chloromethane	ND	0.027	ppm(v/v)	0.0067
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.013	ppm(v/v)	0.0053
Vinyl chloride	ND	0.013	ppm(v/v)	0.0053
Bromomethane	ND	0.013	ppm(v/v)	0.0067
Chloroethane	ND	0.027	ppm(v/v)	0.0053
Trichlorofluoromethane	ND	0.013	ppm(v/v)	0.0033
1,1-Dichloroethene	**0.056**	**0.013**	**ppm(v/v)**	**0.0033**
Carbon disulfide	ND	0.067	ppm(v/v)	0.013
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.013	ppm(v/v)	0.0033
Acetone	ND	0.067	ppm(v/v)	0.013
Methylene chloride	ND	0.013	ppm(v/v)	0.0053
trans-1,2-Dichloroethene	ND	0.013	ppm(v/v)	0.0033
1,1-Dichloroethane	**0.015**	**0.013**	**ppm(v/v)**	**0.0033**
Vinyl acetate	ND	0.067	ppm(v/v)	0.013
cis-1,2-Dichloroethene	**0.0054 J**	**0.013**	**ppm(v/v)**	**0.0053**
2-Butanone (MEK)	ND	0.067	ppm(v/v)	0.013
Chloroform	**0.0090 J**	**0.013**	**ppm(v/v)**	**0.0053**
1,1,1-Trichloroethane	**0.081**	**0.013**	**ppm(v/v)**	**0.0033**
Carbon tetrachloride	ND	0.013	ppm(v/v)	0.0033
Benzene	ND	0.013	ppm(v/v)	0.0053
1,2-Dichloroethane	ND	0.013	ppm(v/v)	0.0053
Trichloroethene	**2.5**	**0.013**	**ppm(v/v)**	**0.0033**
1,2-Dichloropropane	ND	0.013	ppm(v/v)	0.0053
Bromodichloromethane	ND	0.013	ppm(v/v)	0.0053
cis-1,3-Dichloropropene	ND	0.013	ppm(v/v)	0.0033
4-Methyl-2-pentanone (MIBK)	ND	0.067	ppm(v/v)	0.013
Toluene	ND	0.033	ppm(v/v)	0.0033
trans-1,3-Dichloropropene	ND	0.013	ppm(v/v)	0.0053
1,1,2-Trichloroethane	ND	0.013	ppm(v/v)	0.0040
Tetrachloroethene	**0.0081 J**	**0.013**	**ppm(v/v)**	**0.0040**
2-Hexanone	ND	0.20	ppm(v/v)	0.0067

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_4_AV022003_0001

GC/MS Volatiles

Lot-Sample #...: E3B200333-009 **Work Order #...:** FH0301AA **Matrix.....:** AE

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.013	ppm(v/v)	0.0033
1,2-Dibromoethane (EDB)	ND	0.013	ppm(v/v)	0.0033
Chlorobenzene	ND	0.013	ppm(v/v)	0.0033
Ethylbenzene	ND	0.013	ppm(v/v)	0.0033
Xylenes (total)	ND	0.013	ppm(v/v)	0.0053
Styrene	ND	0.013	ppm(v/v)	0.0040
Bromoform	ND	0.013	ppm(v/v)	0.0033
1,1,2,2-Tetrachloroethane	ND	0.013	ppm(v/v)	0.0033
Benzyl chloride	ND	0.067	ppm(v/v)	0.0053
4-Ethyltoluene	ND	0.013	ppm(v/v)	0.0047
1,3,5-Trimethylbenzene	ND	0.013	ppm(v/v)	0.0053
1,2,4-Trimethylbenzene	ND	0.013	ppm(v/v)	0.0053
1,3-Dichlorobenzene	ND	0.013	ppm(v/v)	0.0047
1,4-Dichlorobenzene	ND	0.013	ppm(v/v)	0.0053
1,2-Dichlorobenzene	ND	0.013	ppm(v/v)	0.0053
1,2,4-Trichloro-benzene	ND	0.13	ppm(v/v)	0.0067
Hexachlorobutadiene	ND	0.027	ppm(v/v)	0.0067
Methyl tert-butyl ether (MTBE)	ND	0.067	ppm(v/v)	0.0033

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_4_AV022003_0001

GC/MS Volatiles

Lot-Sample #: E3B200333-009 **Work Order #:** FH0301AA **Matrix:** AE

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_1B_AV022003_0001

GC/MS Volatiles

Lot-Sample #...: E3B200333-010 **Work Order #...:** FH0311AA **Matrix.....:** AE
Date Sampled...: 02/20/03 17:15 **Date Received..:** 02/20/03 19:00 **MS Run #.....:**
Prep Date.....: 02/21/03 **Analysis Date..:** 02/21/03
Prep Batch #...: 3052534 **Analysis Time..:** 14:47
Dilution Factor: 166.7
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**89**	**83**	**ppm(v/v)**	**17**
Dichlorodifluoromethane	ND	0.33	ppm(v/v)	0.083
Chloromethane	ND	0.67	ppm(v/v)	0.17
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.33	ppm(v/v)	0.13
Vinyl chloride	ND	0.33	ppm(v/v)	0.13
Bromomethane	ND	0.33	ppm(v/v)	0.17
Chloroethane	ND	0.67	ppm(v/v)	0.13
Trichlorofluoromethane	ND	0.33	ppm(v/v)	0.083
1,1-Dichloroethene	**2.3**	**0.33**	**ppm(v/v)**	**0.083**
Carbon disulfide	ND	1.7	ppm(v/v)	0.33
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.33	ppm(v/v)	0.083
Acetone	ND	1.7	ppm(v/v)	0.33
Methylene chloride	ND	0.33	ppm(v/v)	0.13
trans-1,2-Dichloroethene	ND	0.33	ppm(v/v)	0.083
1,1-Dichloroethane	**0.092 J**	**0.33**	**ppm(v/v)**	**0.083**
Vinyl acetate	ND	1.7	ppm(v/v)	0.33
cis-1,2-Dichloroethene	ND	0.33	ppm(v/v)	0.13
2-Butanone (MEK)	ND	1.7	ppm(v/v)	0.33
Chloroform	ND	0.33	ppm(v/v)	0.13
1,1,1-Trichloroethane	**0.10 J**	**0.33**	**ppm(v/v)**	**0.083**
Carbon tetrachloride	ND	0.33	ppm(v/v)	0.083
Benzene	ND	0.33	ppm(v/v)	0.13
1,2-Dichloroethane	ND	0.33	ppm(v/v)	0.13
Trichloroethene	**44**	**0.33**	**ppm(v/v)**	**0.083**
1,2-Dichloropropane	ND	0.33	ppm(v/v)	0.13
Bromodichloromethane	ND	0.33	ppm(v/v)	0.13
cis-1,3-Dichloropropene	ND	0.33	ppm(v/v)	0.083
4-Methyl-2-pentanone (MIBK)	ND	1.7	ppm(v/v)	0.33
Toluene	ND	0.83	ppm(v/v)	0.083
trans-1,3-Dichloropropene	ND	0.33	ppm(v/v)	0.13
1,1,2-Trichloroethane	ND	0.33	ppm(v/v)	0.10
Tetrachloroethene	ND	0.33	ppm(v/v)	0.10
2-Hexanone	ND	5.0	ppm(v/v)	0.17

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_1B_AV022003_0001

GC/MS Volatiles

Lot-Sample #...: E3B200333-010 **Work Order #...:** FH0311AA **Matrix.....:** AE

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.33	ppm(v/v)	0.083
1,2-Dibromoethane (EDB)	ND	0.33	ppm(v/v)	0.083
Chlorobenzene	ND	0.33	ppm(v/v)	0.083
Ethylbenzene	ND	0.33	ppm(v/v)	0.083
Xylenes (total)	ND	0.33	ppm(v/v)	0.13
Styrene	ND	0.33	ppm(v/v)	0.10
Bromoform	ND	0.33	ppm(v/v)	0.083
1,1,2,2-Tetrachloroethane	ND	0.33	ppm(v/v)	0.083
Benzyl chloride	ND	1.7	ppm(v/v)	0.13
4-Ethyltoluene	ND	0.33	ppm(v/v)	0.12
1,3,5-Trimethylbenzene	ND	0.33	ppm(v/v)	0.13
1,2,4-Trimethylbenzene	ND	0.33	ppm(v/v)	0.13
1,3-Dichlorobenzene	ND	0.33	ppm(v/v)	0.12
1,4-Dichlorobenzene	ND	0.33	ppm(v/v)	0.13
1,2-Dichlorobenzene	ND	0.33	ppm(v/v)	0.13
1,2,4-Trichloro-benzene	ND	3.3	ppm(v/v)	0.17
Hexachlorobutadiene	ND	0.67	ppm(v/v)	0.17
Methyl tert-butyl ether (MTBE)	ND	1.7	ppm(v/v)	0.083

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_1B_AV022003_0001

GC/MS Volatiles

Lot-Sample #: E3B200333-010 **Work Order #:** FH0311AA **Matrix:** AE

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

HALEY & ALDRICH INC

Client Sample ID: GAC002U_AV022003_0003

GC/MS Volatiles

Lot-Sample #...: E3B200333-011 **Work Order #...:** FH0321AA **Matrix.....:** AE
Date Sampled...: 02/20/03 17:30 **Date Received..:** 02/20/03 19:00 **MS Run #.....:**
Prep Date.....: 02/21/03 **Analysis Date..:** 02/21/03
Prep Batch #...: 3052534 **Analysis Time..:** 15:20
Dilution Factor: 10
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**8.7**	**5.0**	**ppm(v/v)**	**1.0**
Dichlorodifluoromethane	ND	0.020	ppm(v/v)	0.0050
Chloromethane	ND	0.040	ppm(v/v)	0.010
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.020	ppm(v/v)	0.0080
Vinyl chloride	ND	0.020	ppm(v/v)	0.0080
Bromomethane	ND	0.020	ppm(v/v)	0.010
Chloroethane	ND	0.040	ppm(v/v)	0.0080
Trichlorofluoromethane	**0.0080 J**	**0.020**	**ppm(v/v)**	**0.0050**
1,1-Dichloroethene	**0.45**	**0.020**	**ppm(v/v)**	**0.0050**
Carbon disulfide	ND	0.10	ppm(v/v)	0.020
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.020	ppm(v/v)	0.0050
Acetone	ND	0.10	ppm(v/v)	0.020
Methylene chloride	ND	0.020	ppm(v/v)	0.0080
trans-1,2-Dichloroethene	ND	0.020	ppm(v/v)	0.0050
1,1-Dichloroethane	**0.013 J**	**0.020**	**ppm(v/v)**	**0.0050**
Vinyl acetate	ND	0.10	ppm(v/v)	0.020
cis-1,2-Dichloroethene	**0.012 J**	**0.020**	**ppm(v/v)**	**0.0080**
2-Butanone (MEK)	ND	0.10	ppm(v/v)	0.020
Chloroform	**0.15**	**0.020**	**ppm(v/v)**	**0.0080**
1,1,1-Trichloroethane	**0.027**	**0.020**	**ppm(v/v)**	**0.0050**
Carbon tetrachloride	ND	0.020	ppm(v/v)	0.0050
Benzene	ND	0.020	ppm(v/v)	0.0080
1,2-Dichloroethane	ND	0.020	ppm(v/v)	0.0080
Trichloroethene	**4.0**	**0.020**	**ppm(v/v)**	**0.0050**
1,2-Dichloropropane	ND	0.020	ppm(v/v)	0.0080
Bromodichloromethane	ND	0.020	ppm(v/v)	0.0080
cis-1,3-Dichloropropene	ND	0.020	ppm(v/v)	0.0050
4-Methyl-2-pentanone (MIBK)	ND	0.10	ppm(v/v)	0.020
Toluene	ND	0.050	ppm(v/v)	0.0050
trans-1,3-Dichloropropene	ND	0.020	ppm(v/v)	0.0080
1,1,2-Trichloroethane	ND	0.020	ppm(v/v)	0.0060
Tetrachloroethene	**0.065**	**0.020**	**ppm(v/v)**	**0.0060**
2-Hexanone	ND	0.30	ppm(v/v)	0.010

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HALEY & ALDRICH INC

Client Sample ID: GAC002U_AV022003_0003

GC/MS Volatiles

Lot-Sample #...: E3B200333-011 **Work Order #...:** FH0321AA **Matrix.....:** AE

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	0.020	ppm(v/v)	0.0050
1,2-Dibromoethane (EDB)	ND	0.020	ppm(v/v)	0.0050
Chlorobenzene	ND	0.020	ppm(v/v)	0.0050
Ethylbenzene	ND	0.020	ppm(v/v)	0.0050
Xylenes (total)	ND	0.020	ppm(v/v)	0.0080
Styrene	ND	0.020	ppm(v/v)	0.0060
Bromoform	ND	0.020	ppm(v/v)	0.0050
1,1,2,2-Tetrachloroethane	ND	0.020	ppm(v/v)	0.0050
Benzyl chloride	ND	0.10	ppm(v/v)	0.0080
4-Ethyltoluene	ND	0.020	ppm(v/v)	0.0070
1,3,5-Trimethylbenzene	ND	0.020	ppm(v/v)	0.0080
1,2,4-Trimethylbenzene	ND	0.020	ppm(v/v)	0.0080
1,3-Dichlorobenzene	ND	0.020	ppm(v/v)	0.0070
1,4-Dichlorobenzene	ND	0.020	ppm(v/v)	0.0080
1,2-Dichlorobenzene	ND	0.020	ppm(v/v)	0.0080
1,2,4-Trichloro-benzene	ND	0.20	ppm(v/v)	0.010
Hexachlorobutadiene	ND	0.040	ppm(v/v)	0.010
Methyl tert-butyl ether (MTBE)	ND	0.10	ppm(v/v)	0.0050

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

GAC002U_AV022003_0003

GC/MS Volatiles

Lot-Sample #: E3B200333-011 **Work Order #:** FH0321AA **Matrix:** AE

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

QC DATA ASSOCIATION SUMMARY

E3B200333

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AE	EPA-21 TO-14A		3052534	
002	AE	EPA-21 TO-14A		3052534	
003	AE	EPA-21 TO-14A		3052534	
004	AE	EPA-21 TO-14A		3052534	
005	AE	EPA-21 TO-14A		3052534	
006	AE	EPA-21 TO-14A		3052534	
007	AE	EPA-21 TO-14A		3052534	
008	AE	EPA-21 TO-14A		3052534	
009	AE	EPA-21 TO-14A		3052534	
010	AE	EPA-21 TO-14A		3052534	
011	AE	EPA-21 TO-14A		3052534	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E3B200333 **Work Order #...:** FH28L1AA **Matrix.....:** AIR
MB Lot-Sample #: M3B210000-534

Prep Date.....: 02/21/03 **Analysis Time..:** 09:20
Analysis Date..: 02/21/03 **Prep Batch #...:** 3052534 **Instrument ID..:** MSB
Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Non-Methane Hydroca	ND	0.50	ppm(v/v)	EPA-21 TO-14A
Dichlorodifluoromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chloromethane	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Vinyl chloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromomethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chloroethane	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Carbon disulfide	ND	0.010	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Acetone	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Methylene chloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
trans-1,2-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Vinyl acetate	ND	0.010	ppm(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
2-Butanone (MEK)	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Chloroform	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Carbon tetrachloride	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Benzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Trichloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloropropane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromodichloromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
cis-1,3-Dichloropropene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
4-Methyl-2-pentanone (MIBK)	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Toluene	ND	0.0050	ppm(v/v)	EPA-21 TO-14A
trans-1,3-Dichloropropene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,2-Trichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Tetrachloroethene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
2-Hexanone	ND	0.030	ppm(v/v)	EPA-21 TO-14A
Dibromochloromethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dibromoethane (EDB)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Chlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E3B200333 **Work Order #...:** FH28L1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Xylenes (total)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Styrene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Bromoform	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Benzyl chloride	ND	0.010	ppm(v/v)	EPA-21 TO-14A
4-Ethyltoluene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,3,5-Trimethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,3-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,4-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichlorobenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2,4-Trichloro-benzene	ND	0.020	ppm(v/v)	EPA-21 TO-14A
Hexachlorobutadiene	ND	0.0040	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	ND	0.010	ppm(v/v)	EPA-21 TO-14A

NOTE(S):

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

HALEY & ALDRICH INC

Method Blank Report

GC/MS Volatiles

Lot-Sample #: M3B210000-534 B **Work Order #:** FH28L1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ppm(v/v)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E3B200333 Work Order #...: FH28L1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M3B210000-534 FH28L1AD-LCSD
Prep Date.....: 02/21/03 Analysis Date..: 02/21/03
Prep Batch #...: 3052534 Analysis Time..: 08:15
Dilution Factor: 1 Instrument ID..: MSB
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	93	(70 - 125)			EPA-21 TO-14A
	93	(70 - 125)	0.56	(0-20)	EPA-21 TO-14A
Methylene chloride	91	(75 - 120)			EPA-21 TO-14A
	93	(75 - 120)	2.4	(0-20)	EPA-21 TO-14A
Trichloroethene	85	(70 - 125)			EPA-21 TO-14A
	87	(70 - 125)	2.0	(0-20)	EPA-21 TO-14A
Toluene	91	(75 - 125)			EPA-21 TO-14A
	92	(75 - 125)	1.0	(0-20)	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	85	(65 - 130)			EPA-21 TO-14A
	87	(65 - 130)	1.5	(0-20)	EPA-21 TO-14A

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 #...: E3B200333 Work Order #...: FH28L1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M3B210000-534 FH28L1AD-LCSD
Prep Date.....: 02/21/03 Analysis Date..: 02/21/03
Prep Batch #...: 3052534 Analysis Time..: 08:15
Dilution Factor: 1 Instrument ID..: MSB
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	0.0591	0.0548	ppm(v/v)	93		EPA-21 TO-14A
	0.0591	0.0551	ppm(v/v)	93	0.56	EPA-21 TO-14A
Methylene chloride	0.0587	0.0531	ppm(v/v)	91		EPA-21 TO-14A
	0.0587	0.0544	ppm(v/v)	93	2.4	EPA-21 TO-14A
Trichloroethene	0.0595	0.0506	ppm(v/v)	85		EPA-21 TO-14A
	0.0595	0.0517	ppm(v/v)	87	2.0	EPA-21 TO-14A
Toluene	0.0557	0.0506	ppm(v/v)	91		EPA-21 TO-14A
	0.0557	0.0512	ppm(v/v)	92	1.0	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	0.0554	0.0473	ppm(v/v)	85		EPA-21 TO-14A
	0.0554	0.0481	ppm(v/v)	87	1.5	EPA-21 TO-14A

NOTE(S):

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

Bold print denotes control parameters