HALEY & ALDRICH

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

CLOSURE REPORT

UNDERGROUND STORAGE TANK 9T

To: **Mr. Brian Mossman**
Boeing Realty Corporation
3855 Lakewood Blvd.
Building 1A MC D001-0097
Long Beach, CA 90846

From: **Haley & Aldrich, Inc.**

Date: **January 30, 2002**

Re: **Closure Report, Underground Storage Tank 9T, Boeing Realty Corporation, Former C-6 Facility – Parcel A, Los Angeles, California**

Haley & Aldrich, Inc. is herein providing this closure report to summarize the field investigation and laboratory analyses for the former 5,000-gallon capacity, waste acid underground storage tank (UST) 9T. Former UST 9T was located near the southeast corner of Building 41, on Parcel A of the Boeing Realty Corporation's (BRC's) Former C-6 Facility in Los Angeles, California as shown on Figures 1 and 2.

INTRODUCTION

Specific information regarding the size, installation, and removal dates of former UST 9T could not be located in BRC files. It is thought that UST 9T was removed prior to 2000 based on discussions with Mr. Scott Lattimore of The Boeing Company. According to BRC files, former UST 9T had a volume of approximately 5,000 gallons and was used to store waste acid. The location of former UST 9T is shown on a Woodward-Clyde Consultants Plot Plan dated October 21, 1971, which was used to facilitate this investigation. A copy of this map is included in Appendix A.

In 1992, Emcon Southwest (Emcon) prepared a report titled, *Closure Report for Underground Storage Tanks 9T, 10T, and 15T through 18T, Douglas Aircraft Company - Torrance Facility (C6).* The report indicated that soil samples DAC-09 and DAC-10 were collected from the northern and southern ends of former UST 9T in 1991. Soil samples DAC-09 and DAC-10 were reported to have total chromium concentrations of 23 and 160 milligrams per kilogram (mg/kg), respectively. DAC-10 was also analyzed for hexavalent chromium (Soluble Threshold Limit Concentration [STLC]) and was reported to have not been detected (<0.10 milligrams per liter [mg/l]). The soil samples were also analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX), nitrate, sulfate and fluoride as reported in Table 1. BTEX was not detected. Emcon did not report the depth that soil samples DAC-09 and DAC-10 were collected.

Because the total chromium concentration in soil sample DAC-10 was 160 mg/kg and no depth data was provided for the soil samples collected, Haley & Aldrich proposed the installation of three soil borings in the vicinity of the former 9T UST to evaluate if UST-related soil impacts exist. One of the proposed soil borings was recommended in the former location of DAC-10 to further assess the total chromium. The other two borings were proposed to be placed at the approximate ends of the UST (Figure 3). The soil samples were proposed to be analyzed for total chromium by EPA Method 6010B and pH by EPA Method 9054C. Two soil samples (the 10-foot and 15-foot) from the soil boring to be drilled in the former location of DAC-10 will also be analyzed for volatile organic compounds (VOCs) by EPA Method 8260B. The proposed boring locations and laboratory analytical program were presented to the Regional Water Quality Control Board (RWQCB) on October 25, 1991. Mr. John Geroch of the RWQCB verbally approved the approach on October 25, 2001.

FIELD ACTIVITIES

The scope of work consisted of locating the reported former UST 9T position using a registered land surveyor, utility clearance, advancement of the soil borings, and laboratory analysis of the soil samples. These tasks are discussed below.

TAIT & Associates, Inc. (Tait), BRC's on-site surveyor, was tasked to locate the former UST 9T position as shown on the Woodward-Clyde Plot Plan using the present site coordinate system and surveyed benchmarks. A registered land surveyor from Tait surveyed the reported location of former UST 9T on November 9, 2001. Based on the Woodward-Clyde Plot Plan, Tait reported that former UST 9T was located at approximately 12760.00 easting and 12848.00 northing and marked the location in the field. Appendix B includes a survey report from Tait regarding the location of former UST 9T. Based on this surveyed location, the three proposed soil borings were located as shown on Figure 3.

On November 8, 2001, Haley & Aldrich notified Underground Service Alert of Southern California (USA) for utility clearance of the three borings. USA issued ticket number 660825 and notified utility companies of the proposed work. Utility companies were given two days to visit the site and mark any buried utility lines in the area. Also, a private utility locator, Geovision Spectrum (Geovision), marked the area for utilities. Geovision reported unknown anomalies on the ground in the vicinity of former UST 9T as shown on Figure 3.

Kehoe Testing and Engineering, Inc. (Kehoe) was contracted by Haley & Aldrich to install the soil borings. Three soil borings (DP_9T_1, DP_9T_2 and DP_9T_3) were completed in the vicinity of former UST 9T on December 20, 2001 as shown on Figure 3. Soil borings DP_9T_1 and DP_9T_3 were located approximately 8-feet west and 8-feet east of the center of the reported former UST 9T position. Soil boring DP_9T_2 was located approximately 4 feet north of the center of the reported former UST 9T, in the approximate location of DAC-10 based on Figure 2 in the Emcon report (Figure 3). The Emcon report is included as Appendix C. Soil samples were collected at depths of 5, 10, 15, and 20 feet bgs in each boring. Borings were advanced to sampling depths using a truck-mounted Geoprobe 5410 direct-push rig. Samples were collected in 1-inch diameter by 6-inch long brass sleeves. Soils were described and logged by a Haley & Aldrich geologist at the site using the Unified Soil Classification System (USCS). Boring logs are attached in Appendix D.

Sample sleeves were sealed with Teflon sheets and plastic caps. Samples were placed in a cooler with blue ice and transported under standard Chain-of-Custody (COC) procedures to Severn Trent Services (STL) in Santa Ana, California for laboratory analyses.

All of the samples were analyzed for Title 22 Metals by EPA Method 6010B/7471A and pH by EPA Method 9045C. Soil Samples DP_9T_2_10 and DP_9T_2_15, collected from the former location of soil sample DAC-10, were also analyzed for VOCs by EPA Method 8260B.

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INVESTIGATION RESULTS AND CONCLUSIONS

Results of the former UST 9T investigation suggest that no apparent chemical soil impacts are present as a result of the UST operation. Based on the results of the laboratory analysis of the twelve soil samples, total chromium was detected at concentrations ranging from 21.3 to 41.0. Given the low total chromium concentrations, analysis for hexavalent chromium was not performed. VOCs were not detected in the two soil samples (DP_9T_10 and DP_9T_15). The results for pH were reported to range from 7.2 to 8.5. Table 2 summarizes the analytical results for former UST 9T. The laboratory reports are included in Appendix E.

Based upon the investigation performed as described in this letter report and the results of previous soil sampling in the area, no apparent soil impacts associated with former UST 9T were found. Haley & Aldrich proposes submitting UST 9T for closure and no further action with the RWQCB.

Sincerely yours,
HALEY & ALDRICH, INC.

REGISTERED PROFESSIONAL ENGINEER
RICHARD M. FARSON
47269
EXPIRES
CIVIL
STATE OF CALIFORNIA

Richard M. Farson, PE
Project Engineer

Scott Zachary
Project Manager

Attachments:

Table 1 – Former UST 9T Previous Soil Analytical Results - 1991
Table 2 – Former UST 9T Soil Analytical Results – 2001

Figure 1 - Site Location Map
Figure 2 - Tank Location Map
Figure 3 - Boring Locations and Laboratory Analytical Map

Appendix A - Woodward-Clyde Plot Plan
Appendix B - Surveyor Report
Appendix C - Emcon Report, 1992
Appendix D - Boring Logs
Appendix E - Laboratory Report & Chain of Custody

BOE-C6-0000407

TABLES

TABLE 1

FORMER C-6 FACILITY, LOS ANGELES, CALIFORNIA

FORMER UST 9T
PREVIOUS SOIL ANALYTICAL RESULTS - 1991

Sample ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Chromium	Nitrate	Sulfate	Fluoride	Hexavalent Chromium (STLC)
DAC-09	10/19/1991	< 0.005	< 0.005	< 0.005	< 0.005	23	<10	12	66	NA
DAC-10	10/19/1991	< 0.005	< 0.005	< 0.005	< 0.005	160	27	250	<25	<0.10

NOTES:

Source: Closure Report for Underground Storage Tanks 9T, 10T, and 15T through 18T, Douglas Aircraft Company - Torrance Facility (C6), prepared by Emcon Southwest, 1992.

All concentrations in milligrams per kilogram (mg/kg), except hexavalent chromium.

STLC = Soluble Threshold Limit Concentration

Hexavalent chromium (STLC) reported in milligrams per liter (mg/l).

< = Less than

QA/QC: _____

Date: _____

TABLE 2

FORMER C-6 FACILITY, LOS ANGELES, CALIFORNIA

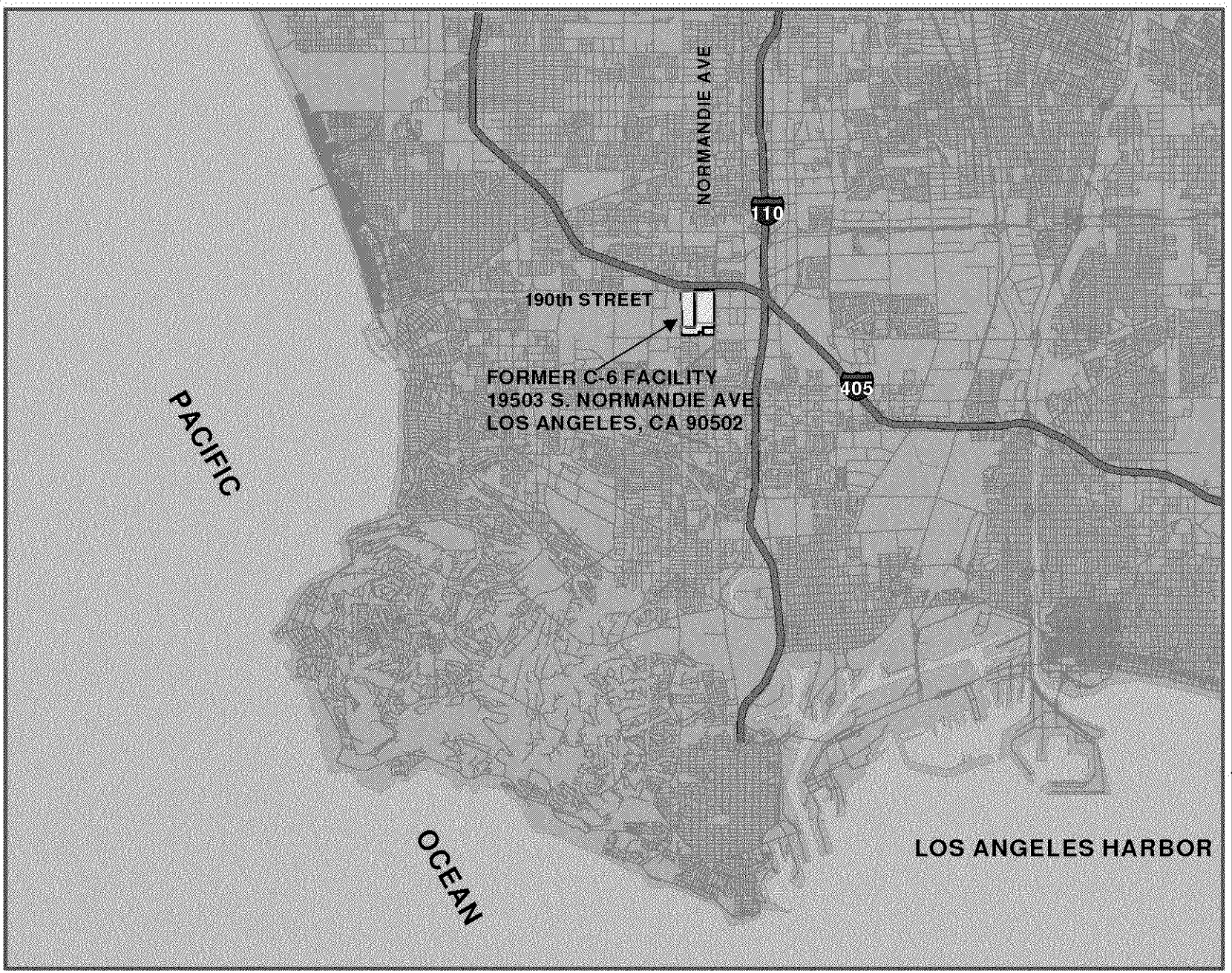
FORMER UST 9T
SOIL ANALYTICL RESULTS - 2001

Soil Boring	Sample ID	Depth (feet bgs)	Analyte		
			Chromium (mg/kg)	pH	VOCs (µg/kg)
DP_9T_1	DP_9T_1_5	5	30.1	7.2	NA
	DP_9T_1_10	10	37.5	8.4	NA
	DP_9T_1_15	15	28	8.5	NA
	DP_9T_1_20	20	32.5	8.2	NA
DP_9T_2	DP_9T_2_5	5	27.5	8	NA
	DP_9T_2_10	10	31.7	7.7	ND
	DP_9T_2_15	15	33.3	8.1	ND
	DP_9T_2_20	20	37.5	7.9	NA
DP_9T_3	DP_9T_3_5	5	9.8	8.3	NA
	DP_9T_3_10	10	41	8.5	NA
	DP_9T_3_15	15	28.3	7.7	NA
	DP_9T_3_20	20	21.3	7.8	NA

NOTES:
mg/kg = milligrams per kilogram
There are no units for pH.
µg/kg = micrograms per kilogram
bgs = below ground surface
ND = Not Detected; All of the analytes were not detected above laboratory detection limits.
NA = Not Analyzed

QA/QC: _____
Date: _____

FIGURES



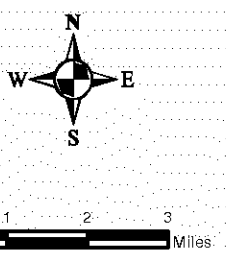
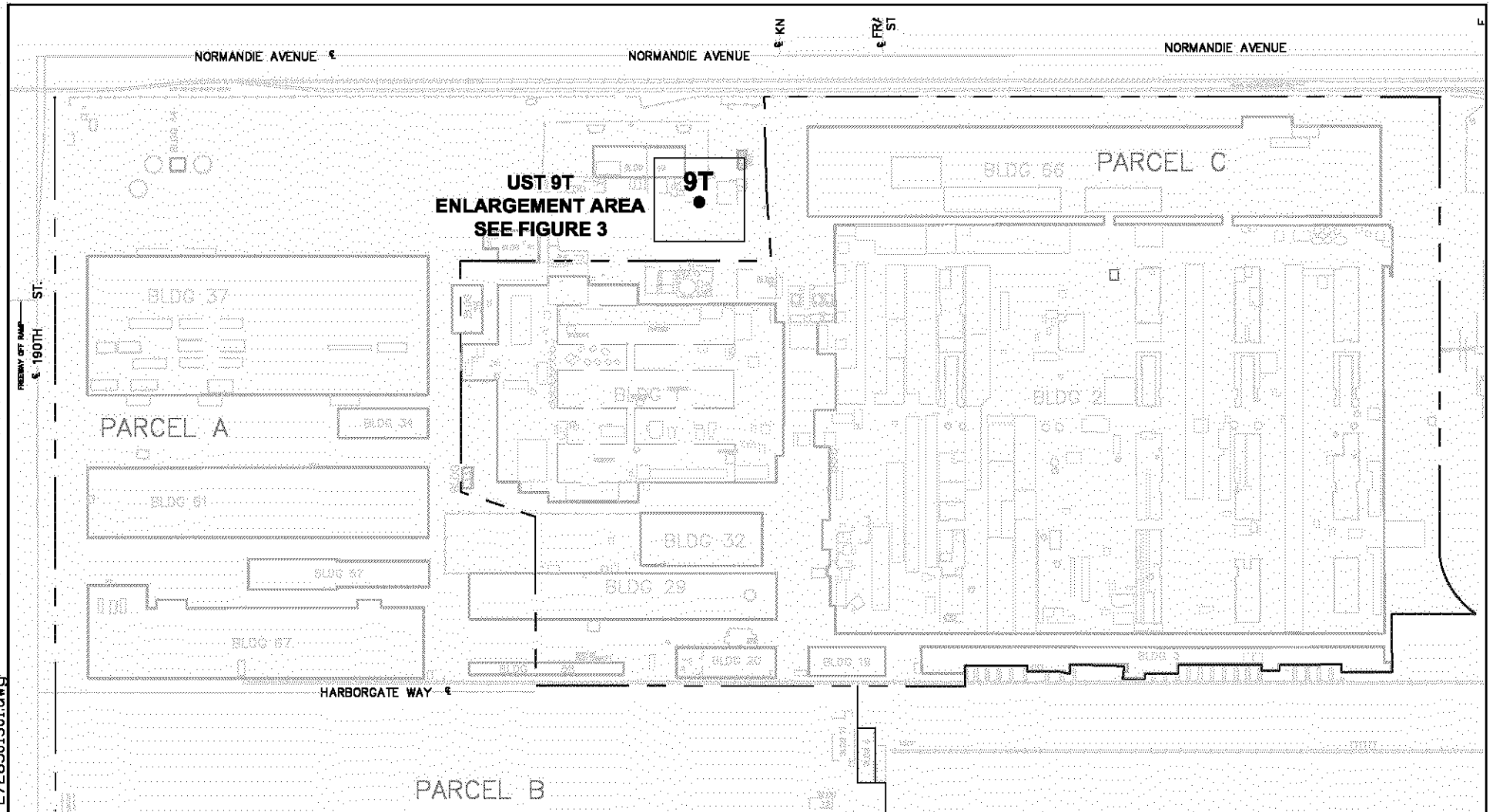


Figure 1
Site Location Map

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

HALEY & ALDRICH UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

Scale : As Shown	QA/QC :	Project : 27285
Drawn : DFM	Reviewed : SPZ	Date : 20 December 2001



LEGEND

● FORMER UNDERGROUND STORAGE TANK (UST) 9T

N

0 150 300

SCALE IN FEET

ALL DIMENSIONS AND LOCATIONS APPROXIMATE

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

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

FORMER UST 9T LOCATION MAP

SCALE: AS SHOWN

JANUARY 2002

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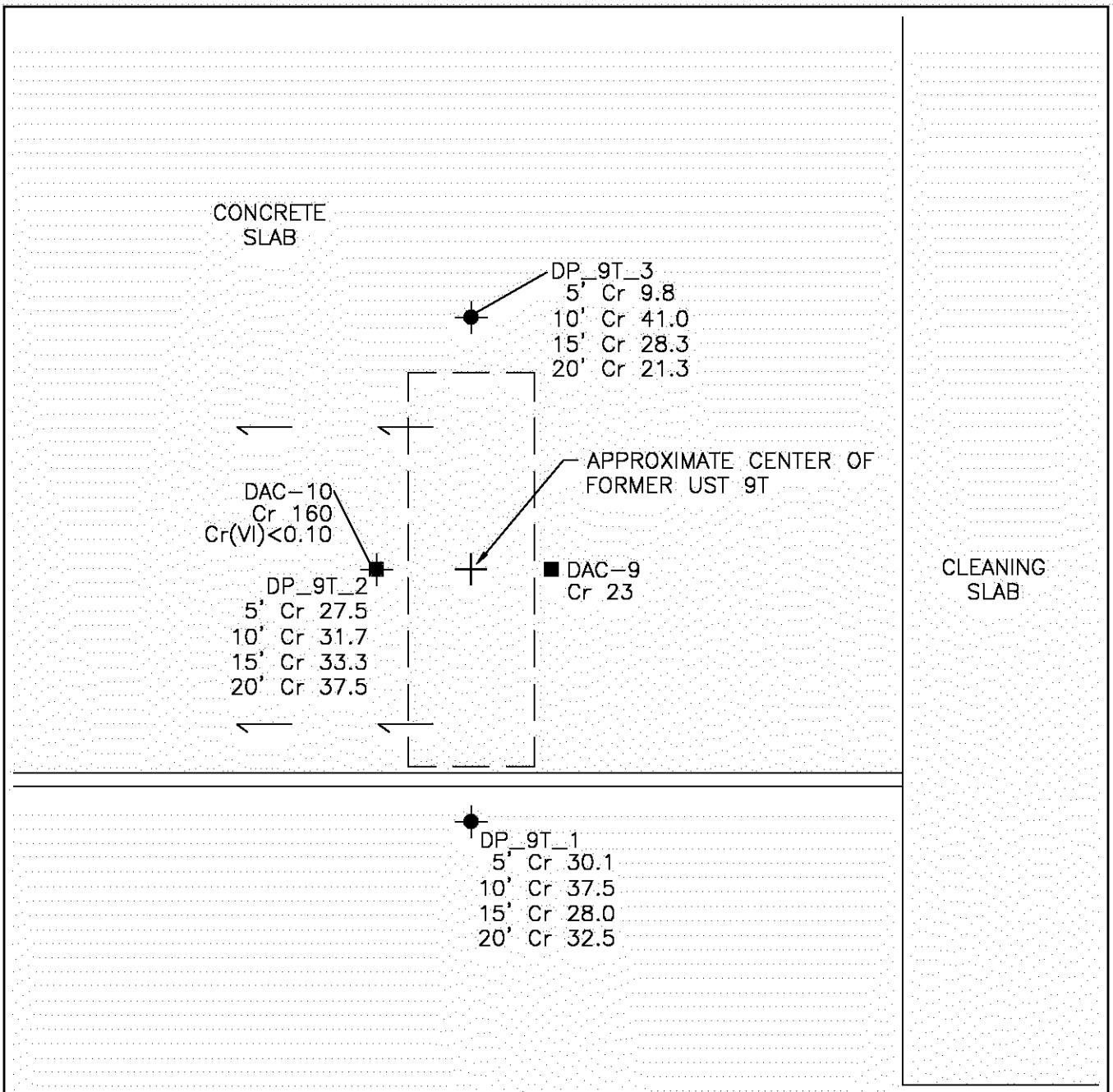
FIGURE 2



LEGEND

- FORMER UST LOCATION (WOODWARD-CLYDE, 1971)
- SURVEYED CENTER OF REPORTED TANK POSITION
- DIRECT PUSH SOIL BORING
- PREVIOUS SOIL BORING (EMCON, 1991)
- < LESS THAN
- 20' DEPTH BELOW GROUND SURFACE (FEET)
- Cr CHROMIUM (TOTAL) ANALYZED BY EPA METHOD 6010B
- Cr(VI) HEXAVALENT CHROMIUM IN MILLIGRAMS PER LITTER (mg/L)
- UTILITIES MARKED BY GEOVISION SPECTRUM

N

0 5

SCALE IN FEET

ALL DIMENSIONS AND LOCATIONS APPROXIMATE

NOTE:
RESULTS REPORTED IN MILLIGRAMS PER KILOGRAM (mg/Kg).

UST LOCATION SOURCE: WOODWARD-CLYDE UST MAP OCTOBER 21, 1971.

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

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

FORMER UST 9T BORING LOCATIONS AND SOIL ANALYTICAL RESULTS

SCALE: AS SHOWN

JANUARY 2002

1/29/2002 9:43 AM 2728501302.dwg

FIGURE 3

APPENDIX A

WOODWARD-CLYDE PLOT PLAN, 1971

APPENDIX B

SURVEYOR REPORT

TAIT & Associates, Inc.
Engineering · Planning · Surveying

January 27, 2002

Haley & Aldrich, Inc.
9040 Friars Road, suite 220
San Diego, CA 92108
ATTN: Beth Breitenbach

RE: UST "29T" & "9T" at Boeing Realty Corp. C-6 Facility

Dear Ms. Breitenbach:

On November 7, 2001 we received a blue-line map prepared by Woodward-Clyde in 1971. This map graphically showed the location of the UST's referenced above.

Per the request of Mr. Travis Hammond, of your office, we determined the coordinates of these items by scaling from multiple building corners that were common to the TAIT digital files and the Woodward-Clyde drawing. Mr. Hammond was informed that due to the errors inherent to working with blue-lines and scales that the coordinates we probably plus or minus 10'.

On November 8, 2001 our field crew set stakes on-site at these locations. This was done to enable Haley & Aldrich to perform a search for the above referenced tanks.

The local site coordinates used by the TAIT field crew for this staking are as follows:

ITEM #	NORTHING	EASTING
9T	12848	12760
29T	11912	12257

If we can be of further service please do not hesitate to contact us.

Sincerely,

TAIT & ASSOCIATES, INC.

Michael Simon

LICENSED LAND SURVEYOR
MICHAEL SIMON
Exp. 6/30/05
No. 6034
STATE OF CALIFORNIA

Michael Simon, P.L.S.
Survey Manager

701 North Parkcenter Drive · Santa Ana, California 92705 · (714) 560-8200 · (714) 560-8211 fax
San Diego · Concord · Rancho Cordova · Tempe · Las Vegas · Reno · Loveland
www.TAIT.com

APPENDIX C

EMCON REPORT, 1991

EMCON
Southwest

April 27, 1992
Project C34-08.01

Mr. Boramy Ith
Douglas Aircraft Company
3855 Lakewood Boulevard
Mail Code 74-41
Long Beach, California 90846

Subject: Closure Report for Underground Storage
Tanks 9T, 10T, and 15T through 18T
Douglas Aircraft Company - Torrance Facility (C6)
19503 South Normandie Avenue
Torrance, California 90502 (Contract LS-25833-C)

Dear Mr. Ith:

EMCON Southwest (EMCON) is pleased to report the tank closure and related soil sampling activities for underground storage tanks no. 9T, 10T, and 15T through 18T at the referenced Douglas Aircraft Company (DAC) facility. The closure and sampling activities were performed at the request of DAC in accordance with EMCON's revised workplan dated August 30, 1991.

SUMMARY

The following is a summary of the findings and conclusions of tank closure and soil sampling activities which are discussed in the remainder of this report.

- Excavation and removal of underground storage tanks 9T, 10T, and 15T through 18T were completed during October 11 and 12, 1991.
- Vadose wells 9TW and 10TW (adjacent to tanks 9T and 10T) and a concrete wash slab (near tank 15T) were removed and a surface runoff drain (adjacent to tank 9T) was backfilled during excavation activities.

Mail to: P.O. Box 7894, Burbank, California 91510-7894
3300 N. San Fernando Blvd., Burbank, California 91504 (818) 841-1160

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- A total of 18 soil samples were collected for chemical analysis from beneath the tanks, the excavated soil piles, and the piping area located between tank 15T and building 36.
- No concentrations of total petroleum hydrocarbons (TPH), benzene, toluene, xylenes, ethylbenzene (BTXE), or hexavalent chromium were detected in soil samples collected from the excavation for tanks 9T and 10T.
- No concentrations of BTXE were detected in soil samples collected from the excavation for tanks 15T through 18T, the associated spoil piles, and the piping area near tank 15T.
- TPH concentrations were detected in soil samples collected from the spoil piles, beneath tanks 15T through 18T and the piping area near tank 15T.
- TPH concentrations detected from the spoil piles and piping area exceed the cited regulatory guidelines.
- Concentrations of chromium, nitrate, sulfate, and fluoride detected beneath tank 9T and the associated spoil pile were below cited regulatory criteria.

BACKGROUND

The project site is located southwest of the intersection of Normandie Avenue and 190th Street in Torrance, California (see Figure 1). Tanks no. 9T and 10T were located north of DAC building no. 66. Tanks no. 15T through 18T were located between DAC buildings no. 1 and 36.

EMCON prepared a workplan for the removal of tanks 9T, 10T, and 15T through 18T (EMCON, January 21, 1991). During a June 19, 1991 meeting, DAC requested an additional scope of work which was incorporated into EMCON's revised workplan (EMCON, August 30, 1991). The additional tasks requested by DAC included:

- removal of 2 vadose wells (9TW and 10TW) located adjacent to tanks 9T and 10T
- closure of a surface runoff drain adjacent to tank 9T
- removal of a concrete wash slab near tank 15T

According to DAC, the following constituents were previously stored in these tanks:

- tank 9T (5,000 gallon) — waste acid
- tank 10T (10,000 gallon) — waste water, oil, and soap
- tank 15T (3,000 gallon) — waste solvents
- tank 16T (5,000 gallon) — trichloroethane
- tank 17T (5,000 gallon) — trichloroethane
- tank 18T (5,000 gallon) — methylene chloride and isopropyl alcohol

Analytical data provided by DAC for soil borings and vadose wells located in the immediate vicinity of tanks 15T through 18T indicate that concentrations of methylene chloride, 1,1,1-trichloroethane, trichloroethylene, toluene, xylenes, and ethylbenzene were detected at depths ranging from approximately 5 to 20 feet below grade (see Attachment 1). The location of the DAC soil borings and vadose wells are shown in Figure 2. It is EMCON's understanding that assessment of this area is currently under the jurisdiction of the California Regional Water Quality Control Board (RWQCB). Soil samples collected from this area by EMCON were analyzed for those compounds specified by the Los Angeles City Fire Department (LACFD).

TANK REMOVAL

Tank excavation and soil sampling activities were conducted under the jurisdiction of the Los Angeles City Fire Department (LACFD), permit no. 1856. A copy of the permit is included in Attachment 2.

Tanks 9T, 10T, and 15T through 18T were excavated by Disposal Control Service (DCS), under the supervision of EMCON during October 11 and 12, 1991. During excavation of tanks 9T and 10T, vadose monitoring wells 9TW and 10TW were removed and the adjacent concrete surface drain was backfilled. During excavation of tank 15T the concrete wash slab was removed. The tank interiors were high pressure cleaned in compliance with LACFD requirements. The rinseate liquids from tank 9T were removed by DCS and transported to Norris Industries, in Los Angeles, California (see Attachment 3). Rinseate liquids from tank 10T were transported by DCS to Chem-Tech Systems, Inc. in Vernon, California. Rinseate from tanks 15T through 18T were stored on site pending future consideration of disposal options. Prior to transport all

tanks were certified as clean by CTL Environmental Services of Harbor City, California (see Attachment 4). Following certification the tanks were transported by DCS to American Metal Recycling, Ontario, California to be destroyed for scrap purposes (see Attachment 5).

Excavated soils related to tanks 9T and 10T were stockpiled on site for subsequent disposal by DAC. Excavated soils from tanks 15T through 18T were returned to the excavation following tank removal, pending further site assessment as requested by the LACFD and DAC. Clean gravel and soil was used as backfill in the excavations to account for the volume of removed tanks and soil. Backfilled soils were compacted to approximately 90 percent relative compaction as certified by Duco Engineering, Inc. of Walnut, California (see Attachment 6). The excavations were completed with approximately 6-inch-thick asphalt surfacing.

SOIL SAMPLING

Soil samples from both excavations and the spoil piles were collected by EMCON under the direction of the LACFD. Soil sampling procedures are included in Attachment 7.

Tanks 9T and 10T

A total of five soil samples (DAC-06 through DAC-10) were collected beneath tanks 9T and 10T for laboratory analysis (see Figure 2). In addition a total of four soil samples (DAC-15 through DAC-18) were collected from the associated spoil piles.

Tanks 15T through 18T

A total of five soil samples (DAC-01 through DAC-05) were collected beneath tanks 15T through 18T (see Figure 3). Three soil samples (DAC-12 through DAC-14) were collected from the associated spoil pile. One sample (DAC-11) was collected beneath excavated piping located between tank 15T and building no. 36.

LABORATORY ANALYSES

All soil samples were analyzed by a California-certified analytical laboratory for compounds specified by the LACFD as follows:

- Soil samples collected from beneath tanks 10T, 15T through 18T, and the spoil piles were analyzed for total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015.

- All soil samples were analyzed for benzene, toluene, xylenes, and ethylbenzene (BTXE) by U.S. EPA Method 8020.

In addition to the above analyses required by the LACFD, soil samples collected from beneath tank 9T and the associated spoil pile were analyzed for compounds previously contained in tank 9T. These additional analyses, completed according to EMCON's revised workplan (August 30, 1991) included:

- total chromium by U.S. EPA Method 7190
- anion scan for nitrates, sulfates, and fluorides by U.S. EPA Method 300.0 modified

At the request of DAC sample DAC-10, collected beneath tank 9T, was analyzed for soluble threshold limit concentration (STLC) hexavalent chromium by U.S. EPA Method 7197.

The certified analytical reports and chain-of-custody documentation are included in Attachment 8.

FINDINGS

Tanks 9T and 10T

As shown in Table 1, no concentrations of TPH (<10 mg/kg) or BTXE (<0.005 mg/kg) were detected in soil samples collected from beneath tanks 9T and 10T (DAC-06 through DAC-10). In addition no concentrations of BTXE were detected in soil samples collected from the spoil piles (DAC-15 through DAC-18). TPH concentrations (up to 4,100 mg/kg) were detected in soil samples DAC-15 through DAC-18 collected from the spoil piles.

No concentrations of hexavalent chromium (<0.10 mg/L) were detected in sample DAC-10.

Concentrations of total chromium (up to 160 mg/kg), nitrate (27 mg/kg), sulfate (up to 250 mg/kg), and fluoride (66 mg/kg) were detected in soil samples collected from beneath tank 9T (DAC-09 and DAC-10). Concentrations of total chromium (450 mg/kg) and sulfate (1,000 mg/kg) were detected in soil sample DAC-15, collected from the spoil pile associated with tank 9T.

Tanks 15T through 18T

BTXE concentrations (<0.005 mg/kg) were not detected in soil samples collected from beneath tanks 15T through 18T (DAC-01 through DAC-05), the spoil pile (DAC-12 through DAC-14), and the piping between tank 15T and building no. 36 (DAC-11). TPH concentrations were detected in soil samples collected from beneath tanks 15T through 18T (up to 45 mg/kg), the spoil pile (up to 73 mg/kg), and the piping area (700 mg/kg).

REGULATORY CRITERIA AND GUIDELINES

Soil regulatory criteria and guidelines are discussed below and summarized in Table 1.

Total Threshold Limit Concentrations

The California Code of Regulations (CCR), Title 22, Division 4.5 establishes numerical criteria to determine if a waste should be considered hazardous (CCR, May 1991). These criteria include the total threshold limit concentration (TTLC) which is the total concentration of a substance (in a solid material), which is considered hazardous for the purpose of disposal. A solid waste with a concentration of a specific element or compound equal to or above the TTLC is considered a hazardous waste because of the persistent and bioaccumulative nature of the specific toxic substance present.

TTLC values are not defined for constituents detected in soil samples DAC-01 through DAC-18 with the exception of chromium and fluoride. Concentrations of these two constituents were all below the respective TTLC values.

Soluble Threshold Limit Concentration

The California Code of Regulations (CCR), Title 22, Division 4.5 establishes numerical criteria to determine if a waste should be considered hazardous (CCR, May 1991). These criteria include the soluble threshold limit concentration which is the soluble concentration (mg/L) of a substance (in a liquid) which is considered hazardous for the purpose of disposal. A solid waste which, after treatment with the waste extraction test (WET), produces dissolved concentrations of specific substances in excess of their STLCs is considered a hazardous waste because of the extractable and persistent bioaccumulative nature of the specific toxic substance present.

Soil Ingestion Screening Values

Soil Ingestion Screening Values (SSVs) are used by Cal-EPA as a preliminary method to assess whether or not significant impact has occurred to soils at a site (DHS, June 22, 1990). SSVs can be used to show that a site is not significantly impacted, leading to an issuance of "No Further Action" determination by the DHS. However, SSVs cannot be used as site cleanup levels and pertain only to human health risk, not environmental risk. Therefore a site with low SSVs may require remediation as determined by the DHS. Concentrations of compounds in soils which exceed an SSV but are below background are assumed to indicate the naturally occurring concentrations of these compounds.

SSVs are not defined for the compounds detected in soil samples DAC-01 through DAC-18 with the exception of chromium, nitrate, fluoride. Concentrations of these three compounds were all below the respective SSVs.

Petroleum-Hydrocarbon Guidelines

Guidelines have been established by the RWQCB-Lahontan Region for petroleum-hydrocarbon impacted soils (RWQCB, January 7, 1987). Soils with petroleum-hydrocarbon concentrations that exceed 1,000 mg/kg commonly require removal, remediation, or a justification as to why removal or remediation are not warranted. Soils with petroleum-hydrocarbon concentrations between 100 and 1,000 mg/kg are typically reviewed on a case-by-case basis to assess if removal or remediation is necessary. Removal of soils with petroleum-hydrocarbon concentrations less than 100 mg/kg is generally not required by the RWQCB. Waste oil cleanup standards are decided on a case-by-case basis. These guidelines are sometimes used by other regulatory agencies.

TPH concentrations exceeding the RWQCB guidelines were detected in soil samples collected from the spoil piles associated with tanks 9T and 10T (DAC-15 through DAC-18) and from the piping area near tank 15T (DAC-11). Disposal of excavated soils from these areas was subsequently managed by DAC.

CONCLUSIONS

Based on our findings, EMCON presents the following conclusions:

- No concentrations of TPH, BTXE, or hexavalent chromium were detected in soil samples collected beneath tanks 9T and 10T.

- No concentrations of BTXE were detected in soil samples collected from the spoil piles, beneath tanks 15T through 18T, or the piping area near tank 15T.
- TPH concentrations were detected in soil samples collected from the spoil piles beneath tanks 15T through 18T, and the piping area near tank 15T.
- TPH concentrations detected from the spoil piles and the piping area exceed the cited regulatory guideline.
- Concentrations of chromium, nitrate, sulfate, and fluoride were detected beneath tank 9T and the associated spoil pile and are below the cited regulatory criteria.

The closure assessment and report were performed and prepared using generally accepted consulting and engineering procedures and practices, and within the limits described in Attachment 9.

If you have any questions regarding the report please do not hesitate to call us at (818) 841-1160.

Sincerely,

EMCON Southwest

Scott N. Sankey
Project Geologist

Keith G. Farrell
Director of Geology

SNS/KGF:keb

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BOE-C6-0000426

Attachments: References
Table 1 - Summary of Soil Analytical Results
Figure 1 - Site Location Map
Figure 2 - Location of Tanks 9T and 10T
Figure 3 - Location of Tanks 15T through 18T
Attachment 1 - Analytical Data From DAC Soil Borings 15TB and 17TB and Vadose Wells B-6 through B-8
Attachment 2 - Los Angeles City Fire Department - Tank Removal Permit
Attachment 3 - Uniform Hazardous Waste Manifests for Rinseate Liquids
Attachment 4 - Certified Industrial Hygienist Certificate
Attachment 5 - Certification of Tank Disposal
Attachment 6 - Compaction Report - Tank Excavation Backfill
Attachment 7 - Soil Sampling and Tank Removal Monitoring
Attachment 8 - Certified Analytical Report and Chain-of-Custody Documentation
Attachment 9 - Limitations

cc: Inspector Don Smith,
Los Angeles City Department of Fire

Printed on Recycled Paper

REFERENCES

CCR, May 1991, California Code of Regulations, Title 22, Division 4.5, 1991.

DHS, June 22, 1990, Interim Guidelines for Preparation of a Preliminary Endangerment Assessment Report: California Department of Health Services.

EMCON, August 30, 1991, Workplan for Underground Storage Tank Removal, Douglas Aircraft Company, Torrance Facility (C6), 19503 South Normandie Avenue, Torrance, California: EMCON Associates, Burbank, California (project no. C34-08.01).

EMCON, January 21, 1991, Transmittal of Bid No. C1-151-7BD-032: EMCON Associates, Burbank, California (project no. C34-08.01).

Federal Register, Volume 55, No. 134, July 27, 1990, 40 CFR Parts 264, 265, 270, and 271 Corrective Action for Solid Waste Management Units at Hazardous Waste Management Facilities; Proposed Rule.

RWQCB, January 7, 1987, Guidelines for the Disposal of Effluent from Fuel and/or Solvents Contaminated Ground-Water Treatment Systems and Cleanup of Petroleum Hydrocarbon Contaminated Soils: California Regional Water Quality Control Board - Lahontan Region.

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
Douglas Aircraft Company Torrance Facility (C6)
19503 South Normandie Avenue, Torrance, California

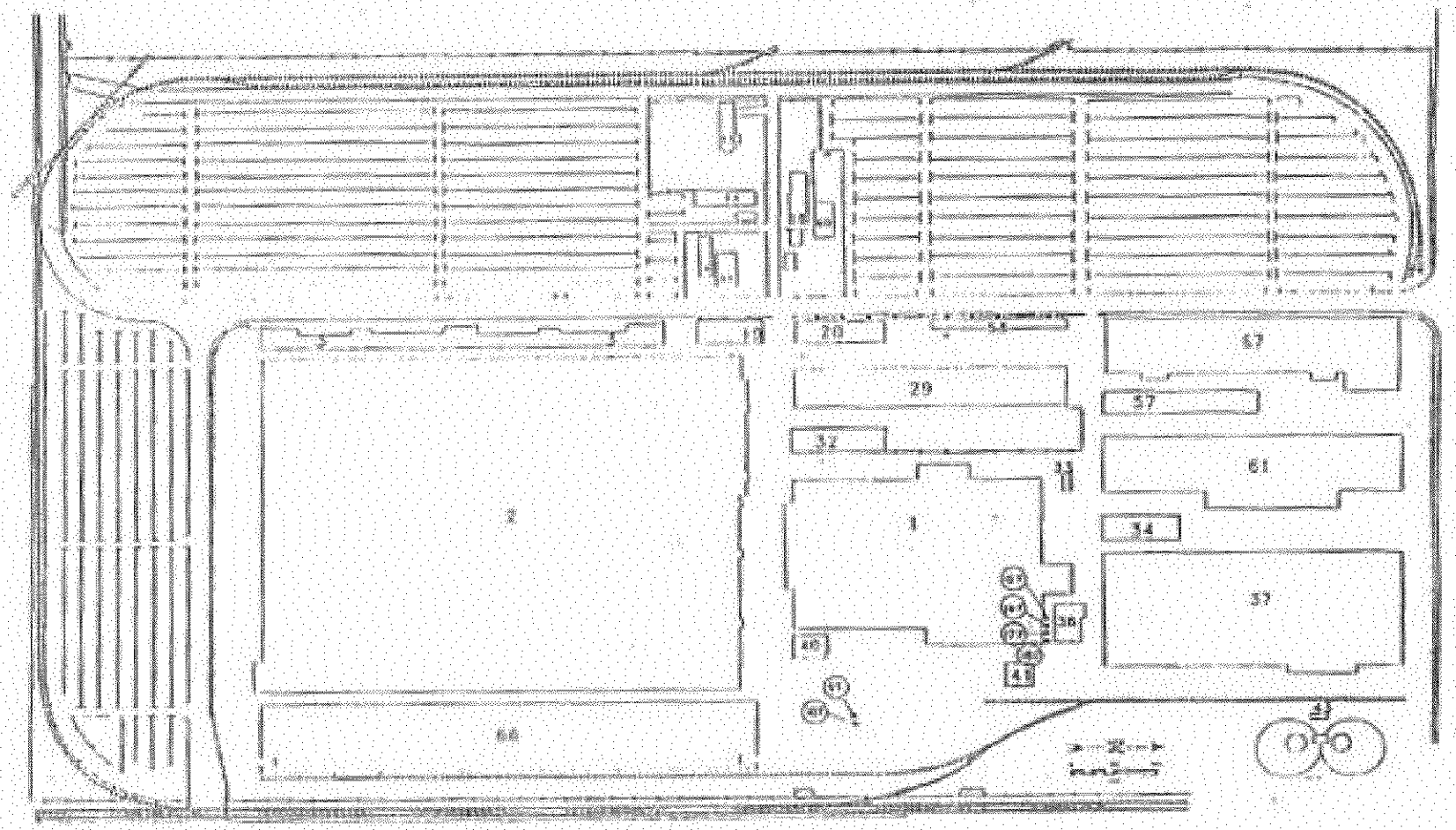
Sample No.	Location	Date Sampled	TPH (1) (mg/kg)	Benzene (2) (mg/kg)	Toluene (2) (mg/kg)	Total Xylenes (2) (mg/kg)	Ethyl-benzene (2) (mg/kg)	Total Chromium (3) (mg/kg)	Nitrate (4) (mg/kg)	Sulfate (4) (mg/kg)	Fluoride (4) (mg/kg)	STLC Hexavalent Chromium (5) (mg/L)
DAC-01		10/19/91	<10	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--
DAC-02	excavation (15T - 18T)	10/19/91	45	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--
DAC-03		10/19/91	<10	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--
DAC-04		10/19/91	28	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--
DAC-05		10/19/91	<10	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--
DAC-06		10/19/91	<10	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--
DAC-07	excavation (10T)	10/19/91	<10	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--
DAC-08		10/19/91	<10	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--
DAC-09	excavation (9T)	10/19/91	--	<0.005	<0.005	<0.005	<0.005	23	<10	12	66	--
DAC-10		10/19/91	--	<0.005	<0.005	<0.005	<0.005	160	27	250	<25	<0.10
DAC-11	piping (15T)	10/19/91	700	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--
DAC-12	spoil pile (15T-18T)	10/19/91	73	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--
DAC-13		10/19/91	24	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--

QA/QC [signature] 4/6/93

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
Douglas Aircraft Company Torrance Facility (C6)
19503 South Normandie Avenue, Torrance, California

Sample No.	Location	Date Sampled	TPH (1) (mg/kg)	Benzene (2) (mg/kg)	Toluene (2) (mg/kg)	Total Xylenes (2) (mg/kg)	Ethyl-benzene (2) (mg/kg)	Total Chromium (3) (mg/kg)	Nitrate (4) (mg/kg)	Sulfate (4) (mg/kg)	Fluoride (4) (mg/kg)	STLC Hexavalent Chromium (5) (mg/L)
DAC-14	spoil pile (15T-18T)	10/19/91	<10	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--
DAC-15		10/19/91	2900	<0.005	<0.005	<0.005	<0.005	450	<10	1000	<25	--
DAC-16	spoil piles (9T-10T)	10/19/91	4100	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--
DAC-17		10/19/91	57	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--
DAC-18		10/19/91	1200	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--
Regulatory Criteria and Guidelines:												
		TTLC (6)	nc	nc	nc	nc	nc	2500	nc	nc	18,000	500
		STLC (7)	nc	nc	nc	nc	nc	560	nc	nc	180	5
		SSV-chronic (8)	nc	nc	nc	nc	nc	1,000,000	1,000,000	nc	80,000	nc
		SSV-Syser (8)	nc	nc	nc	nc	nc	2,000	2,000	nc	100	nc
		RWQCB (9)	100	nc	nc	nc	nc	nc	nc	nc	nc	nc

Soil samples analyzed by Golden State Analytical Services, Inc., Van Nuys, California.
-- = not analyzed.
nc = no criteria or guideline established.
(1) TPH (Total Petroleum Hydrocarbons) analyzed using U.S. EPA Method 418.1.
(2) Analyzed using U.S. EPA Method 8020.
(3) Analyzed using U.S. EPA Method 7190.
(4) Analyzed using U.S. EPA Method 300.0m.
(5) Analyzed using U.S. EPA Method 7197.
(6) = Total Threshold Limit Concentration (California Code of Regulations, Title 22, Division 4.5).
(7) = Soluble Threshold Limit Concentration, in mg/L (California Code of Regulations, Title 22, Division 4.5).
(8) = Soil Ingestion Screening Values (Interim Guidance for Preparation of a Preliminary Endangerment Assessment Report, State of California Department of Health Services, June 22, 1990).
(9) = Petroleum Hydrocarbon Guidelines, in mg/kg (California Regional Water Quality Control Board, Lahontan Region, January 1987).



EMCON Southwest

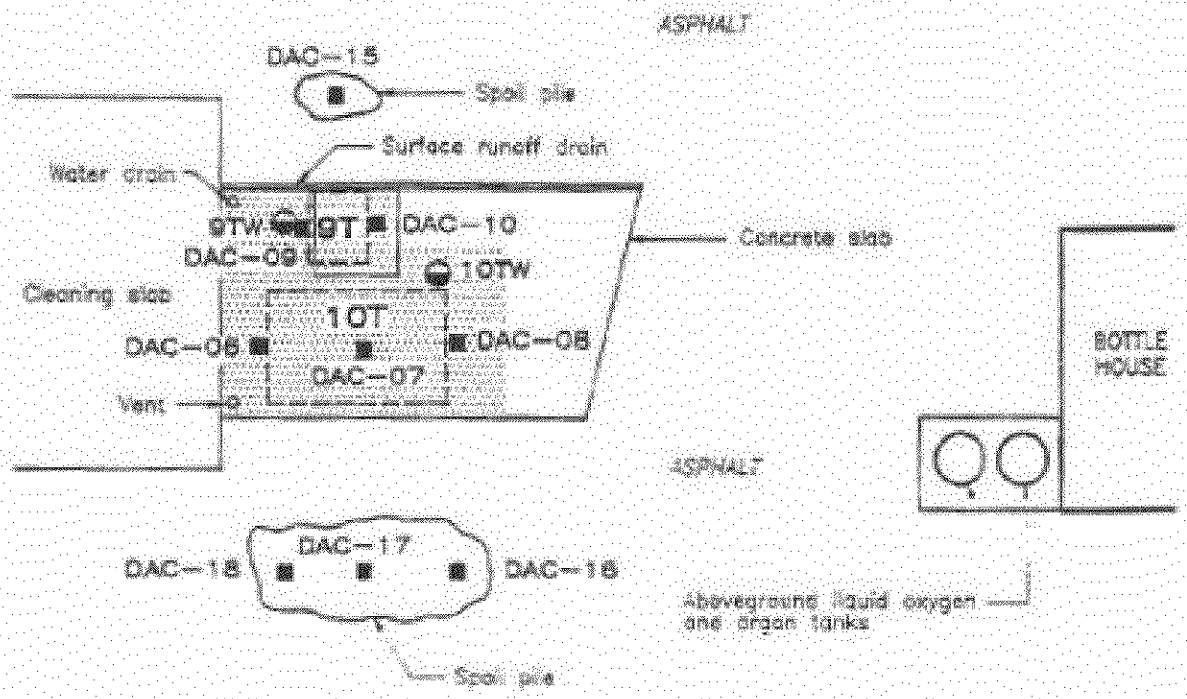
DOUGLAS AIRCRAFT COMPANY
TORRANCE FACILITY (C6)
19503 S. NORMANDIE AVENUE
TORRANCE, CALIFORNIA

SITE LOCATION MAP

FIGURE 1

PROJECT NO.

BOE-C6-0000431



LEGEND

10TW	Douglas Aircraft vadose-zone wells removed during excavation of Tanks 9T and 10T
DAC-10	EMCON soil sample location
9T	Former underground storage tank
	Approximate limits of excavation

0 10 20 FEET
SCALE

EMCON Southwest

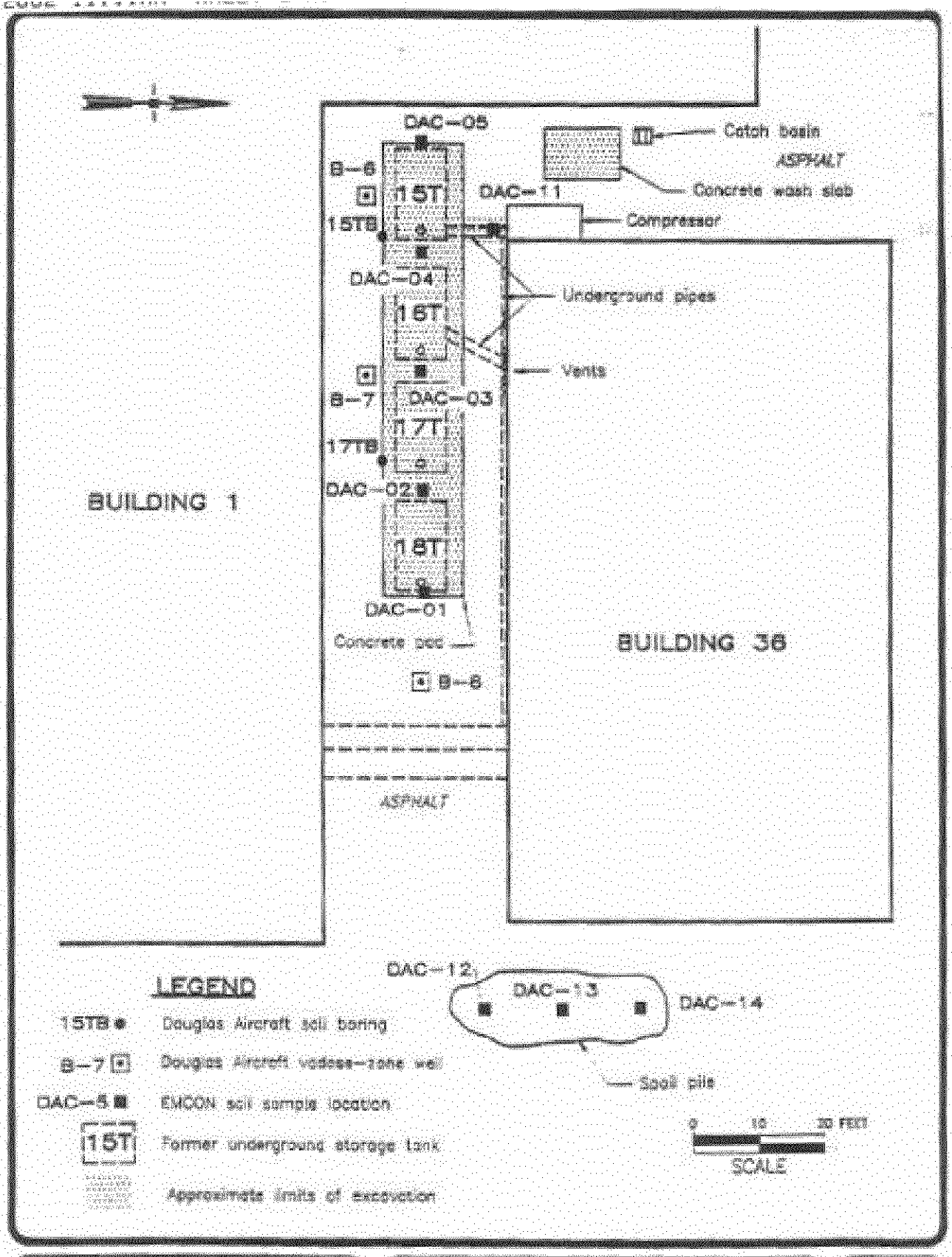
DOUGLAS AIRCRAFT COMPANY
TORRANCE FACILITY (C6)
19503 S. NORMANDIE AVENUE
TORRANCE, CALIFORNIA

LOCATION OF TANKS 9T AND 10T

FIGURE 2

PROJECT NO. C34-06.01

DATE LAST REVISED 3-19-89



EMCON Southwest

DOUGLAS AIRCRAFT COMPANY
TORRANCE FACILITY (C6)
19503 S. NORMANDIE AVENUE
TORRANCE, CALIFORNIA

LOCATION OF TANKS 15T THROUGH 18T

FIGURE 3

PROJECT NO. C34-08.01

CADD FILE: C34080Mined on Recycled Paper
DATE LAST REVISED: 3-13-93

APPENDIX D

BORING LOGS

TEST BORING REPORT

BORING NO. **DP-9T-1**

PROJECT	Boeing Realty Corporation Former C-6 Facility	H&A FILE NO.	27285-013
LOCATION	Los Angeles, CA	PROJECT MGR.	Scott Zachary
CLIENT	Boeing Realty Corporation	FIELD REP.	T. Hammond
CONTRACTOR	Kehoe Testing & Engineering	DATE STARTED	12/20/2001
DRILLER	Dan Clyde	DATE FINISHED	12/20/2001

Elevation ft Datum

Boring Location: Parcel A - Parking Lot South of AutoNation Building

Item	Casing	Sampler	Core Barrel
Type	None		0
Inside Diameter (in.)	--	Direct-push	1
Hammer Weight (lb.)	--	--	
Hammer Fall (in.)	--	--	

Rig Make & Model: Geoprobe 40

- [x] Truck
- [ ] ATV
- [ ] Track
- [ ] Skid
- [ ] Tripod
- [ ] Geoprobe
- [ ] Air Track
- [ ] Cat-Head
- [ ] Winch
- [ ] Roller Bit
- [x] Cutting Head

Hammer Type: [x] Safety [ ] Doughnut [ ] Automatic

Drilling Mud: [ ] Bentonite [ ] Polymer [x] None

Casing Advance: Type Method Depth

Drilling Notes: Hand-Augered to 5 feet bgs

Depth (ft.)	Sampler Blows per 6 in.	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, 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							4" Asphalt - Cored 12" Diameter Opening										
					1.0		8" Structural fill base										
						CL	Stiff, brown silty CLAY with gravel and sand, moist, no odor										
					4.0												
5						ML	Soft, yellow-brown to brown clayey SILT, moist, no odor										
	NA	DP-9T-1-5 (6")	5'														
					6.0												
10	NA	DP-9T-1-10 (6")	10'			CL	Stiff, brown silty CLAY, moist, no odor										
15	NA	DP-9T-1-15 (6")	15'														
20	NA	DP-9T-1-20 (6")	20'				Bottom of boring at 20 feet bgs. Borehole backfilled with hydrated #6 bentonite crumbles.										
							Soil samples were collected and identified at 5' intervals, strata change are approximate.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water
					None

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

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

Summary

Overburden (Linear ft.)	
Rock Cored (Linear ft.)	
Number of Samples	4
BORING NO.	DP-9T-1

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

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

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

Form #3000

TEST BORING REPORT

HALEY & ALDRICH

BORING NO. **DP-9T-2**

PROJECT	Boeing Realty Corporation Former C-6 Facility	H&A FILE NO.	27285-013
LOCATION	Los Angeles, CA	PROJECT MGR.	Scott Zachary
CLIENT	Boeing Realty Corporation	FIELD REP.	T. Hammond
CONTRACTOR	Kehoe Testing & Engineering	DATE STARTED	12/20/2001
DRILLER	Dan Clyde	DATE FINISHED	12/20/2001

Elevation ft Datum

Boring Location: Parcel A - Parking Lot South of AutoNation Building

Item	Casing	Sampler	Core Barrel
Type	None		0
Inside Diameter (in.)	--	Direct-push	1
Hammer Weight (lb.)	--	--	
Hammer Fall (in.)	--	--	

Rig Make & Model: Geoprobe 40

- [x] Truck
- [ ] ATV
- [ ] Track
- [ ] Skid
- [ ] Tripod
- [ ] Geoprobe
- [ ] Air Track
- [ ] Cat-Head
- [ ] Winch
- [ ] Roller Bit
- [x] Cutting Head

Hammer Type: [x] Safety [ ] Doughnut [ ] Automatic

Drilling Mud: [ ] Bentonite [ ] Polymer [x] None

Drilling Notes: Hand-Augered to 5 feet bgs

Casing Advance: Type Method Depth

Depth (ft.)	Sampler Blows per 6 in.	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, 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							4" Asphalt - Cored 12" Diameter Opening										
					1.0		8" Structural fill base										
						CL	Stiff, brown, silty sandy CLAY with gravel, moist, no odor										
					4.0												
5						ML	Soft, yellow-brown, clayey SILT, moist, no odor										
	NA	DP-9T-2-5 (6")	5'		6.0												
10	NA	DP-9T-2-10 (6")	10'			CL	Stiff, brown, silty CLAY, moist, no odor										
15	NA	DP-9T-2-15 (6")	15'														
20	NA	DP-9T-2-20 (6")	20'				Bottom of boring at 20 feet bgs. Borehole backfilled with hydrated #8 bentonite crumbles.										

Soil samples were collected and identified at 5' intervals, strata change are approximate.

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water
					None

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

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

Summary

Overburden (Linear ft.)	
Rock Cored (Linear ft.)	
Number of Samples	4

BORING NO. DP-9T-2

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

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

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

Form #3000

TEST BORING REPORT

HALEY & ALDRICH

BORING NO. DP-9T-3

PROJECT	Boeing Realty Corporation Former C-6 Facility	H&A FILE NO.	27285-013
LOCATION	Los Angeles, CA	PROJECT MGR.	Scott Zachary
CLIENT	Boeing Realty Corporation	FIELD REP.	T. Hammond
CONTRACTOR	Kehoe Testing & Engineering	DATE STARTED	12/20/2001
DRILLER	Dan Clyde	DATE FINISHED	12/20/2001

Elevation ft Datum

Boring Location: Parcel A - Parking Lot South of AutoNation Building

Item	Casing	Sampler	Core Barrel
Type	None		0
Inside Diameter (in.)	--	Direct-push	1
Hammer Weight (lb.)	--	--	
Hammer Fall (in.)	--	--	

Rig Make & Model: Geoprobe 40

- [x] Truck
- [ ] ATV
- [ ] Track
- [ ] Skid
- [ ] Tripod
- [ ] Geoprobe
- [ ] Air Track
- [ ] Cat-Head
- [ ] Winch
- [ ] Roller Bit
- [x] Cutting Head

Hammer Type: [x] Safety [ ] Doughnut [ ] Automatic

Drilling Mud: [ ] Bentonite [ ] Polymer [x] None

Casing Advance: Type Method Depth

Drilling Notes: Hand-Augered to 5 feet bgs

Depth (ft.)	Sampler Blows per 6 in.	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, 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							4" Asphalt - Cored 12" Diameter Opening										
					1.0		8" Structural fill base										
						CH	Stiff, dark brown, gravelly CLAY with silt and sand, concrete chunks; moist, -FILL-										
					4.0												
5	NA	DP-9T-3-5 (6")	5'			SP	Loose, tan, gravelly SAND, low moisture, homogeneous STRUCTURAL FILL										
					7.0												
10	NA	DP-9T-3-10 (6")	10'			CL	Stiff, brown, silty CLAY, moist, no odor										
15	NA	DP-9T-3-15 (6")	15'														
20	NA	DP-9T-3-20 (6")	20'				Bottom of boring at 20 feet bgs. Borehole backfilled with hydrated #8 bentonite crumbles.										
							Soil samples were collected and identified at 5' intervals, stratum changes are approximate.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water
					None

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

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

Summary

Overburden (Linear ft.)	
Rock Cored (Linear ft.)	
Number of Samples	4

BORING NO. DP-9T-3

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

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

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

Form #3000

APPENDIX E

LABORATORY REPORT

SEVERN
TRENT
SERVICES

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

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

December 27, 2001

STL LOT NUMBER: E1L200353
NELAP Certification Number: 01118CA
PO/CONTRACT: 05160-SEV002-S56

Scott Zachary
Haley & Aldrich Inc
9040 Friars Road
Suite 220
San Diego, CA 92108

Dear Mr. Zachary,

This report contains the analytical results for the 12 samples received under chain of custody by STL Los Angeles on December 20, 2001. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

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

STL Los Angeles certifies that the tests performed at our facility meet all NELAP requirements for parameters for which accreditation is required or available. The case narrative is an integral part of the report. This report shall not be reproduced except in full, without the written approval of the laboratory.

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

Sincerely,

Diane Suzuki
Project Manager

CC: Project File

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

ACCREDITED IN ACCORDANCE WITH nelac

BOE-C6-0000439

[redacted]

Chain of Custody Record

Q: 42295

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: HALEY & ALDRICH	Project Manager: SCOTT ZACHARY	Date: 12/20/01	Chain of Custody Number: 054110
Address: 9040 FRIARS ROAD, SUITE 220	Telephone Number (Area Code)/Fax Number: 619-280-9210	Lab Number: ELL200353	Page 1 of 1
City: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact: TRAVIS HAMMOND	Lab Contact: D. SUZUKI	
Project Name and Location (State): C6 - TORRANCE, CA	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): METALS 6010	VOCS 8260B + TCE per Sue Bechard	PH				HOLD FOR: CrVI 7199	VOC'S 8260B				Special Instructions/ Conditions of Receipt
DP-9T-1-5'-122001	12/20/01	12:00				X		X							X		X				X					IF TOTAL CHROMIUM
DP-9T-1-10'-122001		12:20																								>76 mg/kg, RUN
DP-9T-1-15'-122001		12:30																								CHROMIUM IV BY
DP-9T-1-20'-122001		12:40																								METHOD 7199
DP-9T-2-5'-122001		12:40																								
DP-9T-2-10'-122001		13:00														X										
DP-9T-2-15'-122001		13:10														X										
DP-9T-2-20'-122001		13:20																				X				HOLD 20' SAMPLE
DP-9T-3-5'-122001		13:30																								FOR VOCS PENDING
DP-9T-3-10'-122001		13:40																								RESULT OF 10', 15'
DP-9T-3-15'-122001		13:50																								
DP-9T-3-20'-122001		14:00																								

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

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

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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	12/20/01	17:45	1. Received By	12/20/01	1745
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

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

000002

BOE-C6-0000440

STL LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 12/20/01

Quantims Lot #: EIL200353
Quote #: 42295
Client Name: Haley & Aldrich
Project: C6-Torrence
Received by: R Suzuki
Date/Time Received: 12/20/01 1745
Delivered by : ☒Client ☐Airborne ☐Fed Ex ☐DHL ☐In-House Courier ☐Rey B. ☐UPS ☐DES ☐Other _____

****

Initial / Date

Custody Seal Status: ☐Intact ☐Broken ☒None ..... AS 12/20/01
Custody Seal #(s): _____ ☒No Seal # .....
Sample Container(s): ☐STL-LA ☒Client ☐N/A .....
Temperature(s) (Cooler/blank) in °C: 3.6 Correction factor -0.1°C (Corrected Temp.) 3.5 ...
Thermometer Used : ID: B ☒IR (Infra-red) ☐Digital (Probe) .....
Samples: ☒Intact ☐Broken ☐Other _____ .....
Anomalies: ☒No ☐Yes (See Clouseau) .....
Labeled by .....
Labeling checked by .....

****

Turn Around Time: ☐RUSH-24HR ☐RUSH-48HR ☐RUSH-72HR ☒NORMAL .....
Short-Hold Notification: ☐Ph ☐Wet Chem ☐Metals (Filter/Pres) ☐Encore ☒N/A ...
Outside Analysis(es) (Test/Lab/Date Sent Out) :

N/A

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

Fraction	1	2→4	5	6→8	9	10→12					PH
VOAh /*											N/A
CGJ	1		1		1						
BSleeve		1		1		1					

h:HCl na:Sodium Hydoxide znna:Zinc Acetate/Sodium Hydroxide s: H2SO4 n:HNO3 n/f:HNO3-Field filtered n/f/l:HNO3-Lab filtered
CGJ:Clear Glass Jar CGB:Clear Glass Bottle AGJ:Amber Glass Jar AGB:Amber Glass Bottle PB: Poly Bottle E:Encore Sampler V:VOA SL:Sleeve
* Number of VOA's w/ Headspace present

LOGGED BY/DATE: 12/20/01 REVIEWED BY/DATE: [signature] 12/20/01

PRC Ver. 6 081401 KRF QANACA01\N:\Precis\Sample Control Forms

[signature] 000003

SEVERN
TRENT
SERVICES

Analytical Report

000004

EXECUTIVE SUMMARY - Detection Highlights

E1L200353

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
DP_9T_1_5_122001 12/20/01 12:00 001				
Mercury	0.062 B	0.10	mg/kg	SW846 7471A
Aluminum	24600	20.0	mg/kg	SW846 6010B
Arsenic	6.2	1.0	mg/kg	SW846 6010B
Barium	134	2.0	mg/kg	SW846 6010B
Cadmium	0.30 B	0.50	mg/kg	SW846 6010B
Chromium	30.1 J	1.0	mg/kg	SW846 6010B
Beryllium	0.93	0.50	mg/kg	SW846 6010B
Lead	6.9	0.50	mg/kg	SW846 6010B
Cobalt	11.9	5.0	mg/kg	SW846 6010B
Copper	19.1	2.5	mg/kg	SW846 6010B
Molybdenum	0.31 B	4.0	mg/kg	SW846 6010B
Nickel	16.0	4.0	mg/kg	SW846 6010B
Vanadium	56.9	5.0	mg/kg	SW846 6010B
Zinc	64.6	2.0	mg/kg	SW846 6010B
pH (solid)	7.2	0.10	No Units	SW846 9045C
DP_9T_1_10_122001 12/20/01 12:20 002				
Mercury	0.054 B	0.10	mg/kg	SW846 7471A
Aluminum	28100	20.0	mg/kg	SW846 6010B
Arsenic	5.9	1.0	mg/kg	SW846 6010B
Barium	137	2.0	mg/kg	SW846 6010B
Cadmium	0.88	0.50	mg/kg	SW846 6010B
Chromium	37.5 J	1.0	mg/kg	SW846 6010B
Beryllium	1.1	0.50	mg/kg	SW846 6010B
Lead	7.6	0.50	mg/kg	SW846 6010B
Cobalt	14.4	5.0	mg/kg	SW846 6010B
Copper	37.9	2.5	mg/kg	SW846 6010B
Molybdenum	0.72 B	4.0	mg/kg	SW846 6010B
Nickel	26.3	4.0	mg/kg	SW846 6010B
Thallium	1.4	1.0	mg/kg	SW846 6010B
Vanadium	78.8	5.0	mg/kg	SW846 6010B
Zinc	83.3	2.0	mg/kg	SW846 6010B
pH (solid)	8.4	0.10	No Units	SW846 9045C
DP_9T_1_15_122001 12/20/01 12:30 003				
Mercury	0.039 B	0.10	mg/kg	SW846 7471A
Aluminum	20100	20.0	mg/kg	SW846 6010B
Arsenic	4.6	1.0	mg/kg	SW846 6010B
Barium	1470	4.0	mg/kg	SW846 6010B
Cadmium	0.62	0.50	mg/kg	SW846 6010B
Chromium	28.0 J	1.0	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E1L200353

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
DP_9T_1_15_122001 12/20/01 12:30 003				
Beryllium	0.85	0.50	mg/kg	SW846 6010B
Lead	5.5	0.50	mg/kg	SW846 6010B
Cobalt	11.5	5.0	mg/kg	SW846 6010B
Copper	27.9	2.5	mg/kg	SW846 6010B
Nickel	19.3	4.0	mg/kg	SW846 6010B
Vanadium	61.9	5.0	mg/kg	SW846 6010B
Zinc	69.4	2.0	mg/kg	SW846 6010B
pH (solid)	8.5	0.10	No Units	SW846 9045C
DP_9T_1_20_122001 12/20/01 12:40 004				
Mercury	0.036 B	0.10	mg/kg	SW846 7471A
Aluminum	25100	20.0	mg/kg	SW846 6010B
Arsenic	4.5	1.0	mg/kg	SW846 6010B
Barium	184	2.0	mg/kg	SW846 6010B
Cadmium	1.0	0.50	mg/kg	SW846 6010B
Chromium	32.5 J	1.0	mg/kg	SW846 6010B
Beryllium	1.0	0.50	mg/kg	SW846 6010B
Lead	6.7	0.50	mg/kg	SW846 6010B
Cobalt	13.1	5.0	mg/kg	SW846 6010B
Copper	38.2	2.5	mg/kg	SW846 6010B
Molybdenum	0.44 B	4.0	mg/kg	SW846 6010B
Nickel	20.6	4.0	mg/kg	SW846 6010B
Vanadium	68.8	5.0	mg/kg	SW846 6010B
Zinc	92.3	2.0	mg/kg	SW846 6010B
pH (solid)	8.2	0.10	No Units	SW846 9045C
DP_9T_2_5_122001 12/20/01 12:40 005				
Mercury	0.041 B	0.10	mg/kg	SW846 7471A
Aluminum	24900	20.0	mg/kg	SW846 6010B
Arsenic	3.6	1.0	mg/kg	SW846 6010B
Barium	121	2.0	mg/kg	SW846 6010B
Chromium	27.5 J	1.0	mg/kg	SW846 6010B
Beryllium	0.78	0.50	mg/kg	SW846 6010B
Lead	5.9	0.50	mg/kg	SW846 6010B
Cobalt	11.5	5.0	mg/kg	SW846 6010B
Copper	18.8	2.5	mg/kg	SW846 6010B
Molybdenum	0.36 B	4.0	mg/kg	SW846 6010B
Nickel	17.0	4.0	mg/kg	SW846 6010B
Thallium	1.1	1.0	mg/kg	SW846 6010B
Vanadium	57.5	5.0	mg/kg	SW846 6010B
Zinc	60.1	2.0	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E1L200353

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
DP_9T_2_5_122001 12/20/01 12:40 005				
pH (solid)	8.0	0.10	No Units	SW846 9045C
DP_9T_2_10_122001 12/20/01 13:00 006				
Mercury	0.036 B	0.10	mg/kg	SW846 7471A
Aluminum	26100	20.0	mg/kg	SW846 6010B
Arsenic	4.0	1.0	mg/kg	SW846 6010B
Barium	126	2.0	mg/kg	SW846 6010B
Chromium	31.7 J	1.0	mg/kg	SW846 6010B
Beryllium	0.84	0.50	mg/kg	SW846 6010B
Lead	6.5	0.50	mg/kg	SW846 6010B
Cobalt	14.1	5.0	mg/kg	SW846 6010B
Copper	29.5	2.5	mg/kg	SW846 6010B
Molybdenum	0.38 B	4.0	mg/kg	SW846 6010B
Nickel	20.8	4.0	mg/kg	SW846 6010B
Thallium	1.3	1.0	mg/kg	SW846 6010B
Vanadium	67.4	5.0	mg/kg	SW846 6010B
Zinc	76.3	2.0	mg/kg	SW846 6010B
pH (solid)	7.7	0.10	No Units	SW846 9045C
DP_9T_2_15_122001 12/20/01 13:10 007				
Mercury	0.044 B	0.10	mg/kg	SW846 7471A
Aluminum	24600	20.0	mg/kg	SW846 6010B
Arsenic	4.1	1.0	mg/kg	SW846 6010B
Barium	130	2.0	mg/kg	SW846 6010B
Chromium	33.3 J	1.0	mg/kg	SW846 6010B
Beryllium	0.77	0.50	mg/kg	SW846 6010B
Lead	6.2	0.50	mg/kg	SW846 6010B
Cobalt	11.4	5.0	mg/kg	SW846 6010B
Copper	44.8	2.5	mg/kg	SW846 6010B
Molybdenum	0.49 B	4.0	mg/kg	SW846 6010B
Nickel	20.7	4.0	mg/kg	SW846 6010B
Vanadium	62.9	5.0	mg/kg	SW846 6010B
Zinc	77.5	2.0	mg/kg	SW846 6010B
pH (solid)	8.1	0.10	No Units	SW846 9045C
DP_9T_2_20_122001 12/20/01 13:20 008				
Mercury	0.040 B	0.10	mg/kg	SW846 7471A
Aluminum	30600	20.0	mg/kg	SW846 6010B
Arsenic	5.2	1.0	mg/kg	SW846 6010B
Barium	221	2.0	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E1L200353

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
DP_9T_2_20_122001 12/20/01 13:20 008				
Cadmium	0.60	0.50	mg/kg	SW846 6010B
Chromium	37.5 J	1.0	mg/kg	SW846 6010B
Beryllium	1.1	0.50	mg/kg	SW846 6010B
Lead	10.2	0.50	mg/kg	SW846 6010B
Cobalt	15.9	5.0	mg/kg	SW846 6010B
Copper	46.8	2.5	mg/kg	SW846 6010B
Molybdenum	0.44 B	4.0	mg/kg	SW846 6010B
Nickel	26.7	4.0	mg/kg	SW846 6010B
Thallium	1.2	1.0	mg/kg	SW846 6010B
Vanadium	79.7	5.0	mg/kg	SW846 6010B
Zinc	109	2.0	mg/kg	SW846 6010B
pH (solid)	7.9	0.10	No Units	SW846 9045C
DP_9T_3_5_122001 12/20/01 13:30 009				
Mercury	0.038 B	0.10	mg/kg	SW846 7471A
Aluminum	7450	20.0	mg/kg	SW846 6010B
Arsenic	3.7	1.0	mg/kg	SW846 6010B
Barium	63.9	2.0	mg/kg	SW846 6010B
Chromium	9.8 J	1.0	mg/kg	SW846 6010B
Beryllium	0.36 B	0.50	mg/kg	SW846 6010B
Lead	4.2	0.50	mg/kg	SW846 6010B
Cobalt	4.8 B	5.0	mg/kg	SW846 6010B
Copper	13.9	2.5	mg/kg	SW846 6010B
Nickel	7.7	4.0	mg/kg	SW846 6010B
Vanadium	23.8	5.0	mg/kg	SW846 6010B
Zinc	31.2	2.0	mg/kg	SW846 6010B
pH (solid)	8.3	0.10	No Units	SW846 9045C
DP_9T_3_10_122001 12/20/01 13:40 010				
Mercury	0.047 B	0.10	mg/kg	SW846 7471A
Aluminum	29800	20.0	mg/kg	SW846 6010B
Arsenic	5.4	1.0	mg/kg	SW846 6010B
Barium	162	2.0	mg/kg	SW846 6010B
Cadmium	0.47 B	0.50	mg/kg	SW846 6010B
Chromium	41.0 J	1.0	mg/kg	SW846 6010B
Beryllium	1.0	0.50	mg/kg	SW846 6010B
Lead	8.0	0.50	mg/kg	SW846 6010B
Cobalt	14.8	5.0	mg/kg	SW846 6010B
Copper	43.8	2.5	mg/kg	SW846 6010B
Molybdenum	0.56 B	4.0	mg/kg	SW846 6010B
Nickel	28.2	4.0	mg/kg	SW846 6010B

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EXECUTIVE SUMMARY - Detection Highlights

E1L200353

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
DP_9T_3_10_122001 12/20/01 13:40 010				
Thallium	0.89 B	1.0	mg/kg	SW846 6010B
Vanadium	80.6	5.0	mg/kg	SW846 6010B
Zinc	91.6	2.0	mg/kg	SW846 6010B
pH (solid)	8.5	0.10	No Units	SW846 9045C
DP_9T_3_15_122001 12/20/01 13:50 011				
Mercury	0.037 B	0.10	mg/kg	SW846 7471A
Aluminum	19900	20.0	mg/kg	SW846 6010B
Arsenic	4.2	1.0	mg/kg	SW846 6010B
Barium	124	2.0	mg/kg	SW846 6010B
Chromium	28.3 J	1.0	mg/kg	SW846 6010B
Beryllium	0.72	0.50	mg/kg	SW846 6010B
Lead	5.2	0.50	mg/kg	SW846 6010B
Cobalt	10.6	5.0	mg/kg	SW846 6010B
Copper	32.5	2.5	mg/kg	SW846 6010B
Molybdenum	0.78 B	4.0	mg/kg	SW846 6010B
Nickel	20.3	4.0	mg/kg	SW846 6010B
Vanadium	58.0	5.0	mg/kg	SW846 6010B
Zinc	63.8	2.0	mg/kg	SW846 6010B
pH (solid)	7.7	0.10	No Units	SW846 9045C
DP_9T_3_20_122001 12/20/01 14:00 012				
Mercury	0.067 B	0.10	mg/kg	SW846 7471A
Aluminum	17400	20.0	mg/kg	SW846 6010B
Arsenic	3.0	1.0	mg/kg	SW846 6010B
Barium	93.1	2.0	mg/kg	SW846 6010B
Cadmium	0.12 B	0.50	mg/kg	SW846 6010B
Chromium	21.3 J	1.0	mg/kg	SW846 6010B
Beryllium	0.71	0.50	mg/kg	SW846 6010B
Lead	4.3	0.50	mg/kg	SW846 6010B
Cobalt	7.6	5.0	mg/kg	SW846 6010B
Copper	23.6	2.5	mg/kg	SW846 6010B
Nickel	14.3	4.0	mg/kg	SW846 6010B
Vanadium	46.3	5.0	mg/kg	SW846 6010B
Zinc	59.0	2.0	mg/kg	SW846 6010B
pH (solid)	7.8	0.10	No Units	SW846 9045C

METHODS SUMMARY

E1L200353

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Soil and Waste pH	SW846 9045C	
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

E1L200353

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EQWLH	001	DP_9T_1_5_122001	12/20/01	12:00
EQWLW	002	DP_9T_1_10_122001	12/20/01	12:20
EQWLX	003	DP_9T_1_15_122001	12/20/01	12:30
EQWL0	004	DP_9T_1_20_122001	12/20/01	12:40
EQWL2	005	DP_9T_2_5_122001	12/20/01	12:40
EQWL4	006	DP_9T_2_10_122001	12/20/01	13:00
EQWL6	007	DP_9T_2_15_122001	12/20/01	13:10
EQWL7	008	DP_9T_2_20_122001	12/20/01	13:20
EQWL8	009	DP_9T_3_5_122001	12/20/01	13:30
EQWL9	010	DP_9T_3_10_122001	12/20/01	13:40
EQWMA	011	DP_9T_3_15_122001	12/20/01	13:50
EQWMC	012	DP_9T_3_20_122001	12/20/01	14:00

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: DP_9T_2_10_122001

GC/MS Volatiles

Lot-Sample #...: E1L200353-006 Work Order #...: EQWL41AA Matrix.....: SOLID
Date Sampled...: 12/20/01 13:00 Date Received..: 12/20/01 17:45 MS Run #.....: 1360133
Prep Date.....: 12/21/01 Analysis Date..: 12/21/01
Prep Batch #...: 1360257 Analysis Time..: 19:18
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: DP_9T_2_10_122001

GC/MS Volatiles

Lot-Sample #...: E1L200353-006 Work Order #...: EQWL41AA 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	78	(65 - 135)
1,2-Dichloroethane-d4	92	(60 - 140)
Toluene-d8	84	(70 - 130)

HALEY & ALDRICH INC

Client Sample ID: DP_9T_2_15_122001

GC/MS Volatiles

Lot-Sample #...: E1L200353-007 Work Order #...: EQWL61AA Matrix.....: SOLID
Date Sampled...: 12/20/01 13:10 Date Received..: 12/20/01 17:45 MS Run #.....: 1360133
Prep Date.....: 12/21/01 Analysis Date..: 12/21/01
Prep Batch #...: 1360257 Analysis Time..: 19:48
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: DP_9T_2_15_122001

GC/MS Volatiles

Lot-Sample #...: E1L200353-007 Work Order #...: EQWL61AA 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	75	(65 - 135)
1,2-Dichloroethane-d4	89	(60 - 140)
Toluene-d8	85	(70 - 130)

HALEY & ALDRICH INC

DP_9T_2_10_122001

GC/MS Volatiles

Lot-Sample #: E1L200353-006 **Work Order #:** EQWL41AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

HALEY & ALDRICH INC

DP_9T_2_15_122001

GC/MS Volatiles

Lot-Sample #: E1L200353-007 **Work Order #:** EQWL61AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

HALEY & ALDRICH INC

Method Blank Report

GC/MS Volatiles

Lot-Sample #: E1L260000-257 B **Work Order #:** EQ2MA1AA **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: DP_9T_1_5_122001

General Chemistry

Lot-Sample #...: E1L200353-001 Work Order #...: EQWLH Matrix.....: SOLID
Date Sampled...: 12/20/01 12:00 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	7.2	0.10	No Units	SW846 9045C	12/21/01	1355223

Dilution Factor: 1 Analysis Time..: 10:08 Analyst ID.....: 000022
Instrument ID..: W07 MS Run #.....: 1355106 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: DP_9T_1_10_122001

General Chemistry

Lot-Sample #...: E1L200353-002 Work Order #...: EQWLW Matrix.....: SOLID
Date Sampled...: 12/20/01 12:20 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	8.4	0.10	No Units	SW846 9045C	12/21/01	1355223

Dilution Factor: 1 Analysis Time..: 10:12 Analyst ID.....: 0000226
Instrument ID..: W07 MS Run #.....: 1355106 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: DP_9T_1_15_122001

General Chemistry

Lot-Sample #...: E1L200353-003 Work Order #...: EQWLX Matrix.....: SOLID
Date Sampled...: 12/20/01 12:30 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	8.5	0.10	No Units	SW846 9045C	12/21/01	1355223

Dilution Factor: 1 Analysis Time..: 10:14 Analyst ID.....: 0000226
Instrument ID..: W07 MS Run #.....: 1355106 MDL.....:

000021

HALEY & ALDRICH INC

Client Sample ID: DP_9T_1_20_122001

General Chemistry

Lot-Sample #...: E1L200353-004 Work Order #...: EQWL0 Matrix.....: SOLID
Date Sampled...: 12/20/01 12:40 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	8.2	0.10	No Units	SW846 9045C	12/21/01	1355223

Dilution Factor: 1 Analysis Time..: 10:16 Analyst ID.....: 0000226
Instrument ID..: W07 MS Run #.....: 1355106 MDL.....:

000022

HALEY & ALDRICH INC

Client Sample ID: DP_9T_2_5_122001

General Chemistry

Lot-Sample #...: E1L200353-005 Work Order #...: EQWL2 Matrix.....: SOLID
Date Sampled...: 12/20/01 12:40 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	8.0	0.10	No Units	SW846 9045C	12/21/01	1355223

Dilution Factor: 1 Analysis Time..: 10:18 Analyst ID.....: 0000226
Instrument ID..: W07 MS Run #.....: 1355106 MDL.....:

000023

HALEY & ALDRICH INC

Client Sample ID: DP_9T_2_10_122001

General Chemistry

Lot-Sample #...: E1L200353-006 Work Order #...: EQWL4 Matrix.....: SOLID
Date Sampled...: 12/20/01 13:00 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	7.7	0.10	No Units	SW846 9045C	12/21/01	1355223

Dilution Factor: 1 Analysis Time..: 10:20 Analyst ID.....: 0000226
Instrument ID..: W07 MS Run #.....: 1355106 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: DP_9T_2_15_122001

General Chemistry

Lot-Sample #...: E1L200353-007 Work Order #...: EQWL6 Matrix.....: SOLID
Date Sampled...: 12/20/01 13:10 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	8.1	0.10	No Units	SW846 9045C	12/21/01	1355223

Dilution Factor: 1 Analysis Time..: 10:22 Analyst ID.....: 0000226
Instrument ID..: W07 MS Run #.....: 1355106 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: DP_9T_2_20_122001

General Chemistry

Lot-Sample #...: E1L200353-008 Work Order #...: EQWL7 Matrix.....: SOLID
Date Sampled...: 12/20/01 13:20 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	7.9	0.10	No Units	SW846 9045C	12/21/01	1355223

Dilution Factor: 1 Analysis Time..: 10:24 Analyst ID.....: 0000226
Instrument ID..: W07 MS Run #.....: 1355106 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: DP_9T_3_5_122001

General Chemistry

Lot-Sample #...: E1L200353-009 Work Order #...: EQWL8 Matrix.....: SOLID
Date Sampled...: 12/20/01 13:30 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	8.3	0.10	No Units	SW846 9045C	12/21/01	1355223

Dilution Factor: 1 Analysis Time..: 10:26 Analyst ID.....: 0000226
Instrument ID..: W07 MS Run #.....: 1355106 MDL.....:

000027

HALEY & ALDRICH INC

Client Sample ID: DP_9T_3_10_122001

General Chemistry

Lot-Sample #...: E1L200353-010 Work Order #...: EQWL9 Matrix.....: SOLID
Date Sampled...: 12/20/01 13:40 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	8.5	0.10	No Units	SW846 9045C	12/21/01	1355223

Dilution Factor: 1 Analysis Time..: 10:30 Analyst ID.....: 0000226
Instrument ID..: W07 MS Run #.....: 1355106 MDL.....:

000028

HALEY & ALDRICH INC

Client Sample ID: DP_9T_3_15_122001

General Chemistry

Lot-Sample #...: E1L200353-011 Work Order #...: EQWMA Matrix.....: SOLID
Date Sampled...: 12/20/01 13:50 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	7.7	0.10	No Units	SW846 9045C	12/21/01	1355223

Dilution Factor: 1 Analysis Time..: 10:32 Analyst ID.....: 0000226
Instrument ID..: W07 MS Run #.....: 1355106 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: DP_9T_3_20_122001

General Chemistry

Lot-Sample #...: E1L200353-012 Work Order #...: EQWMC Matrix.....: SOLID
Date Sampled...: 12/20/01 14:00 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	7.8	0.10	No Units	SW846 9045C	12/21/01	1[illegible]55223

Dilution Factor: 1 Analysis Time..: 10:34 Analyst ID.....: 0000226
Instrument ID..: W07 MS Run #.....: 1355106 MDL.....:

000030

HALEY & ALDRICH INC

Client Sample ID: DP_9T_1_5_122001

TOTAL Metals

Lot-Sample #...: E1L200353-001 Matrix.....: SOLID
Date Sampled...: 12/20/01 12:00 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1355373						
Aluminum	24600	20.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLH1AA
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 8.0	
Arsenic	6.2	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLH1AC
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLH1AD
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.60	
Barium	134	2.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLH1AE
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cadmium	0.30 B	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWLH1AF
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.060	
Chromium	30.1 J	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLH1AG
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Beryllium	0.93	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWLH1AH
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.050	
Lead	6.9	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWLH1AJ
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWLH1AK
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: DP_9T_1_5_122001

TOTAL Metals

Lot-Sample #...: E1L200353-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLH1AL
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cobalt	11.9	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLH1AM
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Copper	19.1	2.5	mg/kg	SW846 6010B	12/21-12/26/01	EQWLH1AN
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Molybdenum	0.31 B	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLH1AP
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Nickel	16.0	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLH1AQ
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLH1AR
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.80	
Vanadium	56.9	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLH1AT
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Zinc	64.6	2.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLH1AU
		Dilution Factor: 1		Analysis Time..: 14:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 1.0	
Prep Batch #...: 1355386						
Mercury	0.062 B	0.10	mg/kg	SW846 7471A	12/26/01	EQWLH1AV
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 1355167	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

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

HALEY & ALDRICH INC

Client Sample ID: DP_9T_1_10_122001

TOTAL Metals

Lot-Sample #...: E1L200353-002 Matrix.....: SOLID
Date Sampled...: 12/20/01 12:20 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1355373						
Aluminum	**28100**	**20.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWLW1AA**
		Dilution Factor: 1		Analysis Time..: 15:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 8.0	
Arsenic	**5.9**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWLW1AC**
		Dilution Factor: 1		Analysis Time..: 15:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLW1AD
		Dilution Factor: 1		Analysis Time..: 15:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.60	
Barium	**137**	**2.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWLW1AE**
		Dilution Factor: 1		Analysis Time..: 15:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cadmium	**0.88**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWLW1AF**
		Dilution Factor: 1		Analysis Time..: 15:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.060	
Chromium	**37.5 J**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWLW1AG**
		Dilution Factor: 1		Analysis Time..: 15:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Beryllium	**1.1**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWLW1AH**
		Dilution Factor: 1		Analysis Time..: 15:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.050	
Lead	**7.6**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWLW1AJ**
		Dilution Factor: 1		Analysis Time..: 15:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWLW1AK
		Dilution Factor: 1		Analysis Time..: 15:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: DP_9T_1_10_122001

TOTAL Metals

Lot-Sample #...: E1L200353-002 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLW1AL
		Dilution Factor: 1		Analysis Time..: 15:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cobalt	14.4	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLW1AM
		Dilution Factor: 1		Analysis Time..: 15:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Copper	37.9	2.5	mg/kg	SW846 6010B	12/21-12/26/01	EQWLW1AN
		Dilution Factor: 1		Analysis Time..: 15:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Molybdenum	0.72 B	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLW1AP
		Dilution Factor: 1		Analysis Time..: 15:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Nickel	26.3	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLW1AQ
		Dilution Factor: 1		Analysis Time..: 15:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Thallium	1.4	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLW1AR
		Dilution Factor: 1		Analysis Time..: 15:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.80	
Vanadium	78.8	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLW1AT
		Dilution Factor: 1		Analysis Time..: 15:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Zinc	83.3	2.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLW1AU
		Dilution Factor: 1		Analysis Time..: 15:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 1.0	
Prep Batch #...: 1355386						
Mercury	0.054 B	0.10	mg/kg	SW846 7471A	12/26/01	EQWLW1AV
		Dilution Factor: 1		Analysis Time..: 15:37	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 1355167	MDL.....: 0.020	

NOTE(S):

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

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: DP_9T_1_15_122001

TOTAL Metals

Lot-Sample #...: E1L200353-003 Matrix.....: SOLID
Date Sampled...: 12/20/01 12:30 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1355373						
Aluminum	**20100**	**20.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWLX1AA**
		Dilution Factor: 1		Analysis Time..: 15:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 8.0	
Arsenic	**4.6**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWLX1AC**
		Dilution Factor: 1		Analysis Time..: 15:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLX1AD
		Dilution Factor: 1		Analysis Time..: 15:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.60	
Barium	**1470**	**4.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWLX1AE**
		Dilution Factor: 2		Analysis Time..: 19:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cadmium	**0.62**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWLX1AF**
		Dilution Factor: 1		Analysis Time..: 15:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.060	
Chromium	**28.0 J**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWLX1AG**
		Dilution Factor: 1		Analysis Time..: 15:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Beryllium	**0.85**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWLX1AH**
		Dilution Factor: 1		Analysis Time..: 15:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.050	
Lead	**5.5**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWLX1AJ**
		Dilution Factor: 1		Analysis Time..: 15:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWLX1AK
		Dilution Factor: 1		Analysis Time..: 15:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: DP_9T_1_15_122001

TOTAL Metals

Lot-Sample #...: E1L200353-003 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLX1AL
		Dilution Factor: 1		Analysis Time..: 15:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cobalt	11.5	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLX1AM
		Dilution Factor: 1		Analysis Time..: 15:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Copper	27.9	2.5	mg/kg	SW846 6010B	12/21-12/26/01	EQWLX1AN
		Dilution Factor: 1		Analysis Time..: 15:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLX1AP
		Dilution Factor: 1		Analysis Time..: 15:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Nickel	19.3	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLX1AQ
		Dilution Factor: 1		Analysis Time..: 15:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLX1AR
		Dilution Factor: 1		Analysis Time..: 15:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.80	
Vanadium	61.9	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLX1AT
		Dilution Factor: 1		Analysis Time..: 15:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Zinc	69.4	2.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWLX1AU
		Dilution Factor: 1		Analysis Time..: 15:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 1.0	
Prep Batch #...: 1355386						
Mercury	0.039 B	0.10	mg/kg	SW846 7471A	12/26/01	EQWLX1AV
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 1355167	MDL.....: 0.020	

NOTE(S):

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

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: DP_9T_1_20_122001

TOTAL Metals

Lot-Sample #...: E1L200353-004 Matrix.....: SOLID
Date Sampled...: 12/20/01 12:40 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1355373						
Aluminum	25100	20.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL01AA
		Dilution Factor: 1		Analysis Time..: 15:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 8.0	
Arsenic	4.5	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL01AC
		Dilution Factor: 1		Analysis Time..: 15:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL01AD
		Dilution Factor: 1		Analysis Time..: 15:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.60	
Barium	184	2.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL01AE
		Dilution Factor: 1		Analysis Time..: 15:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cadmium	1.0	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWL01AF
		Dilution Factor: 1		Analysis Time..: 15:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.060	
Chromium	32.5 J	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL01AG
		Dilution Factor: 1		Analysis Time..: 15:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Beryllium	1.0	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWL01AH
		Dilution Factor: 1		Analysis Time..: 15:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.050	
Lead	6.7	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWL01AJ
		Dilution Factor: 1		Analysis Time..: 15:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWL01AK
		Dilution Factor: 1		Analysis Time..: 15:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: DP_9T_1_20_122001

TOTAL Metals

Lot-Sample #...: E1L200353-004 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL01AL
		Dilution Factor: 1		Analysis Time..: 15:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cobalt	13.1	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL01AM
		Dilution Factor: 1		Analysis Time..: 15:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Copper	38.2	2.5	mg/kg	SW846 6010B	12/21-12/26/01	EQWL01AN
		Dilution Factor: 1		Analysis Time..: 15:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Molybdenum	0.44 B	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL01AP
		Dilution Factor: 1		Analysis Time..: 15:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Nickel	20.6	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL01AQ
		Dilution Factor: 1		Analysis Time..: 15:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL01AR
		Dilution Factor: 1		Analysis Time..: 15:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.80	
Vanadium	68.8	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL01AT
		Dilution Factor: 1		Analysis Time..: 15:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Zinc	92.3	2.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL01AU
		Dilution Factor: 1		Analysis Time..: 15:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 1.0	
Prep Batch #...: 1355386						
Mercury	0.036 B	0.10	mg/kg	SW846 7471A	12/26/01	EQWL01AV
		Dilution Factor: 1		Analysis Time..: 13:37	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 1355167	MDL.....: 0.020	

NOTE(S):

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

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: DP_9T_2_5_122001

TOTAL Metals

Lot-Sample #...: E1L200353-005 Matrix.....: SOLID
Date Sampled...: 12/20/01 12:40 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1355373						
Aluminum	**24900**	**20.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL21AA**
		Dilution Factor: 1		Analysis Time..: 12:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 8.0	
Arsenic	**3.6**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL21AC**
		Dilution Factor: 1		Analysis Time..: 12:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL21AD
		Dilution Factor: 1		Analysis Time..: 12:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.60	
Barium	**121**	**2.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL21AE**
		Dilution Factor: 1		Analysis Time..: 12:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWL21AF
		Dilution Factor: 1		Analysis Time..: 12:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.060	
Chromium	**27.5 J**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL21AG**
		Dilution Factor: 1		Analysis Time..: 12:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Beryllium	**0.78**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL21AH**
		Dilution Factor: 1		Analysis Time..: 12:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.050	
Lead	**5.9**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL21AJ**
		Dilution Factor: 1		Analysis Time..: 12:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWL21AK
		Dilution Factor: 1		Analysis Time..: 12:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: DP_9T_2_5_122001

TOTAL Metals

Lot-Sample #...: E1L200353-005 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL21AL
		Dilution Factor: 1		Analysis Time..: 12:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cobalt	11.5	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL21AM
		Dilution Factor: 1		Analysis Time..: 12:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Copper	18.8	2.5	mg/kg	SW846 6010B	12/21-12/26/01	EQWL21AN
		Dilution Factor: 1		Analysis Time..: 12:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Molybdenum	0.36 B	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL21AP
		Dilution Factor: 1		Analysis Time..: 12:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Nickel	17.0	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL21AQ
		Dilution Factor: 1		Analysis Time..: 12:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Thallium	1.1	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL21AR
		Dilution Factor: 1		Analysis Time..: 12:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.80	
Vanadium	57.5	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL21AT
		Dilution Factor: 1		Analysis Time..: 12:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Zinc	60.1	2.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL21AU
		Dilution Factor: 1		Analysis Time..: 12:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 1.0	
Prep Batch #...: 1355386						
Mercury	0.041 B	0.10	mg/kg	SW846 7471A	12/26/01	EQWL21AV
		Dilution Factor: 1		Analysis Time..: 13:43	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 1355167	MDL.....: 0.020	

NOTE(S):

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

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: DP_9T_2_10_122001

TOTAL Metals

Lot-Sample #...: E1L200353-006 **Matrix.....:** SOLID
Date Sampled...: 12/20/01 13:00 **Date Received..:** 12/20/01 17:45

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1355373						
Aluminum	**26100**	**20.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL41AC**
		Dilution Factor: 1		Analysis Time..: 13:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 8.0	
Arsenic	**4.0**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL41AD**
		Dilution Factor: 1		Analysis Time..: 13:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL41AE
		Dilution Factor: 1		Analysis Time..: 13:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.60	
Barium	**126**	**2.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL41AF**
		Dilution Factor: 1		Analysis Time..: 13:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWL41AG
		Dilution Factor: 1		Analysis Time..: 13:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.060	
Chromium	**31.7 J**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL41AH**
		Dilution Factor: 1		Analysis Time..: 13:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Beryllium	**0.84**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL41AJ**
		Dilution Factor: 1		Analysis Time..: 13:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.050	
Lead	**6.5**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL41AK**
		Dilution Factor: 1		Analysis Time..: 13:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWL41AL
		Dilution Factor: 1		Analysis Time..: 13:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: DP_9T_2_10_122001

TOTAL Metals

Lot-Sample #...: E1L200353-006 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL41AM
		Dilution Factor: 1		Analysis Time..: 13:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cobalt	14.1	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL41AN
		Dilution Factor: 1		Analysis Time..: 13:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Copper	29.5	2.5	mg/kg	SW846 6010B	12/21-12/26/01	EQWL41AP
		Dilution Factor: 1		Analysis Time..: 13:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Molybdenum	0.38 B	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL41AQ
		Dilution Factor: 1		Analysis Time..: 13:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Nickel	20.8	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL41AR
		Dilution Factor: 1		Analysis Time..: 13:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Thallium	1.3	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL41AT
		Dilution Factor: 1		Analysis Time..: 13:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.80	
Vanadium	67.4	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL41AU
		Dilution Factor: 1		Analysis Time..: 13:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Zinc	76.3	2.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL41AV
		Dilution Factor: 1		Analysis Time..: 13:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 1.0	

Prep Batch #...: 1355386

Mercury	0.036 B	0.10	mg/kg	SW846 7471A	12/26/01	EQWL41AW
		Dilution Factor: 1		Analysis Time..: 13:44	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 1355167	MDL.....: 0.020	

NOTE(S):

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

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: DP_9T_2_15_122001

TOTAL Metals

Lot-Sample #...: E1L200353-007 Matrix.....: SOLID
Date Sampled...: 12/20/01 13:10 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1355373						
Aluminum	**24600**	**20.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL61AC**
		Dilution Factor: 1		Analysis Time..: 13:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 8.0	
Arsenic	**4.1**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL61AD**
		Dilution Factor: 1		Analysis Time..: 13:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL61AE
		Dilution Factor: 1		Analysis Time..: 13:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.60	
Barium	**130**	**2.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL61AF**
		Dilution Factor: 1		Analysis Time..: 13:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWL61AG
		Dilution Factor: 1		Analysis Time..: 13:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.060	
Chromium	**33.3 J**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL61AH**
		Dilution Factor: 1		Analysis Time..: 13:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Beryllium	**0.77**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL61AJ**
		Dilution Factor: 1		Analysis Time..: 13:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.050	
Lead	**6.2**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL61AK**
		Dilution Factor: 1		Analysis Time..: 13:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWL61AL
		Dilution Factor: 1		Analysis Time..: 13:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: DP_9T_2_15_122001

TOTAL Metals

Lot-Sample #...: E1L200353-007 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL61AM
		Dilution Factor: 1		Analysis Time..: 13:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cobalt	11.4	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL61AN
		Dilution Factor: 1		Analysis Time..: 13:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Copper	44.8	2.5	mg/kg	SW846 6010B	12/21-12/26/01	EQWL61AP
		Dilution Factor: 1		Analysis Time..: 13:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Molybdenum	0.49 B	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL61AQ
		Dilution Factor: 1		Analysis Time..: 13:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Nickel	20.7	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL61AR
		Dilution Factor: 1		Analysis Time..: 13:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL61AT
		Dilution Factor: 1		Analysis Time..: 13:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.80	
Vanadium	62.9	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL61AU
		Dilution Factor: 1		Analysis Time..: 13:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Zinc	77.5	2.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL61AV
		Dilution Factor: 1		Analysis Time..: 13:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 1.0	

Prep Batch #...: 1355386

Mercury	0.044 B	0.10	mg/kg	SW846 7471A	12/26/01	EQWL61AW
		Dilution Factor: 1		Analysis Time..: 13:46	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 1355167	MDL.....: 0.020	

NOTE(S):

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

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: DP_9T_2_20_122001

TOTAL Metals

Lot-Sample #...: E1L200353-008 Matrix.....: SOLID
Date Sampled...: 12/20/01 13:20 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1355373						
Aluminum	**30600**	**20.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL71AA**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 8.0	
Arsenic	**5.2**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL71AC**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL71AD
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.60	
Barium	**221**	**2.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL71AE**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cadmium	**0.60**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL71AF**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.060	
Chromium	**37.5 J**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL71AG**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Beryllium	**1.1**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL71AH**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.050	
Lead	**10.2**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL71AJ**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWL71AK
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: DP_9T_2_20_122001

TOTAL Metals

Lot-Sample #...: E1L200353-008 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL71AL
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cobalt	15.9	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL71AM
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Copper	46.8	2.5	mg/kg	SW846 6010B	12/21-12/26/01	EQWL71AN
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Molybdenum	0.44 B	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL71AP
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Nickel	26.7	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL71AQ
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Thallium	1.2	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL71AR
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.80	
Vanadium	79.7	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL71AT
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Zinc	109	2.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL71AU
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 1.0	

Prep Batch #...: 1355386

Mercury	0.040 B	0.10	mg/kg	SW846 7471A	12/26/01	EQWL71AV
		Dilution Factor: 1		Analysis Time..: 13:48	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 1355167	MDL.....: 0.020	

NOTE(S):

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

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: DP_9T_3_5_122001

TOTAL Metals

Lot-Sample #...: E1L200353-009 Matrix.....: SOLID
Date Sampled...: 12/20/01 13:30 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1355373						
Aluminum	**7450**	**20.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL81AA**
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 8.0	
Arsenic	**3.7**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL81AC**
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL81AD
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.60	
Barium	**63.9**	**2.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL81AE**
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWL81AF
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.060	
Chromium	**9.8 J**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL81AG**
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Beryllium	**0.36 B**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL81AH**
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.050	
Lead	**4.2**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL81AJ**
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWL81AK
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: DP_9T_3_5_122001

TOTAL Metals

Lot-Sample #...: E1L200353-009 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL81AL
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cobalt	**4.8 B**	**5.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL81AM**
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Copper	**13.9**	**2.5**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL81AN**
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL81AP
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Nickel	**7.7**	**4.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL81AQ**
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL81AR
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.80	
Vanadium	**23.8**	**5.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL81AT**
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Zinc	**31.2**	**2.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL81AU**
		Dilution Factor: 1		Analysis Time..: 13:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 1.0	

Prep Batch #...: 1355386

Mercury	**0.038 B**	**0.10**	**mg/kg**	**SW846 7471A**	**12/26/01**	**EQWL81AV**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 1355167	MDL.....: 0.020	

NOTE(S):

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

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: DP_9T_3_10_122001

TOTAL Metals

Lot-Sample #...: E1L200353-010 Matrix.....: SOLID
Date Sampled...: 12/20/01 13:40 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1355373						
Aluminum	**29800**	**20.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL91AA**
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 8.0	
Arsenic	**5.4**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL91AC**
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL91AD
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.60	
Barium	**162**	**2.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL91AE**
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cadmium	**0.47 B**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL91AF**
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.060	
Chromium	**41.0 J**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL91AG**
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Beryllium	**1.0**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL91AH**
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.050	
Lead	**8.0**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWL91AJ**
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWL91AK
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: DP_9T_3_10_122001

TOTAL Metals

Lot-Sample #...: E1L200353-010 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL91AL
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cobalt	14.8	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL91AM
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Copper	43.8	2.5	mg/kg	SW846 6010B	12/21-12/26/01	EQWL91AN
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Molybdenum	0.56 B	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL91AP
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Nickel	28.2	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL91AQ
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Thallium	0.89 B	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL91AR
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.80	
Vanadium	80.6	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL91AT
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Zinc	91.6	2.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWL91AU
		Dilution Factor: 1		Analysis Time..: 13:39	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 1.0	

Prep Batch #...: 1355386

Mercury	0.047 B	0.10	mg/kg	SW846 7471A	12/26/01	EQWL91AV
		Dilution Factor: 1		Analysis Time..: 13:51	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 1355167	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

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

HALEY & ALDRICH INC

Client Sample ID: DP_9T_3_15_122001

TOTAL Metals

Lot-Sample #...: E1L200353-011 **Matrix.....:** SOLID
Date Sampled...: 12/20/01 13:50 **Date Received..:** 12/20/01 17:45

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1355373						
Aluminum	**19900**	**20.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWMA1AA**
		Dilution Factor: 1		Analysis Time..: 13:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 8.0	
Arsenic	**4.2**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWMA1AC**
		Dilution Factor: 1		Analysis Time..: 13:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWMA1AD
		Dilution Factor: 1		Analysis Time..: 13:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.60	
Barium	**124**	**2.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWMA1AE**
		Dilution Factor: 1		Analysis Time..: 13:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWMA1AF
		Dilution Factor: 1		Analysis Time..: 13:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.060	
Chromium	**28.3 J**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWMA1AG**
		Dilution Factor: 1		Analysis Time..: 13:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Beryllium	**0.72**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWMA1AH**
		Dilution Factor: 1		Analysis Time..: 13:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.050	
Lead	**5.2**	**0.50**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWMA1AJ**
		Dilution Factor: 1		Analysis Time..: 13:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWMA1AK
		Dilution Factor: 1		Analysis Time..: 13:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: DP_9T_3_15_122001

TOTAL Metals

Lot-Sample #...: E1L200353-011 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWMA1AL
		Dilution Factor: 1		Analysis Time..: 13:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cobalt	10.6	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWMA1AM
		Dilution Factor: 1		Analysis Time..: 13:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Copper	32.5	2.5	mg/kg	SW846 6010B	12/21-12/26/01	EQWMA1AN
		Dilution Factor: 1		Analysis Time..: 13:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Molybdenum	0.78 B	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWMA1AP
		Dilution Factor: 1		Analysis Time..: 13:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Nickel	20.3	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWMA1AQ
		Dilution Factor: 1		Analysis Time..: 13:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWMA1AR
		Dilution Factor: 1		Analysis Time..: 13:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.80	
Vanadium	58.0	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWMA1AT
		Dilution Factor: 1		Analysis Time..: 13:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Zinc	63.8	2.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWMA1AU
		Dilution Factor: 1		Analysis Time..: 13:47	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 1.0	

Prep Batch #...: 1355386

Mercury	0.037 B	0.10	mg/kg	SW846 7471A	12/26/01	EQWMA1AV
		Dilution Factor: 1		Analysis Time..: 13:53	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 1355167	MDL.....: 0.020	

NOTE(S):

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

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: DP_9T_3_20_122001

TOTAL Metals

Lot-Sample #...: E1L200353-012 Matrix.....: SOLID
Date Sampled...: 12/20/01 14:00 Date Received..: 12/20/01 17:45

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1355373						
Aluminum	17400	20.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWMC1AA
		Dilution Factor: 1		Analysis Time..: 14:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 8.0	
Arsenic	3.0	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWMC1AC
		Dilution Factor: 1		Analysis Time..: 14:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWMC1AD
		Dilution Factor: 1		Analysis Time..: 14:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.60	
Barium	93.1	2.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWMC1AE
		Dilution Factor: 1		Analysis Time..: 14:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cadmium	0.12 B	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWMC1AF
		Dilution Factor: 1		Analysis Time..: 14:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.060	
Chromium	21.3 J	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWMC1AG
		Dilution Factor: 1		Analysis Time..: 14:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Beryllium	0.71	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWMC1AH
		Dilution Factor: 1		Analysis Time..: 14:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.050	
Lead	4.3	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWMC1AJ
		Dilution Factor: 1		Analysis Time..: 14:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQWMC1AK
		Dilution Factor: 1		Analysis Time..: 14:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: DP_9T_3_20_122001

TOTAL Metals

Lot-Sample #...: E1L200353-012 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWMC1AL
		Dilution Factor: 1		Analysis Time..: 14:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Cobalt	**7.6**	**5.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWMC1AM**
		Dilution Factor: 1		Analysis Time..: 14:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Copper	**23.6**	**2.5**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWMC1AN**
		Dilution Factor: 1		Analysis Time..: 14:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.40	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWMC1AP
		Dilution Factor: 1		Analysis Time..: 14:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.30	
Nickel	**14.3**	**4.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWMC1AQ**
		Dilution Factor: 1		Analysis Time..: 14:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL. .....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQWMC1AR
		Dilution Factor: 1		Analysis Time..: 14:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.80	
Vanadium	**46.3**	**5.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWMC1AT**
		Dilution Factor: 1		Analysis Time..: 14:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 0.10	
Zinc	**59.0**	**2.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQWMC1AU**
		Dilution Factor: 1		Analysis Time..: 14:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1355165	MDL.....: 1.0	

Prep Batch #...: 1355386

Mercury	**0.067 B**	**0.10**	**mg/kg**	**SW846 7471A**	**12/26/01**	**EQWMC1AV**
		Dilution Factor: 1		Analysis Time..: 13:55	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 1355167	MDL.:.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

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

SEVERN
TRENT
SERVICES

QA/QC

000055

QC DATA ASSOCIATION SUMMARY

E1L200353

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 9045C		1355223	1355106
	SOLID	SW846 7471A		1355386	1355167
	SOLID	SW846 6010B		1355373	1355165
002	SOLID	SW846 9045C		1355223	1355106
	SOLID	SW846 7471A		1355386	1355167
	SOLID	SW846 6010B		1355373	1355165
003	SOLID	SW846 9045C		1355223	1355106
	SOLID	SW846 7471A		1355386	1355167
	SOLID	SW846 6010B		1355373	1355165
004	SOLID	SW846 9045C		1355223	1355106
	SOLID	SW846 7471A		1355386	1355167
	SOLID	SW846 6010B		1355373	1355165
005	SOLID	SW846 9045C		1355223	1355106
	SOLID	SW846 7471A		1355386	1355167
	SOLID	SW846 6010B		1355373	1355165
006	SOLID	SW846 9045C		1355223	1355106
	SOLID	SW846 7471A		1355386	1355167
	SOLID	SW846 8260B		1360257	1360133
	SOLID	SW846 6010B		1355373	1355165
007	SOLID	SW846 9045C		1355223	1355106
	SOLID	SW846 7471A		1355386	1355167
	SOLID	SW846 8260B		1360257	1360133
	SOLID	SW846 6010B		1355373	1355165
008	SOLID	SW846 9045C		1355223	1355106
	SOLID	SW846 7471A		1355386	1355167
	SOLID	SW846 6010B		1355373	1355165
009	SOLID	SW846 9045C		1355223	1355106
	SOLID	SW846 7471A		1355386	1355167
	SOLID	SW846 6010B		1355373	1355165
010	SOLID	SW846 9045C		1355223	1355106
	SOLID	SW846 7471A		1355386	1355167
	SOLID	SW846 6010B		1355373	1355165

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QC DATA ASSOCIATION SUMMARY

E1L200353

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
011	SOLID	SW846 9045C		1355223	1355106
	SOLID	SW846 7471A		1355386	1355167
	SOLID	SW846 6010B		1355373	1355165
012	SOLID	SW846 9045C		1355223	1355106
	SOLID	SW846 7471A		1355386	1355167
	SOLID	SW846 6010B		1355373	1355165

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1L200353
MB Lot-Sample #: E1L260000-257
Work Order #...: EQ2MA1AA
Matrix.....: SOLID
Prep Date.....: 12/21/01
Analysis Time..: 14:44
Analysis Date..: 12/21/01
Prep Batch #...: 1360257
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 #...: E1L200353 **Work Order #...:** EQ2MA1AA **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	81	(65 - 135)
1,2-Dichloroethane-d4	84	(60 - 140)
Toluene-d8	89	(70 - 130)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1L200353 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E1L210000-373 **Prep Batch #...:** 1355373						
Aluminum	ND	20.0	mg/kg	SW846 6010B	12/21-12/26/01	EQXPK1AA
		Dilution Factor: 1				
		Analysis Time..: 11:28		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQXPK1AC
		Dilution Factor: 1				
		Analysis Time..: 11:28		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	12/21-12/26/01	EQXPK1AD
		Dilution Factor: 1				
		Analysis Time..: 11:28		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	ND	2.0	mg/kg	SW846 6010B	12/21-12/26/01	EQXPK1AE
		Dilution Factor: 1				
		Analysis Time..: 11:28		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQXPK1AF
		Dilution Factor: 1				
		Analysis Time..: 11:28		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	**0.23 B**	**1.0**	**mg/kg**	**SW846 6010B**	**12/21-12/26/01**	**EQXPK1AG**
		Dilution Factor: 1				
		Analysis Time..: 11:28		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQXPK1AH
		Dilution Factor: 1				
		Analysis Time..: 11:28		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQXPK1AJ
		Dilution Factor: 1				
		Analysis Time..: 11:28		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	12/21-12/26/01	EQXPK1AK
		Dilution Factor: 1				
		Analysis Time..: 11:28		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQXPK1AL
		Dilution Factor: 1				
		Analysis Time..: 11:28		Analyst ID.....: 021088	Instrument ID..: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQXPK1AM
		Dilution Factor: 1				
		Analysis Time..: 11:28		Analyst ID.....: 021088	Instrument ID..: M01	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1L200353 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	2.5	mg/kg	SW846 6010B	12/21-12/26/01	EQXPK1AN
		Dilution Factor: 1				
		Analysis Time..: 11:28		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQXPK1AP
		Dilution Factor: 1				
		Analysis Time..: 11:28		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	12/21-12/26/01	EQXPK1AQ
		Dilution Factor: 1				
		Analysis Time..: 11:28		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	12/21-12/26/01	EQXPK1AR
		Dilution Factor: 1				
		Analysis Time..: 11:28		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	12/21-12/26/01	EQXPK1AT
		Dilution Factor: 1				
		Analysis Time..: 11:28		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	12/21-12/26/01	EQXPK1AU
		Dilution Factor: 1				
		Analysis Time..: 11:28		Analyst ID.....: 021088	Instrument ID..: M01	

MB Lot-Sample #: E1L210000-386 **Prep Batch #...:** 1355386

Mercury	ND	0.10	mg/kg	SW846 7471A	12/26/01	EQXP81AA
		Dilution Factor: 1				
		Analysis Time..: 13:25		Analyst ID.....: 000023	Instrument ID..: M04	

NOTE(S):

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

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1L200353 **Work Order #...:** EQ2MA1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1L260000-257
Prep Date.....: 12/21/01 **Analysis Date..:** 12/21/01
Prep Batch #...: 1360257 **Analysis Time..:** 14:14
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**59.1**	**ug/kg**	**118**	**SW846 8260B**
Benzene	**50.0**	**56.1**	**ug/kg**	**112**	**SW846 8260B**
Trichloroethene	**50.0**	**56.8**	**ug/kg**	**114**	**SW846 8260B**
Toluene	**50.0**	**56.4**	**ug/kg**	**113**	**SW846 8260B**
Chlorobenzene	**50.0**	**52.4**	**ug/kg**	**105**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(65 - 135)
1,2-Dichloroethane-d4	69	(60 - 140)
Toluene-d8	96	(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

General Chemistry

Client Lot #...: E1L200353 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)			Work Order #:	EQW7V1AA	LCS Lot-Sample#:	E1L210000-223	
	9.18	9.18	No Units	100	SW846 9045C	12/21/01	1355223

Dilution Factor: 1

Analysis Time..: 10:06 Analyst ID.....: 000022 Instrument ID..: W07

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1L200353 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1L210000-373 **Prep Batch #...:** 1355373							
Aluminum	200	181	mg/kg	91	SW846 6010B	12/21-12/26/01	EQXPK1AV
			Dilution Factor: 1				
			Analysis Time..: 11:34		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	200	187	mg/kg	93	SW846 6010B	12/21-12/26/01	EQXPK1AW
			Dilution Factor: 1				
			Analysis Time..: 11:34		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	50.0	47.1	mg/kg	94	SW846 6010B	12/21-12/26/01	EQXPK1AX
			Dilution Factor: 1				
			Analysis Time..: 11:34		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	200	197	mg/kg	99	SW846 6010B	12/21-12/26/01	EQXPK1A0
			Dilution Factor: 1				
			Analysis Time..: 11:34		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	5.00	4.92	mg/kg	98	SW846 6010B	12/21-12/26/01	EQXPK1A1
			Dilution Factor: 1				
			Analysis Time..: 11:34		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	20.0	20.2	mg/kg	101	SW846 6010B	12/21-12/26/01	EQXPK1A2
			Dilution Factor: 1				
			Analysis Time..: 11:34		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	5.00	5.08	mg/kg	102	SW846 6010B	12/21-12/26/01	EQXPK1A3
			Dilution Factor: 1				
			Analysis Time..: 11:34		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	50.0	46.9	mg/kg	94	SW846 6010B	12/21-12/26/01	EQXPK1A4
			Dilution Factor: 1				
			Analysis Time..: 11:34		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	200	176	mg/kg	88	SW846 6010B	12/21-12/26/01	EQXPK1A5
			Dilution Factor: 1				
			Analysis Time..: 11:34		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	5.00	4.67	mg/kg	93	SW846 6010B	12/21-12/26/01	EQXPK1A6
			Dilution Factor: 1				
			Analysis Time..: 11:34		Analyst ID.....: 021088	Instrument ID..: M01	

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1L200353 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	50.0	48.4	mg/kg	97	SW846 6010B	12/21-12/26/01	EQXPK1A7
			Dilution Factor: 1				
			Analysis Time..: 11:34		Analyst ID.....: 021088	Instrument ID..: M01	
Copper	25.0	24.2	mg/kg	97	SW846 6010B	12/21-12/26/01	EQXPK1A8
			Dilution Factor: 1				
			Analysis Time..: 11:34		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	100	97.4	mg/kg	97	SW846 6010B	12/21-12/26/01	EQXPK1A9
			Dilution Factor: 1				
			Analysis Time..: 11:34		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	50.0	49.0	mg/kg	98	SW846 6010B	12/21-12/26/01	EQXPK1CA
			Dilution Factor: 1				
			Analysis Time..: 11:34		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	200	190	mg/kg	95	SW846 6010B	12/21-12/26/01	EQXPK1CC
			Dilution Factor: 1				
			Analysis Time..: 11:34		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	50.0	49.9	mg/kg	100	SW846 6010B	12/21-12/26/01	EQXPK1CD
			Dilution Factor: 1				
			Analysis Time..: 11:34		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	50.0	49.6	mg/kg	99	SW846 6010B	12/21-12/26/01	EQXPK1CE
			Dilution Factor: 1				
			Analysis Time..: 11:34		Analyst ID.....: 021088	Instrument ID..: M01	

LCS Lot-Sample#: E1L210000-386 **Prep Batch #...:** 1355386

Mercury	0.833	0.765	mg/kg	92	SW846 7471A	12/26/01	EQXP81AC
			Dilution Factor: 1				
			Analysis Time..: 13:26		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 #...: E1L200353 **Work Order #...:** EQ2MA1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1L260000-257
Prep Date.....: 12/21/01 **Analysis Date..:** 12/21/01
Prep Batch #...: 1360257 **Analysis Time..:** 14:14
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**118**	**(65 - 150)**	**SW846 8260B**
Benzene	**112**	**(70 - 130)**	**SW846 8260B**
Trichloroethene	**114**	**(70 - 135)**	**SW846 8260B**
Toluene	**113**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**105**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(65 - 135)
1,2-Dichloroethane-d4	69	(60 - 140)
Toluene-d8	96	(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

General Chemistry

Client Lot #...: E1L200353 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)		Work Order #: EQW7V1AA	LCS Lot-Sample#: E1L210000-223		
	100	(90 - 110)	SW846 9045C	12/21/01	1355223

Dilution Factor: 1

Analysis Time..: 10:06 Analyst ID.....: 000022 Instrument ID..: W07

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1L200353 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1L210000-373 **Prep Batch #...:** 1355373					
Aluminum	91	(70 - 115)	SW846 6010B	12/21-12/26/01	EQXPK1AV
		Dilution Factor: 1			
		Analysis Time..: 11:34	Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	93	(75 - 115)	SW846 6010B	12/21-12/26/01	EQXPK1AW
		Dilution Factor: 1			
		Analysis Time..: 11:34	Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	94	(75 - 115)	SW846 6010B	12/21-12/26/01	EQXPK1AX
		Dilution Factor: 1			
		Analysis Time..: 11:34	Analyst ID.....: 021088	Instrument ID..: M01	
Barium	99	(80 - 120)	SW846 6010B	12/21-12/26/01	EQXPK1A0
		Dilution Factor: 1			
		Analysis Time..: 11:34	Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	98	(80 - 120)	SW846 6010B	12/21-12/26/01	EQXPK1A1
		Dilution Factor: 1			
		Analysis Time..: 11:34	Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	101	(85 - 120)	SW846 6010B	12/21-12/26/01	EQXPK1A2
		Dilution Factor: 1			
		Analysis Time..: 11:34	Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	102	(80 - 120)	SW846 6010B	12/21-12/26/01	EQXPK1A3
		Dilution Factor: 1			
		Analysis Time..: 11:34	Analyst ID.....: 021088	Instrument ID..: M01	
Lead	94	(80 - 120)	SW846 6010B	12/21-12/26/01	EQXPK1A4
		Dilution Factor: 1			
		Analysis Time..: 11:34	Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	88	(70 - 115)	SW846 6010B	12/21-12/26/01	EQXPK1A5
		Dilution Factor: 1			
		Analysis Time..: 11:34	Analyst ID.....: 021088	Instrument ID..: M01	
Silver	93	(80 - 120)	SW846 6010B	12/21-12/26/01	EQXPK1A6
		Dilution Factor: 1			
		Analysis Time..: 11:34	Analyst ID.....: 021088	Instrument ID..: M01	

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1L200353 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	97	(80 - 120)	SW846 6010B	12/21-12/26/01	EQXPK1A7
		Dilution Factor: 1			
		Analysis Time..: 11:34	Analyst ID.....: 021088	Instrument ID..: M01	
Copper	97	(80 - 120)	SW846 6010B	12/21-12/26/01	EQXPK1A8
		Dilution Factor: 1			
		Analysis Time..: 11:34	Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	97	(80 - 120)	SW846 6010B	12/21-12/26/01	EQXPK1A9
		Dilution Factor: 1			
		Analysis Time..: 11:34	Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	98	(80 - 120)	SW846 6010B	12/21-12/26/01	EQXPK1CA
		Dilution Factor: 1			
		Analysis Time..: 11:34	Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	95	(75 - 125)	SW846 6010B	12/21-12/26/01	EQXPK1CC
		Dilution Factor: 1			
		Analysis Time..: 11:34	Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	100	(80 - 120)	SW846 6010B	12/21-12/26/01	EQXPK1CD
		Dilution Factor: 1			
		Analysis Time..: 11:34	Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	99	(80 - 120)	SW846 6010B	12/21-12/26/01	EQXPK1CE
		Dilution Factor: 1			
		Analysis Time..: 11:34	Analyst ID.....: 021088	Instrument ID..: M01	

LCS Lot-Sample#: E1L210000-386 **Prep Batch #...:** 1355386

Mercury	92	(85 - 115)	SW846 7471A	12/26/01	EQXP81AC
		Dilution Factor: 1			
		Analysis Time..: 13:26	Analyst ID.....: 000023	Instrument ID..: M04	

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1L200353 **Matrix.....:** SOLID
Date Sampled...: 12/20/01 12:00 **Date Received..:** 12/20/01 17:45

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT		UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1L200353-001 **Prep Batch #...:** 1355373										
Aluminum										
	24600	200	31000	NC	mg/kg			SW846 6010B	12/21-12/26/01	EQWLH1A0
	24600	200	29800	NC	mg/kg			SW846 6010B	12/21-12/26/01	EQWLH1A1
			Dilution Factor: 1							
			Analysis Time..: 15:03			Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1355165							
Arsenic										
	6.2	200	208		mg/kg	101		SW846 6010B	12/21-12/26/01	EQWLH1A2
	6.2	200	200		mg/kg	97	4.2	SW846 6010B	12/21-12/26/01	EQWLH1A3
			Dilution Factor: 1							
			Analysis Time..: 15:03			Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1355165							
Antimony										
	ND	50.0	18.1	N	mg/kg	36		SW846 6010B	12/21-12/26/01	EQWLH1A4
	ND	50.0	18.2	N	mg/kg	36	0.75	SW846 6010B	12/21-12/26/01	EQWLH1A5
			Dilution Factor: 1							
			Analysis Time..: 15:03			Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1355165							
Barium										
	134	200	338		mg/kg	102		SW846 6010B	12/21-12/26/01	EQWLH1A6
	134	200	323		mg/kg	95	4.5	SW846 6010B	12/21-12/26/01	EQWLH1A7
			Dilution Factor: 1							
			Analysis Time..: 15:03			Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1355165							
Cadmium										
	0.30	5.00	5.53		mg/kg	105		SW846 6010B	12/21-12/26/01	EQWLH1A8
	0.30	5.00	5.50		mg/kg	104	0.59	SW846 6010B	12/21-12/26/01	EQWLH1A9
			Dilution Factor: 1							
			Analysis Time..: 15:03			Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1355165							
Chromium										
	30.1	20.0	53.5		mg/kg	117		SW846 6010B	12/21-12/26/01	EQWLH1CA
	30.1	20.0	52.2		mg/kg	110	2.4	SW846 6010B	12/21-12/26/01	EQWLH1CC
			Dilution Factor: 1							
			Analysis Time..: 15:03			Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1355165							

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1L200353 **Matrix.....:** SOLID
Date Sampled...: 12/20/01 12:00 **Date Received..:** 12/20/01 17:45

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium									
	0.93	5.00	6.04	mg/kg	102		SW846 6010B	12/21-12/26/01	EQWLH1CD
	0.93	5.00	5.97	mg/kg	101	1.1	SW846 6010B	12/21-12/26/01	EQWLH1CE
				Dilution Factor: 1					
				Analysis Time..: 15:03	Instrument ID..: M01			Analyst ID.....: 021088	
				MS Run #.....: 1355165					
Lead									
	6.9	50.0	55.4	mg/kg	97		SW846 6010B	12/21-12/26/01	EQWLH1CF
	6.9	50.0	53.8	mg/kg	94	2.9	SW846 6010B	12/21-12/26/01	EQWLH1CG
				Dilution Factor: 1					
				Analysis Time..: 15:03	Instrument ID..: M01			Analyst ID.....: 021088	
				MS Run #.....: 1355165					
Selenium									
	ND	200	185	mg/kg	93		SW846 6010B	12/21-12/26/01	EQWLH1CH
	ND	200	185	mg/kg	92	0.32	SW846 6010B	12/21-12/26/01	EQWLH1CJ
				Dilution Factor: 1					
				Analysis Time..: 15:03	Instrument ID..: M01			Analyst ID.....: 021088	
				MS Run #.....: 1355165					
Silver									
	ND	5.00	4.82	mg/kg	96		SW846 6010B	12/21-12/26/01	EQWLH1CK
	ND	5.00	4.73	mg/kg	95	1.9	SW846 6010B	12/21-12/26/01	EQWLH1CL
				Dilution Factor: 1					
				Analysis Time..: 15:03	Instrument ID..: M01			Analyst ID.....: 021088	
				MS Run #.....: 1355165					
Cobalt									
	11.9	50.0	63.2	mg/kg	103		SW846 6010B	12/21-12/26/01	EQWLH1CM
	11.9	50.0	60.0	mg/kg	96	5.2	SW846 6010B	12/21-12/26/01	EQWLH1CN
				Dilution Factor: 1					
				Analysis Time..: 15:03	Instrument ID..: M01			Analyst ID.....: 021088	
				MS Run #.....: 1355165					
Copper									
	19.1	25.0	45.3	mg/kg	105		SW846 6010B	12/21-12/26/01	EQWLH1CP
	19.1	25.0	44.1	mg/kg	100	2.8	SW846 6010B	12/21-12/26/01	EQWLH1CQ
				Dilution Factor: 1					
				Analysis Time..: 15:03	Instrument ID..: M01			Analyst ID.....: 021088	
				MS Run #.....: 1355165					

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1L200353 **Matrix.....:** SOLID
Date Sampled...: 12/20/01 12:00 **Date Received..:** 12/20/01 17:45

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum									
	0.31	100	96.4	mg/kg	96		SW846 6010B	12/21-12/26/01	EQWLH1CR
	0.31	100	95.8	mg/kg	96	0.60	SW846 6010B	12/21-12/26/01	EQWLH1CT
				Dilution Factor: 1					
				Analysis Time..: 15:03		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1355165					
Nickel									
	16.0	50.0	66.8	mg/kg	102		SW846 6010B	12/21-12/26/01	EQWLH1CU
	16.0	50.0	65.2	mg/kg	98	2.4	SW846 6010B	12/21-12/26/01	EQWLH1CV
				Dilution Factor: 1					
				Analysis Time..: 15:03		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1355165					
Thallium									
	ND	200	199	mg/kg	100		SW846 6010B	12/21-12/26/01	EQWLH1CW
	ND	200	198	mg/kg	99	0.46	SW846 6010B	12/21-12/26/01	EQWLH1CX
				Dilution Factor: 1					
				Analysis Time..: 15:03		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1355165					
Vanadium									
	56.9	50.0	114	mg/kg	114		SW846 6010B	12/21-12/26/01	EQWLH1C0
	56.9	50.0	110	mg/kg	106	3.8	SW846 6010B	12/21-12/26/01	EQWLH1C1
				Dilution Factor: 1					
				Analysis Time..: 15:03		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1355165					
Zinc									
	64.6	50.0	121	mg/kg	113		SW846 6010B	12/21-12/26/01	EQWLH1C2
	64.6	50.0	120	mg/kg	111	0.71	SW846 6010B	12/21-12/26/01	EQWLH1C3
				Dilution Factor: 1					
				Analysis Time..: 15:03		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1355165					

MS Lot-Sample #: E1L200353-001 **Prep Batch #...:** 1355386

Mercury									
	0.062	0.167	0.225	mg/kg	97		SW846 7471A	12/26/01	EQWLH1C4
	0.062	0.167	0.228	mg/kg	99	1.5	SW846 7471A	12/26/01	EQWLH1C5
				Dilution Factor: 1					
				Analysis Time..: 13:30		Instrument ID..: M04		Analyst ID.....: 000023	
				MS Run #.....: 1355167					

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

GC/MS Volatiles

Client Lot #...:	E1L200353	**Work Order #...:**	EQWL41A0-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1L200353-006		EQWL41A1-MSD		
Date Sampled...:	12/20/01 13:00	**Date Received..:**	12/20/01 17:45	**MS Run #.....:**	1360133
Prep Date.....:	12/21/01	**Analysis Date..:**	12/21/01		
Prep Batch #...:	1360257	**Analysis Time..:**	20:19		
Dilution Factor:	1	**Analyst ID.....:**	999998	**Instrument ID..:**	MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**50.0**	**34.3**	**ug/kg**	**69**		**SW846 8260B**
	ND	**50.0**	**40.5**	**ug/kg**	**81**	**17**	**SW846 8260B**
Benzene	**ND**	**50.0**	**34.0**	**ug/kg**	**68**		**SW846 8260B**
	Qualifiers: a,MSC						
	ND	**50.0**	**40.7**	**ug/kg**	**81**	**18**	**SW846 8260B**
Trichloroethene	**ND**	**50.0**	**33.8**	**ug/kg**	**68**		**SW846 8260B**
	Qualifiers: a,MSC						
	ND	**50.0**	**41.2**	**ug/kg**	**82**	**20**	**SW846 8260B**
Toluene	**ND**	**50.0**	**30.4**	**ug/kg**	**61**		**SW846 8260B**
	Qualifiers: a,MSC						
	ND	**50.0**	**36.4**	**ug/kg**	**73**	**18**	**SW846 8260B**
Chlorobenzene	**ND**	**50.0**	**29.2**	**ug/kg**	**58**		**SW846 8260B**
	Qualifiers: a,MSC						
	ND	**50.0**	**35.7**	**ug/kg**	**71**	**20**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	81	(65 - 135)
	81	(65 - 135)
1,2-Dichloroethane-d4	96	(60 - 140)
	97	(60 - 140)
Toluene-d8	85	(70 - 130)
	85	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

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

TOTAL Metals

Client Lot #...: E1L200353 **Matrix.....:** SOLID
Date Sampled...: 12/20/01 12:00 **Date Received..:** 12/20/01 17:45

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1L200353-001 **Prep Batch #...:** 1355373							
Aluminum	NC	(70 - 115)			SW846 6010B	12/21-12/26/01	EQWLH1A0
	NC	(70 - 115)		(0-25)	SW846 6010B	12/21-12/26/01	EQWLH1A1
		Dilution Factor: 1					
		Analysis Time..: 15:03			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1355165					
Arsenic	101	(75 - 115)			SW846 6010B	12/21-12/26/01	EQWLH1A2
	97	(75 - 115)	4.2	(0-25)	SW846 6010B	12/21-12/26/01	EQWLH1A3
		Dilution Factor: 1					
		Analysis Time..: 15:03			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1355165					
Antimony	36 N	(75 - 115)			SW846 6010B	12/21-12/26/01	EQWLH1A4
	36 N	(75 - 115)	0.75	(0-25)	SW846 6010B	12/21-12/26/01	EQWLH1A5
		Dilution Factor: 1					
		Analysis Time..: 15:03			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1355165					
Barium	102	(80 - 120)			SW846 6010B	12/21-12/26/01	EQWLH1A6
	95	(80 - 120)	4.5	(0-25)	SW846 6010B	12/21-12/26/01	EQWLH1A7
		Dilution Factor: 1					
		Analysis Time..: 15:03			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1355165					
Cadmium	105	(80 - 120)			SW846 6010B	12/21-12/26/01	EQWLH1A8
	104	(80 - 120)	0.59	(0-25)	SW846 6010B	12/21-12/26/01	EQWLH1A9
		Dilution Factor: 1					
		Analysis Time..: 15:03			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1355165					
Chromium	117	(85 - 120)			SW846 6010B	12/21-12/26/01	EQWLH1CA
	110	(85 - 120)	2.4	(0-25)	SW846 6010B	12/21-12/26/01	EQWLH1CC
		Dilution Factor: 1					
		Analysis Time..: 15:03			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1355165					
Beryllium	102	(80 - 120)			SW846 6010B	12/21-12/26/01	EQWLH1CD
	101	(80 - 120)	1.1	(0-25)	SW846 6010B	12/21-12/26/01	EQWLH1CE
		Dilution Factor: 1					
		Analysis Time..: 15:03			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1355165					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1L200353 **Matrix.....:** SOLID
Date Sampled...: 12/20/01 12:00 **Date Received..:** 12/20/01 17:45

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	97	(80 - 120)			SW846 6010B	12/21-12/26/01	EQWLH1CF
	94	(80 - 120)	2.9	(0-25)	SW846 6010B	12/21-12/26/01	EQWLH1CG
		Dilution Factor: 1					
		Analysis Time..: 15:03			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1355165					
Selenium	93	(70 - 115)			SW846 6010B	12/21-12/26/01	EQWLH1CH
	92	(70 - 115)	0.32	(0-25)	SW846 6010B	12/21-12/26/01	EQWLH1CJ
		Dilution Factor: 1					
		Analysis Time..: 15:03			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1355165					
Silver	96	(80 - 120)			SW846 6010B	12/21-12/26/01	EQWLH1CK
	95	(80 - 120)	1.9	(0-25)	SW846 6010B	12/21-12/26/01	EQWLH1CL
		Dilution Factor: 1					
		Analysis Time..: 15:03			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1355165					
Cobalt	103	(80 - 120)			SW846 6010B	12/21-12/26/01	EQWLH1CM
	96	(80 - 120)	5.2	(0-25)	SW846 6010B	12/21-12/26/01	EQWLH1CN
		Dilution Factor: 1					
		Analysis Time..: 15:03			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1355165					
Copper	105	(80 - 120)			SW846 6010B	12/21-12/26/01	EQWLH1CP
	100	(80 - 120)	2.8	(0-25)	SW846 6010B	12/21-12/26/01	EQWLH1CQ
		Dilution Factor: 1					
		Analysis Time..: 15:03			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1355165					
Molybdenum	96	(80 - 120)			SW846 6010B	12/21-12/26/01	EQWLH1CR
	96	(80 - 120)	0.60	(0-25)	SW846 6010B	12/21-12/26/01	EQWLH1CT
		Dilution Factor: 1					
		Analysis Time..: 15:03			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1355165					
Nickel	102	(80 - 120)			SW846 6010B	12/21-12/26/01	EQWLH1CU
	98	(80 - 120)	2.4	(0-25)	SW846 6010B	12/21-12/26/01	EQWLH1CV
		Dilution Factor: 1					
		Analysis Time..: 15:03			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1355165					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1L200353 **Matrix.....:** SOLID
Date Sampled...: 12/20/01 12:00 **Date Received..:** 12/20/01 17:45

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	100	(75 - 125)			SW846 6010B	12/21-12/26/01	EQWLH1CW
	99	(75 - 125)	0.46	(0-25)	SW846 6010B	12/21-12/26/01	EQWLH1CX

Dilution Factor: 1
Analysis Time..: 15:03 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 1355165

Vanadium	114	(80 - 120)			SW846 6010B	12/21-12/26/01	EQWLH1C0
	106	(80 - 120)	3.8	(0-25)	SW846 6010B	12/21-12/26/01	EQWLH1C1

Dilution Factor: 1
Analysis Time..: 15:03 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 1355165

Zinc	113	(80 - 120)			SW846 6010B	12/21-12/26/01	EQWLH1C2
	111	(80 - 120)	0.71	(0-25)	SW846 6010B	12/21-12/26/01	EQWLH1C3

Dilution Factor: 1
Analysis Time..: 15:03 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 1355165

MS Lot-Sample #: E1L200353-001 **Prep Batch #...:** 1355386

Mercury	97	(80 - 120)			SW846 7471A	12/26/01	EQWLH1C4
	99	(80 - 120)	1.5	(0-20)	SW846 7471A	12/26/01	EQWLH1C5

Dilution Factor: 1
Analysis Time..: 13:30 Instrument ID..: M04 Analyst ID.....: 000023
MS Run #.....: 1355167

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 EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E1L200353	Work Order #...:	EQWL41A0-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1L200353-006		EQWL41A1-MSD		
Date Sampled...:	12/20/01 13:00	Date Received..:	12/20/01 17:45	MS Run #.....:	1360133
Prep Date.....:	12/21/01	Analysis Date..:	12/21/01		
Prep Batch #...:	1360257	Analysis Time..:	20:19		
Dilution Factor:	1	Analyst ID.....:	999998	Instrument ID..:	MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**69**	**(65 - 150)**			**SW846 8260B**
	81	**(65 - 150)**	**17**	**(0-30)**	**SW846 8260B**
Benzene	**68 a,MSC**	**(70 - 130)**			**SW846 8260B**
	81	**(70 - 130)**	**18**	**(0-30)**	**SW846 8260B**
Trichloroethene	**68 a,MSC**	**(70 - 135)**			**SW846 8260B**
	82	**(70 - 135)**	**20**	**(0-30)**	**SW846 8260B**
Toluene	**61 a,MSC**	**(70 - 130)**			**SW846 8260B**
	73	**(70 - 130)**	**18**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**58 a,MSC**	**(70 - 130)**			**SW846 8260B**
	71	**(70 - 130)**	**20**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	81	(65 - 135)
	81	(65 - 135)
1,2-Dichloroethane-d4	96	(60 - 140)
	97	(60 - 140)
Toluene-d8	85	(70 - 130)
	85	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

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.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: E1L200353 **Work Order #...:** EQWLH-SMP EQWLH-DUP **Matrix.....:** SOLID

Date Sampled...: 12/20/01 12:00 **Date Received..:** 12/20/01 17:45

% Moisture.....: **Dilution Factor:** **Initial Wgt/Vol:**

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)						SD Lot-Sample #:	E1L200353-001	
	7.2	7.2	No Units	0.28	(0-0.0)	SW846 9045C	12/21/01	1355223

Dilution Factor: 1 Analysis Time..: 10:08 Analyst ID.....: 000022

Instrument ID..: W07 MS Run Number..: 1355106

SEVERN
TRENT
SERVICES

STL LA Raw Data

000079

~~000078~~ ccb

SEVERN
TRENT
SERVICES

8260B Extended Raw Data

Lot ID: EIL200353

I certify that, to the best of my knowledge, the attached package is a complete and accurate representation of the original data.

Signature / Date: Andy Kent 12/27/07

SEVERN
TRENT
SERVICES

8260B Initial Calibration

STL Los Angeles

PN 12/3/01

Batch ID: _____

GC/MS VOA Run Log

☐ EPA 524.2 ☐ EPA 624 ☑ SW8260B [SOP: CORP-MS-0002 Rev 2] ☐ 5030B ☐ 5035

Inst ID: MSD | EM Set: 1694 | Tune File: BFB | Seq File: 1129AD1

Init. Cal ID: 8260BDA 11-29-01 | Date: 11-29-01

Inj. Time	Analyst	File ID	Work Order #	AS #	Matrix	Sample Wt/Vol	Dil.	I.S.	Run	Rerun	pH	Comments
7:40	GFB	DT2199	BFB Tune 50ng	—	—	1ul	—	59	N	176 Low		1680-2
8:04		DT2200	BFB Tune 50ng	—	—	1ul	—	69	✓			1680-2
8:13		DS3373	50ppb 8260B STD	1	S	5g	1	179	N	Vinyl Chloride High		1728-1; 24-1; 20-2
8:46		DT2201	BFB Tune 50ng	—	—	1ul	—	62	✓			1680-2
8:58		DS3374	50ppb 8260B STD	1	S	5g	1	178	—	Vinyl Chloride High		1728-1; 24-1; 20-2
9:56		75	50ppb 8260B STD	1				181	✓			↓
10:54		76	20	2				192	✓			21-2
11:24		77	5	3				170	✓			↓
11:55		78	100	4				160	✓			20-2
12:25		79	400	5				147	✓			↓
13:58	↓	D20033	Second Source	1	↓	↓	↓	148	✓			1729-2; 24-1 ↓

000085

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 29-NOV-2001 09:56
End Cal Date : 29-NOV-2001 12:25
Quant Method : ISTD
Origin : Disabled
Target Version : 4.00
Integrator : HP RTE
Method file : \\ANAP1060\D\chem\md.i\1129AD1.B\8260BDA.M
Cal Date : 29-Nov-2001 18:53 beckmang
Curve Type : Average

Calibration File Names:
Level 1: \\ANAP1060\D\chem\md.i\1129AD1.B\DS3377.D
Level 2: \\ANAP1060\D\chem\md.i\1129AD1.B\DS3376.D
Level 3: \\ANAP1060\D\chem\md.i\1129AD1.B\DS3375.D
Level 4: \\ANAP1060\D\chem\md.i\1129AD1.B\DS3378.D
Level 5: \\ANAP1060\D\chem\md.i\1129AD1.B\DS3379.D

Compound	5.000 Level 1	20.000 Level 2	50.000 Level 3	100.000 Level 4	400.000 Level 5	RRF	% RSD	
1 Dichlorodifluoromethane	0.48506	0.44300	0.44081	0.42441	0.41302	0.44126	6.210	
2 Vinyl chloride (*)	0.32253	0.30581	0.29483	0.29934	0.28836	0.30218	4.315	
3 Chloromethane (**)	0.21680	0.16970	0.17421	0.20107	0.23432	0.19922	13.840	
4 Bromomethane	0.01124	0.04184	0.06855	0.08687	0.10107	0.06191	58.069	<-
5 Chloroethane	0.21046	0.19571	0.18808	0.14913	0.07526	0.16373	33.229	<-
6 Trichlorofluoromethane	0.73518	0.63992	0.62202	0.60216	0.34683	0.58922	24.575	
7 Acrolein	0.00496	0.00564	0.00592	0.00577	0.00572	0.00560	6.690	
8 1,1-Dichloroethene(*)	0.33512	0.30114	0.29793	0.26880	0.24580	0.28976	11.736	
9 1,1,2-Trichlorotrifluoroethan	0.44802	0.41151	0.38419	0.36605	0.31988	0.38593	12.474	
10 Acetone	0.07472	0.05732	0.05544	0.05276	0.04911	0.05787	17.126	
11 Iodomethane	0.09003	0.10812	0.12430	0.18152	0.14017	0.12883	27.056	
12 Carbon disulfide	0.84732	0.78003	0.74670	0.71850	0.67809	0.75413	8.507	
13 Methylene chloride	0.39712	0.31786	0.30521	0.30393	0.29571	0.32397	12.857	
14 t-Butanol	0.04774	0.04060	0.03994	0.03789	0.03386	0.04001	12.654	
15 trans-1,2-Dichloroethene	0.40266	0.37140	0.33938	0.32521	0.29626	0.34698	11.883	
16 Acrylonitrile	0.04522	0.04151	0.04019	0.03802	0.03668	0.04032	8.226	
17 Methyl-tert-butyl ether[MTBE]	1.01248	0.84236	0.84185	0.79680	0.72869	0.84444	12.409	
18 1,1-Dichloroethane (**)	0.71827	0.66140	0.61573	0.60542	0.56919	0.63400	9.062	
19 Vinyl acetate	0.97452	0.84759	0.80763	0.78343	0.69391	0.82142	12.477	
20 Isopropyl ether	1.51312	1.33701	1.31421	1.24784	1.11357	1.30515	11.126	
21 2,2-Dichloropropane	0.72998	0.66731	0.64622	0.60710	0.58039	0.64620	8.932	
22 Tert-butyl ethyl ether	1.28682	1.17305	1.17260	1.10265	1.05917	1.15886	7.456	
23 cis-1,2-Dichloroethene	0.43812	0.40350	0.38620	0.37573	0.34256	0.38922	9.050	
24 2-Butanone	0.17586	0.13343	0.13214	0.12764	0.12201	0.13822	15.566	
25 Bromochloromethane	0.21385	0.19920	0.19137	0.17848	0.17326	0.19123	8.516	
26 Chloroform (*)	0.83739	0.74888	0.72358	0.68809	0.63346	0.72628	10.427	

GFB 11/30/01
PM 12/3/01

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 29-NOV-2001 09:56
End Cal Date : 29-NOV-2001 12:25
Quant Method : ISTD
Origin : Disabled
Target Version : 4.00
Integrator : HP RTE
Method file : \\ANAP1060\D\chem\md.i\1129AD1.B\8260BDA.M
Cal Date : 29-Nov-2001 18:53 beckmang
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	50.000 Level 3	100.000 Level 4	400.000 Level 5	RRF	% RSD	
	27 Tetrahydrofuran	0.13351	0.10705	0.10714	0.08843	0.08620	0.10447	18.213	
M	28 1,2-Dichloroethene (total)	0.42039	0.38745	0.36279	0.35047	0.31941	0.36810	10.361	
	30 1,1,1-Trichloroethane	0.75822	0.70323	0.67251	0.65719	0.58906	0.67604	9.186	
	31 Carbon Tetrachloride	0.63978	0.56164	0.55760	0.53382	0.47358	0.55328	10.807	
	32 1,1-Dichloropropene	0.69555	0.64717	0.59208	0.56973	0.49172	0.59925	12.941	
	34 1,2-Dichloroethane-d4 2nd	0.09072	0.10007	0.08974	0.08557	0.08237	0.08969	7.468	
	35 Benzene	1.25013	1.14219	1.08969	1.04199	0.94337	1.09347	10.438	
	36 1,2-Dichloroethane	0.50336	0.44890	0.41914	0.40227	0.37525	0.42978	11.412	
	37 Tert-amyl methyl ether	1.27808	1.08438	1.06117	0.98537	0.89187	1.06017	13.505	
	39 Trichloroethene	0.51794	0.47672	0.45309	0.43533	0.39863	0.45634	9.795	
	40 1,2-Dichloropropane(*)	0.55960	0.48335	0.47361	0.46468	0.43707	0.48366	9.474	
	41 Dibromomethane	0.35176	0.32663	0.32008	0.30567	0.27626	0.31608	8.799	
	42 Bromodichloromethane	0.73244	0.68166	0.68413	0.64771	0.60503	0.67019	7.059	
	43 1-Bromo-2-chloroethane	1.31337	1.14567	1.10505	1.08019	0.97916	1.12469	10.852	
	44 2-Chloroethylvinyl ether	0.12508	0.05955	0.05896	0.05451	0.05028	0.06968	44.775	<-
	45 cis-1,3-Dichloropropene	0.75815	0.69536	0.68618	0.64709	0.59905	0.67717	8.730	
	46 4-Methyl-2-pentanone	0.47015	0.37989	0.37458	0.35533	0.29233	0.37446	17.046	
	48 Toluene (*)	1.92430	1.86178	1.61520	1.54558	1.31012	1.65140	15.069	
	49 trans-1,3-Dichloropropene	0.76357	0.79704	0.73757	0.69298	0.65368	0.72897	7.781	
	50 1,1,2-Trichloroethane	0.57739	0.54920	0.48488	0.44317	0.36522	0.48397	17.517	
	51 Tetrachloroethene	0.61810	0.58421	0.50438	0.47014	0.37682	0.51073	18.716	
	52 1,3-Dichloropropane	0.98811	0.92290	0.82891	0.78297	0.70271	0.84512	13.348	
	53 2-Hexanone	0.41581	0.36398	0.33226	0.32894	0.28448	0.34510	14.090	
	54 Dibromochloromethane	0.66694	0.71483	0.66079	0.64072	0.54806	0.64627	9.480	
	55 1,2-Dibromoethane	0.71016	0.68571	0.61804	0.59799	0.52275	0.62693	11.870	
	57 Chlorobenzene (**)	1.36848	1.21939	1.15736	1.09527	0.95569	1.15924	13.148	
	58 1,1,1,2-Tetrachloroethane	0.62860	0.58372	0.55871	0.53414	0.43565	0.54817	13.124	
	59 Ethylbenzene (*)	0.73452	0.63997	0.59421	0.55542	0.45029	0.59488	17.629	
	60 m,p-Xylenes	0.89777	0.76982	0.71407	0.66937	0.52726	0.71566	18.971	
	61 o-Xylene	0.83778	0.78341	0.72646	0.69283	0.58466	0.72503	13.241	
	62 Styrene	1.37738	1.25227	1.17874	1.14333	0.93506	1.17736	13.793	
M	63 Xylenes (total)	0.87777	0.77435	0.71820	0.67719	0.54639	0.71878	17.013	
	64 Bromoform (**)	0.48155	0.47280	0.48223	0.48228	0.42232	0.46823	5.548	

STL Los Angeles

INITIAL CALIBRATION DATA

Start Cal Date : 29-NOV-2001 09:56
End Cal Date : 29-NOV-2001 12:25
Quant Method : ISTD
Origin : Disabled
Target Version : 4.00
Integrator : HP RTE
Method file : \\ANAP1060\D\chem\md.i\1129AD1.B\8260BDA.M
Cal Date : 29-Nov-2001 18:53 beckmang
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	50.000 Level 3	100.000 Level 4	400.000 Level 5	___ RRF	% RSD
65 Isopropylbenzene	2.59054	2.38175	2.18708	2.12277	1.69051	2.19453	15.303
66 4-Bromofluorobenzene-2nd	1.07772	1.02946	0.83637	0.89756	0.88058	0.94434	10.973
68 Bromobenzene	1.13037	1.04931	0.97695	0.98244	0.93681	1.01518	7.487
69 1,1,2,2-Tetrachloroethane(**)	1.59002	1.43192	1.39593	1.37568	1.27824	1.41436	8.025
70 1,2,3-Trichloropropane	0.41641	0.38556	0.37458	0.35596	0.31977	0.37046	9.673
71 n-Propylbenzene	5.26532	4.60371	4.15531	4.27198	3.68414	4.39609	13.356
72 2-Chlorotoluene	1.03121	0.95727	0.88215	0.87350	0.79613	0.90805	9.847
73 4-Chlorotoluene	1.02910	0.89547	0.84950	0.82337	0.72017	0.86352	13.050
74 1,3,5-Trimethylbenzene	3.74261	3.35497	3.02321	3.02086	2.69009	3.16635	12.595
75 tert-Butylbenzene	3.60092	3.42979	3.20166	3.16130	2.88475	3.25568	8.397
76 1,2,4-Trimethylbenzene	3.70850	3.21395	3.00009	3.03544	2.76670	3.14494	11.224
77 sec-Butylbenzene	5.45624	4.72539	4.47434	4.37187	3.96329	4.59823	12.021
78 1,3-Dichlorobenzene	2.08828	1.84838	1.73936	1.68169	1.45860	1.76326	13.085
80 1,4-Dichlorobenzene	2.18504	1.85926	1.74972	1.68805	1.51306	1.79903	13.873
81 p-Isopropyltoluene	4.15108	3.74507	3.42698	3.33896	2.79892	3.49220	14.364
82 1,2-Dichlorobenzene	1.93762	1.74652	1.58751	1.52943	1.31427	1.62307	14.435
83 n-Butylbenzene	4.30806	3.94354	3.66767	3.67119	3.26729	3.77155	10.205
84 1,2-Dibromo-3-chloropropane	0.30819	0.33445	0.34923	0.36068	0.39226	0.34896	8.931
85 1,2,4-Trichlorobenzene	1.58781	1.46903	1.40094	1.32736	1.26700	1.41043	8.860
86 Hexachlorobutadiene	1.05455	0.94292	0.87942	0.87139	0.79547	0.90875	10.657
87 Naphthalene	3.12230	2.62816	2.46934	2.41855	2.26490	2.58065	12.764
88 1,2,3-Trichlorobenzene	1.42761	1.25459	1.18083	1.10421	1.03306	1.20006	12.651
$ 29 Dibromofluoromethane	0.57483	0.52343	0.42628	0.44539	0.46111	0.48621	12.648
$ 33 1,2-Dichloroethane-d4	0.41288	0.39256	0.33122	0.35268	0.34039	0.36595	9.609
$ 47 Toluene-d8	1.43129	1.46049	1.11386	1.12663	0.99423	1.22530	16.987
$ 67 4-Bromofluorobenzene	1.73386	1.63215	1.33967	1.43968	1.42866	1.51481	10.721

Data File: \\ANAP1060\D\chem\md.i\1129AD1.B/DS3379.D
Report Date: 11/29/2001

INITIAL CALIBRATION REPORT

Instrument ID: md.i
Lab File ID: DS3379.D
Analysis Type: SOIL

Injection Date: 29-NOV-2001 12:25
Lab Sample ID: 400ppb 8260B STD
Method File: \\ANAP1060\D\chem\md.i\1129AD1.B\8260BDA

COMPOUND	%RSD
Dichlorodifluoromethane	6.2
Chloromethane (**)	13.8
Vinyl chloride (*)	4.3
Bromomethane	58.1
Chloroethane	33.2
Trichlorofluoromethane	24.6
1,1,2-Trichlorotrifluoroethan	12.5
1,1-Dichloroethene(*)	11.7
Acrolein	6.7
Carbon disulfide	8.5
Acetone	17.1
Iodomethane	27.1
Methylene chloride	12.9
trans-1,2-Dichloroethene	11.9
Methyl-tert-butyl ether[MTBE]	12.4
t-Butanol	12.7
Acrylonitrile	8.2
1,1-Dichloroethane (**)	9.1
Isopropyl ether	11.1
Vinyl acetate	12.5
1,2-Dichloroethene (total)	10.4
Tert-butyl ethyl ether	7.5
2,2-Dichloropropane	8.9
cis-1,2-Dichloroethene	9.0
2-Butanone	15.6
Bromochloromethane	8.5
Tetrahydrofuran	18.2
Chloroform (*)	10.4
1,1,1-Trichloroethane	9.2
Dibromofluoromethane	12.6
Carbon Tetrachloride	10.8
1,1-Dichloropropene	12.9
Benzene	10.4
1,2-Dichloroethane-d4 2nd	7.5
1,2-Dichloroethane-d4	9.6
1,2-Dichloroethane	11.4
Tert-amyl methyl ether	13.5
Trichloroethene	9.8
1,2-Dichloropropane(*)	9.5

Data File: \\ANAP1060\D\chem\md.i\1129AD1.B/DS3379.D
Report Date: 11/29/2001

INITIAL CALIBRATION REPORT

Instrument ID: md.i
Lab File ID: DS3379.D
Analysis Type: SOIL

Injection Date: 29-NOV-2001 12:25
Lab Sample ID: 400ppb 8260B STD
Method File: \\ANAP1060\D\chem\md.i\1129AD1.B\

COMPOUND	%RSD
Dibromomethane	8.8
Bromodichloromethane	7.1
1-Bromo-2-chloroethane	10.9
2-Chloroethylvinyl ether	44.8
cis-1,3-Dichloropropene	8.7
4-Methyl-2-pentanone	17.0
Toluene-d8	17.0
Toluene (*)	15.1
trans-1,3-Dichloropropene	7.8
1,1,2-Trichloroethane	17.5
Tetrachloroethene	18.7
1,3-Dichloropropane	13.3
2-Hexanone	14.1
Dibromochloromethane	9.5
1,2-Dibromoethane	11.9
Chlorobenzene (**)	13.1
Xylenes (total)	17.0
Ethylbenzene (*)	17.6
1,1,1,2-Tetrachloroethane	13.1
m,p-Xylenes	19.0
o-Xylene	13.2
Styrene	13.8
Bromoform (**)	5.5
Isopropylbenzene	15.3
4-Bromofluorobenzene-2nd	11.0
4-Bromofluorobenzene	10.7
Bromobenzene	7.5
1,1,2,2-Tetrachloroethane(**)	8.0
n-Propylbenzene	13.4
1,2,3-Trichloropropane	9.7
2-Chlorotoluene	9.8
1,3,5-Trimethylbenzene	12.6
4-Chlorotoluene	13.1
tert-Butylbenzene	8.4
1,2,4-Trimethylbenzene	11.2
sec-Butylbenzene	12.0
1,3-Dichlorobenzene	13.1
p-Isopropyltoluene	14.4
1,4-Dichlorobenzene	13.9

Data File: \\ANAP1060\D\chem\md.i\1129AD1.B/DS3379.D
Report Date: 11/29/2001

INITIAL CALIBRATION REPORT

Instrument ID: md.i
Lab File ID: DS3379.D
Analysis Type: SOIL

Injection Date: 29-NOV-2001 12:25
Lab Sample ID: 400ppb 8260B STD
Method File: \\ANAP1060\D\chem\md.i\1129AD1.B\

COMPOUND	%RSD
n-Butylbenzene	10.2
1,2-Dichlorobenzene	14.4
1,2-Dibromo-3-chloropropane	8.9
1,2,4-Trichlorobenzene	8.9
Hexachlorobutadiene	10.7
Naphthalene	12.8
1,2,3-Trichlorobenzene	12.7

The average of all %RSD's in the initial calibration is 13.1 ✓ GAB 11/30/01

PM 12/3/01

STL Los Angeles

Data file : \\ANAP1060\D\CHEM\MD.I\1129AD1.B\DT2201.D
Lab Smp Id:
Inj Date : 29-NOV-2001 08:46
Operator : GFB Inst ID: md.i
Smp Info : BFB Tune 50 ng,bfb,,,,,,bfb.m
Misc Info : 1680-2,,,,3,all.sub
Comment :
Method : \\ANAP1060\D\CHEM\MD.I\1129AD1.B\BFB.M
Meth Date : 17-May-2001 10:06 Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.00 Sample Matrix: WATER
Processing Host: ANAP1060

Concentration Formula: Amt * DF * Uf * Vf * VI

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
2.1837	2.0000	(0.000)	95	62141			0.00- 100.00	100.00
2.1837	2.0000	(0.000)	50	11956			15.00- 40.00	19.24
2.1837	2.0000	(0.000)	75	32562			30.00- 60.00	52.40
2.1837	2.0000	(0.000)	96	5181			5.00- 9.00	8.34
2.1837	2.0000	(0.000)	173	0			0.00- 2.00	0.00
2.1837	2.0000	(0.000)	174	38029			50.00- 0.00	61.20
2.1837	2.0000	(0.000)	175	2906			5.00- 9.00	7.64
2.1837	2.0000	(0.000)	176	37320			95.00- 101.00	98.14
2.1837	2.0000	(0.000)	177	2946			5.00- 9.00	7.89

GFB
11/29/01

Data File: \\ANAP1060\D\CHEM\MD.I\1129AD1.B\DT2201.D

Date : 29-NOV-2001 08:46

Client ID:

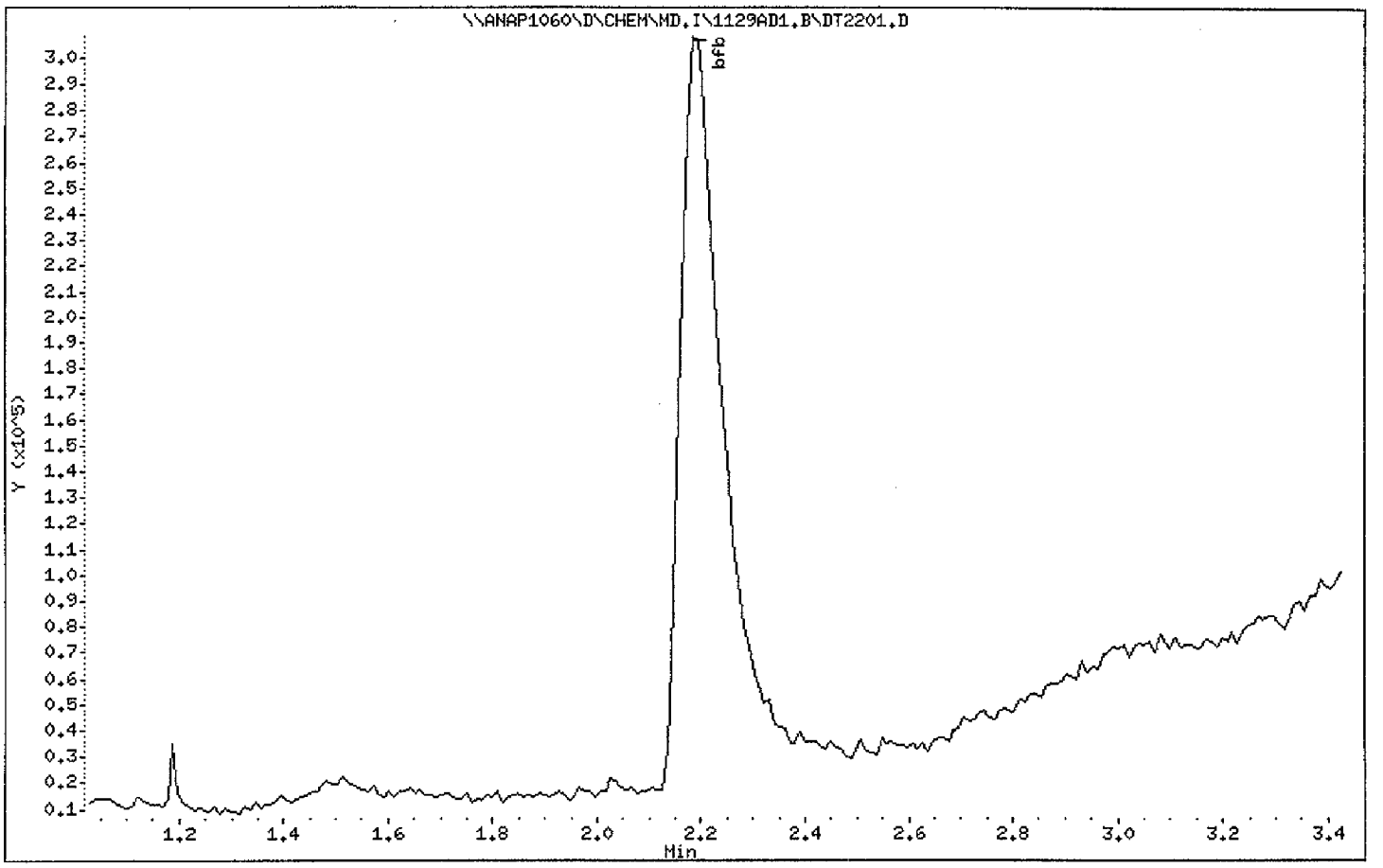
Instrument: md.i

Sample Info: BFB Tune 50 ng,bfb,,,,,,bfb.m

Operator: GFB

Column phase: J&W DB-624

Column diameter: 0.53



Data File: \\ANAP1060\D\CHEM\MD.I\1129AD1.B\DT2201.D

Date : 29-NOV-2001 08:46

Client ID:

Instrument: md.i

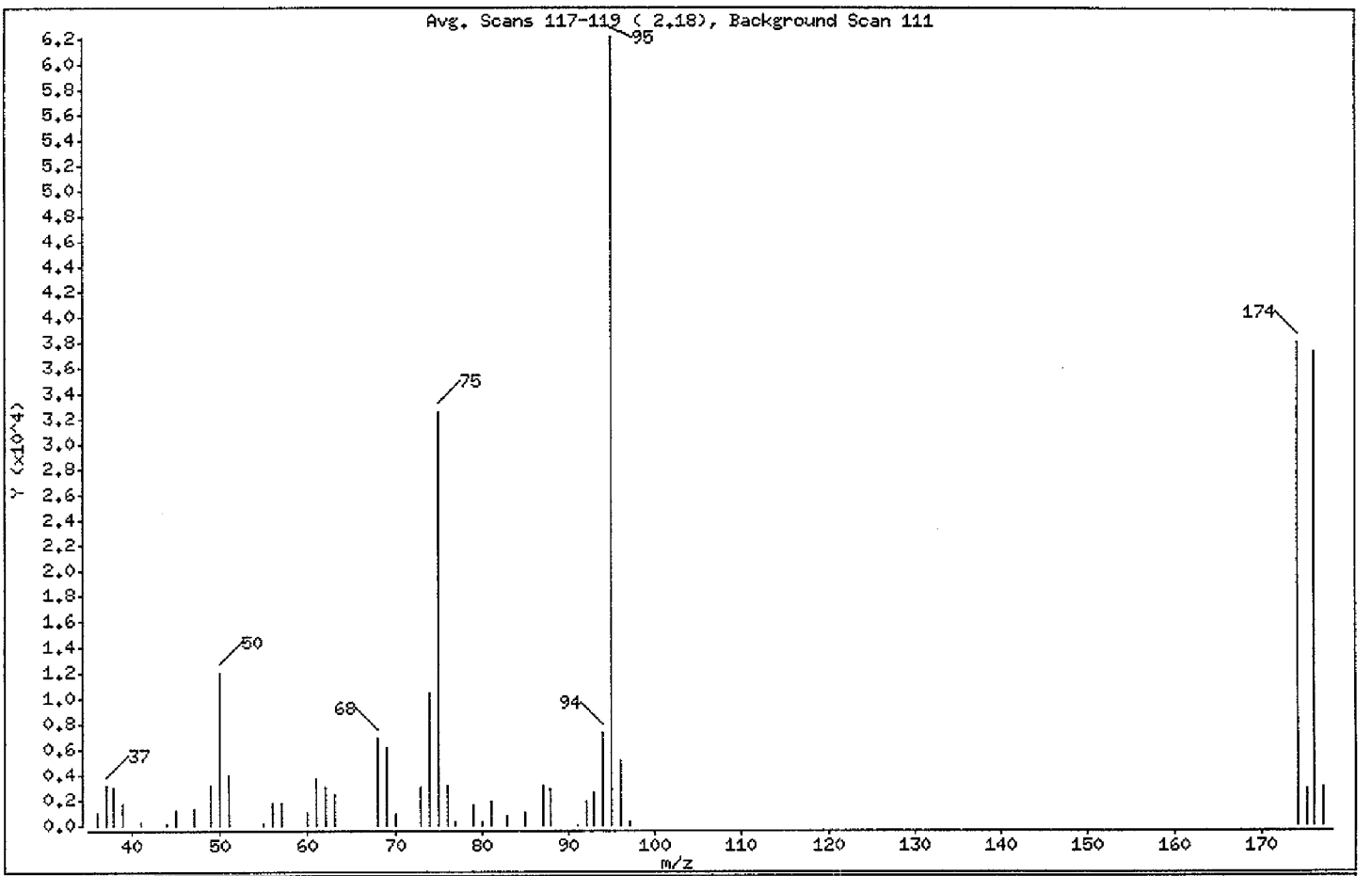
Sample Info: BFB Tune 50 ng,bfb,,,,,,bfb.m

Operator: GFB

Column phase: J&W DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.24
75	30.00 - 60.00% of mass 95	52.40
96	5.00 - 9.00% of mass 95	8.34
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	61.20
175	5.00 - 9.00% of mass 174	4.68 (7.64)
176	95.00 - 101.00% of mass 174	60.06 (98.14)
177	5.00 - 9.00% of mass 176	4.74 (7.89)

GFB
11/29/01
DN
12/3/01

Data File: \\ANAP1060\D\CHEM\MD.I\1129AD1.B\DT2201.D

Date : 29-NOV-2001 08:46

Client ID:

Instrument: md.i

Sample Info: BFB Tune 50 ng,bfb,,,,,,bfb.m

Operator: GFB

Column phase: J&W DB-624

Column diameter: 0.53

Data File: DT2201.D
Spectrum: Avg. Scans 117-119 (2.18), Background Scan 111
Location of Maximum: 95.00
Number of points: 44

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	938	56.00	1743	76.00	3174	94.00	7342
37.00	3178	57.00	1775	77.00	289	95.00	62136
38.00	2942	60.00	1039	79.00	1514	96.00	5181
39.00	1688	61.00	3658	80.00	292	97.00	283
41.00	247	62.00	2979	81.00	1922	174.00	38024
44.00	125	63.00	2399	83.00	658	175.00	2906
45.00	1077	68.00	6907	85.00	1070	176.00	37320
47.00	1238	69.00	6152	87.00	3168	177.00	2946
49.00	3169	70.00	793	88.00	2806		
50.00	11956	73.00	2940	91.00	69		
51.00	4019	74.00	10365	92.00	1827		
55.00	129	75.00	32560	93.00	2577		

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: DS3375.D
Lab Smp Id: 50ppb 8260B STD
Analysis Type: VOA
Quant Type: ISTD
Operator: GFB
Method File: \\ANAP1060\D\chem\md.i\1129AD1.B\8260BDA.m
Misc Info: 1728-1;24-1;20-2,,5,,1,all.SUB

Calibration Date: 29-NOV-2001
Calibration Time: 09:56

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	1811396	905698	3622792	1811396	0.00
56 Chlorobenzene-d5	1432611	716306	2865222	1432611	0.00
79 1,4-Dichlorobenze	812058	406029	1624116	812058	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	8.27	7.77	8.77	8.27	0.00
56 Chlorobenzene-d5	13.79	13.29	14.29	13.79	0.00
79 1,4-Dichlorobenze	18.45	17.95	18.95	18.45	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: DS3376.D
Lab Smp Id: 20ppb 8260B STD
Analysis Type: VOA
Quant Type: ISTD
Operator: GFB
Method File: \\ANAP1060\D\chem\md.i\1129AD1.B\8260BDA.m
Misc Info: 1728-1;24-1;21-2,,5,,1,all.SUB

Calibration Date: 29-NOV-2001
Calibration Time: 09:56

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	1811396	905698	3622792	1915437	5.74
56 Chlorobenzene-d5	1432611	716306	2865222	1410628	-1.53
79 1,4-Dichlorobenze	812058	406029	1624116	805049	-0.86

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	8.27	7.77	8.77	8.26	-0.11
56 Chlorobenzene-d5	13.79	13.29	14.29	13.79	0.01
79 1,4-Dichlorobenze	18.45	17.95	18.95	18.43	-0.10

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: DS3377.D
Lab Smp Id: 5ppb 8260B STD
Analysis Type: VOA
Quant Type: ISTD
Operator: GFB
Method File: \\ANAP1060\D\chem\md.i\1129AD1.B\8260BDA.m
Misc Info: 1728-1;24-1;21-2,,5,,1,all.SUB

Calibration Date: 29-NOV-2001
Calibration Time: 09:56

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	1811396	905698	3622792	1700530	-6.12
56 Chlorobenzene-d5	1432611	716306	2865222	1375545	-3.98
79 1,4-Dichlorobenze	812058	406029	1624116	814072	0.25

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	8.27	7.77	8.77	8.26	-0.12
56 Chlorobenzene-d5	13.79	13.29	14.29	13.78	-0.07
79 1,4-Dichlorobenze	18.45	17.95	18.95	18.43	-0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: DS3378.D
Lab Smp Id: 100ppb 8260B STD
Analysis Type: VOA
Quant Type: ISTD
Operator: GFB
Method File: \\ANAP1060\D\chem\md.i\1129AD1.B\8260BDA.m
Misc Info: 1728-1;24-1;20-2,,5,,1,all.SUB

Calibration Date: 29-NOV-2001
Calibration Time: 09:56

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	1811396	905698	3622792	1602233	-11.55
56 Chlorobenzene-d5	1432611	716306	2865222	1273178	-11.13
79 1,4-Dichlorobenze	812058	406029	1624116	696885	-14.18

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	8.27	7.77	8.77	8.26	-0.17
56 Chlorobenzene-d5	13.79	13.29	14.29	13.79	-0.03
79 1,4-Dichlorobenze	18.45	17.95	18.95	18.44	-0.08

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: DS3379.D
Lab Smp Id: 400ppb 8260B STD
Analysis Type: VOA
Quant Type: ISTD
Operator: GFB
Method File: \\ANAP1060\D\chem\md.i\1129AD1.B\8260BDA.m
Misc Info: 1728-1;24-1;20-2,,5,,1,all.SUB

Calibration Date: 29-NOV-2001
Calibration Time: 09:56

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	1811396	905698	3622792	1469968	-18.85
56 Chlorobenzene-d5	1432611	716306	2865222	1183763	-17.37
79 1,4-Dichlorobenze	812058	406029	1624116	556842	-31.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	8.27	7.77	8.77	8.26	-0.18
56 Chlorobenzene-d5	13.79	13.29	14.29	13.79	0.03
79 1,4-Dichlorobenze	18.45	17.95	18.95	18.46	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\ANAP1060\D\chem\md.i\1129AD1.B\DS3375.D
Lab Smp Id: 50ppb 8260B STD
Inj Date : 29-NOV-2001 09:56
Operator : GFB Inst ID: md.i
Smp Info : 50ppb 8260B STD,,,3,0,,,8260BDA.M
Misc Info : 1728-1;24-1;20-2,,5,,1,all.SUB
Comment :
Method : \\ANAP1060\D\chem\md.i\1129AD1.B\8260BDA.m
Meth Date : 29-Nov-2001 19:01 beckmang Quant Type: ISTD
Cal Date : 29-NOV-2001 09:56 Cal File: DS3375.D
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.SUB
Target Version: 4.00
Processing Host: ANAP1060

Concentration Formula: Amt * DF * Uf * (Vp/(Ws *(100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	1.983	1.968	(0.240)	798482	50.0000	49.95
2 Vinyl chloride (*)	62	2.278	2.273	(0.275)	534058	50.0000	48.78
3 Chloromethane (**)	50	2.200	2.184	(0.266)	315568	50.0000	43.72
4 Bromomethane	94	2.545	2.628	(0.308)	124176	50.0000	55.36
5 Chloroethane	64	2.761	2.756	(0.334)	340685	50.0000	57.44
6 Trichlorofluoromethane	101	2.949	2.914	(0.357)	1126721	50.0000	52.78
7 Acrolein	56	3.550	3.564	(0.429)	107180	500.000	528.2
8 1,1-Dichloroethene(*)	96	3.589	3.564	(0.434)	539676	50.0000	51.41
9 1,1,2-Trichlorotrifluoroethan	151	3.530	3.485	(0.427)	695916	50.0000	49.77
10 Acetone	43	3.757	3.820	(0.454)	502153	250.000	239.5
11 Iodomethane	142	3.816	3.919	(0.461)	450301	100.000	96.48
12 Carbon disulfide	76	3.845	3.820	(0.465)	1352563	50.0000	49.51
13 Methylene chloride	84	4.368	4.402	(0.528)	552860	50.0000	47.10
14 t-Butanol	59	4.604	4.747	(0.557)	289421	200.000	199.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	15 trans-1,2-Dichloroethene	96	4.683	4.668	(0.566)	614746	50.0000	48.90
	16 Acrylonitrile	53	4.861	4.885	(0.588)	728059	500.000	498.4
	17 Methyl-tert-butyl ether[MTBE]	73	4.683	4.707	(0.566)	1524916	50.0000	49.85
	18 1,1-Dichloroethane (**)	63	5.422	5.427	(0.656)	1115335	50.0000	48.56
	19 Vinyl acetate	43	5.511	5.526	(0.666)	2925879	100.000	98.32
	20 Isopropyl ether	45	5.452	5.476	(0.659)	2380562	50.0000	50.35
	21 2,2-Dichloropropane	77	6.309	6.294	(0.763)	1170552	50.0000	50.00
	22 Tert-butyl ethyl ether	59	6.043	6.048	(0.731)	2124044	50.0000	50.59
	23 cis-1,2-Dichloroethene	96	6.369	6.383	(0.770)	699560	50.0000	49.61
	24 2-Butanone	43	6.477	6.511	(0.783)	1196756	250.000	239.0
	25 Bromochloromethane	128	6.792	6.787	(0.821)	346651	50.0000	50.04
	26 Chloroform (*)	83	6.911	6.925	(0.836)	1310687	50.0000	49.81
	27 Tetrahydrofuran	42	6.812	6.826	(0.824)	194064	50.0000	51.28
M	28 1,2-Dichloroethene (total)	100				1314306	100.000	98.52
$	29 Dibromofluoromethane	111	7.196	7.211	(0.870)	772159	50.0000	43.84
	30 1,1,1-Trichloroethane	97	7.108	7.102	(0.859)	1218186	50.0000	49.74
	31 Carbon Tetrachloride	117	7.315	7.300	(0.884)	1010037	50.0000	50.39
	32 1,1-Dichloropropene	75	7.394	7.378	(0.894)	1072491	50.0000	49.40
$	33 1,2-Dichloroethane-d4	65	7.798	7.792	(0.943)	599973	50.0000	45.26
	34 1,2-Dichloroethane-d4 2nd	102	7.788	7.792	(0.942)	162559	50.0000	50.03
	35 Benzene	78	7.739	7.723	(0.936)	1973860	50.0000	49.83
	36 1,2-Dichloroethane	62	7.916	7.920	(0.957)	759222	50.0000	48.76
	37 Tert-amyl methyl ether	73	7.946	7.950	(0.961)	1922197	50.0000	50.05
*	38 Fluorobenzene	96	8.271	8.255	(1.000)	1811396	50.0000	
	39 Trichloroethene	130	8.882	8.867	(1.074)	820728	50.0000	49.64
	40 1,2-Dichloropropane(*)	63	9.355	9.350	(1.131)	857895	50.0000	48.96
	41 Dibromomethane	93	9.562	9.556	(1.156)	579797	50.0000	50.63
	42 Bromodichloromethane	83	9.857	9.852	(1.192)	1239224	50.0000	51.04
	43 1-Bromo-2-chloroethane	63	10.439	10.434	(1.262)	2001688	50.0000	49.13
	44 2-Chloroethylvinyl ether	106	10.469	10.473	(1.266)	213607	100.000	84.62
	45 cis-1,3-Dichloropropene	75	10.685	10.680	(1.292)	1242937	50.0000	50.66
	46 4-Methyl-2-pentanone	43	11.001	11.015	(1.330)	3392552	250.000	250.1
$	47 Toluene-d8	98	11.050	11.064	(0.801)	1595727	50.0000	45.45
	48 Toluene (*)	91	11.168	11.173	(0.810)	2313959	50.0000	48.90
	49 trans-1,3-Dichloropropene	75	11.769	11.774	(0.853)	1056658	50.0000	50.59
	50 1,1,2-Trichloroethane	97	12.085	12.089	(0.876)	694647	50.0000	50.09
	51 Tetrachloroethene	164	12.114	12.119	(0.878)	722579	50.0000	49.38
	52 1,3-Dichloropropane	76	12.400	12.395	(0.899)	1187500	50.0000	49.04
	53 2-Hexanone	43	12.568	12.582	(0.911)	2380008	250.000	240.7
	54 Dibromochloromethane	129	12.735	12.750	(0.924)	946655	50.0000	51.12
	55 1,2-Dibromoethane	107	12.942	12.947	(0.939)	885412	50.0000	49.29
*	56 Chlorobenzene-d5	117	13.790	13.794	(1.000)	1432611	50.0000	
	57 Chlorobenzene (**)	112	13.839	13.844	(1.004)	1658053	50.0000	49.92
	58 1,1,1,2-Tetrachloroethane	131	14.046	14.061	(1.019)	800419	50.0000	50.96
	59 Ethylbenzene (*)	106	14.026	14.041	(1.017)	851271	50.0000	49.94
	60 m,p-Xylenes	106	14.273	14.287	(1.035)	2045982	100.000	99.78
	61 o-Xylene	106	15.051	15.046	(1.091)	1040730	50.0000	50.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	62 Styrene	104	15.101	15.115	(1.095)	1688675	50.0000	50.06
M	63 Xylenes (total)	100				3086712	150.000	149.9
	64 Bromoform (**)	173	15.475	15.480	(1.122)	690843	50.0000	51.49
	65 Isopropylbenzene	105	15.771	15.775	(1.144)	3133239	50.0000	49.83
	66 4-Bromofluorobenzene-2nd	174	16.136	16.150	(0.874)	679181	50.0000	44.28
$	67 4-Bromofluorobenzene	95	16.145	16.150	(0.875)	1087889	50.0000	44.22
	68 Bromobenzene	156	16.392	16.396	(0.888)	793341	50.0000	48.12
	69 1,1,2,2-Tetrachloroethane(**)	83	16.550	16.574	(0.897)	1133574	50.0000	49.35
	70 1,2,3-Trichloropropane	110	16.619	16.653	(0.901)	304180	50.0000	50.56
	71 n-Propylbenzene	91	16.589	16.603	(0.899)	3374355	50.0000	47.26
	72 2-Chlorotoluene	126	16.776	16.781	(0.909)	716353	50.0000	48.57
	73 4-Chlorotoluene	126	17.023	17.037	(0.923)	689841	50.0000	49.19
	74 1,3,5-Trimethylbenzene	105	16.983	16.998	(0.920)	2455021	50.0000	47.74
	75 tert-Butylbenzene	119	17.584	17.599	(0.953)	2599934	50.0000	49.17
	76 1,2,4-Trimethylbenzene	105	17.722	17.747	(0.960)	2436249	50.0000	47.70
	77 sec-Butylbenzene	105	18.048	18.062	(0.978)	3633427	50.0000	48.65
	78 1,3-Dichlorobenzene	146	18.284	18.299	(0.991)	1412460	50.0000	49.32
*	79 1,4-Dichlorobenzene-d4	152	18.452	18.456	(1.000)	812058	50.0000	
	80 1,4-Dichlorobenzene	146	18.501	18.515	(1.003)	1420874	50.0000	48.63
	81 p-Isopropyltoluene	119	18.363	18.377	(0.995)	2782907	50.0000	49.07
	82 1,2-Dichlorobenzene	146	19.240	19.255	(1.043)	1289148	50.0000	48.90
	83 n-Butylbenzene	91	19.201	19.205	(1.041)	2978358	50.0000	48.62
	84 1,2-Dibromo-3-chloropropane	157	20.916	20.920	(1.134)	283599	50.0000	50.04
	85 1,2,4-Trichlorobenzene	180	22.562	22.566	(1.223)	1137646	50.0000	49.66
	86 Hexachlorobutadiene	225	22.838	22.842	(1.238)	714138	50.0000	48.39
	87 Naphthalene	128	23.025	23.029	(1.248)	2005247	50.0000	47.84
	88 1,2,3-Trichlorobenzene	180	23.409	23.414	(1.269)	958901	50.0000	49.20

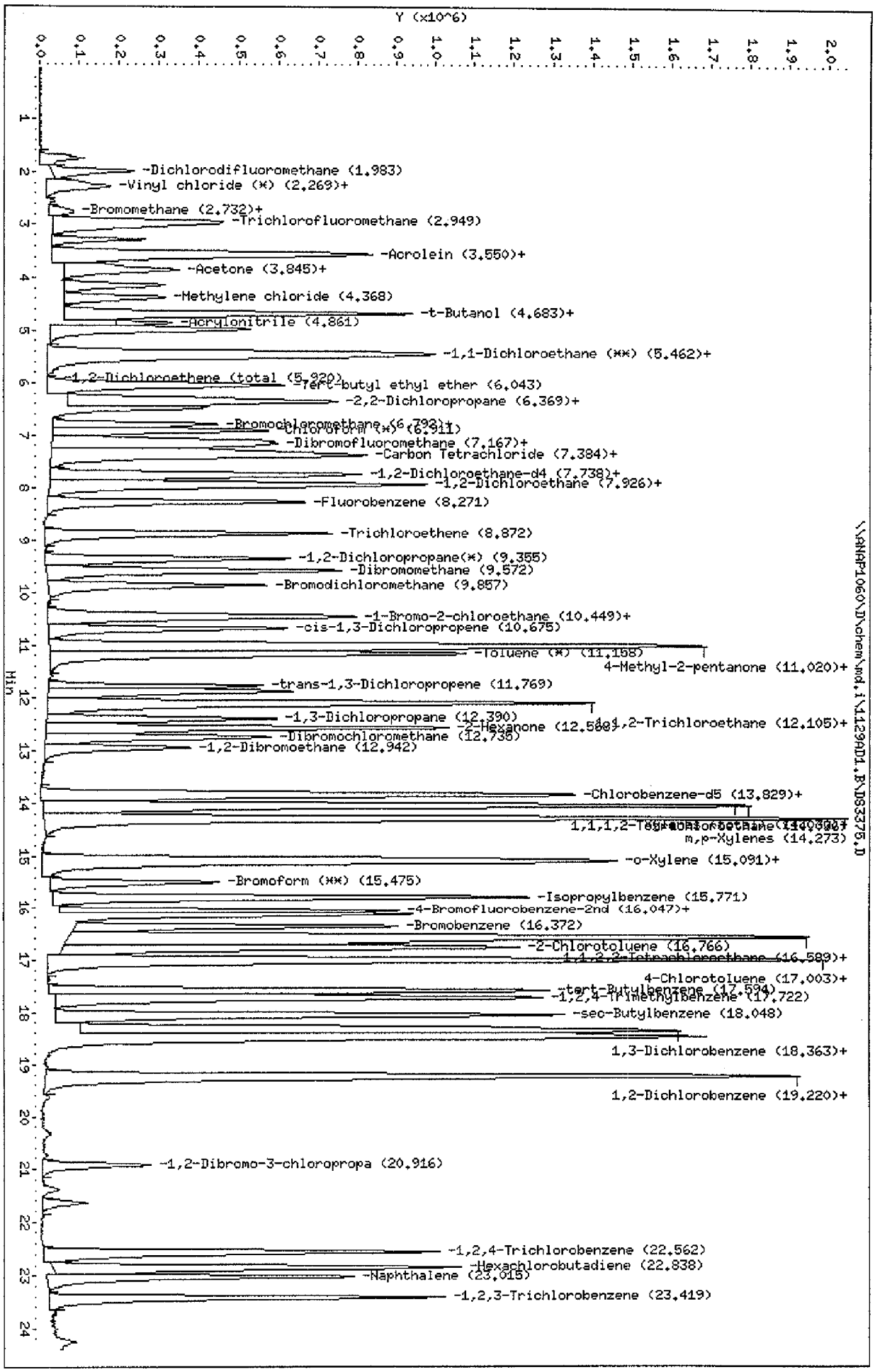
Data File: \\ANAP1060\D\chem\md.i\1129AD1.B\DS3375.D
Date : 29-NOV-2001 09:56
Client ID:
Sample Info: 50ppb 8260B STD,,,3.0,,,8260BDA.M

Column phase: J&W DB-624

Instrument: md.i

Operator: GFB

Column diameter: 0.53



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VOLATILE REPORT low level 8260B

Data file : \\ANAP1060\D\chem\md.i\1129AD1.B\DS3376.D
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Inj Date : 29-NOV-2001 10:54
Operator : GFB Inst ID: md.i
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Misc Info : 1728-1;24-1;21-2,,5,,1,all.SUB
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Meth Date : 29-Nov-2001 19:01 beckmang Quant Type: ISTD
Cal Date : 29-NOV-2001 09:56 Cal File: DS3375.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.SUB
Target Version: 4.00
Processing Host: ANAP1060

Concentration Formula: Amt * DF * Uf * (Vp/(Ws *(100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	1.983	1.968	(0.240)	339413	20.0000	20.08
2 Vinyl chloride (*)	62	2.279	2.273	(0.276)	234305	20.0000	20.24
3 Chloromethane (**)	50	2.210	2.184	(0.268)	130020	20.0000	17.04
4 Bromomethane	94	2.555	2.628	(0.309)	32055	20.0000	13.51
5 Chloroethane	64	2.742	2.756	(0.332)	149951	20.0000	23.91
6 Trichlorofluoromethane	101	2.939	2.914	(0.356)	490291	20.0000	21.72
7 Acrolein	56	3.531	3.564	(0.427)	43192	200.000	201.3
8 1,1-Dichloroethene(*)	96	3.570	3.564	(0.432)	230724	20.0000	20.78
9 1,1,2-Trichlorotrifluoroethan	151	3.541	3.485	(0.429)	315292	20.0000	21.32
10 Acetone	43	3.757	3.820	(0.455)	219591	100.000	99.05
11 Iodomethane	142	3.807	3.919	(0.461)	165677	40.0000	33.57
12 Carbon disulfide	76	3.846	3.820	(0.466)	597642	20.0000	20.69
13 Methylene chloride	84	4.359	4.402	(0.528)	243537	20.0000	19.62
14 t-Butanol	59	4.615	4.747	(0.559)	124418	80.0000	81.18(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	15 trans-1,2-Dichloroethene	96	4.674	4.668	(0.566)	284555	20.0000	21.41
	16 Acrylonitrile	53	4.842	4.885	(0.586)	318026	200.000	205.9
	17 Methyl-tert-butyl ether[MTBE]	73	4.684	4.707	(0.567)	645395	20.0000	19.95
	18 1,1-Dichloroethane (**)	63	5.413	5.427	(0.655)	506750	20.0000	20.86
	19 Vinyl acetate	43	5.502	5.526	(0.666)	1298802	40.0000	41.27
	20 Isopropyl ether	45	5.453	5.476	(0.660)	1024386	20.0000	20.49
	21 2,2-Dichloropropane	77	6.300	6.294	(0.763)	511278	20.0000	20.65
	22 Tert-butyl ethyl ether	59	6.034	6.048	(0.730)	898760	20.0000	20.24
	23 cis-1,2-Dichloroethene	96	6.369	6.383	(0.771)	309148	20.0000	20.73
	24 2-Butanone	43	6.478	6.511	(0.784)	511157	100.000	96.54
	25 Bromochloromethane	128	6.783	6.787	(0.821)	152619	20.0000	20.83
	26 Chloroform (*)	83	6.921	6.925	(0.838)	573776	20.0000	20.62
	27 Tetrahydrofuran	42	6.803	6.826	(0.823)	82019	20.0000	20.49
M	28 1,2-Dichloroethene (total)	100				593703	40.0000	42.14
$	29 Dibromofluoromethane	111	7.197	7.211	(0.871)	401039	20.0000	21.53
	30 1,1,1-Trichloroethane	97	7.108	7.102	(0.860)	538795	20.0000	20.80
	31 Carbon Tetrachloride	117	7.315	7.300	(0.885)	430312	20.0000	20.30
	32 1,1-Dichloropropene	75	7.384	7.378	(0.894)	495849	20.0000	21.60
$	33 1,2-Dichloroethane-d4	65	7.779	7.792	(0.942)	300771	20.0000	21.45
	34 1,2-Dichloroethane-d4 2nd	102	7.789	7.792	(0.943)	76672	20.0000	22.31
	35 Benzene	78	7.729	7.723	(0.936)	875118	20.0000	20.89
	36 1,2-Dichloroethane	62	7.907	7.920	(0.957)	343935	20.0000	20.89
	37 Tert-amyl methyl ether	73	7.926	7.950	(0.959)	830823	20.0000	20.46
*	38 Fluorobenzene	96	8.262	8.255	(1.000)	1915437	50.0000	
	39 Trichloroethene	130	8.873	8.867	(1.074)	365249	20.0000	20.89
	40 1,2-Dichloropropane(*)	63	9.346	9.350	(1.131)	370333	20.0000	19.99
	41 Dibromomethane	93	9.563	9.556	(1.157)	250257	20.0000	20.67
	42 Bromodichloromethane	83	9.848	9.852	(1.192)	522267	20.0000	20.34
	43 1-Bromo-2-chloroethane	63	10.430	10.434	(1.262)	877783	20.0000	20.37
	44 2-Chloroethylvinyl ether	106	10.469	10.473	(1.267)	91252	40.0000	34.18
	45 cis-1,3-Dichloropropene	75	10.666	10.680	(1.291)	532771	20.0000	20.54
	46 4-Methyl-2-pentanone	43	10.992	11.015	(1.330)	1455302	100.000	101.4
$	47 Toluene-d8	98	11.051	11.064	(0.801)	824085	20.0000	23.84
	48 Toluene (*)	91	11.159	11.173	(0.809)	1050511	20.0000	22.55
	49 trans-1,3-Dichloropropene	75	11.760	11.774	(0.853)	449733	20.0000	21.87
	50 1,1,2-Trichloroethane	97	12.086	12.089	(0.876)	309886	20.0000	22.70
	51 Tetrachloroethene	164	12.105	12.119	(0.878)	329642	20.0000	22.88
	52 1,3-Dichloropropane	76	12.391	12.395	(0.899)	520749	20.0000	21.84
	53 2-Hexanone	43	12.569	12.582	(0.911)	1026891	100.000	105.5
	54 Dibromochloromethane	129	12.736	12.750	(0.924)	403343	20.0000	22.12
	55 1,2-Dibromoethane	107	12.933	12.947	(0.938)	386912	20.0000	21.88
*	56 Chlorobenzene-d5	117	13.791	13.794	(1.000)	1410628	50.0000	
	57 Chlorobenzene (**)	112	13.850	13.844	(1.004)	688044	20.0000	21.04
	58 1,1,1,2-Tetrachloroethane	131	14.037	14.061	(1.018)	329363	20.0000	21.30
	59 Ethylbenzene (*)	106	14.027	14.041	(1.017)	361103	20.0000	21.52
	60 m,p-Xylenes	106	14.274	14.287	(1.035)	868740	40.0000	43.03
	61 o-Xylene	106	15.032	15.046	(1.090)	442040	20.0000	21.61

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	62 Styrene	104	15.111	15.115	(1.096)	706597	20.0000	21.27
M	63 Xylenes (total)	100				1310780	60.0000	64.64
	64 Bromoform (**)	173	15.466	15.480	(1.121)	266779	20.0000	20.20
	65 Isopropylbenzene	105	15.762	15.775	(1.143)	1343905	20.0000	21.71
	66 4-Bromofluorobenzene-2nd	174	16.126	16.150	(0.875)	331506	20.0000	21.80
$	67 4-Bromofluorobenzene	95	16.136	16.150	(0.875)	525585	20.0000	21.55
	68 Bromobenzene	156	16.363	16.396	(0.888)	337899	20.0000	20.67
	69 1,1,2,2-Tetrachloroethane(**)	83	16.540	16.574	(0.897)	461105	20.0000	20.25
	70 1,2,3-Trichloropropane	110	16.619	16.653	(0.902)	124157	20.0000	20.82
	71 n-Propylbenzene	91	16.580	16.603	(0.899)	1482485	20.0000	20.94
	72 2-Chlorotoluene	126	16.757	16.781	(0.909)	308260	20.0000	21.08
	73 4-Chlorotoluene	126	17.004	17.037	(0.922)	288359	20.0000	20.74
	74 1,3,5-Trimethylbenzene	105	16.974	16.998	(0.921)	1080365	20.0000	21.19
	75 tert-Butylbenzene	119	17.575	17.599	(0.953)	1104459	20.0000	21.07
	76 1,2,4-Trimethylbenzene	105	17.713	17.747	(0.961)	1034954	20.0000	20.44
	77 sec-Butylbenzene	105	18.038	18.062	(0.979)	1521667	20.0000	20.55
	78 1,3-Dichlorobenzene	146	18.285	18.299	(0.992)	595213	20.0000	20.96
*	79 1,4-Dichlorobenzene-d4	152	18.433	18.456	(1.000)	805049	50.0000	
	80 1,4-Dichlorobenzene	146	18.492	18.515	(1.003)	598719	20.0000	20.67
	81 p-Isopropyltoluene	119	18.364	18.377	(0.996)	1205985	20.0000	21.45
	82 1,2-Dichlorobenzene	146	19.241	19.255	(1.044)	562414	20.0000	21.52
	83 n-Butylbenzene	91	19.192	19.205	(1.041)	1269898	20.0000	20.91
	84 1,2-Dibromo-3-chloropropane	157	20.916	20.920	(1.135)	107701	20.0000	19.17
	85 1,2,4-Trichlorobenzene	180	22.552	22.566	(1.223)	473055	20.0000	20.83
	86 Hexachlorobutadiene	225	22.838	22.842	(1.239)	303638	20.0000	20.75
	87 Naphthalene	128	23.016	23.029	(1.249)	846320	20.0000	20.37
	88 1,2,3-Trichlorobenzene	180	23.420	23.414	(1.271)	404004	20.0000	20.91

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

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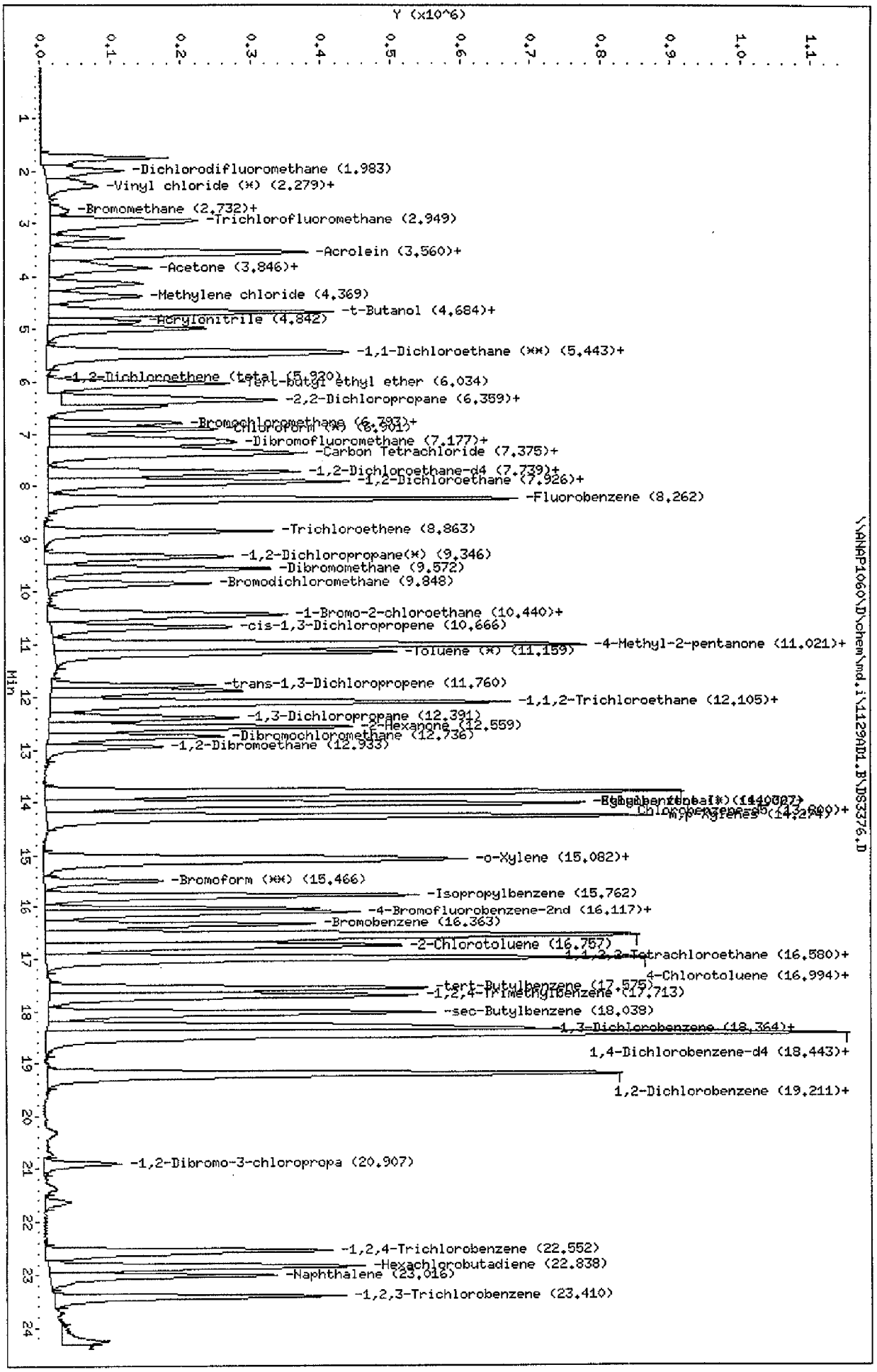
Instrument: md.i
Operator: GFB
Column diameter: 0.53



STL Los Angeles

VOLATILE REPORT low level 8260B

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Inj Date : 29-NOV-2001 11:24
Operator : GFB Inst ID: md.i
Smp Info : 5ppb 8260B STD,,,1,0,,,8260BDA.M
Misc Info : 1728-1;24-1;21-2,,5,,1,all.SUB
Comment :
Method : \\ANAP1060\D\chem\md.i\1129AD1.B\8260BDA.m
Meth Date : 29-Nov-2001 19:01 beckmang Quant Type: ISTD
Cal Date : 29-NOV-2001 09:56 Cal File: DS3375.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.SUB
Target Version: 4.00
Processing Host: ANAP1060

Concentration Formula: Amt * DF * Uf * (Vp/(Ws *(100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	1.953	1.968	(0.236)	82486	5.00000	5.50(a)
2 Vinyl chloride (*)	62	2.259	2.273	(0.273)	54847	5.00000	5.34(a)
3 Chloromethane (**)	50	2.160	2.184	(0.262)	36867	5.00000	5.44(a)
4 Bromomethane	94	2.545	2.628	(0.308)	1912	5.00000	0.908(a)
5 Chloroethane	64	2.742	2.756	(0.332)	35790	5.00000	6.43(a)
6 Trichlorofluoromethane	101	2.939	2.914	(0.356)	125019	5.00000	6.24(a)
7 Acrolein	56	3.520	3.564	(0.426)	8428	50.0000	44.24(a)
8 1,1-Dichloroethene(*)	96	3.589	3.564	(0.434)	56989	5.00000	5.78
9 1,1,2-Trichlorotrifluoroethan	151	3.520	3.485	(0.426)	76187	5.00000	5.80
10 Acetone	43	3.757	3.820	(0.455)	63531	25.0000	32.28
11 Iodomethane	142	3.806	3.919	(0.461)	30620	10.0000	6.99(a)
12 Carbon disulfide	76	3.856	3.820	(0.467)	144089	5.00000	5.62
13 Methylene chloride	84	4.358	4.402	(0.528)	67531	5.00000	6.13
14 t-Butanol	59	4.624	4.747	(0.560)	32476	20.0000	23.87(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	15 trans-1,2-Dichloroethene	96	4.664	4.668	(0.565)	68473	5.00000	5.80
	16 Acrylonitrile	53	4.841	4.885	(0.586)	76903	50.0000	56.07
	17 Methyl-tert-butyl ether[MTBE]	73	4.683	4.707	(0.567)	172176	5.00000	6.00
	18 1,1-Dichloroethane (**)	63	5.413	5.427	(0.655)	122144	5.00000	5.66
	19 Vinyl acetate	43	5.511	5.526	(0.667)	331441	10.0000	11.86
	20 Isopropyl ether	45	5.432	5.476	(0.658)	257311	5.00000	5.80(a)
	21 2,2-Dichloropropane	77	6.300	6.294	(0.763)	124136	5.00000	5.65
	22 Tert-butyl ethyl ether	59	6.024	6.048	(0.729)	218827	5.00000	5.55(a)
	23 cis-1,2-Dichloroethene	96	6.369	6.383	(0.771)	74503	5.00000	5.63
	24 2-Butanone	43	6.467	6.511	(0.783)	149531	25.0000	31.81
	25 Bromochloromethane	128	6.783	6.787	(0.821)	36366	5.00000	5.59
	26 Chloroform (*)	83	6.911	6.925	(0.837)	142401	5.00000	5.76
	27 Tetrahydrofuran	42	6.793	6.826	(0.822)	22704	5.00000	6.39(a)
M	28 1,2-Dichloroethene (total)	100				142976	10.0000	11.43
$	29 Dibromofluoromethane	111	7.197	7.211	(0.871)	97751	5.00000	5.91
	30 1,1,1-Trichloroethane	97	7.098	7.102	(0.859)	128938	5.00000	5.61
	31 Carbon Tetrachloride	117	7.305	7.300	(0.884)	108796	5.00000	5.78
	32 1,1-Dichloropropene	75	7.394	7.378	(0.895)	118280	5.00000	5.80
$	33 1,2-Dichloroethane-d4	65	7.788	7.792	(0.943)	70211	5.00000	5.64
	34 1,2-Dichloroethane-d4 2nd	102	7.768	7.792	(0.940)	15428	5.00000	5.06
	35 Benzene	78	7.729	7.723	(0.936)	212588	5.00000	5.72
	36 1,2-Dichloroethane	62	7.916	7.920	(0.958)	85598	5.00000	5.86
	37 Tert-amyl methyl ether	73	7.936	7.950	(0.961)	217342	5.00000	6.03(a)
*	38 Fluorobenzene	96	8.261	8.255	(1.000)	1700530	50.0000	
	39 Trichloroethene	130	8.862	8.867	(1.073)	88077	5.00000	5.67
	40 1,2-Dichloropropane(*)	63	9.335	9.350	(1.130)	95162	5.00000	5.78
	41 Dibromomethane	93	9.562	9.556	(1.157)	59817	5.00000	5.56
	42 Bromodichloromethane	83	9.848	9.852	(1.192)	124554	5.00000	5.46
	43 1-Bromo-2-chloroethane	63	10.429	10.434	(1.262)	223342	5.00000	5.84
	44 2-Chloroethylvinyl ether	106	10.469	10.473	(1.267)	21271	5.00000	8.98(aM) GFB 11/29/01
	45 cis-1,3-Dichloropropene	75	10.676	10.680	(1.292)	128926	5.00000	5.60
	46 4-Methyl-2-pentanone	43	10.991	11.015	(1.330)	399750	25.0000	31.39
$	47 Toluene-d8	98	11.050	11.064	(0.802)	196881	5.00000	5.84
	48 Toluene (*)	91	11.159	11.173	(0.810)	264696	5.00000	5.83
	49 trans-1,3-Dichloropropene	75	11.770	11.774	(0.854)	105032	5.00000	5.24
	50 1,1,2-Trichloroethane	97	12.075	12.089	(0.876)	79422	5.00000	5.96
	51 Tetrachloroethene	164	12.105	12.119	(0.878)	85022	5.00000	6.05
	52 1,3-Dichloropropane	76	12.381	12.395	(0.898)	135919	5.00000	5.84
	53 2-Hexanone	43	12.558	12.582	(0.911)	285983	25.0000	30.12
	54 Dibromochloromethane	129	12.736	12.750	(0.924)	91740	5.00000	5.16
	55 1,2-Dibromoethane	107	12.933	12.947	(0.938)	97686	5.00000	5.66
*	56 Chlorobenzene-d5	117	13.780	13.794	(1.000)	1375545	50.0000	
	57 Chlorobenzene (**)	112	13.839	13.844	(1.004)	188240	5.00000	5.90
	58 1,1,1,2-Tetrachloroethane	131	14.056	14.061	(1.020)	86467	5.00000	5.73
	59 Ethylbenzene (*)	106	14.017	14.041	(1.017)	101036	5.00000	6.17
	60 m,p-Xylenes	106	14.263	14.287	(1.035)	246984	10.0000	12.54
	61 o-Xylene	106	15.042	15.046	(1.092)	115241	5.00000	5.78

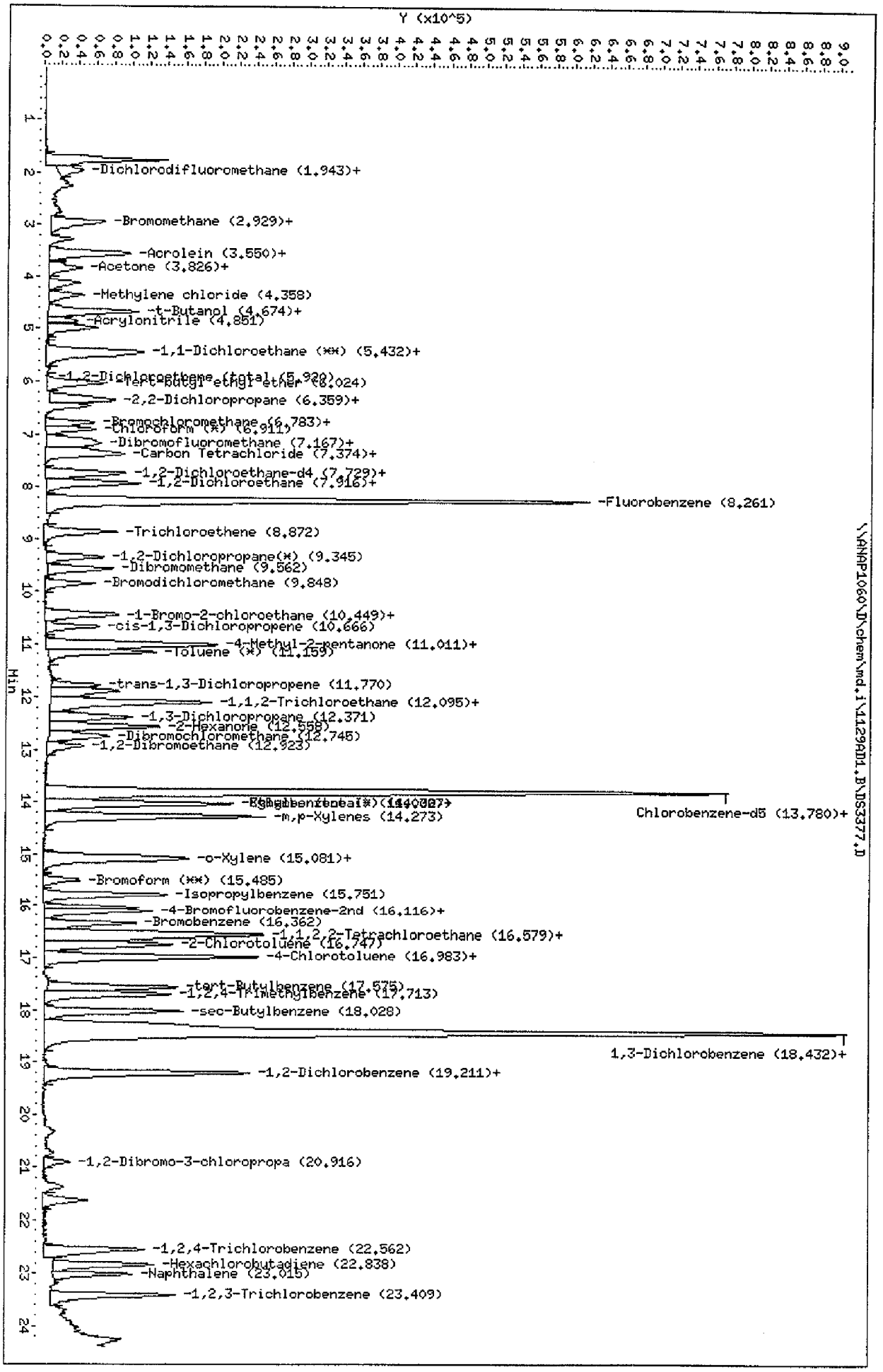
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
62 Styrene	104	15.101	15.115	(1.096)	189465	5.00000	5.85(a)
M 63 Xylenes (total)	100				362225	15.0000	18.32
64 Bromoform (**)	173	15.466	15.480	(1.122)	66239	5.00000	5.14
65 Isopropylbenzene	105	15.751	15.775	(1.143)	356341	5.00000	5.90
66 4-Bromofluorobenzene-2nd	174	16.116	16.150	(0.874)	87734	5.00000	5.71
$ 67 4-Bromofluorobenzene	95	16.126	16.150	(0.875)	141149	5.00000	5.72
68 Bromobenzene	156	16.372	16.396	(0.888)	92020	5.00000	5.57
69 1,1,2,2-Tetrachloroethane(**)	83	16.550	16.574	(0.898)	129439	5.00000	5.62
70 1,2,3-Trichloropropane	110	16.619	16.653	(0.902)	33899	5.00000	5.62
71 n-Propylbenzene	91	16.579	16.603	(0.899)	428635	5.00000	5.99
72 2-Chlorotoluene	126	16.757	16.781	(0.909)	83948	5.00000	5.68
73 4-Chlorotoluene	126	16.993	17.037	(0.922)	83776	5.00000	5.96
74 1,3,5-Trimethylbenzene	105	16.964	16.998	(0.920)	304675	5.00000	5.91
75 tert-Butylbenzene	119	17.585	17.599	(0.954)	293141	5.00000	5.53
76 1,2,4-Trimethylbenzene	105	17.723	17.747	(0.962)	301899	5.00000	5.90
77 sec-Butylbenzene	105	18.028	18.062	(0.978)	444177	5.00000	5.93
78 1,3-Dichlorobenzene	146	18.274	18.299	(0.991)	170001	5.00000	5.92
* 79 1,4-Dichlorobenzene-d4	152	18.432	18.456	(1.000)	814072	50.0000	
80 1,4-Dichlorobenzene	146	18.491	18.515	(1.003)	177878	5.00000	6.07
81 p-Isopropyltoluene	119	18.353	18.377	(0.996)	337928	5.00000	5.94
82 1,2-Dichlorobenzene	146	19.230	19.255	(1.043)	157736	5.00000	5.97
83 n-Butylbenzene	91	19.191	19.205	(1.041)	350707	5.00000	5.71
84 1,2-Dibromo-3-chloropropane	157	20.916	20.920	(1.135)	25089	5.00000	4.42(a)
85 1,2,4-Trichlorobenzene	180	22.552	22.566	(1.224)	129259	5.00000	5.63
86 Hexachlorobutadiene	225	22.838	22.842	(1.239)	85848	5.00000	5.80
87 Naphthalene	128	23.015	23.029	(1.249)	254178	5.00000	6.05
88 1,2,3-Trichlorobenzene	180	23.429	23.414	(1.271)	116218	5.00000	5.95

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ANAP1060\D\chem\md.i\1129AD1.B\DS3377.D
Date : 29-NOV-2001 11:24
Client ID:
Sample Info: 5ppb 8260B STD,,1,0,,8260BDA.M
Column phase: J&W DB-624

Instrument: md.i
Operator: GFB
Column diameter: 0.53



STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\ANAP1060\D\chem\md.i\1129AD1.B\DS3378.D
Lab Smp Id: 100ppb 8260B STD
Inj Date : 29-NOV-2001 11:55
Operator : GFB Inst ID: md.i
Smp Info : 100ppb 8260B STD,,,4,0,,,8260BDA.M
Misc Info : 1728-1;24-1;20-2,,5,,1,all.SUB
Comment :
Method : \\ANAP1060\D\chem\md.i\1129AD1.B\8260BDA.m
Meth Date : 29-Nov-2001 19:01 beckmang Quant Type: ISTD
Cal Date : 29-NOV-2001 09:56 Cal File: DS3375.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.SUB
Target Version: 4.00
Processing Host: ANAP1060

Concentration Formula: Amt * DF * Uf * (Vp/(Ws *(100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	1.958	1.968	(0.237)	1360019	100.000	96.18
2 Vinyl chloride (*)	62	2.254	2.273	(0.273)	959218	100.000	99.06
3 Chloromethane (**)	50	2.175	2.184	(0.263)	644319	100.000	100.9
4 Bromomethane	94	2.530	2.628	(0.306)	278378	100.000	140.3
5 Chloroethane	64	2.777	2.756	(0.336)	477874	100.000	91.08
6 Trichlorofluoromethane	101	2.924	2.914	(0.354)	1929615	100.000	102.2
7 Acrolein	56	3.545	3.564	(0.429)	184978	1000.00	1030
8 1,1-Dichloroethene(*)	96	3.585	3.564	(0.434)	861365	100.000	92.77
9 1,1,2-Trichlorotrifluoroethan	151	3.526	3.485	(0.427)	1173006	100.000	94.85
10 Acetone	43	3.752	3.820	(0.454)	845277	500.000	455.8
11 Iodomethane	142	3.801	3.919	(0.460)	1163348	200.000	281.8
12 Carbon disulfide	76	3.841	3.820	(0.465)	2302393	100.000	95.28
13 Methylene chloride	84	4.373	4.402	(0.530)	973930	100.000	93.81
14 t-Butanol	59	4.620	4.747	(0.560)	485708	400.000	378.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	15 trans-1,2-Dichloroethene	96	4.679	4.668	(0.567)	1042129	100.000	93.73
	16 Acrylonitrile	53	4.846	4.885	(0.587)	1218315	1000.00	942.8
	17 Methyl-tert-butyl ether[MTBE]	73	4.679	4.707	(0.567)	2553332	100.000	94.36
	18 1,1-Dichloroethane (**)	63	5.418	5.427	(0.656)	1940036	100.000	95.49
	19 Vinyl acetate	43	5.507	5.526	(0.667)	5020924	200.000	190.8
	20 Isopropyl ether	45	5.447	5.476	(0.660)	3998645	100.000	95.61
	21 2,2-Dichloropropane	77	6.305	6.294	(0.764)	1945433	100.000	93.95
	22 Tert-butyl ethyl ether	59	6.039	6.048	(0.731)	3533397	100.000	95.15
	23 cis-1,2-Dichloroethene	96	6.374	6.383	(0.772)	1204007	100.000	96.53
	24 2-Butanone	43	6.482	6.511	(0.785)	2045061	500.000	461.7
	25 Bromochloromethane	128	6.778	6.787	(0.821)	571932	100.000	93.33
	26 Chloroform (*)	83	6.906	6.925	(0.836)	2204959	100.000	94.74
	27 Tetrahydrofuran	42	6.788	6.826	(0.822)	283383	100.000	84.65
M	28 1,2-Dichloroethene (total)	100				2246136	200.000	190.2
$	29 Dibromofluoromethane	111	7.192	7.211	(0.871)	1427244	100.000	91.60
	30 1,1,1-Trichloroethane	97	7.103	7.102	(0.860)	2105950	100.000	97.21
	31 Carbon Tetrachloride	117	7.300	7.300	(0.884)	1710619	100.000	96.48
	32 1,1-Dichloropropene	75	7.389	7.378	(0.895)	1825692	100.000	95.07
$	33 1,2-Dichloroethane-d4	65	7.773	7.792	(0.942)	1130151	100.000	96.37
	34 1,2-Dichloroethane-d4 2nd	102	7.783	7.792	(0.943)	274196	100.000	95.40
	35 Benzene	78	7.724	7.723	(0.936)	3339020	100.000	95.29
	36 1,2-Dichloroethane	62	7.921	7.920	(0.959)	1289056	100.000	93.60
	37 Tert-amyl methyl ether	73	7.941	7.950	(0.962)	3157585	100.000	92.94
*	38 Fluorobenzene	96	8.256	8.255	(1.000)	1602233	50.0000	
	39 Trichloroethene	130	8.867	8.867	(1.074)	1395012	100.000	95.40
	40 1,2-Dichloropropane(*)	63	9.341	9.350	(1.131)	1489053	100.000	96.08
	41 Dibromomethane	93	9.547	9.556	(1.156)	979511	100.000	96.71
	42 Bromodichloromethane	83	9.853	9.852	(1.193)	2075563	100.000	96.64
	43 1-Bromo-2-chloroethane	63	10.434	10.434	(1.264)	3461448	100.000	96.04
	44 2-Chloroethylvinyl ether	106	10.464	10.473	(1.267)	349374	200.000	156.5
	45 cis-1,3-Dichloropropene	75	10.671	10.680	(1.292)	2073565	100.000	95.56
	46 4-Methyl-2-pentanone	43	10.986	11.015	(1.331)	5693222	500.000	474.5
$	47 Toluene-d8	98	11.046	11.064	(0.801)	2868789	100.000	91.95
	48 Toluene (*)	91	11.154	11.173	(0.809)	3935592	100.000	93.59
	49 trans-1,3-Dichloropropene	75	11.755	11.774	(0.853)	1764584	100.000	95.06
	50 1,1,2-Trichloroethane	97	12.080	12.089	(0.876)	1128469	100.000	91.57
	51 Tetrachloroethene	164	12.110	12.119	(0.878)	1197144	100.000	92.05
	52 1,3-Dichloropropane	76	12.386	12.395	(0.898)	1993718	100.000	92.64
	53 2-Hexanone	43	12.553	12.582	(0.911)	4187988	500.000	476.6
	54 Dibromochloromethane	129	12.741	12.750	(0.924)	1631494	100.000	99.14
	55 1,2-Dibromoethane	107	12.928	12.947	(0.938)	1522689	100.000	95.38
*	56 Chlorobenzene-d5	117	13.785	13.794	(1.000)	1273178	50.0000	
	57 Chlorobenzene (**)	112	13.835	13.844	(1.004)	2788955	100.000	94.48
	58 1,1,1,2-Tetrachloroethane	131	14.032	14.061	(1.018)	1360115	100.000	97.44
	59 Ethylbenzene (*)	106	14.022	14.041	(1.017)	1414295	100.000	93.37
	60 m,p-Xylenes	106	14.268	14.287	(1.035)	3408900	200.000	187.1
	61 o-Xylene	106	15.047	15.046	(1.092)	1764195	100.000	95.56

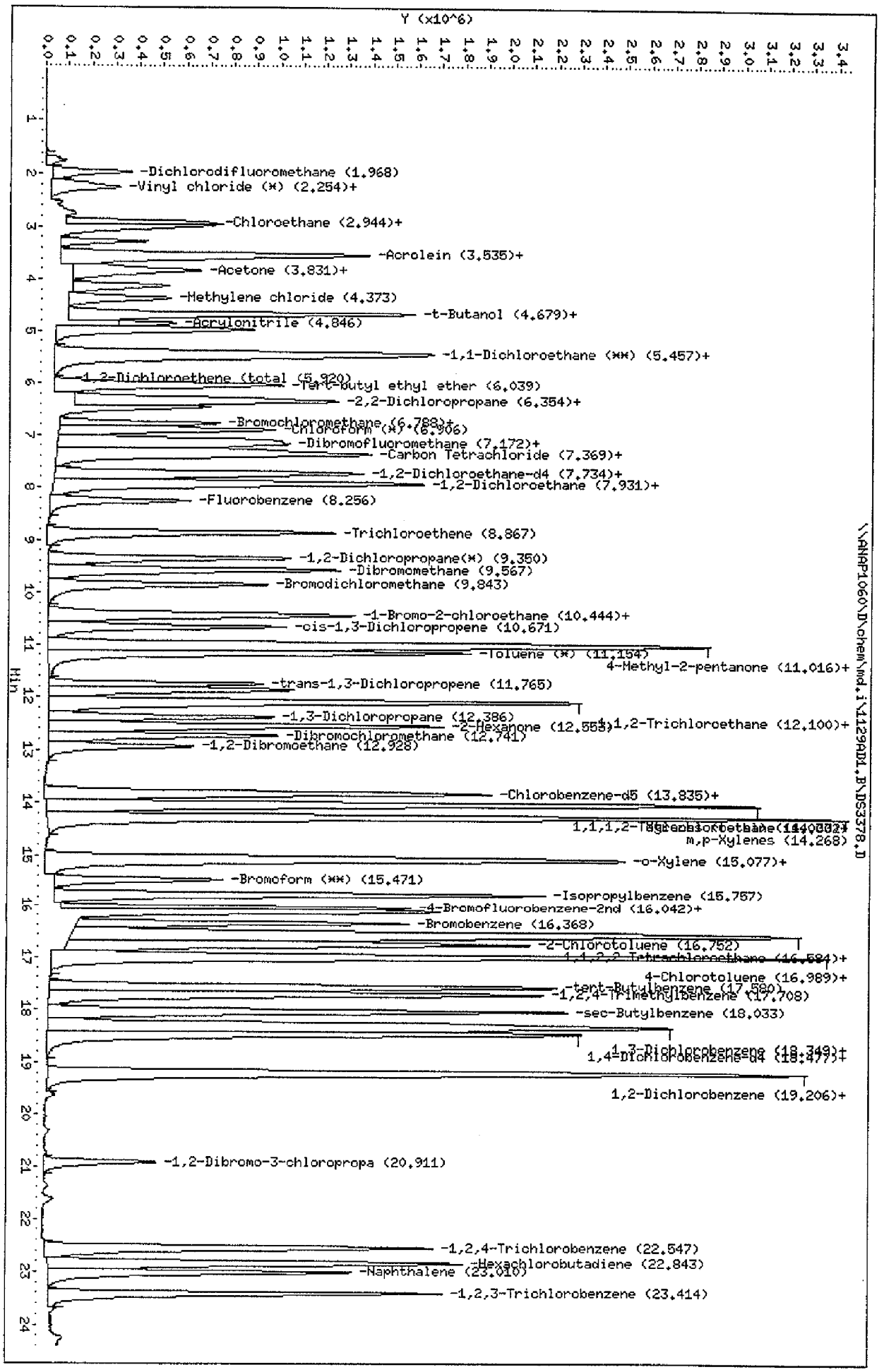
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
62 Styrene	104	15.096	15.115	(1.095)	2911331	100.000	97.11
M 63 Xylenes (total)	100				5173095	300.000	282.6
64 Bromoform (**)	173	15.471	15.480	(1.122)	1228054	100.000	103.0
65 Isopropylbenzene	105	15.766	15.775	(1.144)	5405318	100.000	96.73
66 4-Bromofluorobenzene-2nd	174	16.131	16.150	(0.875)	1250987	100.000	95.05
$ 67 4-Bromofluorobenzene	95	16.141	16.150	(0.875)	2006584	100.000	95.04
68 Bromobenzene	156	16.368	16.396	(0.888)	1369299	100.000	96.78
69 1,1,2,2-Tetrachloroethane(**)	83	16.545	16.574	(0.897)	1917378	100.000	97.26
70 1,2,3-Trichloropropane	110	16.624	16.653	(0.902)	496120	100.000	96.08
71 n-Propylbenzene	91	16.584	16.603	(0.900)	5954160	100.000	97.18
72 2-Chlorotoluene	126	16.762	16.781	(0.909)	1217452	100.000	96.19
73 4-Chlorotoluene	126	17.008	17.037	(0.922)	1147582	100.000	95.35
74 1,3,5-Trimethylbenzene	105	16.979	16.998	(0.921)	4210385	100.000	95.40
75 tert-Butylbenzene	119	17.580	17.599	(0.953)	4406124	100.000	97.10
76 1,2,4-Trimethylbenzene	105	17.718	17.747	(0.961)	4230704	100.000	96.52
77 sec-Butylbenzene	105	18.033	18.062	(0.978)	6093378	100.000	95.08
78 1,3-Dichlorobenzene	146	18.280	18.299	(0.991)	2343895	100.000	95.37
* 79 1,4-Dichlorobenzene-d4	152	18.437	18.456	(1.000)	696885	50.0000	
80 1,4-Dichlorobenzene	146	18.487	18.515	(1.003)	2352760	100.000	93.83
81 p-Isopropyltoluene	119	18.349	18.377	(0.995)	4653743	100.000	95.61
82 1,2-Dichlorobenzene	146	19.236	19.255	(1.043)	2131669	100.000	94.23
83 n-Butylbenzene	91	19.196	19.205	(1.041)	5116797	100.000	97.34
84 1,2-Dibromo-3-chloropropane	157	20.901	20.920	(1.134)	502703	100.000	103.4
85 1,2,4-Trichlorobenzene	180	22.547	22.566	(1.223)	1850037	100.000	94.11
86 Hexachlorobutadiene	225	22.843	22.842	(1.239)	1214511	100.000	95.89
87 Naphthalene	128	23.020	23.029	(1.249)	3370897	100.000	93.72
88 1,2,3-Trichlorobenzene	180	23.414	23.414	(1.270)	1539012	100.000	92.01

Data File: \\ANAP1060\D\chem\md.i\1129AD1.B\DS3378.D
Date : 29-NOV-2001 11:55
Client ID:
Sample Info: 100ppb 8260B STD,,4,0,,,8260BDA.M

Column phase: J&W DB-624

Instrument: md.i

Operator: CFB
Column diameter: 0.53



STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\ANAP1060\D\chem\md.i\1129AD1.B\DS3379.D
Lab Smp Id: 400ppb 8260B STD
Inj Date : 29-NOV-2001 12:25
Operator : GFB Inst ID: md.i
Smp Info : 400ppb 8260B STD,,,5,0,,,8260BDA.M
Misc Info : 1728-1;24-1;20-2,,5,,1,all.SUB
Comment :
Method : \\ANAP1060\D\chem\md.i\1129AD1.B\8260BDA.m
Meth Date : 29-Nov-2001 19:01 beckmang Quant Type: ISTD
Cal Date : 29-NOV-2001 12:25 Cal File: DS3379.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.SUB
Target Version: 4.00
Processing Host: ANAP1060

Concentration Formula: Amt * DF * Uf * (Vp/(Ws *(100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	1.968	1.968	(0.238)	4856963	400.000	374.4
2 Vinyl chloride (*)	62	2.273	2.273	(0.275)	3391095	400.000	381.7
3 Chloromethane (**)	50	2.184	2.184	(0.265)	2755516	400.000	470.5(A)
4 Bromomethane	94	2.628	2.628	(0.318)	1188529	400.000	652.9(A)
5 Chloroethane	64	2.756	2.756	(0.334)	885038	400.000	183.9
6 Trichlorofluoromethane	101	2.914	2.914	(0.353)	4078609	400.000	235.4
7 Acrolein	56	3.564	3.564	(0.432)	673175	4000.00	4088(A)
8 1,1-Dichloroethene(*)	96	3.564	3.564	(0.432)	2890602	400.000	339.3
9 1,1,2-Trichlorotrifluoroethan	151	3.485	3.485	(0.422)	3761673	400.000	331.5
10 Acetone	43	3.820	3.820	(0.463)	2887770	2000.00	1697
11 Iodomethane	142	3.919	3.919	(0.475)	3296784	800.000	870.4(A)
12 Carbon disulfide	76	3.820	3.820	(0.463)	7974209	400.000	359.7
13 Methylene chloride	84	4.402	4.402	(0.533)	3477513	400.000	365.1
14 t-Butanol	59	4.747	4.747	(0.575)	1592532	1600.00	1354(M)

GFB 11/29/01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	15 trans-1,2-Dichloroethene	96	4.668	4.668	(0.565)	3483932	400.000	341.5
	16 Acrylonitrile	53	4.885	4.885	(0.592)	4313466	4000.00	3638
	17 Methyl-tert-butyl ether[MTBE]	73	4.707	4.707	(0.570)	8569203	400.000	345.2
	18 1,1-Dichloroethane (**)	63	5.427	5.427	(0.657)	6693472	400.000	359.1
	19 Vinyl acetate	43	5.526	5.526	(0.669)	16320452	800.000	675.8
	20 Isopropyl ether	45	5.476	5.476	(0.663)	13095244	400.000	341.3
	21 2,2-Dichloropropane	77	6.294	6.294	(0.762)	6825243	400.000	359.3
	22 Tert-butyl ethyl ether	59	6.048	6.048	(0.733)	12455592	400.000	365.6
	23 cis-1,2-Dichloroethene	96	6.383	6.383	(0.773)	4028413	400.000	352.0
	24 2-Butanone	43	6.511	6.511	(0.789)	7174304	2000.00	1766
	25 Bromochloromethane	128	6.787	6.787	(0.822)	2037471	400.000	362.4
	26 Chloroform (*)	83	6.925	6.925	(0.839)	7449327	400.000	348.9
	27 Tetrahydrofuran	42	6.826	6.826	(0.827)	1013711	400.000	330.1
M	28 1,2-Dichloroethene (total)	100				7512345	800.000	693.6
$	29 Dibromofluoromethane	111	7.211	7.211	(0.873)	5422575	400.000	379.4
	30 1,1,1-Trichloroethane	97	7.102	7.102	(0.860)	6927160	400.000	348.5
	31 Carbon Tetrachloride	117	7.300	7.300	(0.884)	5569141	400.000	342.4
	32 1,1-Dichloropropene	75	7.378	7.378	(0.894)	5782521	400.000	328.2
$	33 1,2-Dichloroethane-d4	65	7.792	7.792	(0.944)	4002907	400.000	372.1
	34 1,2-Dichloroethane-d4 2nd	102	7.792	7.792	(0.944)	968609	400.000	367.3
	35 Benzene	78	7.723	7.723	(0.936)	11093738	400.000	345.1
	36 1,2-Dichloroethane	62	7.920	7.920	(0.959)	4412872	400.000	349.2
	37 Tert-amyl methyl ether	73	7.950	7.950	(0.963)	10488170	400.000	336.5
*	38 Fluorobenzene	96	8.255	8.255	(1.000)	1469968	50.0000	
	39 Trichloroethene	130	8.867	8.867	(1.074)	4687838	400.000	349.4
	40 1,2-Dichloropropane(*)	63	9.350	9.350	(1.133)	5139850	400.000	361.5
	41 Dibromomethane	93	9.556	9.556	(1.158)	3248728	400.000	349.6
	42 Bromodichloromethane	83	9.852	9.852	(1.193)	7114981	400.000	361.1
	43 1-Bromo-2-chloroethane	63	10.434	10.434	(1.264)	11514661	400.000	348.2
	44 2-Chloroethylvinyl ether	106	10.473	10.473	(1.269)	1182643	800.000	577.3
	45 cis-1,3-Dichloropropene	75	10.680	10.680	(1.294)	7044692	400.000	353.8
	46 4-Methyl-2-pentanone	43	11.015	11.015	(1.334)	17188710	2000.00	1561
$	47 Toluene-d8	98	11.064	11.064	(0.802)	9415479	400.000	324.6
	48 Toluene (*)	91	11.173	11.173	(0.810)	12406987	400.000	317.3
	49 trans-1,3-Dichloropropene	75	11.774	11.774	(0.854)	6190442	400.000	358.7
	50 1,1,2-Trichloroethane	97	12.089	12.089	(0.876)	3458637	400.000	301.8
	51 Tetrachloroethene	164	12.119	12.119	(0.879)	3568490	400.000	295.1
	52 1,3-Dichloropropane	76	12.395	12.395	(0.899)	6654727	400.000	332.6
	53 2-Hexanone	43	12.582	12.582	(0.912)	13470270	2000.00	1649
	54 Dibromochloromethane	129	12.750	12.750	(0.924)	5190153	400.000	339.2
	55 1,2-Dibromoethane	107	12.947	12.947	(0.939)	4950520	400.000	333.5
*	56 Chlorobenzene-d5	117	13.794	13.794	(1.000)	1183763	50.0000	
	57 Chlorobenzene (**)	112	13.844	13.844	(1.004)	9050484	400.000	329.8
	58 1,1,1,2-Tetrachloroethane	131	14.061	14.061	(1.019)	4125684	400.000	317.9
	59 Ethylbenzene (*)	106	14.041	14.041	(1.018)	4264337	400.000	302.8
	60 m,p-Xylenes	106	14.287	14.287	(1.036)	9986472	800.000	589.4
	61 o-Xylene	106	15.046	15.046	(1.091)	5536765	400.000	322.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	62 Styrene	104	15.115	15.115	(1.096)	8855069	400.000	317.7
M	63 Xylenes (total)	100				15523237	1200.00	912.0
	64 Bromoform (**)	173	15.480	15.480	(1.122)	3999372	400.000	360.8
	65 Isopropylbenzene	105	15.775	15.775	(1.144)	16009302	400.000	308.1
	66 4-Bromofluorobenzene-2nd	174	16.150	16.150	(0.875)	3922755	400.000	373.0
$	67 4-Bromofluorobenzene	95	16.150	16.150	(0.875)	6364305	400.000	377.2
	68 Bromobenzene	156	16.396	16.396	(0.888)	4173227	400.000	369.1
	69 1,1,2,2-Tetrachloroethane(**)	83	16.574	16.574	(0.898)	5694203	400.000	361.5
	70 1,2,3-Trichloropropane	110	16.653	16.653	(0.902)	1424508	400.000	345.3
	71 n-Propylbenzene	91	16.603	16.603	(0.900)	16411884	400.000	335.2
	72 2-Chlorotoluene	126	16.781	16.781	(0.909)	3546535	400.000	350.7
	73 4-Chlorotoluene	126	17.037	17.037	(0.923)	3208146	400.000	333.6
	74 1,3,5-Trimethylbenzene	105	16.998	16.998	(0.921)	11983627	400.000	339.8
	75 tert-Butylbenzene	119	17.599	17.599	(0.954)	12850793	400.000	354.4
	76 1,2,4-Trimethylbenzene	105	17.747	17.747	(0.962)	12324904	400.000	351.9
	77 sec-Butylbenzene	105	18.062	18.062	(0.979)	17655415	400.000	344.8
	78 1,3-Dichlorobenzene	146	18.299	18.299	(0.991)	6497663	400.000	330.9
*	79 1,4-Dichlorobenzene-d4	152	18.456	18.456	(1.000)	556842	50.0000	
	80 1,4-Dichlorobenzene	146	18.515	18.515	(1.003)	6740294	400.000	336.4
	81 p-Isopropyltoluene	119	18.377	18.377	(0.996)	12468468	400.000	320.6
	82 1,2-Dichlorobenzene	146	19.255	19.255	(1.043)	5854707	400.000	323.9
	83 n-Butylbenzene	91	19.205	19.205	(1.041)	14554933	400.000	346.5
	84 1,2-Dibromo-3-chloropropane	157	20.920	20.920	(1.134)	1747423	400.000	449.6(A)
	85 1,2,4-Trichlorobenzene	180	22.566	22.566	(1.223)	5644160	400.000	359.3
	86 Hexachlorobutadiene	225	22.842	22.842	(1.238)	3543614	400.000	350.1
	87 Naphthalene	128	23.029	23.029	(1.248)	10089545	400.000	351.0
	88 1,2,3-Trichlorobenzene	180	23.414	23.414	(1.269)	4601999	400.000	344.3(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

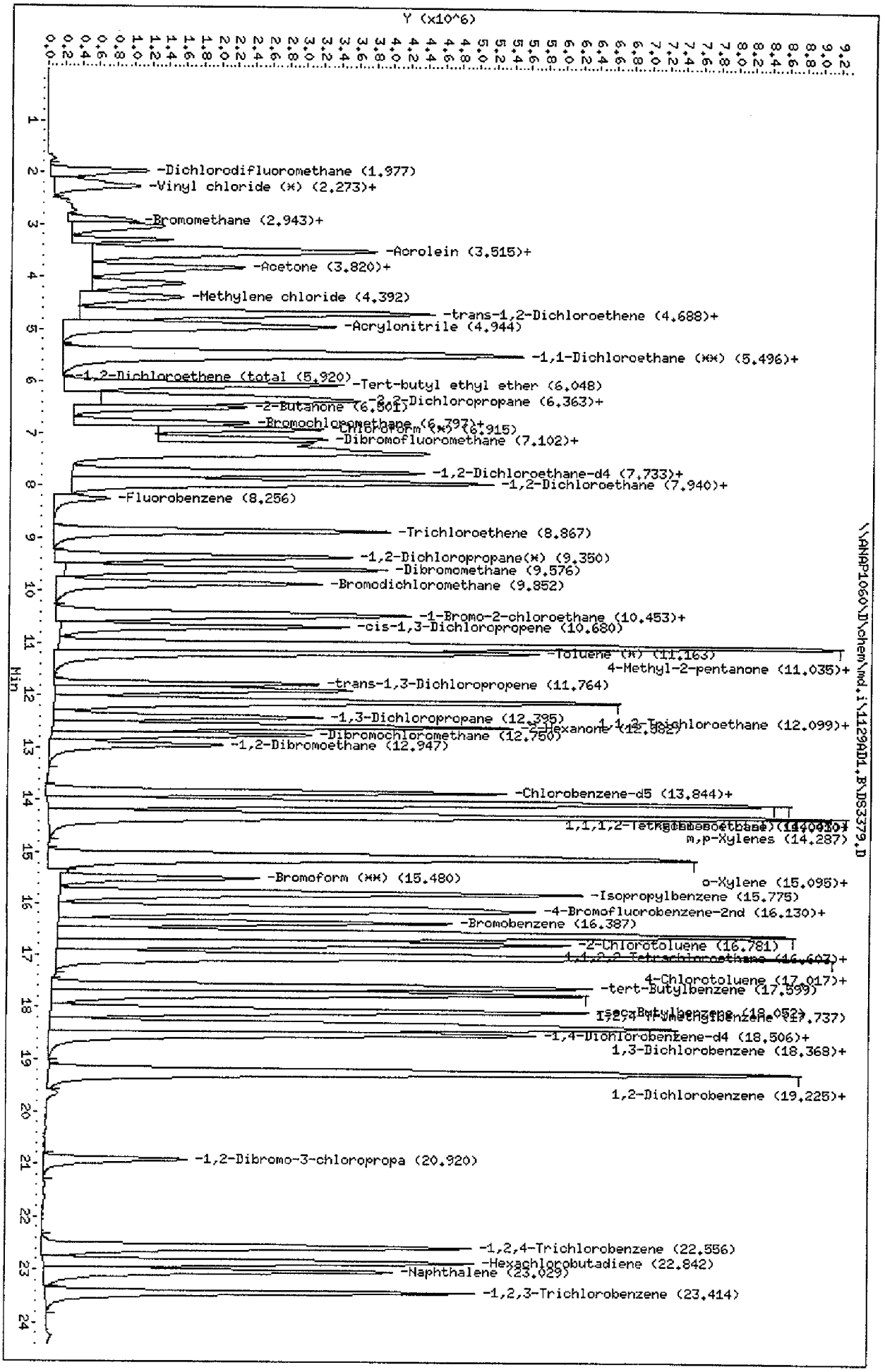
Data File: \\ANAP1060\D\chem\md.i\1129AD1.B\DS3379.D
Date : 29-NOV-2001 12:25
Client ID:
Sample Info: 400ppb 8260B STD,,,5.0,,,8260BDA.M

Column phase: J&W DB-624

Instrument: md.i

Operator: CFB

Column diameter: 0.53



SEVERN
TRENT
SERVICES

8260B Sample / QC Data

Date Analyzed / QC Batch: PM 12.21.01 / 1360257

STL Los Angeles

FSK 12/27/01

Batch ID: 1360259 (Encore)
1360257 (5030B)

GC/MS VOA Run Log

QC Sand 7062 T27581

☐ EPA 524.2 ☐ EPA 624 ☑ SW8260B [SOP: CORP-MS-0002 Rev 2] ☑ 5030B ☑ 5035

Inst ID: MSD | EM Set: 1706 | Tune File: BFB | Seq File: 1221BD1

Init. Cal ID: 8260 BDA 11-29-01 | Date: 12-21-01 PM

Inj. Time	Analyst	File ID	Work Order #	AS #	Matrix	Sample Wt/Vol	Dil.	I.S.	Run	Rerun	pH	Comments
13:14	GFB	DT2220	BFB Tune 50ng	—	—	1ul	—	56	✓			1732-1
13:29		DS3397	50ppb 8260B STD	1	S	5g	1	173	✓			1749-2; 43-2; 43-1
14:14		D20244	LCS 1221BD	2	↓	↓	↓	142	✓			1753-2
14:44		45	MB 1221BD	3				164	✓			
15:14		46	MB 1221EN	4	Encore			60	Low Force	✓		
15:44		47	LCS 1221EN	5				165	✓			1753-2
16:15		48	LCSD 1221EN	6				168	✓			↓
16:47		49	MB 1221EN	7				171	✓			
17:18		50	EQXC11AA	8		4.95	1.01	164	✓			EIL210160-1
17:48		51	EQXDC1AA	9		5.63	.888	164	✓			-2
18:18		52	EQXDE1AA	10		5.25	.952	160	✓			-3
18:48		53	EQXD71AA	11		5.16	.969	154	✓			-4
19:18		54	EQWL41AA	12	S	5g	1	151	✓			EIL200353-6
19:48		55	EQWL61AA	13				156	✓			-7
20:19		56	EQWL41AC S	14				152	✓ MX			-6S 1753-2
20:49	↓	57	EQWL41AD D	15	↓	↓	↓	155	✓			-6D ↓

BOE-C6-0000557

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA82845

Lab File ID (Standard): DS3397 Date Analyzed: 12/21/01

Instrument ID: MD Time Analyzed: 1329

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

		IS1 AREA #	RT	IS2 (CBZ) AREA #	RT	IS3 (DCB) AREA #	RT
	12 HOUR STD	1731442	8.24	1407217	13.75	807389	18.43
	UPPER LIMIT	3462884	8.74	2814434	14.25	1614778	18.93
	LOWER LIMIT	865721	7.74	703609	13.25	403695	17.93
	EPA SAMPLE NO.						
01	D20244	1422861	8.24	1093062	13.77	574264	18.41
02	D20245	1638143	8.23	1389853	13.76	818655	18.40
03	D20246	602287*	8.24	428047*	13.75	205926*	18.41
04	D20247	1654564	8.23	1383109	13.76	819167	18.41
05	D20248	1678383	8.23	1388406	13.76	822580	18.41
06	D20249	1710627	8.24	1473583	13.76	886655	18.41
07	D20250	1639596	8.23	1415627	13.76	876643	18.41
08	D20251	1643475	8.24	1436168	13.76	872407	18.41
09	D20252	1603965	8.25	1388736	13.75	835570	18.41
10	D20253	1535149	8.24	1348043	13.75	816818	18.41
11	D20254	1510170	8.23	1325901	13.75	812348	18.40
12	D20255	1556966	8.23	1352257	13.76	851198	18.41
13	D20256	1524373	8.23	1311768	13.76	791795	18.41
14	D20257	1545944	8.23	1323777	13.76	792629	18.43
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

FORM VIII VOA 1/87 Rev.

STL Los Angeles Calibration Internal Standard Area Check

CCV File : \\ANAP1060\D\CHEM\MD.I\1221BD1.B/DS3397.D
Inj. Date : 21-DEC-2001 13:29

ICAL Mid Point : //ANAP1060/D/chem/md.i/1129AD1.B/DS3375.D
Inj. Date : 29-NOV-2001 09:56

IS NAME	ICAL RT	CCV RT	DIFF.	ICAL AREA	CCV AREA	%DIFF.
Fluorobenzene	8.27	8.24	0.03	1811396	1731442	95.6%
Chlorobenzene-d5	13.79	13.75	0.04	1432611	1407217	98.2%
1,4-Dichlorobenzene-d4	18.45	18.43	0.02	812058	807389	99.4%

8260B Area difference criteria: 50%-200%

STL Los Angeles

Data file : \\ANAP1060\D\CHEM\MD.I\1221BD1.B\DT2220.D
Lab Smp Id:
Inj Date : 21-DEC-2001 13:14
Operator : GFB Inst ID: md.i
Smp Info : BFB Tune 50 ng,bfb,,,,,,bfb.m
Misc Info : 1732-1,,,,3,all.sub
Comment :
Method : \\ANAP1060\D\CHEM\MD.I\1221BD1.B\BFB.M
Meth Date : 17-May-2001 10:06 Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.00 Sample Matrix: WATER
Processing Host: ANAP1060

Concentration Formula: Amt * DF * Uf * Vf * VI

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
2.1751	2.0000	(0.000)	95	56018			0.00- 100.00	100.00
2.1751	2.0000	(0.000)	50	11349			15.00- 40.00	20.26
2.1751	2.0000	(0.000)	75	28458			30.00- 60.00	50.80
2.1751	2.0000	(0.000)	96	4257			5.00- 9.00	7.60
2.1751	2.0000	(0.000)	173	0			0.00- 2.00	0.00
2.1751	2.0000	(0.000)	174	34861			50.00- 0.00	62.23
2.1751	2.0000	(0.000)	175	2823			5.00- 9.00	8.10
2.1751	2.0000	(0.000)	176	33877			95.00- 101.00	97.18
2.1751	2.0000	(0.000)	177	2654			5.00- 9.00	7.83

GFB 12/20/01

Data File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\DT2220.D

Date : 21-DEC-2001 13:14

Client ID:

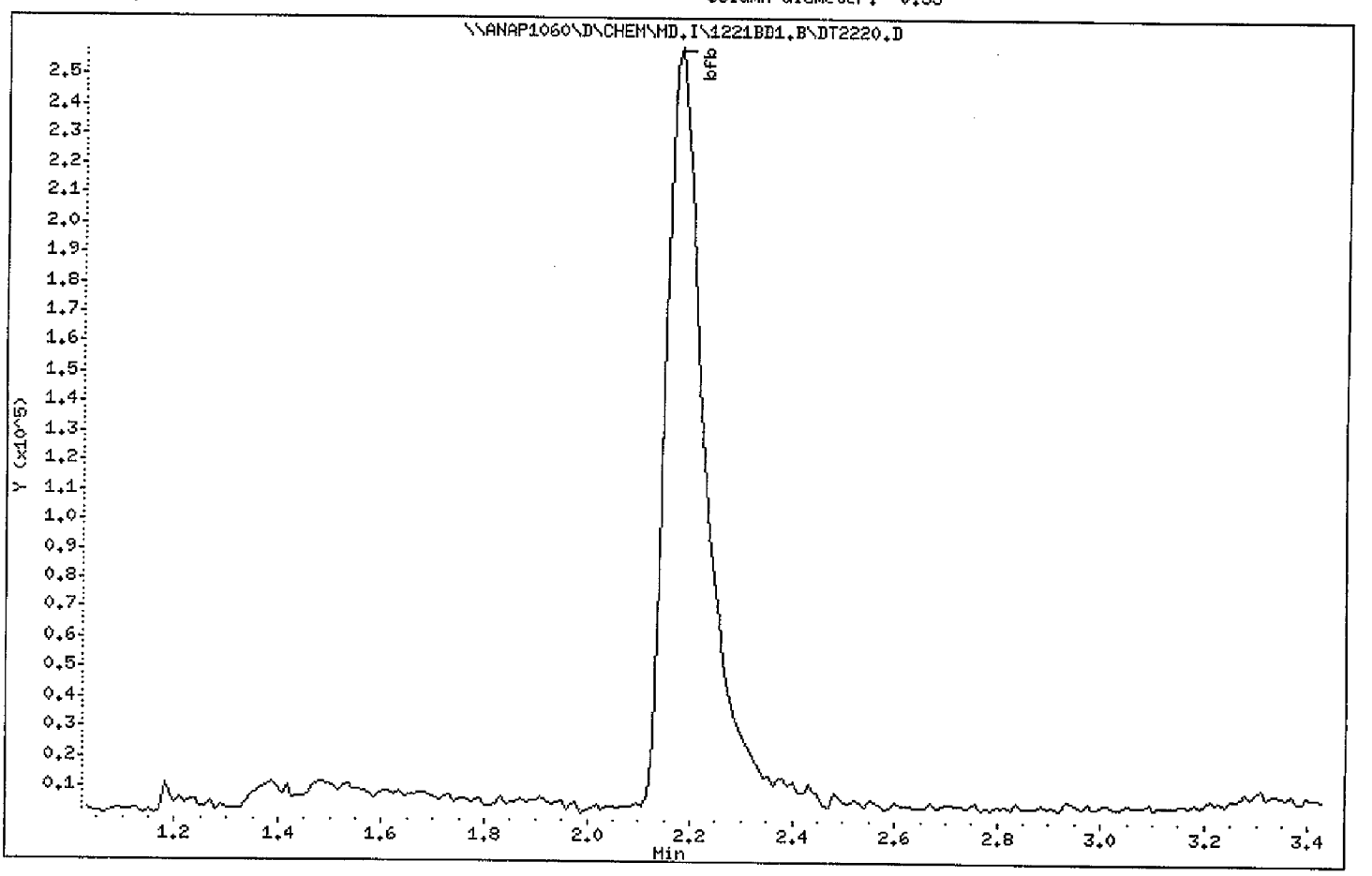
Instrument: md.i

Sample Info: BFB Tune 50 ng,bfb,,,,,,bfb.m

Operator: GFB

Column phase: J&W DB-624

Column diameter: 0.53



Data File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\DT2220.D

Date : 21-DEC-2001 13:14

Client ID:

Instrument: md.i

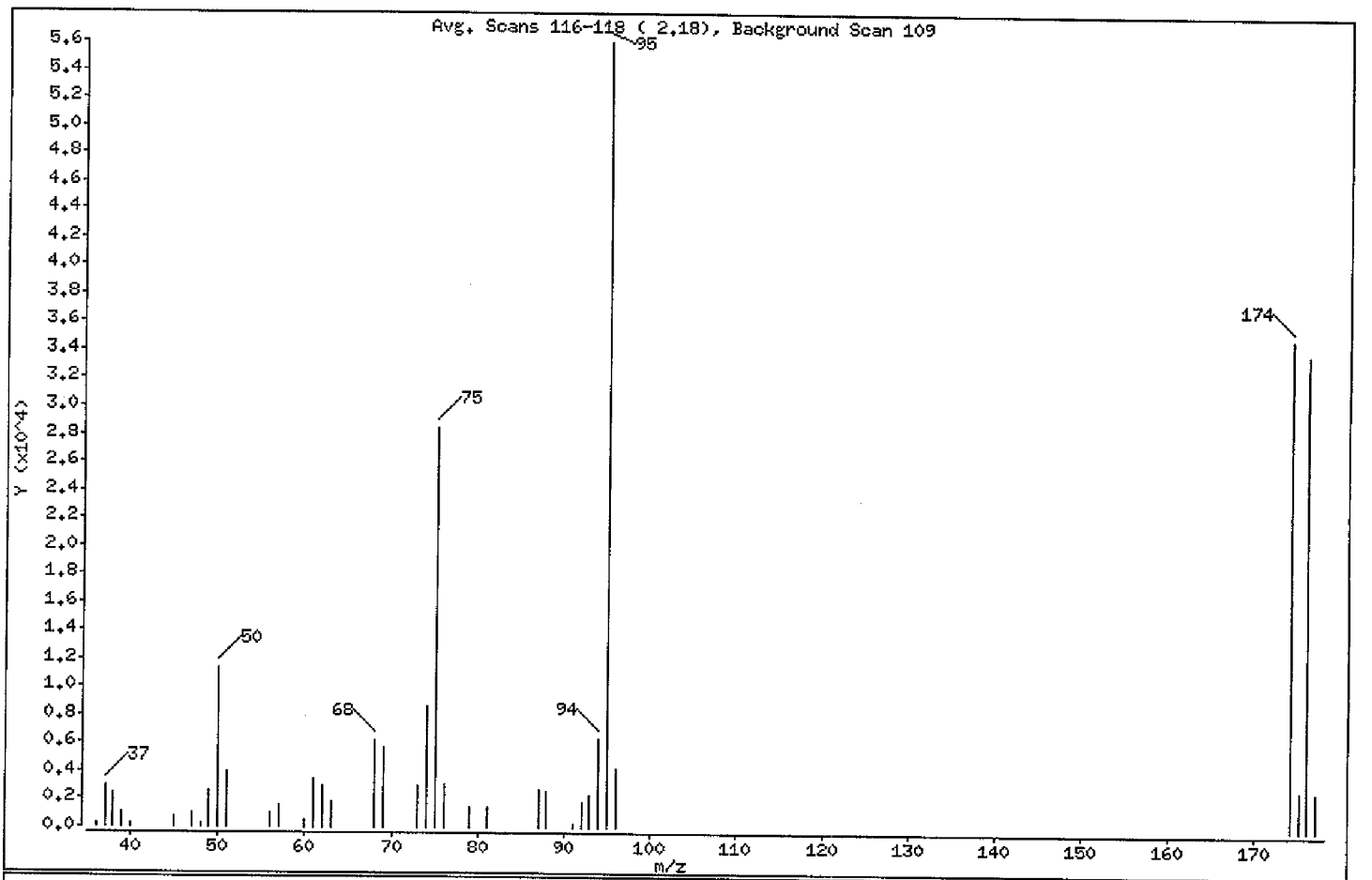
Sample Info: BFB Tune 50 ng,bfb,,,,,,bfb.m

Operator: CFB

Column phase: J&W DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.26
75	30.00 - 60.00% of mass 95	50.80
96	5.00 - 9.00% of mass 95	7.60
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	62.23
175	5.00 - 9.00% of mass 174	5.04 (8.10)
176	95.00 - 101.00% of mass 174	60.48 (97.18)
177	5.00 - 9.00% of mass 176	4.74 (7.83)

CFB 12/26/01

Data File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\DT2220.D

Date : 21-DEC-2001 13:14

Client ID:

Instrument: md.i

Sample Info: BFB Tune 50 ng,bfb,,,,,,bfb.m

Operator: GFB

Column phase: J&W DB-624

Column diameter: 0.53

Data File: DT2220.D

Spectrum: Avg. Scans 116-118 (2.18), Background Scan 109

Location of Maximum: 95.00

Number of points: 37

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	269	51.00	4010	74.00	8630	94.00	6368
37.00	2915	56.00	1068	75.00	28456	95.00	56016
38.00	2450	57.00	1544	76.00	3129	96.00	4257
39.00	1082	60.00	560	79.00	1406	174.00	34856
40.00	253	61.00	3420	81.00	1375	175.00	2823
45.00	780	62.00	2898	87.00	2735	176.00	33872
47.00	1049	63.00	1866	88.00	2533	177.00	2654
48.00	312	68.00	6123	91.00	237		
49.00	2630	69.00	5619	92.00	1774		
50.00	11349	73.00	3014	93.00	2340		

STL Los Angeles

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: md.i
Lab File ID: DS3397.D
Analysis Type: SOIL
Lab Sample ID: 50ppb 8260B STD
Method: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m

Injection Date: 21-DEC-2001 13:29
Init. Cal. Date(s): 29-NOV-2001 29-NOV-2001
Init. Cal. Times: 09:56 12:25
Quant Type: ISTD

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	1 Dichlorodifluoromethane	0.44126	0.45686	0.010	3.5	50.0	
	2 Vinyl chloride (*)	0.30218	0.33803	0.010	11.9	20.0	
	3 Chloromethane (**)	0.19922	0.23827	0.100	19.6	50.0	
	4 Bromomethane	0.06191	0.11112	0.010	79.5	50.0	<-
	5 Chloroethane	0.16373	0.20896	0.010	27.6	50.0	
	6 Trichlorofluoromethane	0.58922	0.66669	0.010	13.1	50.0	
	7 Acrolein	0.00560	0.01118	0.001	99.6	50.0	<-
	8 1,1-Dichloroethene(*)	0.28976	0.31731	0.010	9.5	20.0	
	9 1,1,2-Trichlorotrifluoroeth	0.38593	0.43431	0.010	12.5	50.0	
	10 Acetone	0.05787	0.05556	0.010	-4.0	50.0	
	11 Iodomethane	0.12883	0.32249	0.001	150.3	50.0	<-
	12 Carbon disulfide	0.75413	0.83872	0.010	11.2	50.0	
	13 Methylene chloride	0.32397	0.33574	0.010	3.6	50.0	
	14 t-Butanol	0.04001	0.04330	0.001	8.2	20.0	
	15 trans-1,2-Dichloroethene	0.34698	0.36584	0.010	5.4	50.0	
	16 Acrylonitrile	0.04032	0.09509	0.001	135.8	20.0	<-
	17 Methyl-tert-butyl ether[MTB	0.84444	0.88050	0.010	4.3	50.0	
	18 1,1-Dichloroethane (**)	0.63400	0.67382	0.100	6.3	50.0	
	19 Vinyl acetate	0.82142	0.87323	0.010	6.3	50.0	
	20 Isopropyl ether	1.30515	1.38860	0.010	6.4	20.0	
	21 2,2-Dichloropropane	0.64620	0.67663	0.010	4.7	50.0	
	22 Tert-butyl ethyl ether	1.15886	1.17572	0.010	1.5	20.0	
	23 cis-1,2-Dichloroethene	0.38922	0.40444	0.010	3.9	50.0	
	24 2-Butanone	0.13822	0.13710	0.010	-0.8	50.0	
	25 Bromochloromethane	0.19123	0.20234	0.010	5.8	50.0	
	26 Chloroform (*)	0.72628	0.75987	0.010	4.6	20.0	
	27 Tetrahydrofuran	0.10447	0.10777	0.010	3.2	50.0	
M	28 1,2-Dichloroethene (total)	0.36810	0.38514	0.010	4.6	50.0	
$	29 Dibromofluoromethane	0.48621	0.42170	0.010	-13.3	50.0	
	30 1,1,1-Trichloroethane	0.67604	0.70362	0.010	4.1	50.0	
	31 Carbon Tetrachloride	0.55328	0.56755	0.010	2.6	50.0	
	32 1,1-Dichloropropene	0.59925	0.63735	0.010	6.4	50.0	
$	33 1,2-Dichloroethane-d4	0.36595	0.32063	0.010	-12.4	50.0	
	34 1,2-Dichloroethane-d4 2nd	0.08969	0.08821	0.010	-1.7	50.0	
	35 Benzene	1.09347	1.16199	0.010	6.3	50.0	

GFB 12/26/01

STL Los Angeles

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: md.i
Lab File ID: DS3397.D
Analysis Type: SOIL
Lab Sample ID: 50ppb 8260B STD Quant Type: ISTD
Method: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m

Injection Date: 21-DEC-2001 13:29
Init. Cal. Date(s): 29-NOV-2001 29-NOV-2001
Init. Cal. Times: 09:56 12:25

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	36 1,2-Dichloroethane	0.42978	0.45131	0.010	5.0	50.0	
	37 Tert-amyl methyl ether	1.06017	1.09584	0.010	3.4	20.0	
	39 Trichloroethene	0.45634	0.47893	0.010	4.9	50.0	
	40 1,2-Dichloropropane(*)	0.48366	0.49566	0.010	2.5	20.0	
	41 Dibromomethane	0.31608	0.33189	0.010	5.0	50.0	
	42 Bromodichloromethane	0.67019	0.68091	0.010	1.6	50.0	
	43 1-Bromo-2-chloroethane	1.12469	0.88974	0.010	-20.9	50.0	
	44 2-Chloroethylvinyl ether	0.06968	0.02541	0.010	-63.5	20.0	<-
	45 cis-1,3-Dichloropropene	0.67717	0.69796	0.010	3.1	50.0	
	46 4-Methyl-2-pentanone	0.37446	0.36947	0.010	-1.3	50.0	
$	47 Toluene-d8	1.22530	1.06332	0.010	-13.2	50.0	
	48 Toluene (*)	1.65140	1.67461	0.010	1.4	20.0	
	49 trans-1,3-Dichloropropene	0.72897	0.72795	0.010	-0.1	50.0	
	50 1,1,2-Trichloroethane	0.48397	0.46659	0.010	-3.6	50.0	
	51 Tetrachloroethene	0.51073	0.51465	0.010	0.8	50.0	
	52 1,3-Dichloropropane	0.84512	0.83198	0.010	-1.6	50.0	
	53 2-Hexanone	0.34510	0.32543	0.010	-5.7	50.0	
	54 Dibromochloromethane	0.64627	0.65354	0.010	1.1	50.0	
	55 1,2-Dibromoethane	0.62693	0.62035	0.010	-1.1	50.0	
	57 Chlorobenzene (**)	1.15924	1.15517	0.300	-0.4	50.0	
	58 1,1,1,2-Tetrachloroethane	0.54817	0.55650	0.010	1.5	50.0	
	59 Ethylbenzene (*)	0.59488	0.58491	0.010	-1.7	20.0	
	60 m,p-Xylenes	0.71566	0.70323	0.010	-1.7	50.0	
	61 o-Xylene	0.72503	0.74107	0.010	2.2	50.0	
	62 Styrene	1.17736	1.19673	0.010	1.6	50.0	
M	63 Xylenes (total)	0.71878	0.71584	0.010	-0.4	50.0	
	64 Bromoform (**)	0.46823	0.48702	0.100	4.0	50.0	
	65 Isopropylbenzene	2.19453	2.19994	0.010	0.2	50.0	
	66 4-Bromofluorobenzene-2nd	0.94434	0.80557	0.010	-14.7	50.0	
$	67 4-Bromofluorobenzene	1.51481	1.27388	0.010	-15.9	50.0	
	68 Bromobenzene	1.01518	0.96777	0.010	-4.7	50.0	
	69 1,1,2,2-Tetrachloroethane(*	1.41436	1.42659	0.300	0.9	50.0	
	70 1,2,3-Trichloropropane	0.37046	0.37134	0.010	0.2	50.0	
	71 n-Propylbenzene	4.39609	4.23358	0.010	-3.7	50.0	
	72 2-Chlorotoluene	0.90805	0.86987	0.010	-4.2	50.0	
	73 4-Chlorotoluene	0.86352	0.84909	0.010	-1.7	50.0	

STL Los Angeles

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: md.i
Lab File ID: DS3397.D
Analysis Type: SOIL
Lab Sample ID: 50ppb 8260B STD Quant Type: ISTD
Method: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m

Injection Date: 21-DEC-2001 13:29
Init. Cal. Date(s): 29-NOV-2001 29-NOV-2001
Init. Cal. Times: 09:56 12:25

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
74 1,3,5-Trimethylbenzene	3.16635	2.99147	0.010	-5.5	50.0
75 tert-Butylbenzene	3.25568	3.16367	0.010	-2.8	50.0
76 1,2,4-Trimethylbenzene	3.14494	3.00255	0.010	-4.5	50.0
77 sec-Butylbenzene	4.59823	4.38653	0.010	-4.6	50.0
78 1,3-Dichlorobenzene	1.76326	1.67953	0.010	-4.7	50.0
80 1,4-Dichlorobenzene	1.79903	1.73356	0.010	-3.6	50.0
81 p-Isopropyltoluene	3.49220	3.39315	0.010	-2.8	50.0
82 1,2-Dichlorobenzene	1.62307	1.57183	0.010	-3.2	50.0
83 n-Butylbenzene	3.77155	3.64267	0.010	-3.4	50.0
84 1,2-Dibromo-3-chloropropane	0.34896	0.35430	0.010	1.5	50.0
85 1,2,4-Trichlorobenzene	1.41043	1.35817	0.010	-3.7	50.0
86 Hexachlorobutadiene	0.90875	0.84938	0.010	-6.5	50.0
87 Naphthalene	2.58065	2.53683	0.010	-1.7	50.0
88 1,2,3-Trichlorobenzene	1.20006	1.14201	0.010	-4.8	50.0

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: DS3397.D
Lab Smp Id: 50ppb 8260B STD
Analysis Type: VOA
Quant Type: ISTD
Operator: GFB
Method File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m
Misc Info: 1749-2;43-2;43-1,,5,,2,all.SUB

Calibration Date: 21-DEC-2001
Calibration Time: 13:29

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	1731442	865721	3462884	1731442	0.00
56 Chlorobenzene-d5	1407217	703609	2814434	1407217	0.00
79 1,4-Dichlorobenze	807389	403695	1614778	807389	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	8.24	7.74	8.74	8.24	0.00
56 Chlorobenzene-d5	13.75	13.25	14.25	13.75	0.00
79 1,4-Dichlorobenze	18.43	17.93	18.93	18.43	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\ANAP1060\D\chem\md.i\1221BD1.B\DS3397.D
Lab Smp Id: 50ppb 8260B STD
Inj Date : 21-DEC-2001 13:29
Operator : GFB Inst ID: md.i
Smp Info : 50ppb 8260B STD,,,3,0,,,8260BDA.M
Misc Info : 1749-2;43-2;43-1,,5,,2,all.SUB
Comment :
Method : \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m
Meth Date : 21-Dec-2001 13:53 beckmang Quant Type: ISTD
Cal Date : 29-NOV-2001 12:25 Cal File: DS3379.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.SUB
Target Version: 4.00
Processing Host: ANAP1060

Concentration Formula: Amt * DF * Uf * (Vp/(Ws *(100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	1.969	1.969	(0.239)	791029	50.0000	51.77
2 Vinyl chloride (*)	62	2.255	2.255	(0.274)	585282	50.0000	55.93
3 Chloromethane (**)	50	2.176	2.176	(0.264)	412545	50.0000	59.80
4 Bromomethane	94	2.669	2.669	(0.324)	192398	50.0000	89.74(M)
5 Chloroethane	64	2.728	2.728	(0.331)	361809	50.0000	63.81(Q)
6 Trichlorofluoromethane	101	2.906	2.906	(0.353)	1154340	50.0000	56.57
7 Acrolein	56	3.517	3.517	(0.427)	193606	500.000	998.1
8 1,1-Dichloroethene(*)	96	3.556	3.556	(0.432)	549398	50.0000	54.75
9 1,1,2-Trichlorotrifluoroethan	151	3.507	3.507	(0.426)	751989	50.0000	56.27
10 Acetone	43	3.743	3.743	(0.454)	481018	250.000	240.0
11 Iodomethane	142	3.783	3.783	(0.459)	1116728	100.000	250.3
12 Carbon disulfide	76	3.822	3.822	(0.464)	1452197	50.0000	55.61
13 Methylene chloride	84	4.344	4.344	(0.527)	581317	50.0000	51.82
14 t-Butanol	59	4.581	4.581	(0.556)	299869	200.000	216.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	15 trans-1,2-Dichloroethene	96	4.650	4.650	(0.564)	633425	50.0000	52.72
	16 Acrylonitrile	53	4.827	4.827	(0.586)	1646455	500.000	1179
	17 Methyl-tert-butyl ether[MTBE]	73	4.660	4.660	(0.566)	1524527	50.0000	52.14
	18 1,1-Dichloroethane (**)	63	5.389	5.389	(0.654)	1166688	50.0000	53.14
	19 Vinyl acetate	43	5.488	5.488	(0.666)	3023911	100.000	106.3
	20 Isopropyl ether	45	5.419	5.419	(0.658)	2404283	50.0000	53.20
	21 2,2-Dichloropropane	77	6.276	6.276	(0.762)	1171538	50.0000	52.35
	22 Tert-butyl ethyl ether	59	6.010	6.010	(0.730)	2035690	50.0000	50.73
	23 cis-1,2-Dichloroethene	96	6.345	6.345	(0.770)	700272	50.0000	51.96
	24 2-Butanone	43	6.454	6.454	(0.783)	1186885	250.000	248.0
	25 Bromochloromethane	128	6.749	6.749	(0.819)	350337	50.0000	52.90
	26 Chloroform (*)	83	6.887	6.887	(0.836)	1315663	50.0000	52.31
	27 Tetrahydrofuran	42	6.779	6.779	(0.823)	186593	50.0000	51.58
M	28 1,2-Dichloroethene (total)	100				1333697	100.000	104.7
$	29 Dibromofluoromethane	111	7.173	7.173	(0.871)	730147	50.0000	43.37
	30 1,1,1-Trichloroethane	97	7.084	7.084	(0.860)	1218282	50.0000	52.04
	31 Carbon Tetrachloride	117	7.281	7.281	(0.884)	982681	50.0000	51.29
	32 1,1-Dichloropropene	75	7.360	7.360	(0.894)	1103526	50.0000	53.18
$	33 1,2-Dichloroethane-d4	65	7.755	7.755	(0.941)	555155	50.0000	43.81
	34 1,2-Dichloroethane-d4 2nd	102	7.755	7.755	(0.941)	152736	50.0000	49.17
	35 Benzene	78	7.695	7.695	(0.934)	2011912	50.0000	53.13
	36 1,2-Dichloroethane	62	7.883	7.883	(0.957)	781424	50.0000	52.50
	37 Tert-amyl methyl ether	73	7.912	7.912	(0.961)	1897375	50.0000	51.68
*	38 Fluorobenzene	96	8.237	8.237	(1.000)	1731442	50.0000	
	39 Trichloroethene	130	8.839	8.839	(1.073)	829240	50.0000	52.47
	40 1,2-Dichloropropane(*)	63	9.322	9.322	(1.132)	858202	50.0000	51.24
	41 Dibromomethane	93	9.519	9.519	(1.156)	574651	50.0000	52.50
	42 Bromodichloromethane	83	9.824	9.824	(1.193)	1178953	50.0000	50.80
	43 1-Bromo-2-chloroethane	63	10.386	10.386	(1.261)	1540534	50.0000	39.55
	44 2-Chloroethylvinyl ether	106	10.425	10.425	(1.266)	88008	100.000	36.47(Q)
	45 cis-1,3-Dichloropropene	75	10.642	10.642	(1.292)	1208483	50.0000	51.54
	46 4-Methyl-2-pentanone	43	10.967	10.967	(1.331)	3198597	250.000	246.7
$	47 Toluene-d8	98	11.017	11.017	(0.801)	1496321	50.0000	43.39
	48 Toluene (*)	91	11.135	11.135	(0.810)	2356538	50.0000	50.70
	49 trans-1,3-Dichloropropene	75	11.726	11.726	(0.853)	1024388	50.0000	49.93
	50 1,1,2-Trichloroethane	97	12.061	12.061	(0.877)	656591	50.0000	48.20
	51 Tetrachloroethene	164	12.071	12.071	(0.878)	724229	50.0000	50.38
	52 1,3-Dichloropropane	76	12.367	12.367	(0.900)	1170778	50.0000	49.22
	53 2-Hexanone	43	12.535	12.535	(0.912)	2289761	250.000	235.8
	54 Dibromochloromethane	129	12.712	12.712	(0.925)	919671	50.0000	50.56
	55 1,2-Dibromoethane	107	12.909	12.909	(0.939)	872962	50.0000	49.47
*	56 Chlorobenzene-d5	117	13.747	13.747	(1.000)	1407217	50.0000	
	57 Chlorobenzene (**)	112	13.816	13.816	(1.005)	1625574	50.0000	49.82
	58 1,1,1,2-Tetrachloroethane	131	14.013	14.013	(1.019)	783113	50.0000	50.76
	59 Ethylbenzene (*)	106	14.003	14.003	(1.019)	823091	50.0000	49.16
	60 m,p-Xylenes	106	14.240	14.240	(1.036)	1979185	100.000	98.26
	61 o-Xylene	106	15.018	15.018	(1.092)	1042843	50.0000	51.11

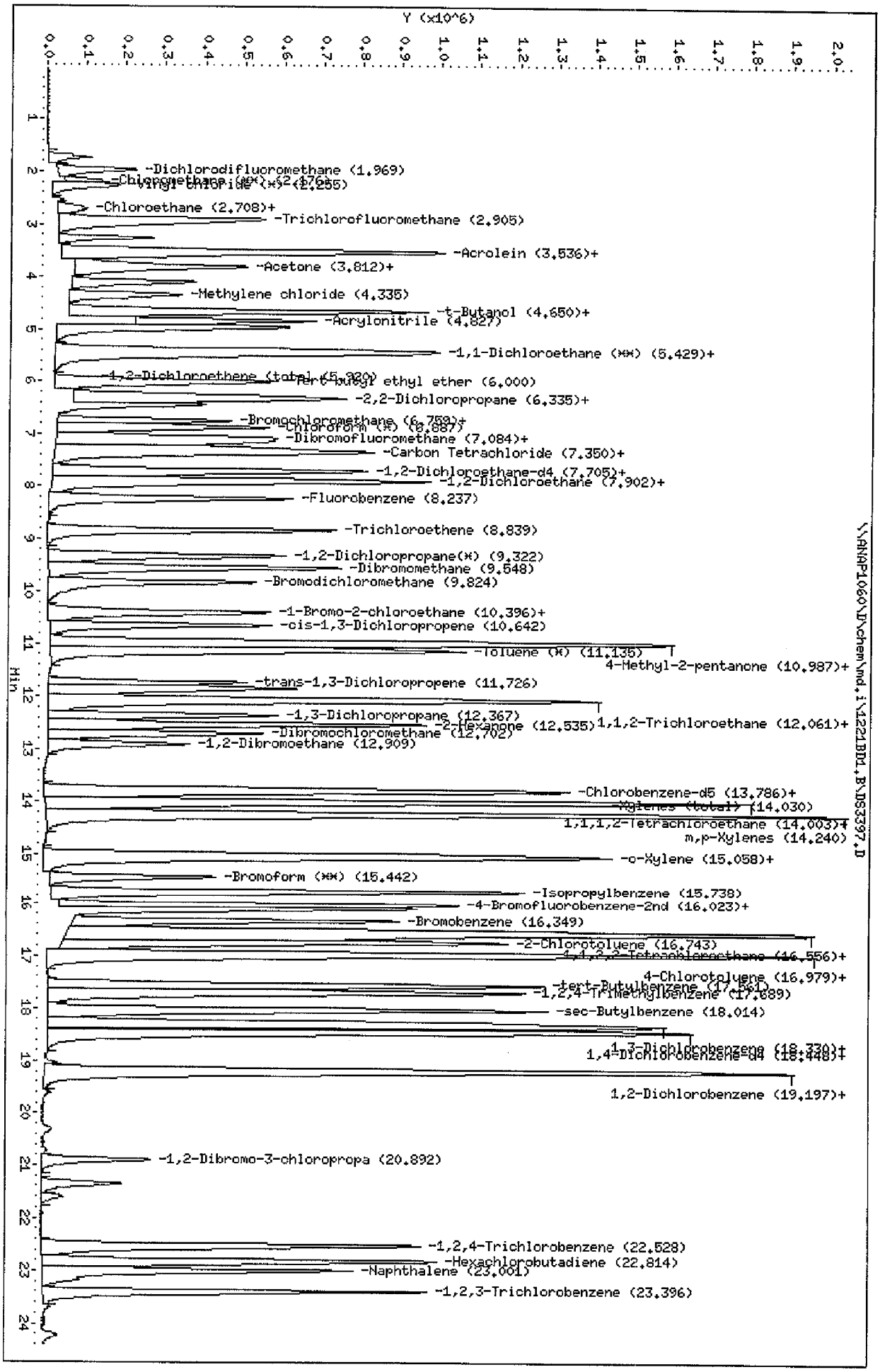
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)	
	62 Styrene	104	15.067	15.067	(1.096)	1684062	50.0000	50.82	
M	63 Xylenes (total)	100				3022029	150.000	149.4	
	64 Bromoform (**)	173	15.442	15.442	(1.123)	685340	50.0000	52.00	
	65 Isopropylbenzene	105	15.738	15.738	(1.145)	3095794	50.0000	50.12	
	66 4-Bromofluorobenzene-2nd	174	16.122	16.122	(0.875)	650405	50.0000	42.65	
$	67 4-Bromofluorobenzene	95	16.102	16.102	(0.874)	1028517	50.0000	42.05	
	68 Bromobenzene	156	16.349	16.349	(0.887)	781370	50.0000	47.66	
	69 1,1,2,2-Tetrachloroethane(**)	83	16.526	16.526	(0.897)	1151811	50.0000	50.43	
	70 1,2,3-Trichloropropane	110	16.595	16.595	(0.901)	299818	50.0000	50.12	
	71 n-Propylbenzene	91	16.556	16.556	(0.898)	3418151	50.0000	48.15	
	72 2-Chlorotoluene	126	16.743	16.743	(0.909)	702325	50.0000	47.90	
	73 4-Chlorotoluene	126	16.989	16.989	(0.922)	685542	50.0000	49.16	
	74 1,3,5-Trimethylbenzene	105	16.950	16.950	(0.920)	2415283	50.0000	47.24	
	75 tert-Butylbenzene	119	17.561	17.561	(0.953)	2554316	50.0000	48.59	
	76 1,2,4-Trimethylbenzene	105	17.699	17.699	(0.960)	2424225	50.0000	47.74	
	77 sec-Butylbenzene	105	18.024	18.024	(0.978)	3541640	50.0000	47.70	
	78 1,3-Dichlorobenzene	146	18.251	18.251	(0.990)	1356035	50.0000	47.62	
*	79 1,4-Dichlorobenzene-d4	152	18.428	18.428	(1.000)	807389	50.0000		(Q)
	80 1,4-Dichlorobenzene	146	18.468	18.468	(1.002)	1399655	50.0000	48.18	
	81 p-Isopropyltoluene	119	18.349	18.349	(0.996)	2739592	50.0000	48.58	
	82 1,2-Dichlorobenzene	146	19.217	19.217	(1.043)	1269080	50.0000	48.42	
	83 n-Butylbenzene	91	19.177	19.177	(1.041)	2941051	50.0000	48.29	
	84 1,2-Dibromo-3-chloropropane	157	20.902	20.902	(1.134)	286057	50.0000	50.76	
	85 1,2,4-Trichlorobenzene	180	22.528	22.528	(1.222)	1096572	50.0000	48.15	
	86 Hexachlorobutadiene	225	22.814	22.814	(1.238)	685781	50.0000	46.73	
	87 Naphthalene	128	23.001	23.001	(1.248)	2048211	50.0000	49.15	
	88 1,2,3-Trichlorobenzene	180	23.396	23.396	(1.270)	922045	50.0000	47.58	

QC Flag Legend

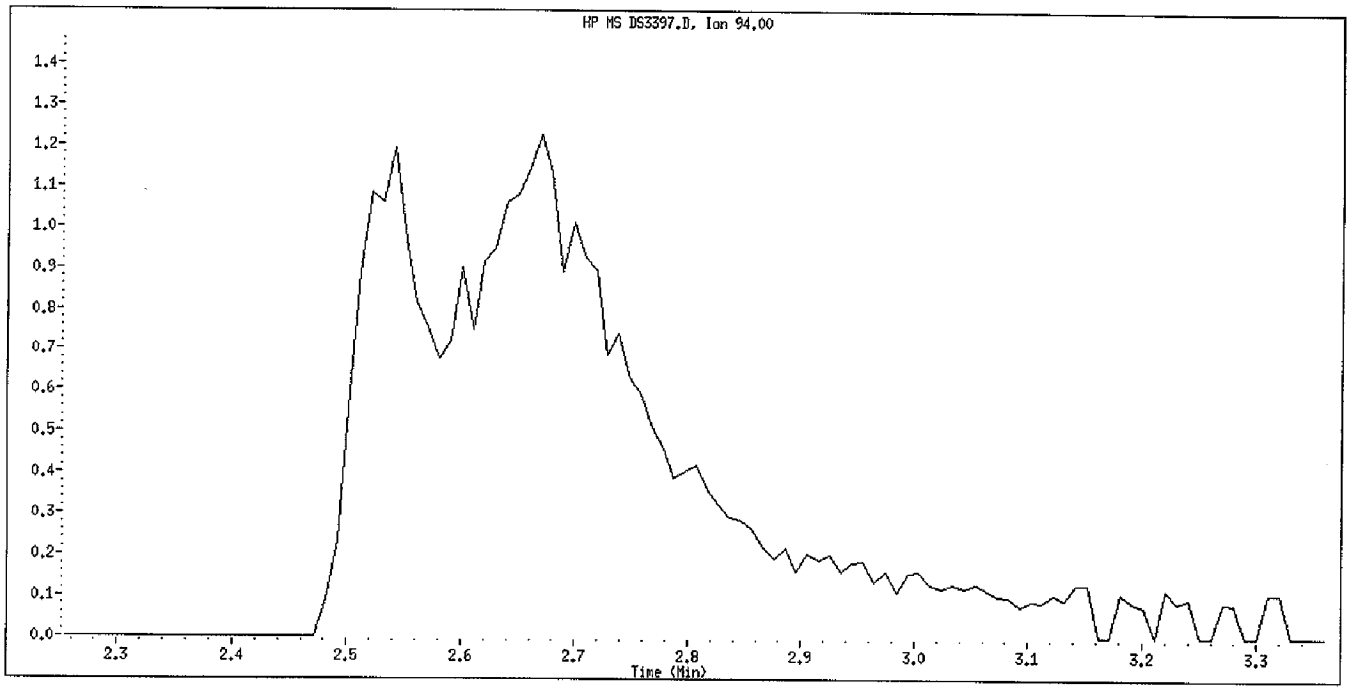
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\ANAP1060\D\chem\md.i\1221BD1.B\DS3397.D
Date : 21-DEC-2001 13:29
Client ID:
Sample Info: 50ppb 8260B STD,,3,0,,,8260BDA.M
Column phase: J&W DB-624

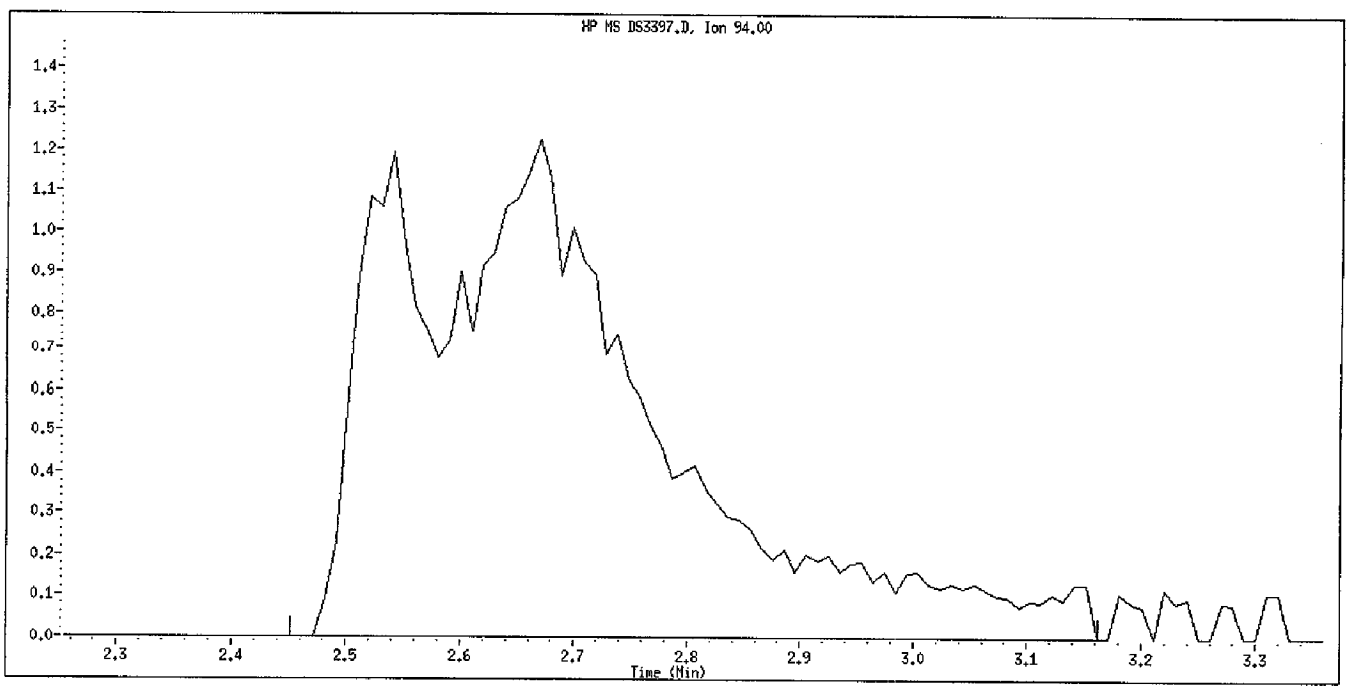
Instrument: md.i
Operator: GFB
Column diameter: 0.53



Data File Name: DS3397.D
Inj. Date and Time: 21-DEC-2001 13:29
Instrument ID: md.i
Client ID:
Compound Name: Bromomethane
CAS #: 74-83-9
Report Date: 12/21/2001



Original Integration



Manual Integration

Manually Integrated By:
Manual Integration Reason: Analyte not Identified by the Data System

STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20244.D
Lab Smp Id: LCS-1221BD Client Smp ID: D20244
Inj Date : 21-DEC-2001 14:14
Operator : GFB Inst ID: md.i
Smp Info : LCS-1221BD,LCS,2,,0,1,0,8260BDA.M,D20244
Misc Info : 1753-2,,5,,3,SPK.SUB,SH.SPK
Comment :
Method : \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m
Meth Date : 21-Dec-2001 14:06 beckmang Quant Type: ISTD
Cal Date : 29-NOV-2001 12:25 Cal File: DS3379.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SPK.SUB
Target Version: 4.00
Processing Host: ANAP1060

Concentration Formula: Amt * DF * Uf * (Vp/(Ws *(100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
8 1,1-Dichloroethene(*)	96	3.545	3.556	(0.430)	487122	59.0754	59.08
$ 29 Dibromofluoromethane	111	7.162	7.173	(0.870)	569700	41.1748	41.17
$ 33 1,2-Dichloroethane-d4	65	7.754	7.755	(0.941)	359277	34.5000	34.50
34 1,2-Dichloroethane-d4 2nd	102	7.764	7.755	(0.943)	87676	34.3501	34.35
35 Benzene	78	7.695	7.695	(0.934)	1745173	56.0839	56.08
* 38 Fluorobenzene	96	8.237	8.237	(1.000)	1422861	50.0000	
39 Trichloroethene	130	8.848	8.839	(1.074)	737851	56.8179	56.82
$ 47 Toluene-d8	98	11.026	11.017	(0.801)	1279702	47.7740	47.77
48 Toluene (*)	91	11.134	11.135	(0.809)	2035016	56.3692	56.37
* 56 Chlorobenzene-d5	117	13.766	13.747	(1.000)	1093062	50.0000	
57 Chlorobenzene (**)	112	13.815	13.816	(1.004)	1328066	52.4049	52.40
$ 67 4-Bromofluorobenzene	95	16.111	16.102	(0.875)	768095	44.1486	44.15
66 4-Bromofluorobenzene-2nd	174	16.111	16.122	(0.875)	496315	45.7603	45.76
* 79 1,4-Dichlorobenzene-d4	152	18.408	18.428	(1.000)	574264	50.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: D20244.D
Lab Smp Id: LCS-1221BD
Analysis Type: VOA
Quant Type: ISTD
Operator: GFB
Method File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m
Misc Info: 1753-2,,5,,3,SPK.SUB,SH.SPK

Calibration Date: 21-DEC-2001
Calibration Time: 13:29
Client Smp ID: D20244
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	1731442	865721	3462884	1422861	-17.82
56 Chlorobenzene-d5	1407217	703609	2814434	1093062	-22.32
79 1,4-Dichlorobenze	807389	403695	1614778	574264	-28.87

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	8.24	7.74	8.74	8.24	-0.01
56 Chlorobenzene-d5	13.75	13.25	14.25	13.77	0.14
79 1,4-Dichlorobenze	18.43	17.93	18.93	18.41	-0.11

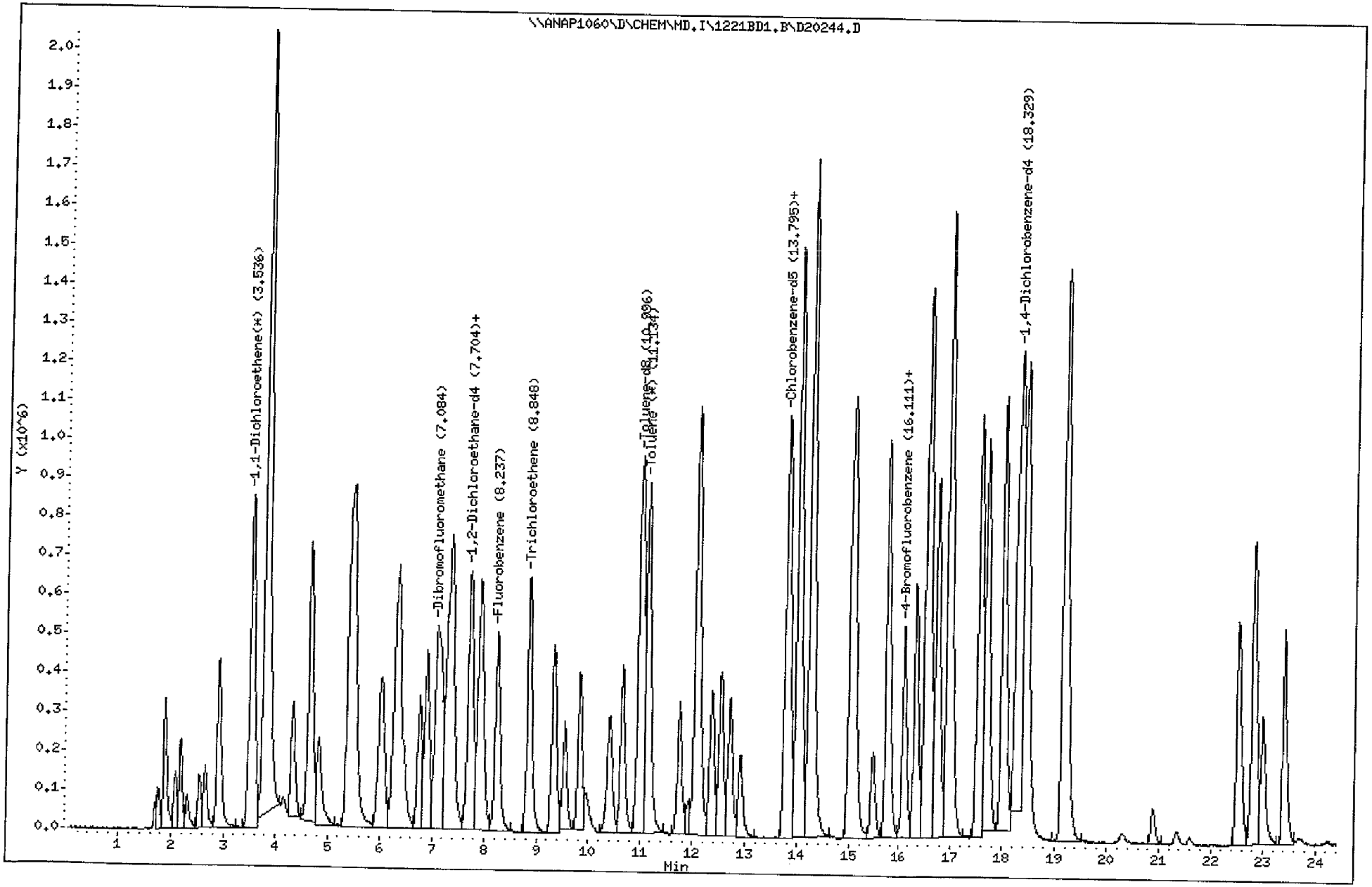
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20244.D
Date : 21-DEC-2001 14:14
Client ID: D20244
Sample Info: LCS-1221BD,LCS,2,,0,1,0,8260BDA.M,D20244

Column phase: J&W DB-624

Instrument: md.i

Operator: GFB
Column diameter: 0.53



BOE-C6-0000576

STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20245.D
Lab Smp Id: MB-1221BD Client Smp ID: D20245
Inj Date : 21-DEC-2001 14:44
Operator : GFB Inst ID: md.i
Smp Info : MB-1221BD,BLANK,2,,0,1,0,8260BDA.M,D20245
Misc Info : ,,5,,3,all.SUB
Comment :
Method : \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m
Meth Date : 21-Dec-2001 14:06 beckmang Quant Type: ISTD
Cal Date : 29-NOV-2001 12:25 Cal File: DS3379.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.SUB
Target Version: 4.00
Processing Host: ANAP1060

Concentration Formula: Amt * DF * Uf * (Vp/(Ws *(100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
$ 29 Dibromofluoromethane	111	7.167	7.173	(0.871)	743830	46.6949	46.69
$ 33 1,2-Dichloroethane-d4	65	7.758	7.755	(0.943)	503186	41.9691	41.97
34 1,2-Dichloroethane-d4 2nd	102	7.758	7.755	(0.943)	128863	43.8513	43.85
36 1,2-Dichloroethane	62	8.241	7.883	(1.001)	19889	1.41251	1.41(aQ)
* 38 Fluorobenzene	96	8.231	8.237	(1.000)	1638143	50.0000	
$ 47 Toluene-d8	98	11.010	11.017	(0.800)	1517832	44.5638	44.56
* 56 Chlorobenzene-d5	117	13.760	13.747	(1.000)	1389853	50.0000	
66 4-Bromofluorobenzene-2nd	174	16.106	16.122	(0.875)	640167	41.4034	41.40
$ 67 4-Bromofluorobenzene	95	16.096	16.102	(0.875)	1007207	40.6098	40.61
* 79 1,4-Dichlorobenzene-d4	152	18.402	18.428	(1.000)	818655	50.0000	(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\ANAP1060\D\chem\md.i\1221BD1.B\D20245.D
Lab Smp Id: MB-1221BD Client Smp ID: D20245
Inj Date : 21-DEC-2001 14:44
Operator : GFB Inst ID: md.i
Smp Info : MB-1221BD,BLANK,2,,0,1,0,8260BDA.M,D20245
Misc Info : ,,5,,3,all.SUB
Comment :
Method : \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m
Meth Date : 26-Dec-2001 16:25 beckmang Quant Type: ISTD
Cal Date : 29-NOV-2001 12:25 Cal File: DS3379.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.SUB
Target Version: 4.00
Processing Host: ANAP1060

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: D20245.D
Lab Smp Id: MB-1221BD
Analysis Type: VOA
Quant Type: ISTD
Operator: GFB
Method File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m
Misc Info: ,,5,,3,all.SUB

Calibration Date: 21-DEC-2001
Calibration Time: 13:29
Client Smp ID: D20245
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	1731442	865721	3462884	1638143	-5.39
56 Chlorobenzene-d5	1407217	703609	2814434	1389853	-1.23
79 1,4-Dichlorobenze	807389	403695	1614778	818655	1.40

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	8.24	7.74	8.74	8.23	-0.08
56 Chlorobenzene-d5	13.75	13.25	14.25	13.76	0.10
79 1,4-Dichlorobenze	18.43	17.93	18.93	18.40	-0.14

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

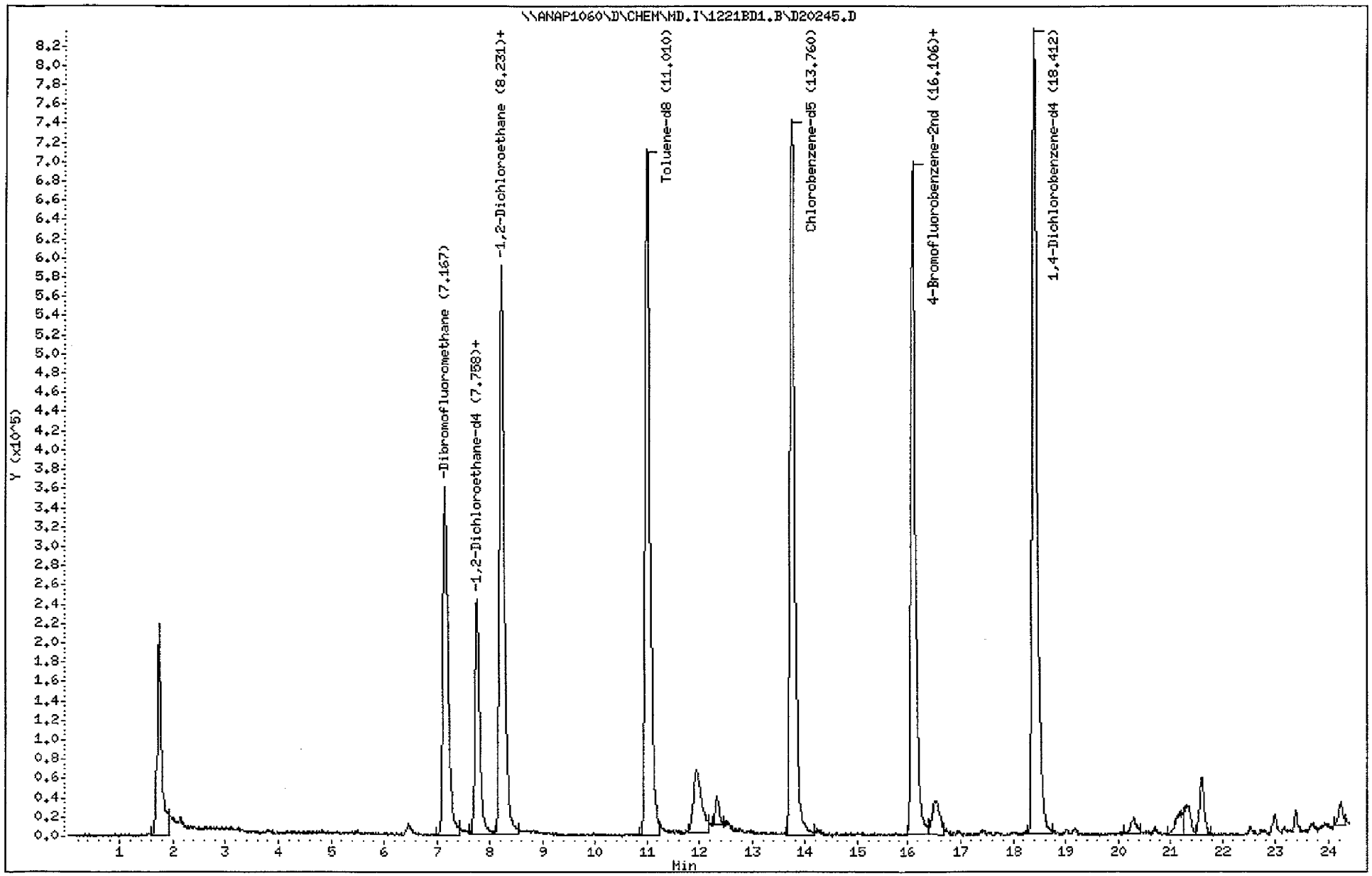
Data File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20245.D
Date : 21-DEC-2001 14:44
Client ID: D20245
Sample Info: MB-1221BD,BLANK,2,,0,1,0,8260BDA,M,D20245

Instrument: md.i

Operator: GFB

Column phase: J&W DB-624

Column diameter: 0.53



Data File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20245.D

Date : 21-DEC-2001 14:44

Client ID: D20245

Instrument: md.i

Sample Info: MB-1221BD,BLANK,2,,0,1,0,8260BDA.M,D20245

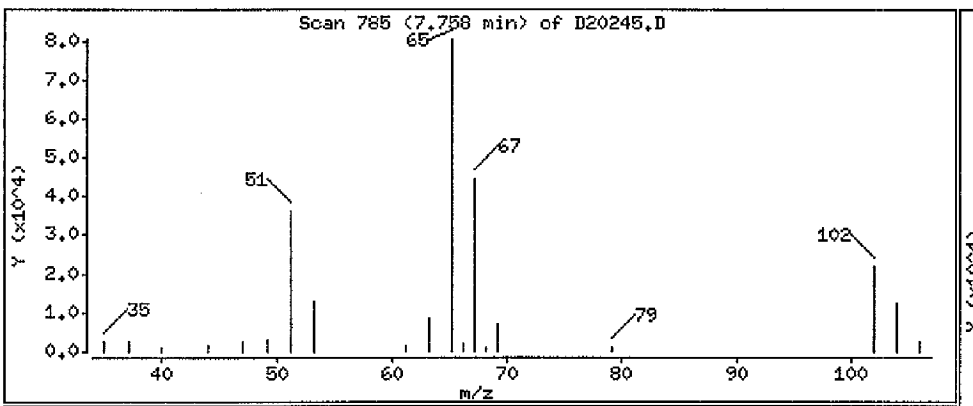
Operator: GFB

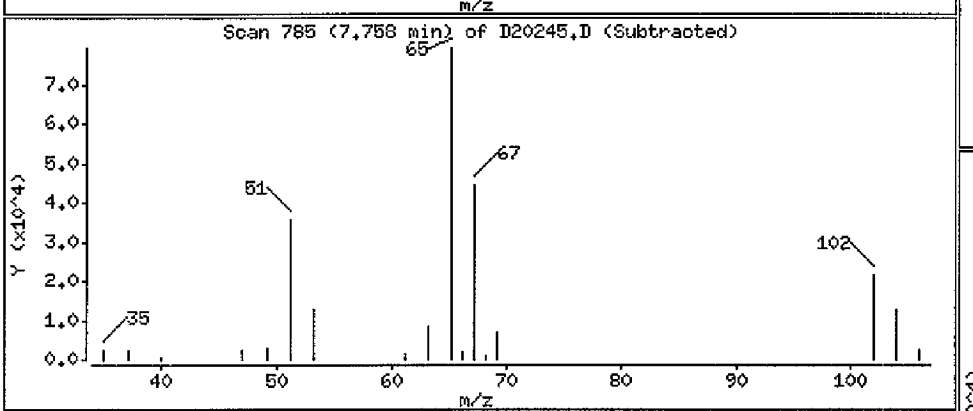
Column phase: J&W DB-624

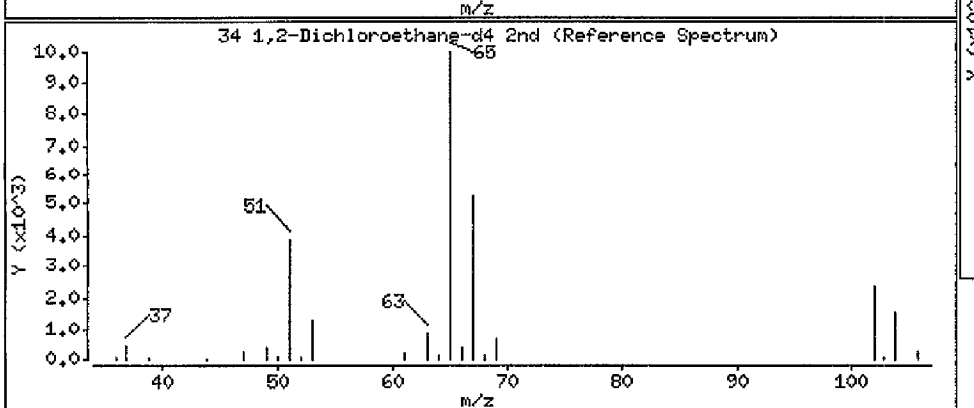
Column diameter: 0.53

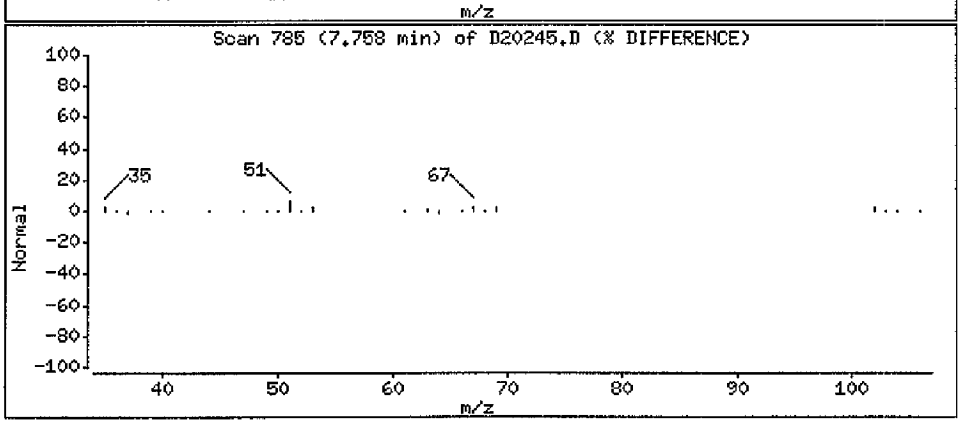
34 1,2-Dichloroethane-d4 2nd

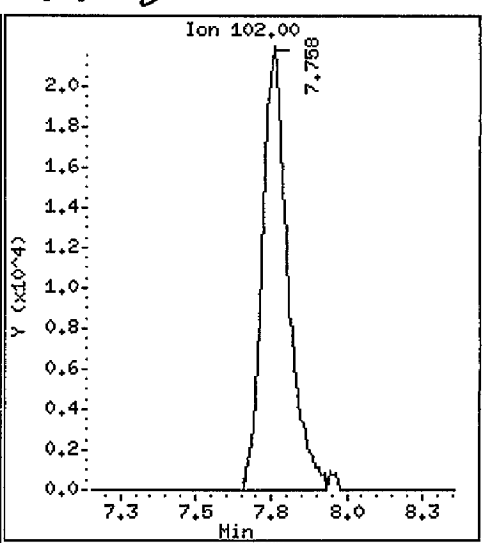
Concentration: 43.85 ug/Kg

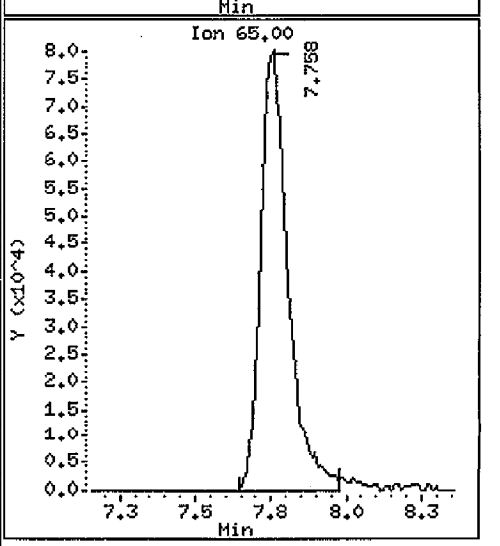












Data File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20245.D

Date : 21-DEC-2001 14:44

Client ID: D20245

Instrument: md.i

Sample Info: MB-1221BD,BLANK,2,,0,1,0,8260BDA,M,D20245

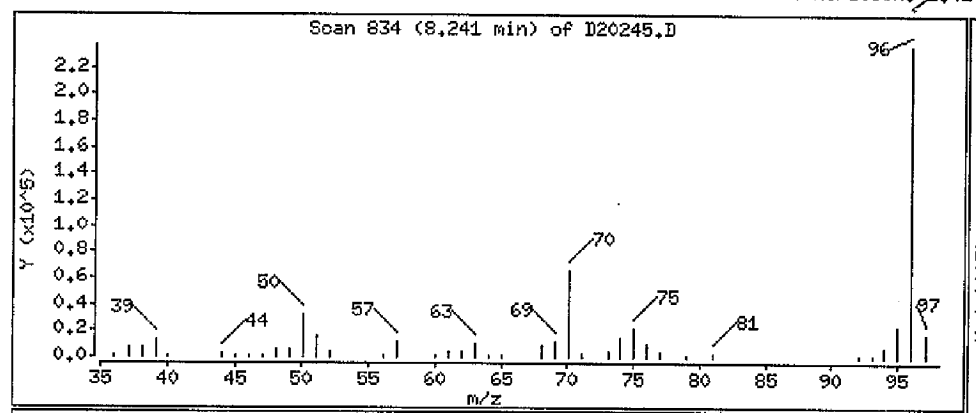
Operator: GFB

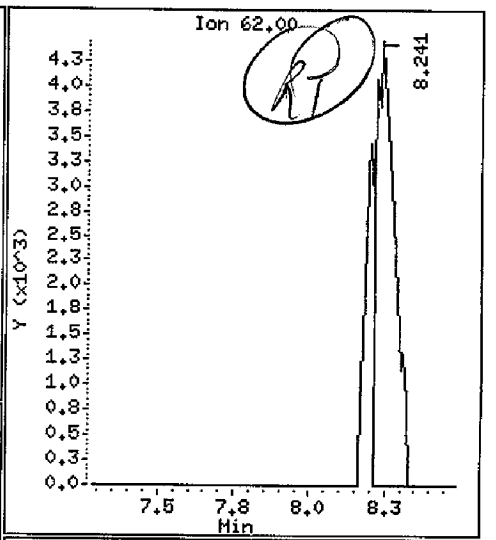
Column phase: J&W DB-624

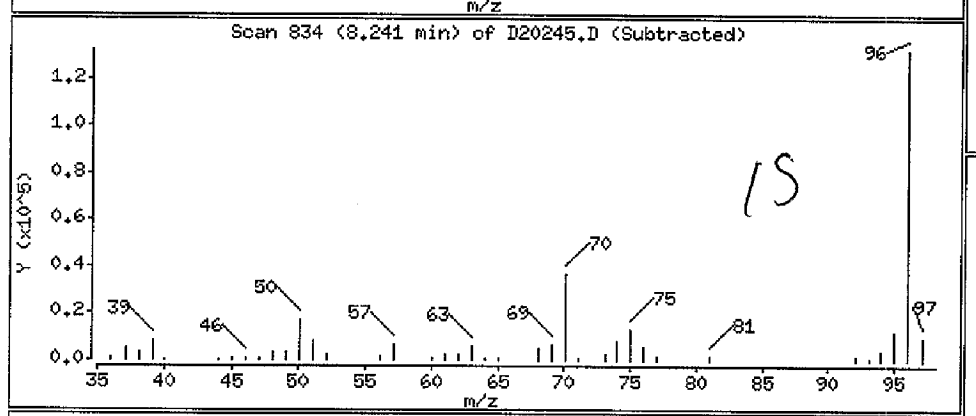
Column diameter: 0.53

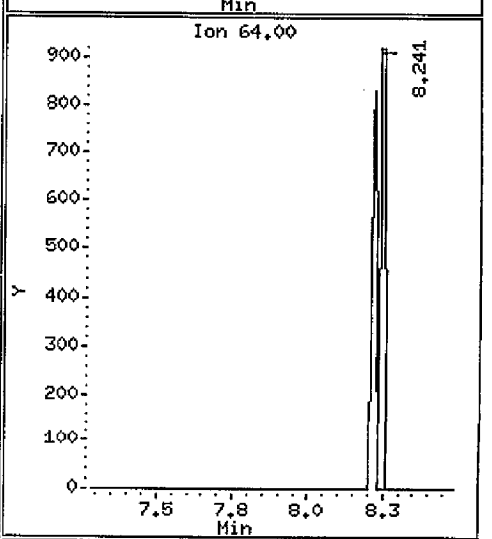
36 1,2-Dichloroethane

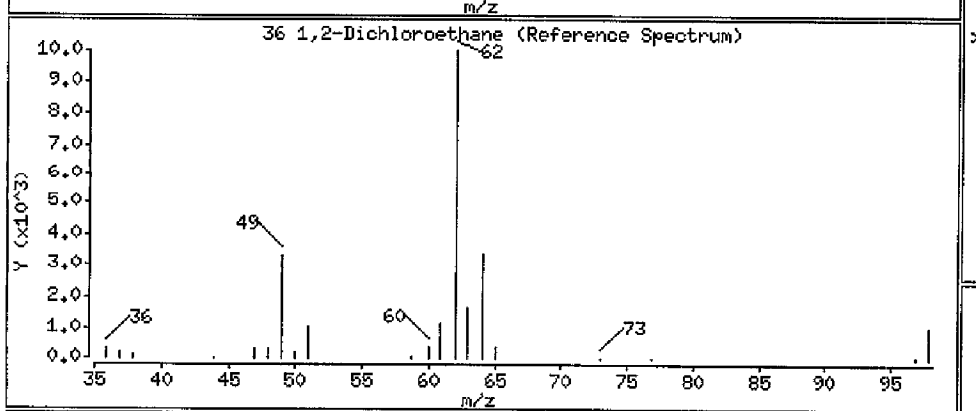
Concentration: 1.41 ug/Kg

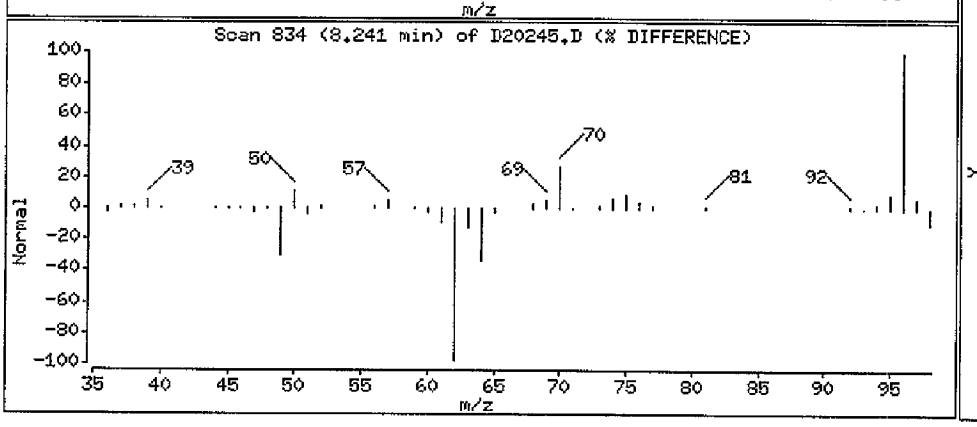


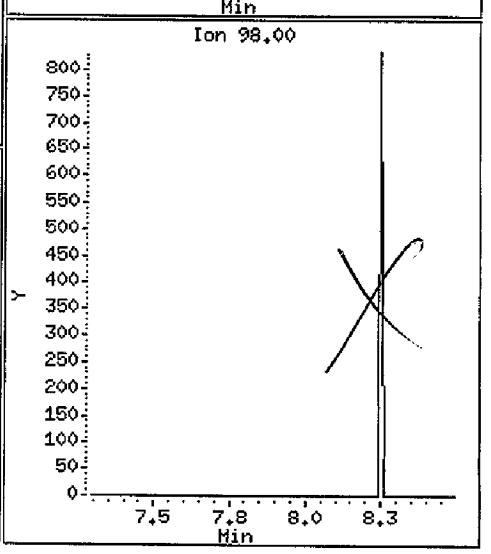












Data File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20245.D

Date : 21-DEC-2001 14:44

Client ID: D20245

Instrument: md.i

Sample Info: MB-1221BD,BLANK,2,,0,1,0,8260BDA.M,D20245

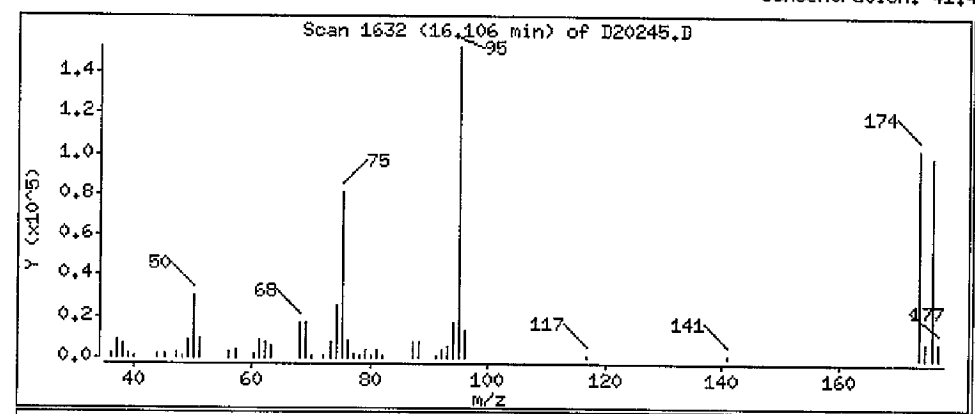
Operator: GFB

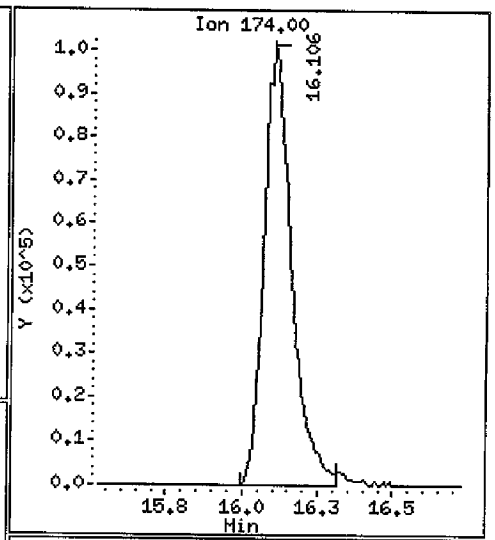
Column phase: J&W DB-624

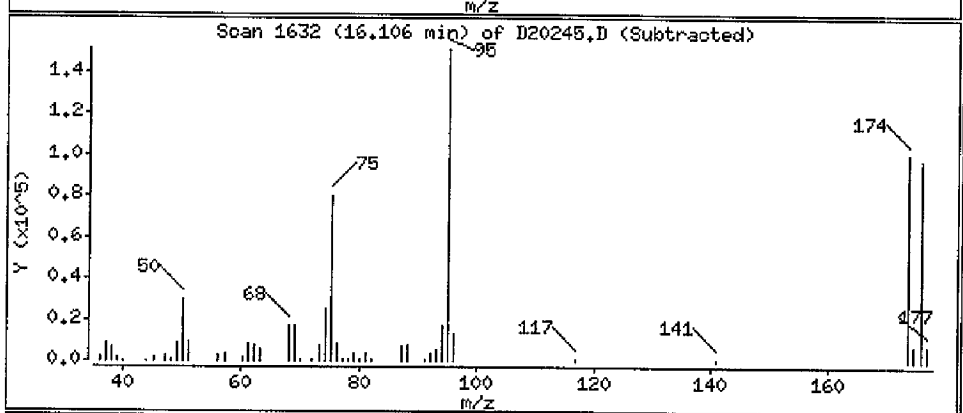
Column diameter: 0.53

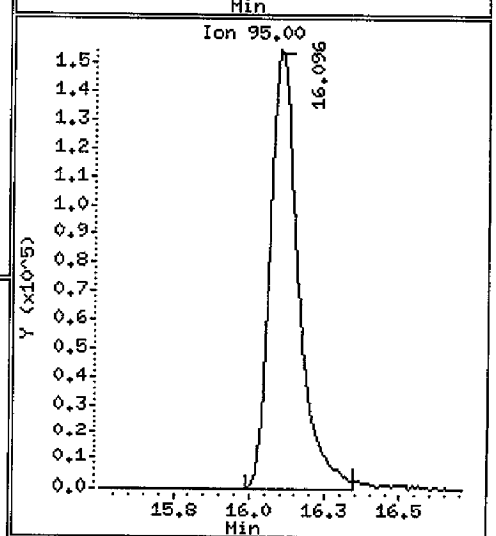
66 4-Bromofluorobenzene-2nd

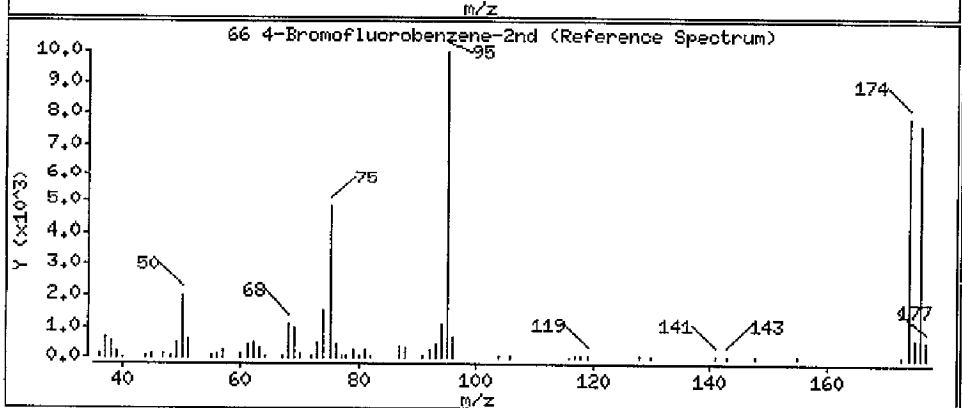
Concentration: 41.40 ug/Kg

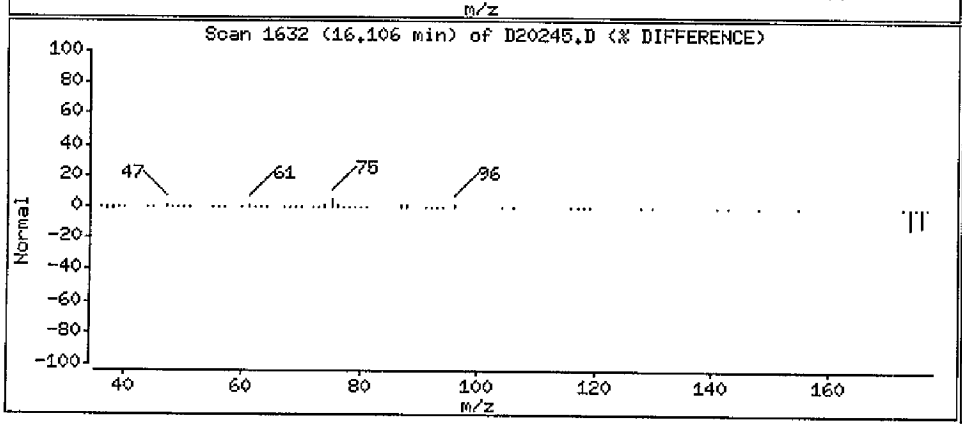


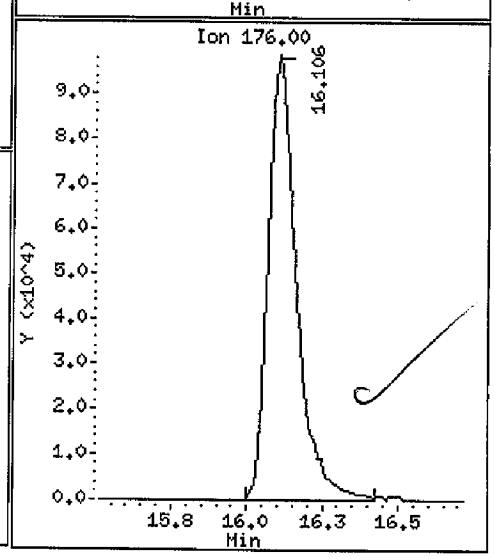












STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20254.D
Lab Smp Id: EQWL41AA Client Smp ID: D20254
Inj Date : 21-DEC-2001 19:18
Operator : GFB Inst ID: md.i
Smp Info : EQWL41AA,,2,,0,1,0,8260BDA.M,D20254
Misc Info : E1L200353-6,,5,,0,all.SUB
Comment :
Method : \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m
Meth Date : 21-Dec-2001 14:06 beckmang Quant Type: ISTD
Cal Date : 29-NOV-2001 12:25 Cal File: DS3379.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.SUB
Target Version: 4.00
Processing Host: ANAP1060

Concentration Formula: Amt * DF * Uf * (Vp/(Ws *(100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
$ 29 Dibromofluoromethane	111	7.167	7.173	(0.871)	688304	46.8708	46.87	
$ 33 1,2-Dichloroethane-d4	65	7.758	7.755	(0.943)	506347	45.8116	45.81	
34 1,2-Dichloroethane-d4 2nd	102	7.758	7.755	(0.943)	121552	44.8685	44.87	
* 38 Fluorobenzene	96	8.231	8.237	(1.000)	1510170	50.0000		
$ 47 Toluene-d8	98	11.011	11.017	(0.801)	1367744	42.0941	42.09	
* 56 Chlorobenzene-d5	117	13.751	13.747	(1.000)	1325901	50.0000		
66 4-Bromofluorobenzene-2nd	174	16.106	16.122	(0.875)	613477	39.9852	39.98	
$ 67 4-Bromofluorobenzene	95	16.106	16.102	(0.875)	954147	38.7691	38.77	
* 79 1,4-Dichlorobenzene-d4	152	18.402	18.428	(1.000)	812348	50.0000		(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\ANAP1060\D\chem\md.i\1221BD1.B\D20254.D
Lab Smp Id: EQWL41AA Client Smp ID: D20254
Inj Date : 21-DEC-2001 19:18
Operator : GFB Inst ID: md.i
Smp Info : EQWL41AA,,2,,0,1,0,8260BDA.M,D20254
Misc Info : E1L200353-6,,5,,0,all.SUB
Comment :
Method : \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m
Meth Date : 26-Dec-2001 16:25 beckmang Quant Type: ISTD
Cal Date : 29-NOV-2001 12:25 Cal File: DS3379.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.SUB
Target Version: 4.00
Processing Host: ANAP1060

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: D20254.D
Lab Smp Id: EQWL41AA
Analysis Type: VOA
Quant Type: ISTD
Operator: GFB
Method File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m
Misc Info: E1L200353-6,,5,,0,all.SUB

Calibration Date: 21-DEC-2001
Calibration Time: 13:29
Client Smp ID: D20254
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	1731442	865721	3462884	1510170	-12.78
56 Chlorobenzene-d5	1407217	703609	2814434	1325901	-5.78
79 1,4-Dichlorobenze	807389	403695	1614778	812348	0.61

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	8.24	7.74	8.74	8.23	-0.07
56 Chlorobenzene-d5	13.75	13.25	14.25	13.75	0.03
79 1,4-Dichlorobenze	18.43	17.93	18.93	18.40	-0.14

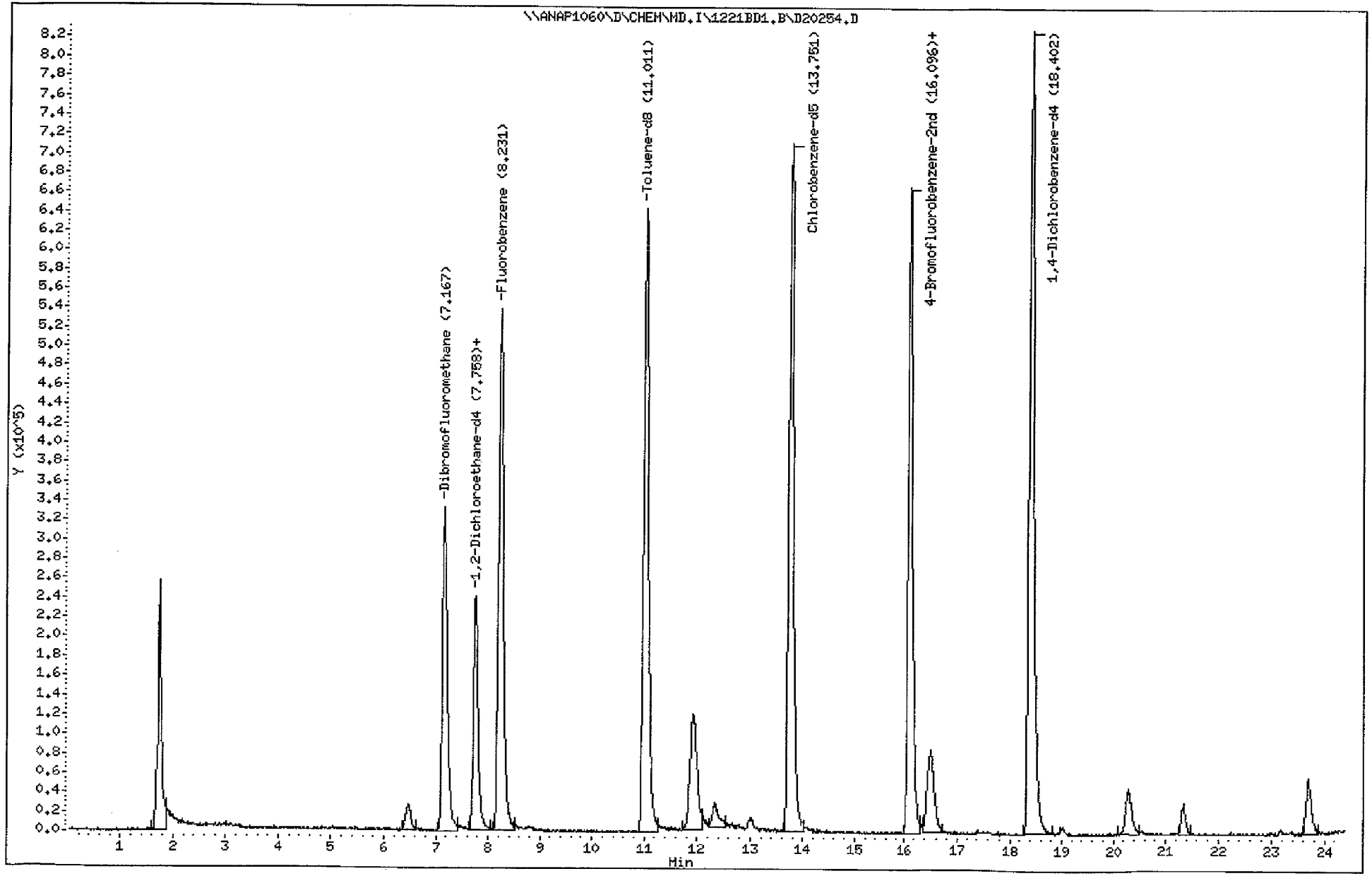
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20254.D
Date : 21-DEC-2001 19:18
Client ID: D20254
Sample Info: EQWL41AA,,2,,0,1,0,8260BDA.M,D20254

Column phase: J&W DB-624

Instrument: md.i

Operator: GFB
Column diameter: 0.53



BOE-C6-0000588

Data File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20254.D

Date : 21-DEC-2001 19:18

Client ID: D20254

Instrument: md.i

Sample Info: EQWL41AA,,2,,0,1,0,8260BDA,M,D20254

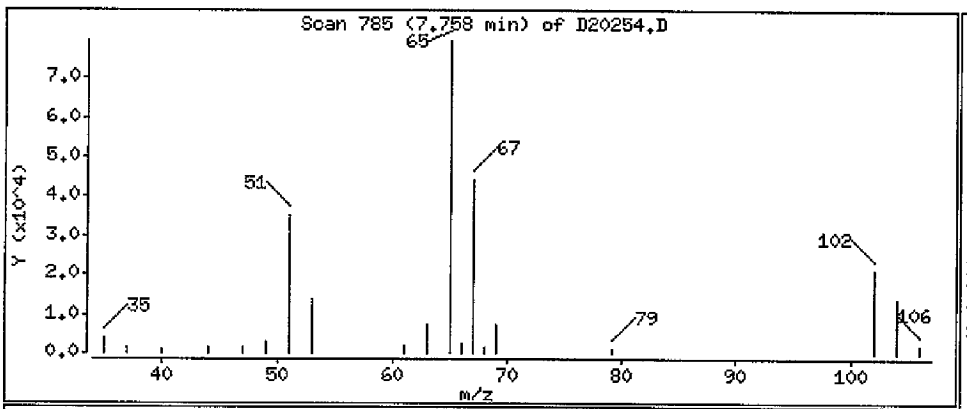
Operator: GFB

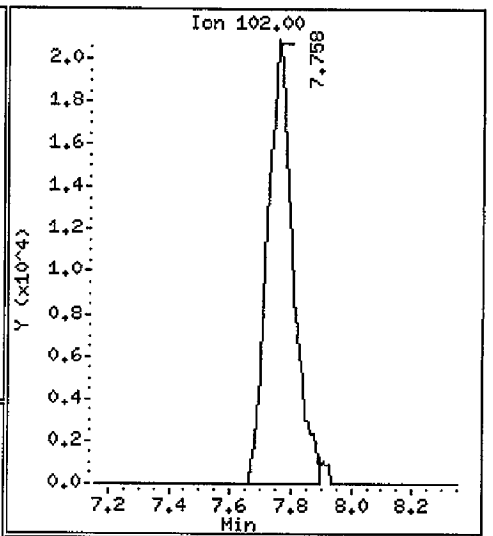
Column phase: J&W DB-624

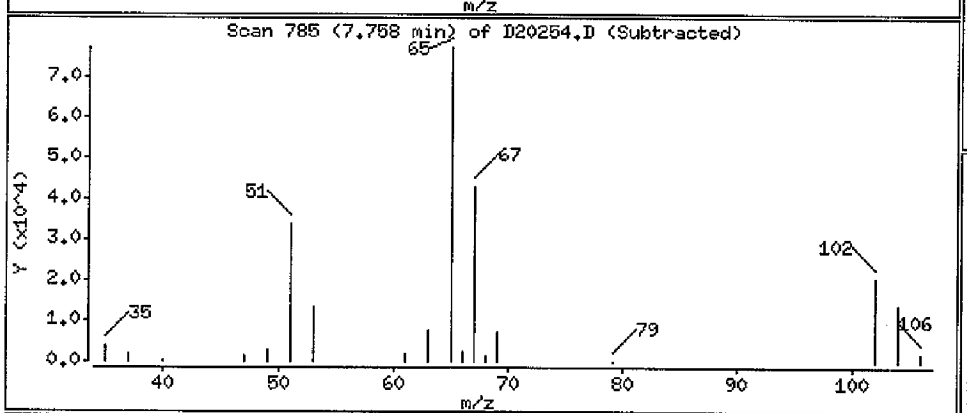
Column diameter: 0.53

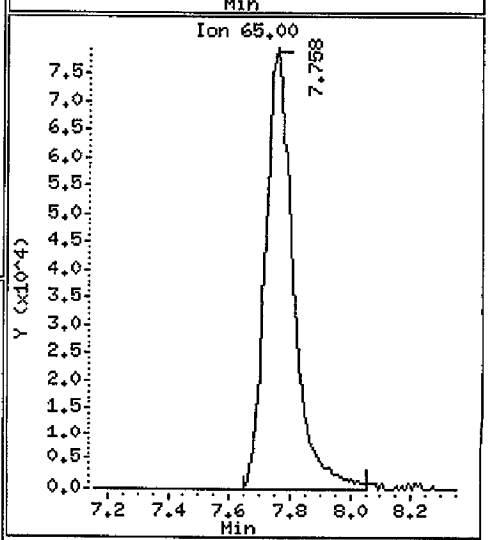
34 1,2-Dichloroethane-d4 2nd

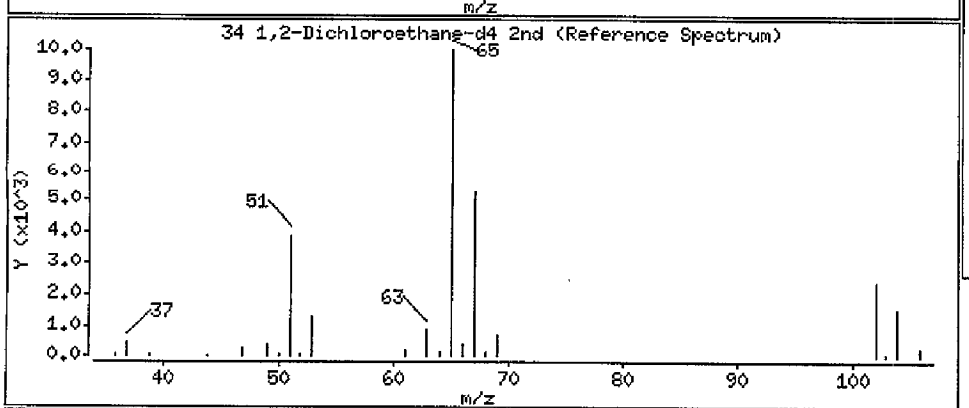
Concentration: 44.87 ug/Kg

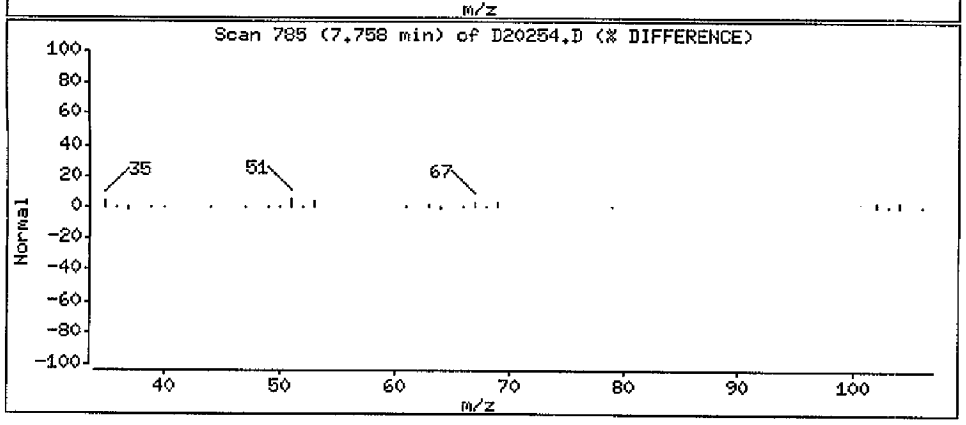












Data File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20254.D

Date : 21-DEC-2001 19:18

Client ID: D20254

Instrument: md.i

Sample Info: EQWL41AA,,2,,0,1,0,8260BDA.M,D20254

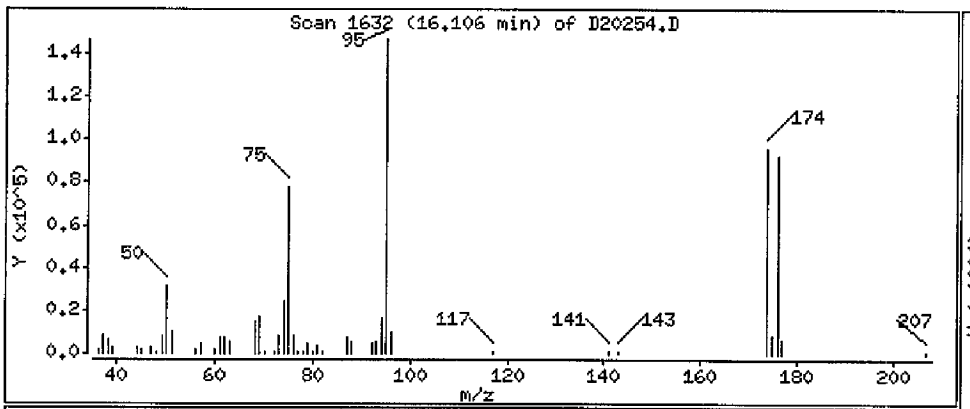
Operator: GFB

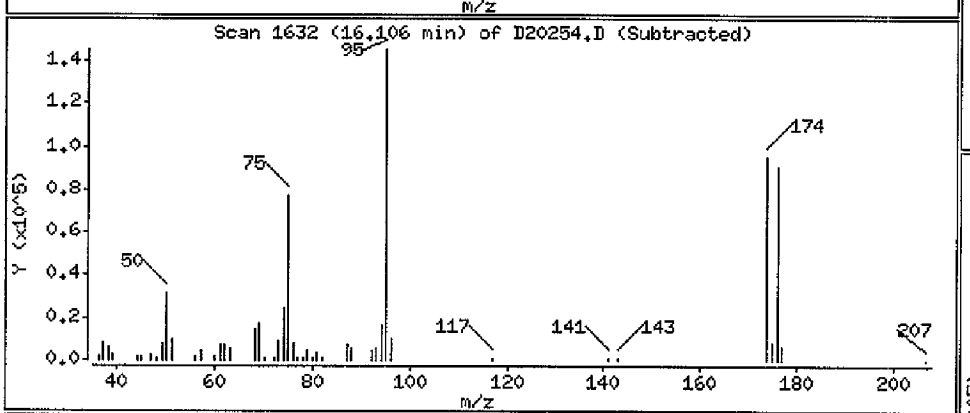
Column phase: J&W DB-624

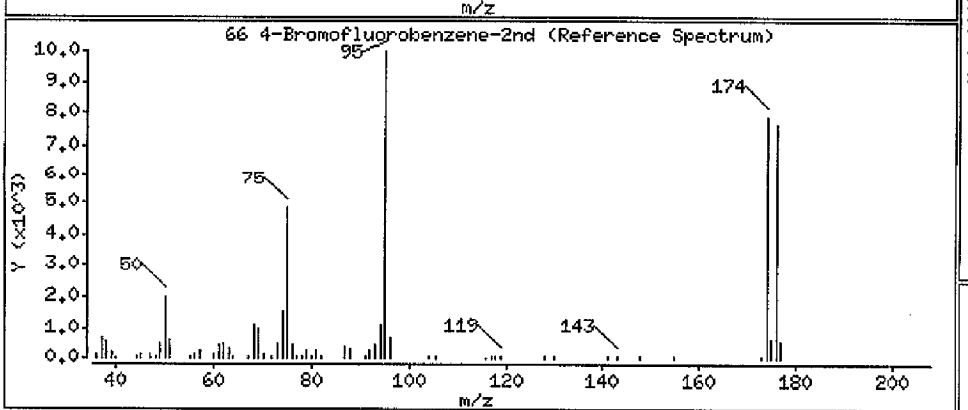
Column diameter: 0.53

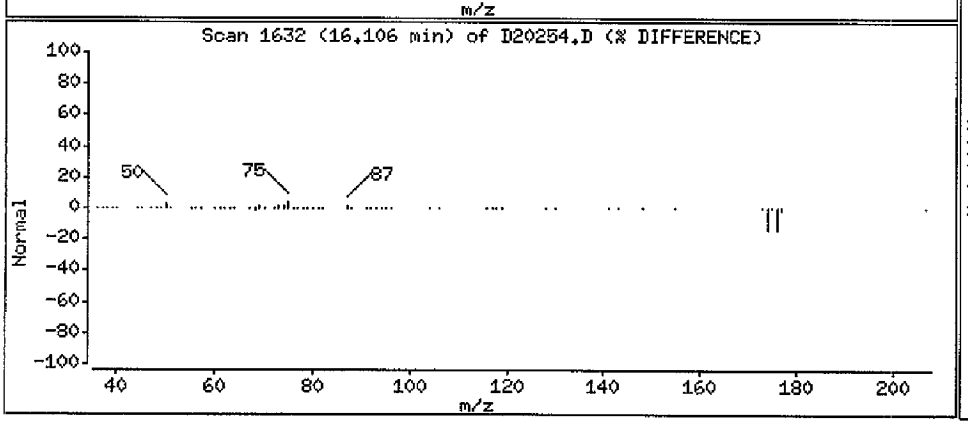
66 4-Bromofluorobenzene-2nd

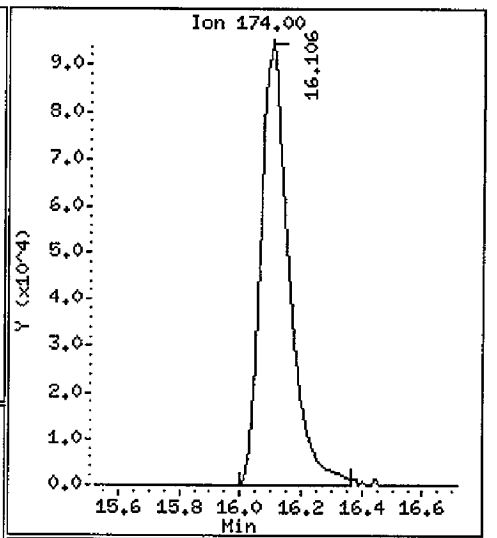
Concentration: 39.98 ug/Kg

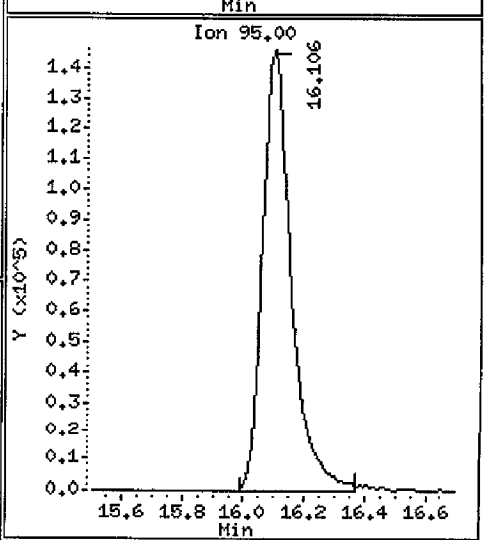


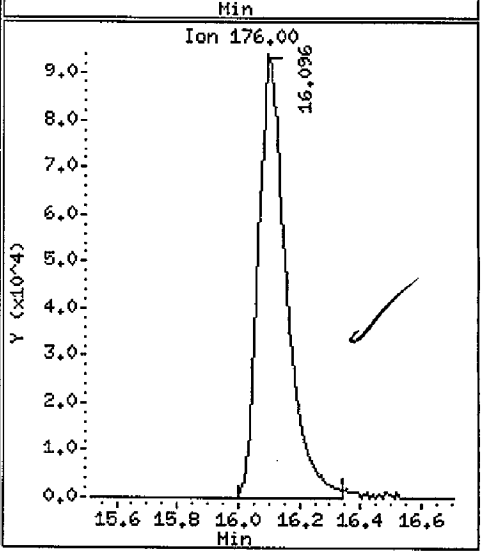












STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20255.D
Lab Smp Id: EQWL61AA Client Smp ID: D20255
Inj Date : 21-DEC-2001 19:48
Operator : GFB Inst ID: md.i
Smp Info : EQWL61AA,,2,,0,1,0,8260BDA.M,D20255
Misc Info : 353-7,,5,,0,all.SUB
Comment :
Method : \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m
Meth Date : 21-Dec-2001 14:06 beckmang Quant Type: ISTD
Cal Date : 29-NOV-2001 12:25 Cal File: DS3379.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.SUB
Target Version: 4.00
Processing Host: ANAP1060

Concentration Formula: Amt * DF * Uf * (Vp/(Ws *(100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
$ 29 Dibromofluoromethane	111	7.167	7.173	(0.871)	713539	47.1288	47.13
$ 33 1,2-Dichloroethane-d4	65	7.768	7.755	(0.944)	506413	44.4405	44.44
34 1,2-Dichloroethane-d4 2nd	102	7.759	7.755	(0.943)	125341	44.8767	44.88
36 1,2-Dichloroethane	62	8.242	7.883	(1.001)	23318	1.74239	1.74(aQ)
* 38 Fluorobenzene	96	8.232	8.237	(1.000)	1556966	50.0000	
$ 47 Toluene-d8	98	11.011	11.017	(0.800)	1407181	42.4637	42.46
* 56 Chlorobenzene-d5	117	13.761	13.747	(1.000)	1352257	50.0000	
66 4-Bromofluorobenzene-2nd	174	16.097	16.122	(0.874)	623940	38.8110	38.81
$ 67 4-Bromofluorobenzene	95	16.106	16.102	(0.875)	964342	37.3950	37.40
* 79 1,4-Dichlorobenzene-d4	152	18.413	18.428	(1.000)	851198	50.0000	(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\ANAP1060\D\chem\md.i\1221BD1.B\D20255.D
Lab Smp Id: EQWL61AA Client Smp ID: D20255
Inj Date : 21-DEC-2001 19:48
Operator : GFB Inst ID: md.i
Smp Info : EQWL61AA,,2,,0,1,0,8260BDA.M,D20255
Misc Info : 353-7,,5,,0,all.SUB
Comment :
Method : \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m
Meth Date : 26-Dec-2001 16:25 beckmang Quant Type: ISTD
Cal Date : 29-NOV-2001 12:25 Cal File: DS3379.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.SUB
Target Version: 4.00
Processing Host: ANAP1060

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: D20255.D
Lab Smp Id: EQWL61AA
Analysis Type: VOA
Quant Type: ISTD
Operator: GFB
Method File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m
Misc Info: 353-7,,5,,0,all.SUB

Calibration Date: 21-DEC-2001
Calibration Time: 13:29
Client Smp ID: D20255
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	1731442	865721	3462884	1556966	-10.08
56 Chlorobenzene-d5	1407217	703609	2814434	1352257	-3.91
79 1,4-Dichlorobenze	807389	403695	1614778	851198	5.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	8.24	7.74	8.74	8.23	-0.07
56 Chlorobenzene-d5	13.75	13.25	14.25	13.76	0.10
79 1,4-Dichlorobenze	18.43	17.93	18.93	18.41	-0.08

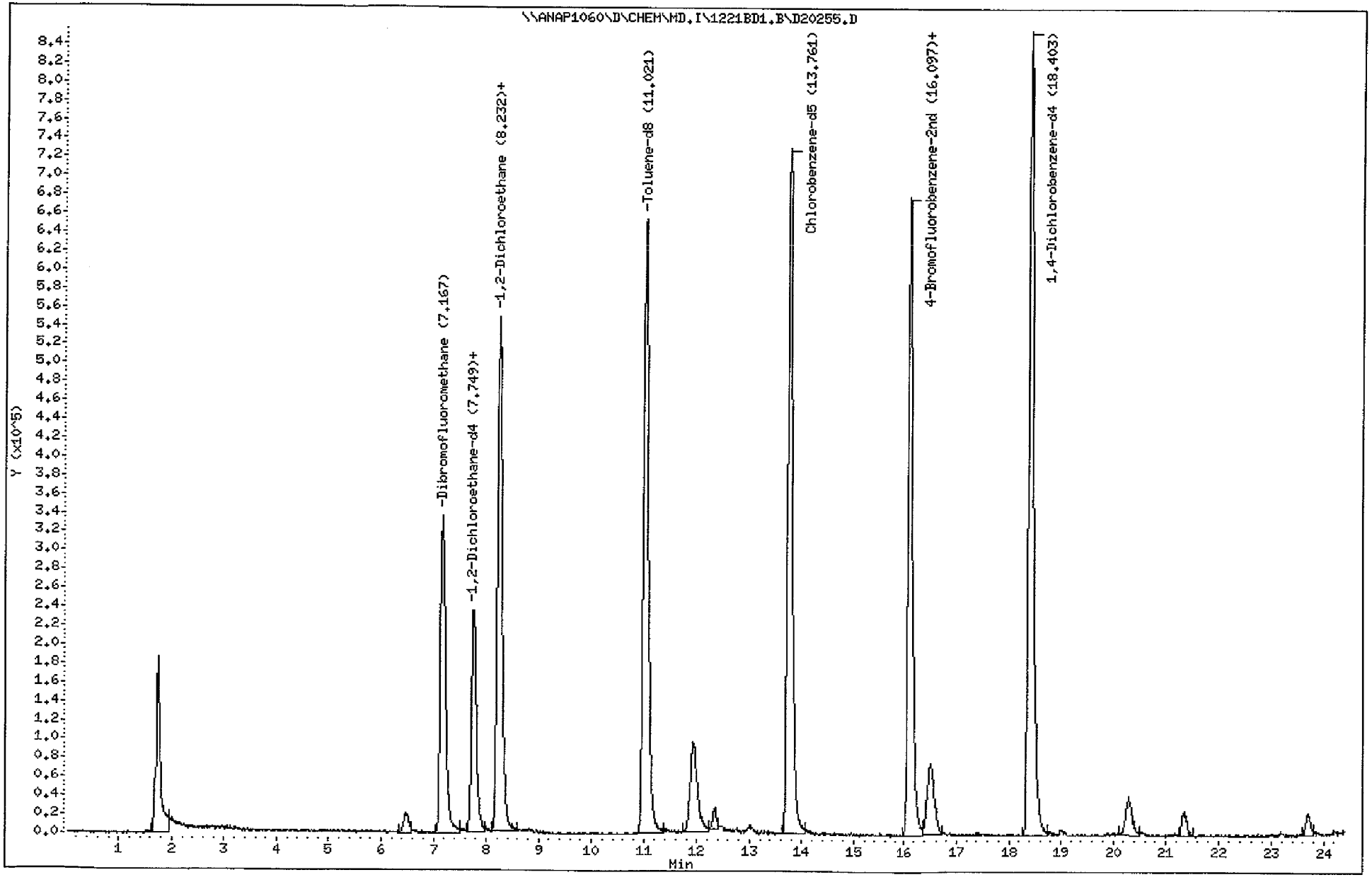
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20255.D
Date : 21-DEC-2001 19:48
Client ID: D20255
Sample Info: EQWL61AA,,2,,0,1,0,8260BDA.M,D20255

Instrument: md.i

Operator: GFB
Column diameter: 0.53

Column phase: J&W DB-624



BOE-C6-0000595

Data File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20255.D

Date : 21-DEC-2001 19:48

Client ID: D20255

Instrument: md.i

Sample Info: EQWL61AA,,2,,0,1,0,8260BDA.M,D20255

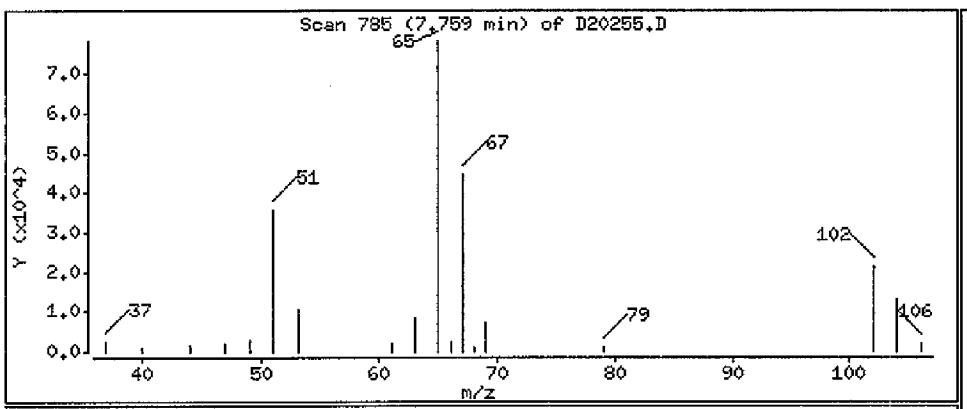
Operator: GFB

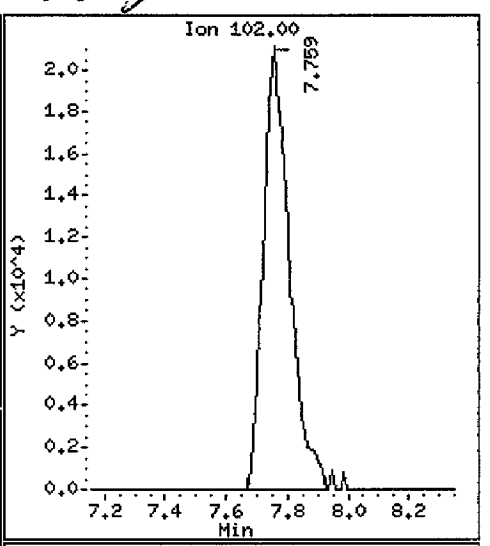
Column phase: J&W DB-624

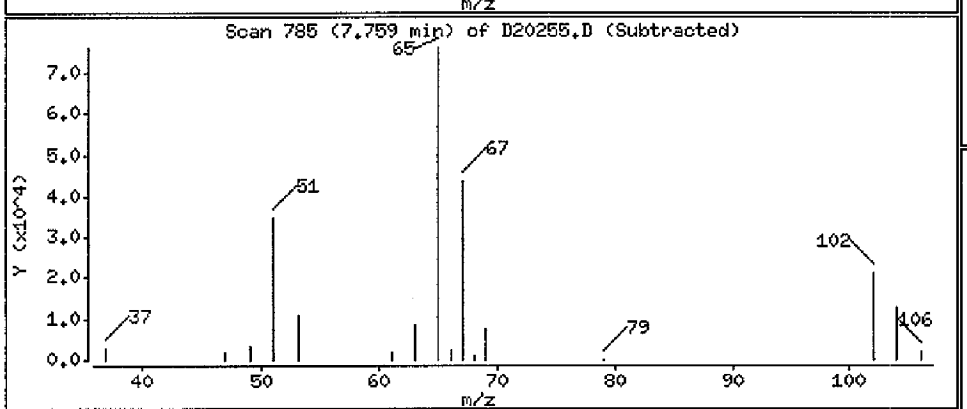
Column diameter: 0.53

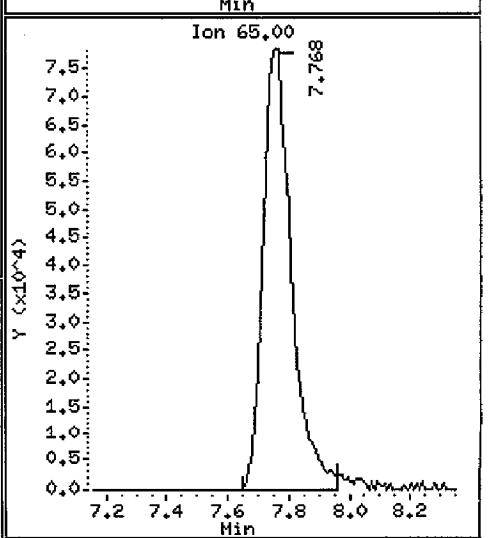
34 1,2-Dichloroethane-d4 2nd

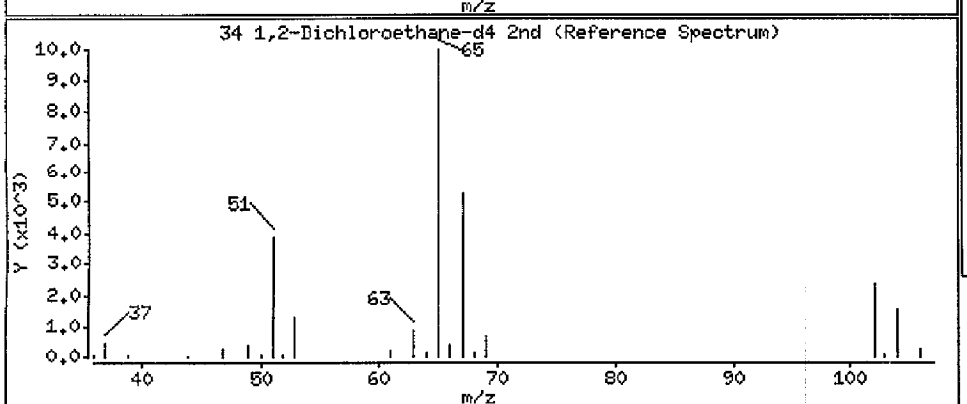
Concentration: 44.88 ug/Kg

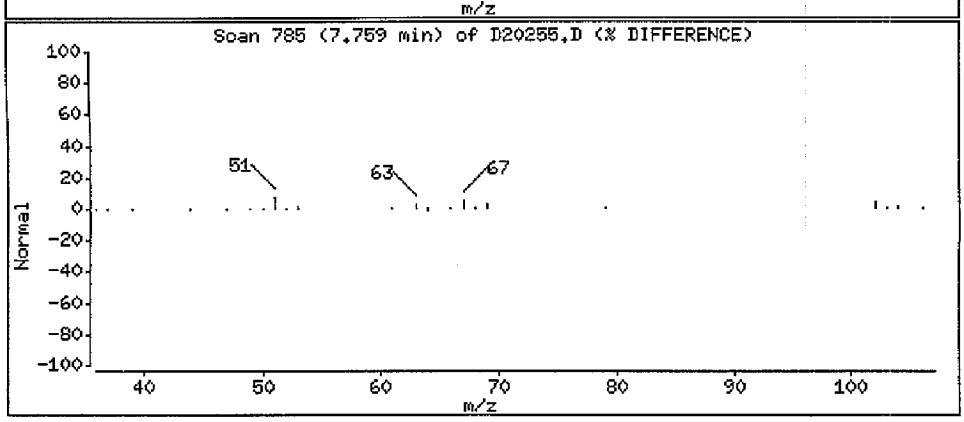












Data File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20255.D

Date : 21-DEC-2001 19:48

Client ID: D20255

Sample Info: EQWL61AA,,2,,0,1,0,8260BDA.M,D20255

Instrument: md.i

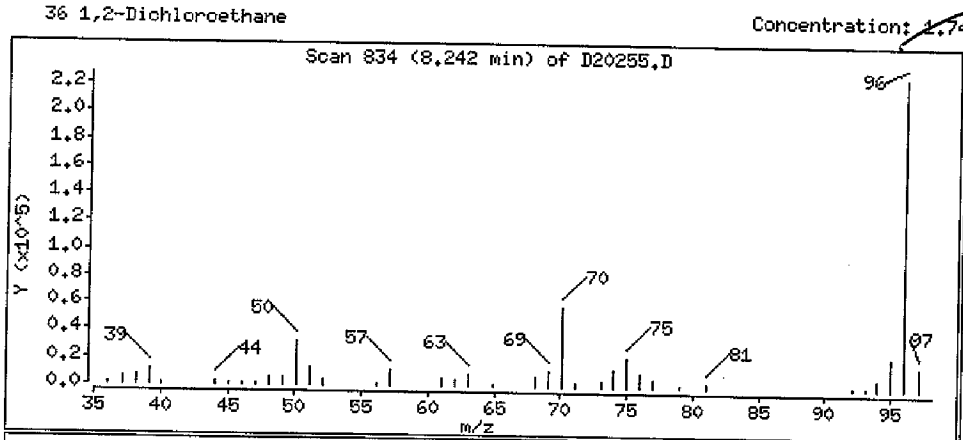
Operator: GFB

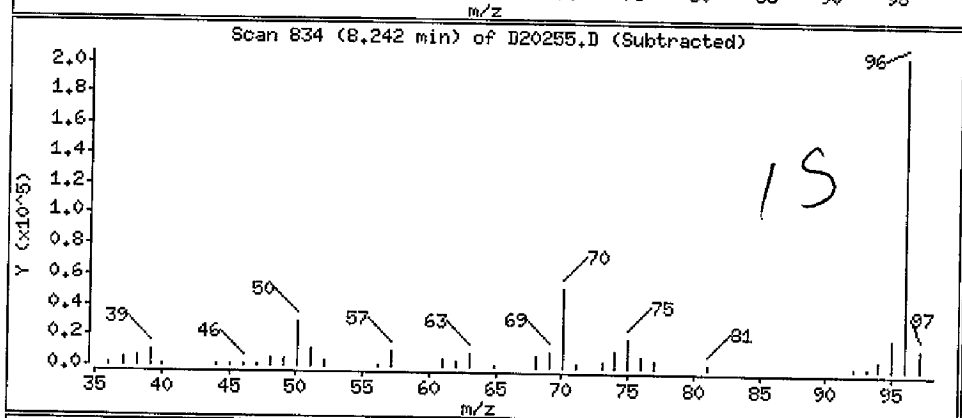
Column phase: J&W DB-624

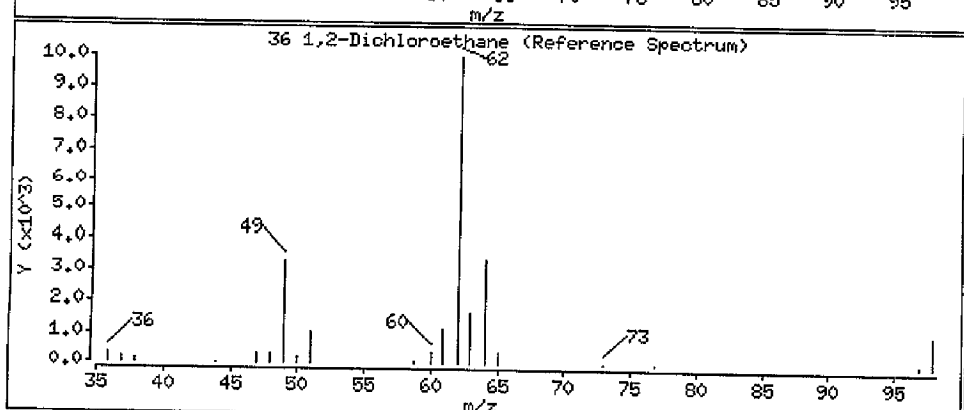
Column diameter: 0.53

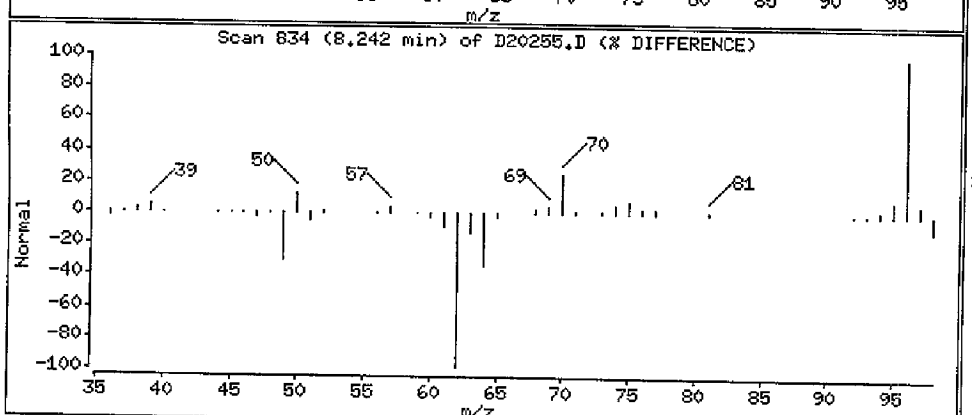
36 1,2-Dichloroethane

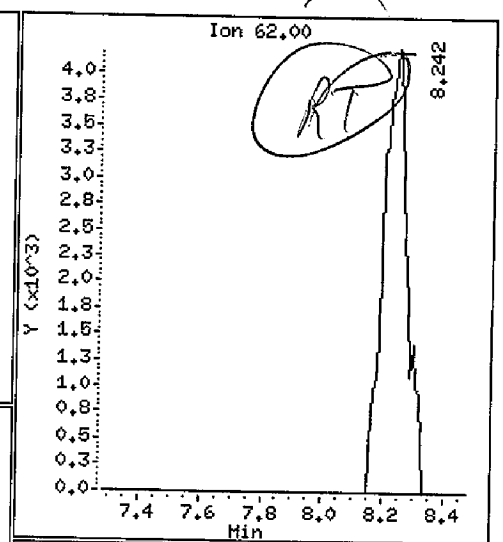
Concentration: ~~1.74~~ ug/Kg

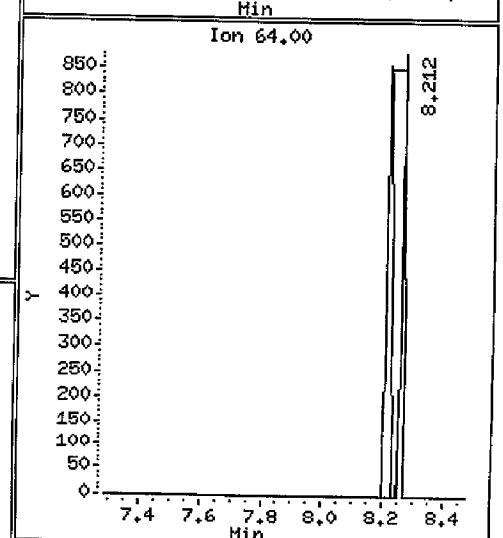


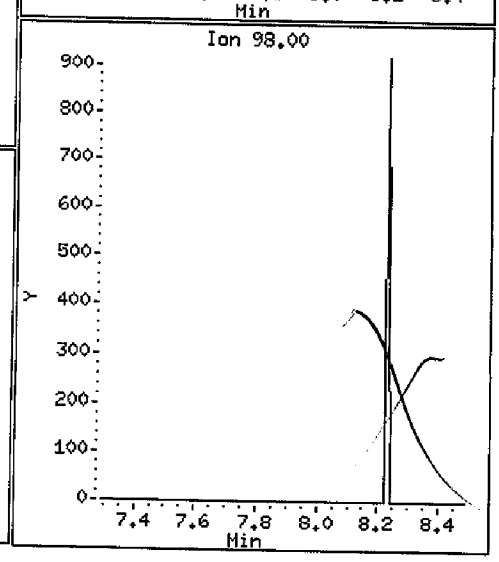












Data File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20255.D

Date : 21-DEC-2001 19:48

Client ID: D20255

Instrument: md.i

Sample Info: EQWL61AA,,2,,0,1,0,8260BDA,M,D20255

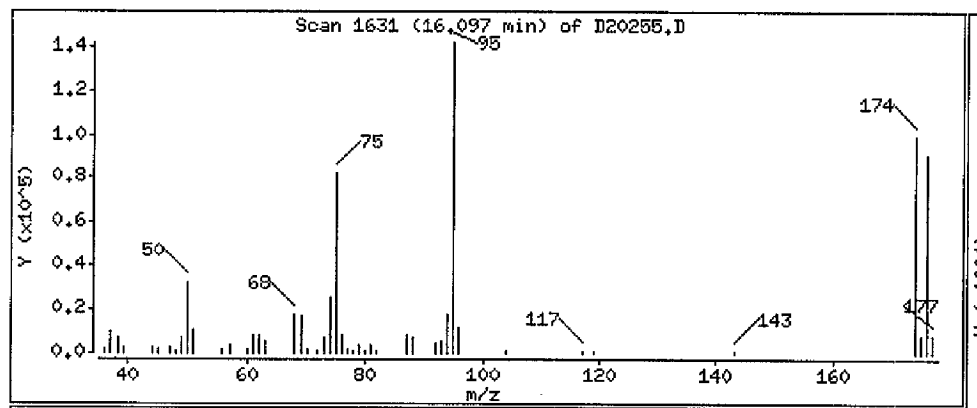
Operator: GFB

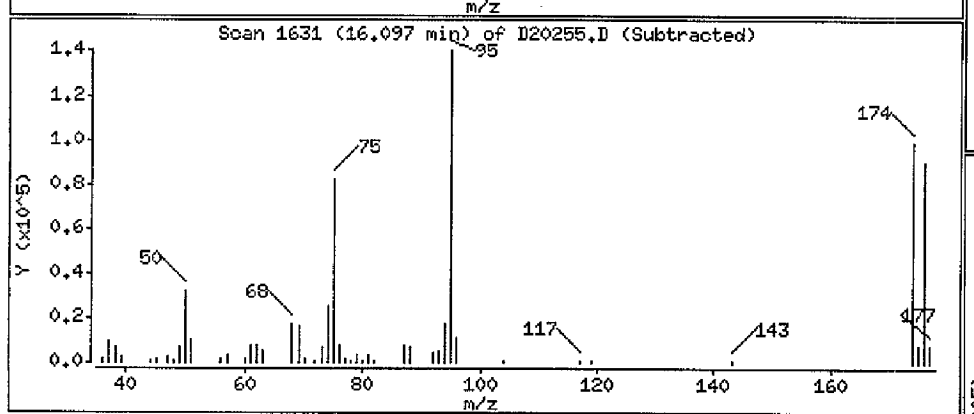
Column phase: J&W DB-624

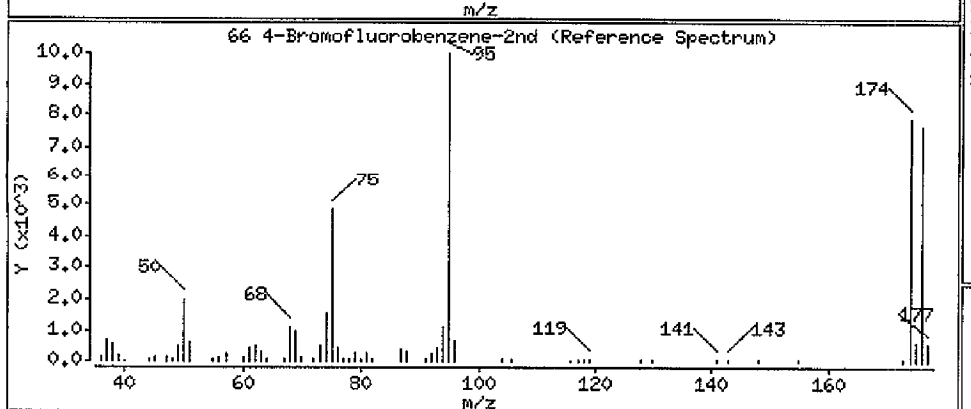
Column diameter: 0.53

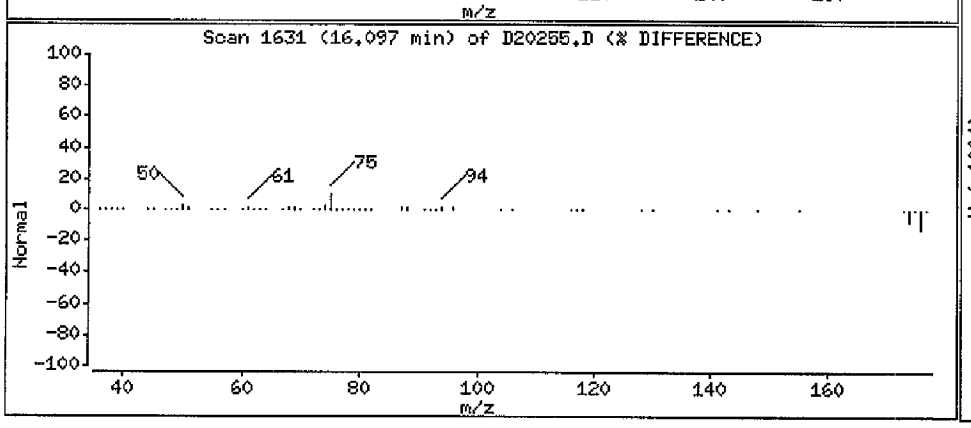
66 4-Bromofluorobenzene-2nd

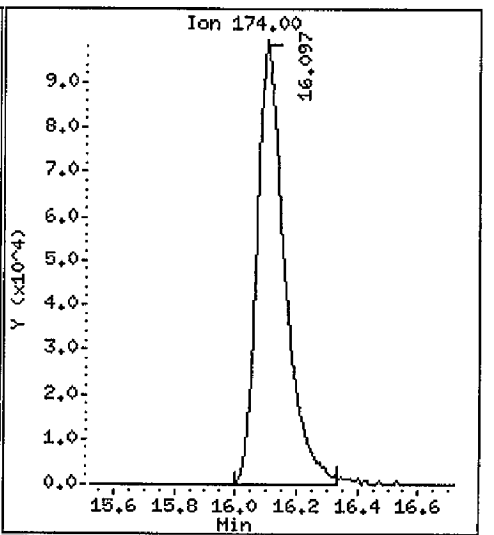
Concentration: 38.81 ug/Kg

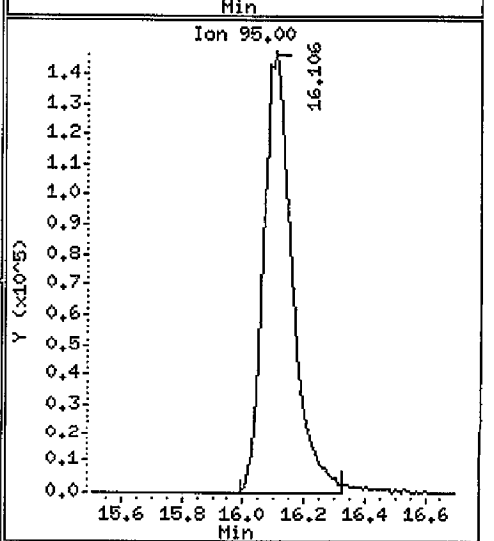


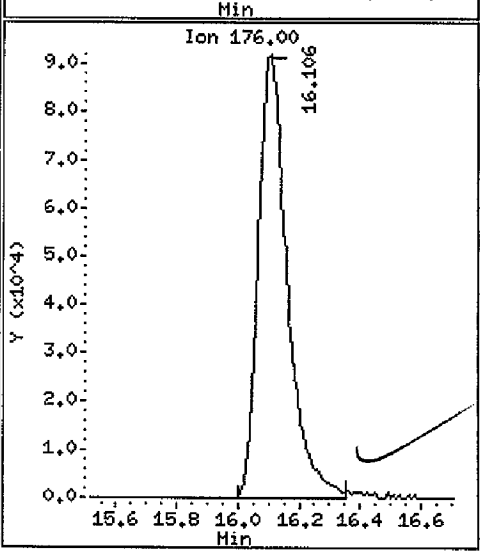












STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20256.D
Lab Smp Id: EQWL41AC
Client Smp ID: D20256
Inj Date : 21-DEC-2001 20:19
Operator : GFB
Inst ID: md.i
Smp Info : EQWL41AC,MS,2,,0,1,0,8260BDA.M,D20256
Misc Info : 353-6S,,5,,3,SPK.SUB,SH.SPK
Comment :
Method : \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m
Meth Date : 21-Dec-2001 14:06 beckmang
Quant Type: ISTD
Cal Date : 29-NOV-2001 12:25
Cal File: DS3379.D
Als bottle: 14
QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: SPK.SUB
Target Version: 4.00
Processing Host: ANAP1060

Concentration Formula: Amt * DF * Uf * (Vp/(Ws *(100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
8 1,1-Dichloroethene(*)	96	3.559	3.556	(0.432)	302789	34.2753	34.28
$ 29 Dibromofluoromethane	111	7.166	7.173	(0.871)	685123	46.2195	46.22
$ 33 1,2-Dichloroethane-d4	65	7.757	7.755	(0.943)	533681	47.8347	47.83
34 1,2-Dichloroethane-d4 2nd	102	7.757	7.755	(0.943)	130631	47.7707	47.77
35 Benzene	78	7.688	7.695	(0.934)	1133972	34.0152	34.02(R)
* 38 Fluorobenzene	96	8.230	8.237	(1.000)	1524373	50.0000	
39 Trichloroethene	130	8.841	8.839	(1.074)	470615	33.8262	33.83(R)
$ 47 Toluene-d8	98	11.010	11.017	(0.800)	1371931	42.6778	42.68
48 Toluene (*)	91	11.138	11.135	(0.809)	1316173	30.3791	30.38(R)
* 56 Chlorobenzene-d5	117	13.759	13.747	(1.000)	1311768	50.0000	
57 Chlorobenzene (**)	112	13.809	13.816	(1.004)	887909	29.1950	29.19(R)
$ 67 4-Bromofluorobenzene	95	16.105	16.102	(0.875)	976186	40.6942	40.69
66 4-Bromofluorobenzene-2nd	174	16.105	16.122	(0.875)	634513	42.4298	42.43
* 79 1,4-Dichlorobenzene-d4	152	18.411	18.428	(1.000)	791795	50.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: D20256.D
Lab Smp Id: EQWL41AC
Analysis Type: VOA
Quant Type: ISTD
Operator: GFB
Method File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m
Misc Info: 353-6S,,5,,3,SPK.SUB,SH.SPK

Calibration Date: 21-DEC-2001
Calibration Time: 13:29
Client Smp ID: D20256
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	1731442	865721	3462884	1524373	-11.96
56 Chlorobenzene-d5	1407217	703609	2814434	1311768	-6.78
79 1,4-Dichlorobenze	807389	403695	1614778	791795	-1.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	8.24	7.74	8.74	8.23	-0.09
56 Chlorobenzene-d5	13.75	13.25	14.25	13.76	0.09
79 1,4-Dichlorobenze	18.43	17.93	18.93	18.41	-0.09

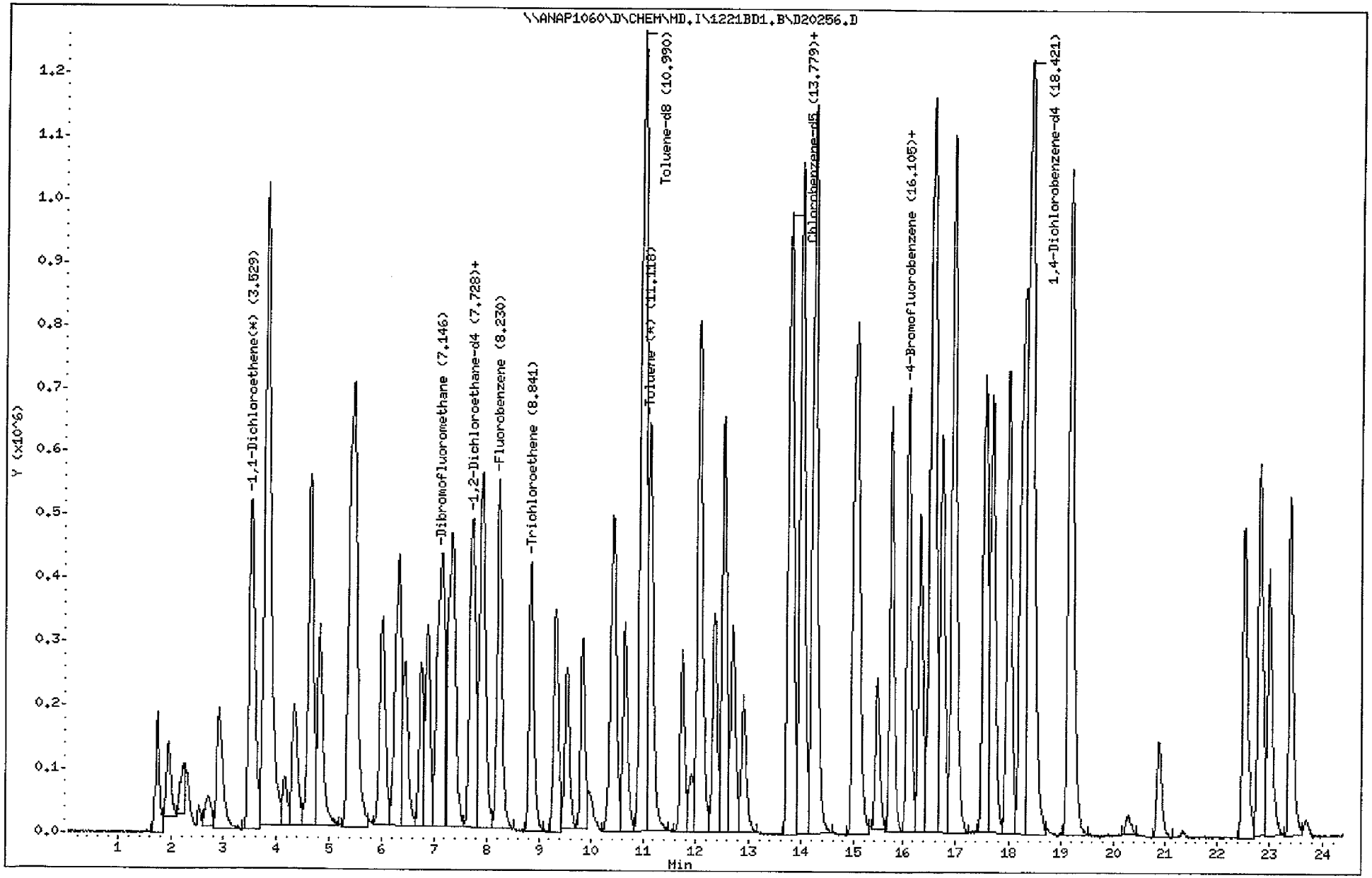
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20256.D
Date : 21-DEC-2001 20:19
Client ID: D20256
Sample Info: EQWL41AC,MS,2,,0,1,0,8260BDA,M,D20256

Column phase: J&W DB-624

Instrument: md.i

Operator: GFB
Column diameter: 0.53



BOE-C6-0000602

STL Los Angeles

VOLATILE REPORT low level 8260B

Data file : \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20257.D
Lab Smp Id: EQWL41AD Client Smp ID: D20257
Inj Date : 21-DEC-2001 20:49
Operator : GFB Inst ID: md.i
Smp Info : EQWL41AD,MSD,2,,0,1,0,8260BDA.M,D20257
Misc Info : 353-6D,,5,,3,SPK.SUB,SH.SPK
Comment :
Method : \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m
Meth Date : 21-Dec-2001 14:06 beckmang Quant Type: ISTD
Cal Date : 29-NOV-2001 12:25 Cal File: DS3379.D
Als bottle: 15 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SPK.SUB
Target Version: 4.00
Processing Host: ANAP1060

Concentration Formula: Amt * DF * Uf * (Vp/(Ws *(100-M)/100))/1000

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vp	5000.000	Purge Volume
Ws	5.000	Weight of sample extracted
M	0.000	% moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
8 1,1-Dichloroethene(*)	96	3.545	3.556	(0.431)	362821	40.4977	40.50
$ 29 Dibromofluoromethane	111	7.152	7.173	(0.869)	705870	46.9547	46.95
$ 33 1,2-Dichloroethane-d4	65	7.754	7.755	(0.942)	546285	48.2812	48.28
34 1,2-Dichloroethane-d4 2nd	102	7.744	7.755	(0.941)	133169	48.0195	48.02
35 Benzene	78	7.694	7.695	(0.935)	1376296	40.7080	40.71
* 38 Fluorobenzene	96	8.227	8.237	(1.000)	1545944	50.0000	
39 Trichloroethene	130	8.838	8.839	(1.074)	581563	41.2175	41.22
$ 47 Toluene-d8	98	11.016	11.017	(0.801)	1372000	42.2928	42.29
48 Toluene (*)	91	11.134	11.135	(0.809)	1589553	36.3562	36.36
* 56 Chlorobenzene-d5	117	13.756	13.747	(1.000)	1323777	50.0000	
57 Chlorobenzene (**)	112	13.805	13.816	(1.004)	1094874	35.6736	35.67
$ 67 4-Bromofluorobenzene	95	16.101	16.102	(0.874)	974748	40.5916	40.59
66 4-Bromofluorobenzene-2nd	174	16.111	16.122	(0.874)	631535	42.1862	42.19
* 79 1,4-Dichlorobenzene-d4	152	18.427	18.428	(1.000)	792629	50.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL Los Angeles

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: D20257.D
Lab Smp Id: EQWL41AD
Analysis Type: VOA
Quant Type: ISTD
Operator: GFB
Method File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\8260BDA.m
Misc Info: 353-6D,,5,,3,SPK.SUB,SH.SPK

Calibration Date: 21-DEC-2001
Calibration Time: 13:29
Client Smp ID: D20257
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	1731442	865721	3462884	1545944	-10.71
56 Chlorobenzene-d5	1407217	703609	2814434	1323777	-5.93
79 1,4-Dichlorobenze	807389	403695	1614778	792629	-1.83

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
38 Fluorobenzene	8.24	7.74	8.74	8.23	-0.13
56 Chlorobenzene-d5	13.75	13.25	14.25	13.76	0.07
79 1,4-Dichlorobenze	18.43	17.93	18.93	18.43	-0.00

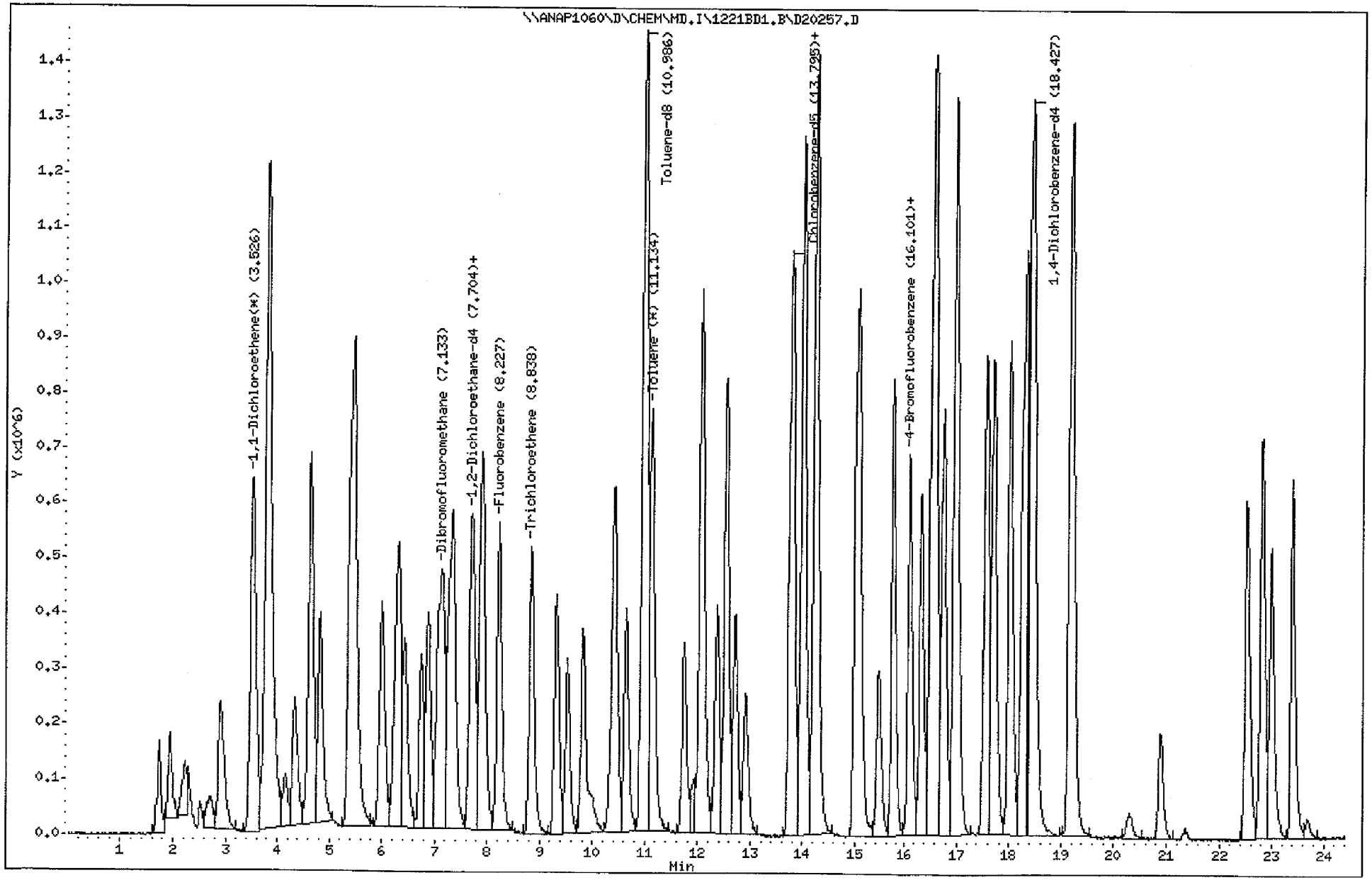
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\ANAP1060\D\CHEM\MD.I\1221BD1.B\D20257.D
Date : 21-DEC-2001 20:49
Client ID: D20257
Sample Info: EQWL41AD,MSD,2,,0,1,0,8260BDA.M,D20257

Column phase: J&W DB-624

Instrument: md.i

Operator: CFB
Column diameter: 0.53



BOE-C6-0000606

SEVERN TRENT SERVICES

Metals
Extended Raw Data

Lot ID: E1L200353

I certify that, to the best of my knowledge, the attached package is a complete and accurate representation of the original data.

Signature / Date: 01/09/02

SEVERN
TRENT
SERVICES

Metals
Preparation Notes

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 12/26/01
Time: 14:40:33

BATCH NUMBER: 1355386

PREP DATE: 12/26/01
DUE DATE 12/26/01

COMP DATE: 12/26/01
INITIALS: HT

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
E1L200353	EQWLH	01	_____g	X .60 g	_____g	_____g
SOLID	TO DUE DATE:		12/26/01			
	EQWLHS		_____g	_____g	_____g	_____g
	EQWLHD		_____g	_____g	_____g	_____g
E1L200353	EQWLW	01	_____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWLX	01	_____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWL0	01	_____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWL2	01	_____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWL4	01	_____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWL6	01	_____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWL7	01	_____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWL8	01	_____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWL9	01	_____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWMA	01	_____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWMC	01	_____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		12/26/01			
E1L210000	EQXP8B	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		0/00/00			
	EQXP8C		_____g	_____g	_____g	_____g

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 12/26/01
Time: 14:40:33

BATCH NUMBER: 1355386

PREP DATE: 12/26/01
DUE DATE 12/26/01

COMP DATE: 12/26/01
INITIALS: HT

LEVEL 2
BLANK AND CHECK STANDARD ON BATCH _____
MS/MSD AND PDS ON BATCH _____
CURVE PREPPED FOR HG _____
CORRECT SPIKES ADDED _____
SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG _____

COMMENTS: Final Volume 100ml
B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
SPIKING WITNESSED BY _____

ICP ELEMENTS WITHIN THE BATCH:

MS/MSD 1:	ICP - 1	ICP - 2	GFAA	HG	ODD
MS/MSD 2:	ICP - 1	ICP - 2	GFAA	HG	ODD
MS/MSD 3:	ICP - 1	ICP - 2	GFAA	HG	ODD
CHECK :	ICP - 1	ICP - 2	GFAA	HG	ODD
CHECK DUP:	ICP - 1	ICP - 2	GFAA	HG	ODD
STANDARD NUMBERS	_____	_____	____	___	___

SEVERN TRENT SERVICES

STL LOS ANGELES
Metals Preparation Work Sheet

Batch: 1355 336
The following information applies to all samples associated with the above batch number.

Prepared By: HT
Reviewed By: KZ

Date/Time Initiated: 12/26/01 9:30
Date/Time Completed: 12/26/01 10:15

Water Bath # 3 Temp* 95 °C Thermometer # FP-1811
*Thermometer correction applied. (CF - 0.5 °C)

Spike Standards for LCS, MS/MSD and ICV samples (*Volume of Working standard). Pipette # M1-3
Pipette # M1-4
Pipette # MS-2

	*Volume	Lot #	Exp. Date
1. Hg MS	1 mL	Hg-062901	07/2002
2. Hg LCS	5 mL	Hg-062901	07/2002
3. Hg ICV	2.5 mL	Hg-062901	07/2002

Preparation Reagents	Volume	Lot #
*HNO_3	1.25 mL	6623 T09A05
*HCl	3.75 mL	5587 V05A15
$KMnO_4$	15 mL	005485
$K_2S_2O_8$	8.0 mL	005740

* 3 HCl : 1HNO_3 as Aqua Regia

Analysis Reagents	Volume	Lot#
NH_2OH-HCl+ NaCl	6.0 mL	997083+ 986411
$SnCl_2$ + HCl	Controlled by instrument	005668+ 5587 V05A15

SOP No. CORP-MT-0007, Revision 2, Date: 8/01/99

Method 7471A/245.5
Sample size 0.6 g (well mixed)

Step 1. **Standards**-Add 5 mL of aqua regia and mix.
Samples-Add 5 mL of DI water and 5 mL of aqua regia and mix.
Step 2. Heat for 2 min. at 95 °C ±5 °C.
Step 3. Cool
Step 4. Add 50 mL of DI water and mix.
Step 3. Add 15 mL of $KMnO_4$ and mix.
Step 4. Add 8 mL of $K_2S_2O_8$ and mix
Step 5. Heat at 95 °C ±5 °C for 30 min.
Step 6. Cool
Step 7. Add 6 mL of NH_2OH-HCl and mix.
Step 8. **Standards**-Add 50 mL of DI water and mix.
Samples- Add 55 mL of DI water and mix.

Standards to be prepared with each batch
To each standard add DI water for a total vol. of 10 mL

Standard	Concentration (mg/L)
Std. 0/ICB/CCB	0
Std. 1	0.0002
Std. 2	0.0005
Std. 3	0.001
Std. 4/CCV	0.005
Std. 5	0.010
ICV	0.0025

Redigestion required - Samples/Reason: _____
Requested By: _____ Date: _____ Completed By: _____ Date: _____

Digestate Chain-of-Custody:
Relinquished By: HT Date: 12/26/01 Received By: [illegible] Date: 12/26/01

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12/05/01

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 12/26/01
Time: 12:01:01

BATCH NUMBER: **1355373**

PREP DATE: 12/21/01
DUE DATE 12/25/01

COMP DATE: 12/21/01
INITIALS: JZ

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
E1L180279	EQPNF	01	X 1.00 g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		12/25/01			
E1L200353	EQWLH	01	X 1.00 g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		12/26/01			
	EQWLHS		1.00 g	_____ g	_____ g	_____ g
	EQWLHD		1.00 g	_____ g	_____ g	_____ g
E1L200353	EQWLW	01	X 1.01 g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWLX	01	X 1.01 g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWL0	01	X 1.01 g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWL2	01	X 1.01 g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWL4	01	X 1.00 g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWL6	01	X 1.00 g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWL7	01	X 1.00 g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWL8	01	X 1.00 g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWL9	01	X 1.00 g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWMA	01	X 1.00 g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		12/26/01			
E1L200353	EQWMC	01	X 1.00 g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		12/26/01			
E1L210160	EQXDE	01	X 1.00 g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		12/27/01			

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 12/26/01
Time: 12:01:01

BATCH NUMBER: 1355373

PREP DATE: 12/21/01
DUE DATE 12/25/01

COMP DATE: 12/21/01
INITIALS: GJ

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
E1L210160	EQXD7	01	X 1.00 g	_____g	_____g	_____g
SOLID	TO DUE DATE:		12/27/01			
E1L210000	EQXPKB	01	X 1.00 g	_____g	_____g	_____g
SOLID	DUE DATE:		0/00/00			
	EQXPKC		1.02 g	_____g	_____g	_____g

LEVEL 2
BLANK AND CHECK STANDARD ON BATCH _____
MS/MSD AND PDS ON BATCH _____
CURVE PREPPED FOR HG _____
CORRECT SPIKES ADDED _____
SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG_____

COMMENTS: F.V. =100ML

B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS

SPIKING WITNESSED BY _____

ICP ELEMENTS WITHIN THE BATCH:

AG AL AS BA BE BX CA CD CO CR CU FE KX MG MN MO NA NI PB SB SE SN

MS/MSD 1:	ICP - 1	ICP - 2	GFAA	HG	ODD
MS/MSD 2:	ICP - 1	ICP - 2	GFAA	HG	ODD
MS/MSD 3:	ICP - 1	ICP - 2	GFAA	HG	ODD
CHECK :	ICP - 1	ICP - 2	GFAA	HG	ODD
CHECK DUP:	ICP - 1	ICP - 2	GFAA	HG	ODD
STANDARD NUMBERS	_____	_____	____	___	___

SEVERN TRENT SERVICES

STL LOS ANGELES
Metals Preparation Work Sheet

Batch: 1355373
The following information applies to all samples associated with the above batch number.

Prepared By: [signature] Date/Time Initiated: 12/21/01 / 1230
Reviewed By: [signature] Date/Time Completed: 12/21/01 / 1830

Hot Plate/Block # 1 Temp* 95 °C Thermometer # B-Q024
*Thermometer correction applied. (CF +0.0 °C)

Spike Standards for LCS and MS/MSD samples. Pipette # M1-3

	Volume	Lot #	Exp. Date
1. QSPK1A	1.0 mL	QSPK1A- 101501-2	09/200 4
2. QSPK1B	1 mL	QSPK1B – 100301-1	11/2004
3. QSPK2A	1 mL	QSPK2A- 120700-1	04/2002
4. QSPK2B	0 mL	QSPK2B -120700-1	12/2001

Reagents	Volume	Lot #
HNO_3	10 mL	6623 T09A05
H_2O_2	4 mL	5240T15A01
HCl	10 mL	5587 V05A15

SOP No. CORP-IP-0002, Revision 2, Date: 7/2/99

Method 3050B

Step 1. Thoroughly mix and weigh 1.0g (±0.01g) sample.
Step 2. Add 10 mL of 1:1 HNO_3 .
Step 3. Cover and heat at 95°C for 10 min.
Step 4. Cool and add 5 mL conc. HNO_3, cover and heat at 95 °C for 30 min.
Step 5. If brown fumes observed, repeat last step until no fumes are evolved.
Step 6. Reduce volume to approx. 5 mL or heat for 2 hours.
Step 7. Cool and add 2 mL of water and 3 Ml of 30% H_2O_2.
Step 8. Heat until effervescence subsides.
Step 9. Cool and add 1 mL H_2O_2 with heat effervescence is minimal.
Step 10. Reduce volume to approx. 5 mL or heat for 2 hours. — 5:00
Step 11. Add 10 mL of conc. HCl and heat for 15 min.
Step 12. Cool, rinse and filter sample with DI water.
Step 13. Dilute to100 mL with DI water and mix sample.

Redigestion required - Samples/Reason: _____
Requested By: _____ Date: _____ Completed By: _____ Date: _____

Digestate Chain-of-Custody:
Relinquished By: [signature] Date: 12/21/01 Received By: [signature] Date: 12/26/01

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12/12/01

SEVERN
TRENT
SERVICES

Initial Calibration

(For all Inorganic Tests the Initial Calibrations are included in the Sample Raw Data section of this package)

SEVERN
TRENT
SERVICES

Metals
Sample Raw Data

STL Los Angeles
ICAP Data Summary Cover Sheet

SEVERN TRENT SERVICES

Mercury
Instrument ID: Leeman PS200 – M03
Leeman PS200 – M04 ✓

Analyst: HT
Analytical Date: 12/26/01
Data File: HG11226A
Corr. Coeff.: 0.9999

Analysis by SOP: 7470 - 245.1 - CORP-MT-0005SA Rev 1.1 ___
7471 - 245.5 - CORP-MT-0007SA Rev 1.1 ✓

Batch	Lot/Project	Data Upload	Review/Release	Pkg.
1355386	EIL200353	12/26/01		L3

Calibration Stds:
Preparation: Date 12/26/01 Time 9:30
Calibration Stock Standard Concentration 1000mg/L Lot# Hg-060800 Exp. Date 05/02
Intermediate Standard – 1000ug/L – requires 100X dilution of Stock Std.
Cal Working Standard - 100ug/L - requires 100X dilution of Intermediate Std.
Std.1 - 0.2 ug/L 500X dilution of Cal Working Standard (0.2mL to 100mL)
Std.2 - 0.5 ug/L 200X dilution of Cal Working Standard (0.5mL to 100mL)
Std.3 - 1.0 ug/L 100X dilution of Cal Working Standard (1.0mL to 100mL)
Std.4 - 5.0 ug/L 20X dilution of Cal Working Standard (5.0mL to 100mL)
Std.5 - 10 ug/L 10X dilution of Cal Working Standard (10.0mL to 100mL)
Calibration Check Stds:
CRA - 0.2 ug/L - 500X dilution of Cal Working Standard (0.2mL to 100mL)
ICV Stock Standard Concentration 1000 mg/mL Lot# Hg-062901Exp. Date 07/2002
ICV Working Standard - 100 ug/L - two dilutions of ICV Stock -first 100X then a 100X
ICV - 2.5 ug/L - 40X dilution of ICV Working Standard (2.5mL to 100mL)
CCV - 5.0 ug/L - 20X dilution of Cal Working Standard (5.0mL to 100mL)

Notes/Comments:

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11/21/01

FURNACE DATA SHEET

File: HG11226A Element: HG__ Instrument: LEEMAN HG_____

Start Run Date: 12/26/01 End Run Date: 12/26/01

Correlation Coefficient: _-1.000000 Slope: __0.000000 Intercept: __0.000000

.9999 HT. 12/26/01

Concentration Units: Ug/L

#	SAMPLE ID	Time	Dil Factor	Sample (Absorb)	Sample (Conc)	%R/R	Flag			
1	S0	13:03	1.00		0.0000					
2	S.2	13:05	1.00		0.2000					
3	S.5	13:07	1.00		0.5000					
4	S1	13:09	1.00		1.0000					
5	S5	13:10	1.00		5.0000					
6	S10	13:12	1.00		10.0000					
7	ICV	13:21	1.00		2.4400	98				
8	ICB	13:23	1.00		-0.0160		ND			
9	EQXP8B	13:25	1.00		-0.0300		ND			
10	EQXP8C	13:26	1.00		4.5900	92				
11	EQWLH	13:28	1.00		0.3740		.062			
12	EQWLHS	13:30	1.00		1.3500	98	.225			
13	EQWLHD	13:32	1.00		1.3700	100	.228			
14	EQWLW	13:34	1.00		-0.0480		ND			* Rerun.
15	EQWLX	13:36	1.00		0.2350		.039			
16	EQWL0	13:37	1.00		0.2160		.036			
17	CCV	13:39	1.00		5.1400	103				
18	CCB	13:41	1.00		-0.0190		ND			
19	EQWL2	13:43	1.00		0.2440		.041			
20	EQWL4	13:44	1.00		0.2170		.036			
21	EQWL6	13:46	1.00		0.2650		.044			
22	EQWL7	13:48	1.00		0.2370		.039			
23	EQWL8	13:49	1.00		0.2300		.038			
24	EQWL9	13:51	1.00		0.2790		.046			
25	EQWMA	13:53	1.00		0.2210		.037			
26	EQWMC	13:55	1.00		0.4010		.067			
27	CCV	13:56	1.00		5.1600	103				
28	CCB	13:58	1.00		-0.0360		ND			
29										
30										
31										
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37										
38										
39										
40										

Analyst: TONH_____ QC Reviewer: _____

FURNACE DATA SHEET

File: HG11226C Element: HG Instrument: LEEMAN HG

Start Run Date: 12/26/01 End Run Date: 12/26/01

Correlation Coefficient: -1.000000 Slope: 0.000000 Intercept: 0.000000

Concentration Units: Ug/L

#	SAMPLE ID	Time	Dil Factor	Sample (Absorb)	Sample (Conc)	%R/R	Flag		
1	S0	15:13	1.00		0.0000				
2	S.2	15:15	1.00		0.2000				
3	S.5	15:17	1.00		0.5000				
4	S1	15:19	1.00		1.0000				
5	S5	15:21	1.00		5.0000				
6	S10	15:23	1.00		10.0000				
7	ICV	15:29	1.00		2.3600	94			
8	ICB	15:31	1.00		0.0210		ND		
9	EQXP8B	15:33	1.00		0.0650		ND		
10	EQXP8C	15:35	1.00		4.5800	92			
11	EQWLW	15:37	1.00		0.3240		.054		
12	CCV	15:39	1.00		5.1200	102			
13	CCB	15:41	1.00		0.0380		ND		
14									
15									
16									
17									
18									
19									
20									
21									
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37									
38									
39									
40									

Analyst: TONH QC Reviewer:

*** Standard: 1 Rep: 1				Seq:	1	[illegible]	[illegible]	Dec	[illegible]
Hg	.000	ppb	[illegible]						
*** Standard: 2 Rep: 1				Seq:	1	13:05:22	26	Dec	2001 HG
Hg	.200	ppb	10424						
*** Standard: 3 Rep: 1				Seq:	2	13:07:18	26	Dec	2001 HG
Hg	.500	ppb	22665						
*** Standard: 4 Rep: 1				Seq:	3	13:09:05	26	Dec	2001 HG
Hg	1.00	ppb	42674						
*** Standard: 5 Rep: 1				Seq:	4	13:10:48	26	Dec	2001 HG
Hg	5.00	ppb	210499						
*** Standard: 6 Rep: 1				Seq:	5	13:12:34	26	Dec	2001 HG
Hg	10.0	ppb	416099						

RunProt: HG-A Err: Prep needs maintenance Mode: Analyze

RunFold: HG112Z6A Seq: 6 Batch: RunPrep: prp7470

Prnt: R/T On Pump: On

Rev: 4.2 13:13:05 26 Dec 2001 Xmit: Off Gas: 0.70 LPM

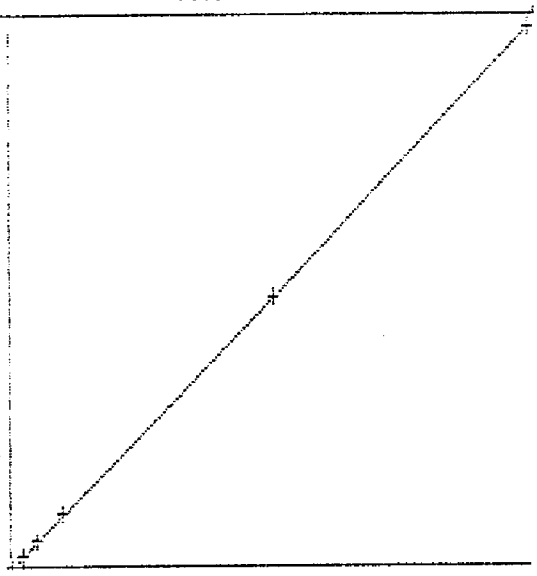
Idle None User: ht A/S: On

CALIBRATION: Line proto: HG-A

	Hg Conc.	Calc.	Dev.	Accepted liNear	
S1	.000	.007	.007	->quadratic	
S2	.200	.209	.009	Wtdlinear	
S3	.500	.501	.001		C
S4	1.00	.978	-.022	Accept	o
S5	5.00	5.01	.007		n
S6	10.0	10.0	-.002		c

A 7.3281e-13 r .999996

B 2.38195e-5 C -3.95463e-2



Relative Absorbance

	Mean			
S1	1949	0	SD	1949
S2	10424	0	%RSD	10424
S3	22665	0	%RSD	22665
S4	42674	0	%RSD	42674
S5	210499	0	%RSD	210499
S6	416099	0	%RSD	416099

New cal coefficients stored

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: IC7					Seq: 6	13:01:46 26 Dec 2001 HG		
Hg	2.44	ppb	.000	2.44				
*** Sample ID: IC8					Seq: 7	13:23:21 26 Dec 2001 HG		
Hg	-.016	ppb	.000	-.016				
*** Sample ID: EQXP6B					Seq: 8	13:25:13 26 Dec 2001 HG		
Hg	-.030	ppb	.000	-.030				
*** Sample ID: EQXP3D					Seq: 9	13:28:52 26 Dec 2001 HG		
Hg	4.59	ppb	.000	4.59				
*** Sample ID: EQWLH					Seq: 10	13:29:35 26 Dec 2001 HG		
Hg	.374	ppb	.000	.374				
*** Sample ID: EQWLHB					Seq: 11	13:30:14 26 Dec 2001 HG		
Hg	1.35	ppb	.000	1.35				
*** Sample ID: EQWLHD					Seq: 12	13:33:14 26 Dec 2001 HG		
Hg	1.37	ppb	.000	1.37				
*** Sample ID: EQWLW					Seq: 13	13:34:14 26 Dec 2001 HG		
Hg	-.048	ppb	.000	-.048				
*** Sample ID: EQWLX					Seq: 14	13:36:15 26 Dec 2001 HG		
Hg	.235	ppb	.000	.235				
*** Sample ID: EQWLD					Seq: 15	13:37:56 26 Dec 2001 HG		
Hg	.218	ppb	.000	.218				
*** Sample ID: IC9					Seq: 16	13:39:45 26 Dec 2001 HG		
Hg	5.14	ppb	.000	5.14				
*** Sample ID: IC2					Seq: 17	13:41:29 26 Dec 2001 HG		
Hg	-.015	ppb	.000	-.015				

[illegible]

Line	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
*** Sample ID: EQWL2					Seq: 18	13:43:07 26 Dec 2001 HG		
Hg	.244	ppb	.000	.244				
*** Sample ID: EQWL4					Seq: 19	13:44:45 26 Dec 2001 HG		
Hg	.217	ppb	.000	.217				
*** Sample ID: EQWL6					Seq: 20	13:46:27 26 Dec 2001 HG		
Hg	.265	ppb	.000	.265				
*** Sample ID: EQWL7					Seq: 21	13:48:14 26 Dec 2001 HG		
Hg	.237	ppb	.000	.237				
*** Sample ID: EQWL8					Seq: 22	13:49:53 26 Dec 2001 HG		
Hg	.230	ppb	.000	.230				
*** Sample ID: EQWL9					Seq: 23	13:51:32 26 Dec 2001 HG		
Hg	.279	ppb	.000	.279				
*** Sample ID: EQWMA					Seq: 24	13:53:32 26 Dec 2001 HG		
Hg	.221	ppb	.000	.221				
*** Sample ID: EQWMC					Seq: 25	13:55:16 26 Dec 2001 HG		
Hg	.401	ppb	.000	.401				
*** Sample ID: CCV					Seq: 26	13:56:56 26 Dec 2001 HG		
Hg	5.16	ppb	.000	5.16				
*** Sample ID: CCB					Seq: 27	13:58:35 26 Dec 2001 HG		
Hg	-.036	ppb	.000	-.036				

*** [illegible] Seq: [illegible] [illegible] 26 Dec 2001 [illegible]

Hg [illegible] ppb [illegible]

*** Standard: 2 Rep: 1 Seq: 1 15:15:26 26 Dec 2001 HG

Hg .200 ppb 9422

*** Standard: 3 Rep: 1 Seq: 2 15:17:34 26 Dec 2001 HG

Hg .500 ppb 22409

*** Standard: 4 Rep: 1 Seq: 3 15:19:21 26 Dec 2001 HG

Hg 1.00 ppb 43240

*** Standard: 5 Rep: 1 Seq: 4 15:21:08 26 Dec 2001 HG

Hg 5.00 ppb 216534

*** Standard: 6 Rep: 1 Seq: 5 15:23:44 26 Dec 2001 HG

Hg 10.0 ppb 425522

RunProt: HG-A Err: Analyzer needs maintenance Mode: Analyze

RunFold: HG11226C Seq: 6 Batch: RunPrep: prp7470

Prnt: R/T On Pump: On

Rev: 4.2 15:24:06 26 Dec 2001 Xmit: Off Gas: 0.70 LPM

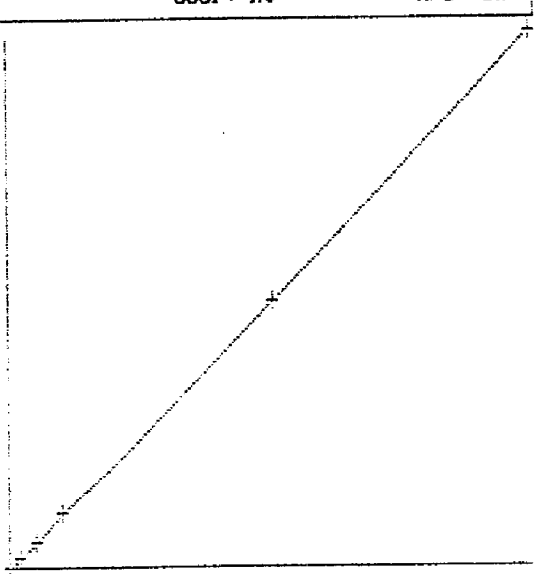
Idle None User: ht A/S: On

CALIBRATION: Line proto: HG-A

	Hg Conc.	Calc.	Dev.	Accepted liNear	
S1	.000	.004	.004	->quadratic	
S2	.200	.207	.007	Wtdlinear	
S3	.500	.504	.004		C
S4	1.00	.981	-.019	Accept	o
S5	5.00	5.01	.006		n
S6	10.0	10.0	-.001		c

A 1.7356e-12 r .999997

B 2.27768e-5 C -7.59060e-3



Relative Absorbance

	Mean		SD	
S1	517	0	SD	517
S2	9422	0	%RSD	9422
S3	22409	0	%RSD	22409
S4	43240	0	%RSD	43240
S5	216534	0	%RSD	216534
S6	425522	0	%RSD	425522

New cal coefficients stored

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: ICV				Seq: 6	15:29:51 26 Dec 2001 HG			
Hg	2.36	ppb	.000	2.36				
*** Sample ID: ICB				Seq: 7	15:31:36 26 Dec 2001 HG			
Hg	.021	ppb	.000	.021				
*** Sample ID: EQXPSB				Seq: 8	15:32:35 26 Dec 2001 HG			
Hg	.065	ppb	.000	.065				
*** Sample ID: EQXPSC				Seq: 9	15:35:15 26 Dec 2001 HG			
Hg	4.58	ppb	.000	4.58				
*** Sample ID: EQWLW				Seq: 10	15:37:39 26 Dec 2001 HG			
Hg	.324	ppb	.000	.324				
*** Sample ID: CCV				Seq: 11	15:39:27 26 Dec 2001 HG			
Hg	5.12	ppb	.000	5.12				
*** Sample ID: CCB				Seq: 12	15:41:16 26 Dec 2001 HG			
Hg	.038	ppb	.000	.038				

STL Los Angeles
ICAP Data Summary Cover Sheet

SEVERN TRENT SERVICES

Instrument ID: ICPT - M01

Analyst: HT/JGA
Analytical Date: 12/26/01

Analysis by SOP: 6010B - 200.7 - SANA-MT-0007, Rev 0, 12/07/00

Data File: P122601

Batch	Lot/Project	Data Upload	Review/Release	Pkg.
1355333	EIL 200195	12/26/01	12/28/01	
	EIL 210227		12/26/01	
1355373	EIL 180279	12/27/01	12/28/01	
	EIL 200353			L3
	EIL 210160			
1355530	EIL 190208		12/27/01	
1360232	EIL 210335		12/28/01	
	EIL 210336			
1355333	EIL 200297			

Standards

Calibration Stds:	**Lot #**	**Calibration Check Stds:**	**Lot #**
1. Blank	MET01-0198-T1	ICV-HP	MET01-0199-T4
2. STD1	MET01-0201-T2	CCV	MET01-0202-T5
3.		ICSA	MET01-0196-T7
4.		ICSAB	MET01-0200-T8
5.		5.	
6.		6.	

Internal Standard: ICB 9250

+30% 9425

-30% 5675

Notes/Comments:

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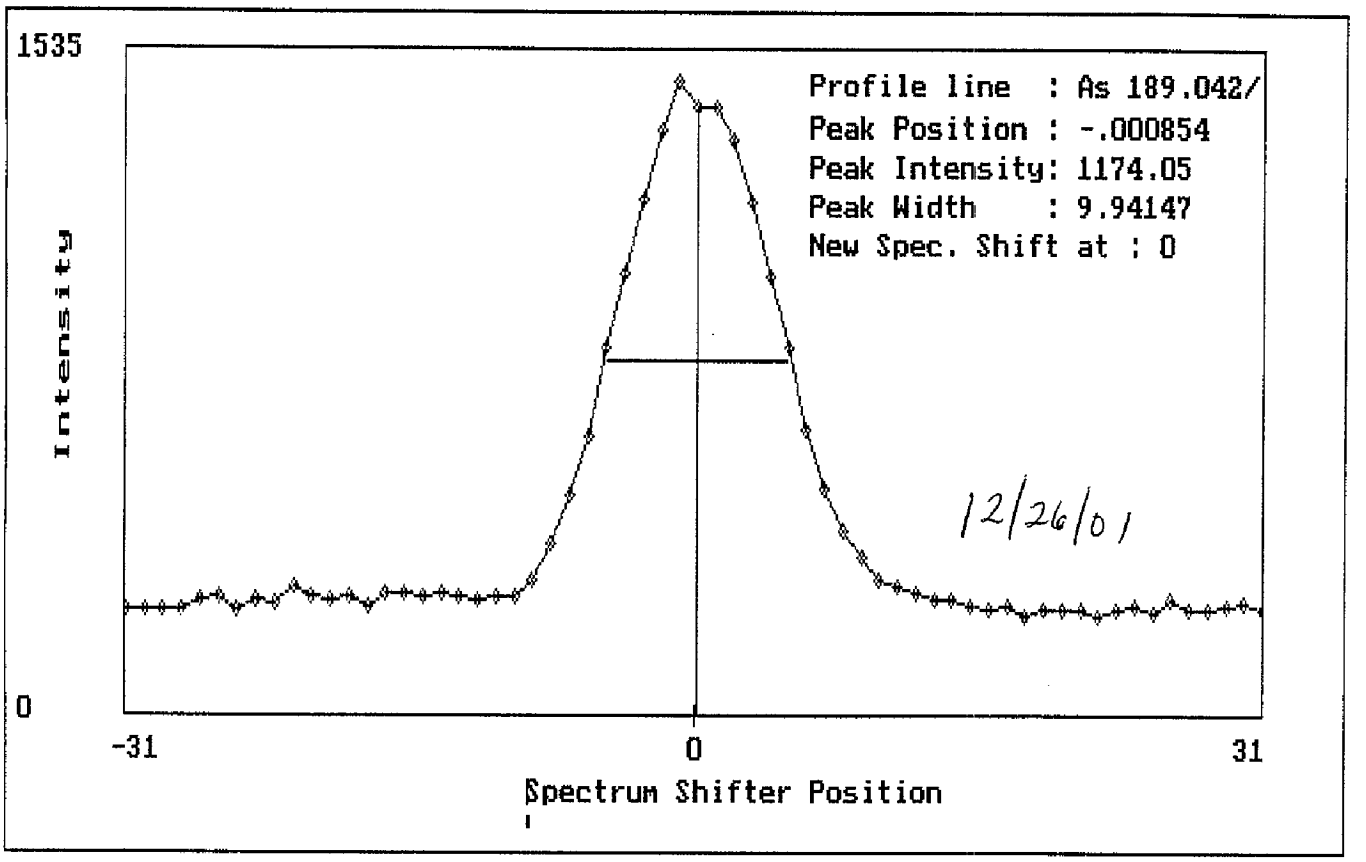
08/31/01

Analysis Report Summary 12/27/01 10:48:55 AM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STDBLK	P122601	QTESTI	12/26/01	10:40		X	IR
2	STD1	P122601	QTESTI	12/26/01	10:46		X	IR
3	ICVHP	P122601	QTESTI	12/26/01	10:53	JGA	S	CONC
4	ICB	P122601	QTESTI	12/26/01	11:01	JGA	S	CONC
5	ICSA	P122601	QTESTI	12/26/01	11:07	JGA	S	CONC
6	ICSABCLP	P122601	QTESTI	12/26/01	11:13	JGA	S	CONC
7	CRI	P122601	QTESTI	12/26/01	11:21	JGA	S	CONC
8	EQXPKB 1X 1355373	P122601	QTESTI	12/26/01	11:28	JGA	S	CONC
9	EQXPKC	P122601	QTESTI	12/26/01	11:34	JGA	S	CONC
10	EQXJ6B 1X 1355333	P122601	QTESTI	12/26/01	11:49	JGA	S	CONC
11	EQXJ6C	P122601	QTESTI	12/26/01	11:55	JGA	S	CONC
12	EQX4H 20X	P122601	QTESTI	12/26/01	12:03	JGA	S	CONC
13	EQT40	P122601	QTESTI	12/26/01	12:11	JGA	S	CONC
14	CCVT	P122601	QTESTI	12/26/01	12:19	JGA	S	CONC
15	CCBT	P122601	QTESTI	12/26/01	12:27	JGA	Q	CONC
16	EQT40P	P122601	QTESTI	12/26/01	12:33	JGA	S	CONC
17	EQT40S	P122601	QTESTI	12/26/01	12:39	JGA	S	CONC
18	EQT40D	P122601	QTESTI	12/26/01	12:49	JGA	S	CONC
19	EQWL2 1355373	P122601	QTESTI	12/26/01	12:59	JGA	S	CONC
20	EQWL4	P122601	QTESTI	12/26/01	13:07	JGA	S	CONC
21	EQ~~LW6~~ WL6 12/27/01	P122601	QTESTI	12/26/01	13:15	JGA	S	CONC
22	EQWL7	P122601	QTESTI	12/26/01	13:23	JGA	S	CONC
23	EQWL8	P122601	QTESTI	12/26/01	13:31	JGA	S	CONC
24	EQWL9	P122601	QTESTI	12/26/01	13:39	JGA	S	CONC
25	EQWMA	P122601	QTESTI	12/26/01	13:47	JGA	S	CONC
26	CCVT	P122601	QTESTI	12/26/01	13:55	JGA	S	CONC
27	CCBT	P122601	QTESTI	12/26/01	14:03	JGA	Q	CONC
28	EQWMC	P122601	QTESTI	12/26/01	14:09	JGA	S	CONC
29	EQXDE	P122601	QTESTI	12/26/01	14:23	JGA	S	CONC
30	EQXD7	P122601	QTESTI	12/26/01	14:31	JGA	S	CONC
31	EQPNF - Ref	P122601	QTESTI	12/26/01	14:39	JGA	S	CONC
32	EQWLH 1355373	P122601	QTESTI	12/26/01	14:47	JGA	S	CONC
33	EQWLHP	P122601	QTESTI	12/26/01	14:55	JGA	S	CONC
34	EQWLHS	P122601	QTESTI	12/26/01	15:03	JGA	S	CONC
35	EQWLHD	P122601	QTESTI	12/26/01	15:11	JGA	S	CONC
36	EQWLW	P122601	QTESTI	12/26/01	15:19	JGA	S	CONC
37	EQWLX RR Ba 2X	P122601	QTESTI	12/26/01	15:27	JGA	S	CONC
38	CCVT	P122601	QTESTI	12/26/01	15:35	JGA	S	CONC
39	CCBT.	P122601	QTESTI	12/26/01	15:43	JGA	Q	CONC
40	EQWL0 1355373	P122601	QTESTI	12/26/01	15:49	JGA	S	CONC
41	EQT6J 1X 1355333	P122601	QTESTI	12/26/01	15:57	JGA	S	CONC
42	EQT6P	P122601	QTESTI	12/26/01	16:05	JGA	S	CONC
43	EQV60	P122601	QTESTI	12/26/01	16:13	JGA	S	CONC
44	EQPNF	P122601	QTESTI	12/26/01	16:21	JGA	S	CONC
45	EQ0XNB 10X 1355530	P122601	QTESTI	12/26/01	16:29	JGA	S	CONC
46	EQ0XNC 10X	P122601	QTESTI	12/26/01	16:34	JGA	S	CONC
47	EQQ1M 10X	P122601	QTESTI	12/26/01	16:42	JGA	S	CONC
48	EQQ1MP 10X	P122601	QTESTI	12/26/01	16:50	JGA	S	CONC
49	CCVT	P122601	QTESTI	12/26/01	16:58	JGA	S	CONC
50	CCBT	P122601	QTESTI	12/26/01	17:06	JGA	Q	CONC
51	EQQ1MS 10X	P122601	QTESTI	12/26/01	17:19	JGA	S	CONC
52	EQQ1MD 10X	P122601	QTESTI	12/26/01	17:27	JGA	S	CONC
53	EQQ1X 10X	P122601	QTESTI	12/26/01	17:35	JGA	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	EQQ12 10X	P122601	QTESTI	12/26/01	17:43	JGA	S	CONC
55	EQQ15 10X	P122601	QTESTI	12/26/01	17:51	JGA	S	CONC
56	EQ172B 1X 1360232	P122601	QTESTI	12/26/01	17:59	JGA	S	CONC
57	EQ172C	P122601	QTESTI	12/26/01	18:05	JGA	S	CONC
58	EQ01W	P122601	QTESTI	12/26/01	18:13	JGA	S	CONC
59	EQ01WP	P122601	QTESTI	12/26/01	18:21	JGA	S	CONC
60	EQ01WS	P122601	QTESTI	12/26/01	18:27	JGA	S	CONC
61	CCVT	P122601	QTESTI	12/26/01	18:35	JGA	S	CONC
62	CCBT	P122601	QTESTI	12/26/01	18:43	JGA	Q	CONC
63	EQ01WD	P122601	QTESTI	12/26/01	18:48	JGA	S	CONC
64	EQ012	P122601	QTESTI	12/26/01	18:56	JGA	S	CONC
65	EQ015	P122601	QTESTI	12/26/01	19:04	JGA	S	CONC
66	EQ017	P122601	QTESTI	12/26/01	19:10	JGA	S	CONC
67	EQ019	P122601	QTESTI	12/26/01	19:16	JGA	S	CONC
68	EQ02C	P122601	QTESTI	12/26/01	19:24	JGA	S	CONC
69	EQ02E	P122601	QTESTI	12/26/01	19:30	JGA	S	CONC
70	EQWLX 2X 1355373	P122601	QTESTI	12/26/01	19:36	JGA	S	CONC
71	CCVT	P122601	QTESTI	12/26/01	19:44	JGA	S	CONC
72	CCBT	P122601	QTESTI	12/26/01	19:52	JGA	Q	CONC


1535
0
Intensity
-31
0
31
Spectrum Shifter Position
Profile line : As 189.042/
Peak Position : -.000854
Peak Intensity: 1174.05
Peak Width : 9.94147
New Spec. Shift at : 0
12/26/01

Standardization Rpt. 12/26/01 10:46:43 AM

Method: QTESTI Standard: STDBLK
Run Time: 12/26/01 10:40:44

Elem	Al3082	As1890	Ba4934	Be3130	Cd_tr	Ca3179	Cr_tr
Avge	-.24357	-.03835	.00014	.01084	.05422	.00514	.00876
SDev	.00046	.00845	.00020	.00045	.00028	.00017	.00181
%RSD	.18948	22.046	141.42	4.1382	.51236	3.3102	20.705
#1	-.24390	-.03237	.00028	.01116	.05442	.00502	.01005
#2	-.24324	-.04433	.00000	.01053	.05402	.00526	.00748

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Mo2020	Ni2316
Avge	-.00014	.02961	-.00376	.00125	.00056	.00083	.00097
SDev	.00020	.00035	.00061	.00020	.00000	.00000	.00019
%RSD	141.42	1.1763	16.219	16.219	.51237	.51237	19.701
#1	.00000	.02986	-.00419	.00140	.00056	.00084	.00084
#2	-.00028	.02937	-.00332	.00111	.00055	.00083	.00111

Elem	Ag_tr	Na3302	Tl1908	Ti3349	V_2924	Zn2138	Sn1899
Avge	.00250	.02128	-.07103	-.00167	.00014	.00111	-.00139
SDev	.00080	.00266	.00259	.00001	.00020	.00001	.00001
%RSD	31.914	12.525	3.6393	.51237	141.42	.51237	.51237
#1	.00307	.02316	-.06921	-.00167	.00000	.00112	-.00140
#2	.00194	.01939	-.07286	-.00166	.00028	.00111	-.00139

Elem	2068_1	2068_2	2203_1	2203_2	1960_1	1960_2	B_2496
Avge	-.02056	.00459	.05250	-.00140	-.02308	.01835	.0006
SDev	.00540	.00140	.00823	.00473	.00208	.00069	.0004
%RSD	26.261	30.487	15.679	336.99	9.0298	3.7735	70.33
#1	-.01674	.00558	.05832	-.00474	-.02456	.01786	.0003
#2	-.02438	.00360	.04668	.00194	-.02161	.01884	.0008

Elem	Sr4215	Si2881
Avge	.0003	.1239
SDev	.0000	.0024
%RSD	.5124	1.941
#1	.0003	.1256
#2	.0003	.1222

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7193	--	--	--	--	--	--
SDev	36.85449	--	--	--	--	--	--
%RSD	.5123646	--	--	--	--	--	--
#1	7167	--	--	--	--	--	--
#2	7219	--	--	--	--	--	--

Method: QTESTI Standard: STD1
Run Time: 12/26/01 10:46:48

Elem	Al3082	As1890	Ba4934	Be3130	Cd_tr	Ca3179	Cr_tr
Avge	20.822	5.2603	4.0568	8.4958	30.166	3.0593	12.361
SDev	.006	.0112	.0078	.0071	.028	.0115	.037
%RSD	.02733	.21257	.19173	.08345	.09186	.37739	.30288
#1	20.818	5.2683	4.0623	8.4908	30.147	3.0511	12.334
#2	20.826	5.2524	4.0513	8.5008	30.186	3.0675	12.387

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Mo2020	Ni2316
Avge	2.0436	4.2009	5.1123	36.182	5.8331	.96174	2.1318
SDev	.0051	.0105	.0185	.068	.0156	.00615	.0017
%RSD	.24937	.24896	.36254	.18704	.26671	.63962	.07963
#1	2.0400	4.2083	5.0992	36.230	5.8221	.95739	2.1306
#2	2.0472	4.1936	5.1254	36.135	5.8441	.96609	2.1330

Elem	Ag_tr	Na3302	Tl1908	Ti3349	V_2924	Zn2138	Sn1899
Avge	8.1000	3.8661	5.9301	2.7822	2.4468	2.0774	.39071
SDev	.0104	.0116	.0154	.0010	.0033	.0050	.00141
%RSD	.12854	.29910	.25954	.03767	.13689	.24123	.36052
#1	8.0927	3.8580	5.9192	2.7814	2.4444	2.0738	.38971
#2	8.1074	3.8743	5.9410	2.7829	2.4492	2.0809	.39170

Elem	2068_1	2068_2	2203_1	2203_2	1960_1	1960_2	B_2496
Avge	2.7172	1.3326	9.9968	4.0070	.76375	.90655	1.185
SDev	.0187	.0020	.0350	.0244	.00048	.00678	.000
%RSD	.68728	.15082	.35019	.60786	.06313	.74771	.0056
#1	2.7040	1.3340	9.9720	3.9897	.76341	.90176	1.185
#2	2.7304	1.3312	10.022	4.0242	.76409	.91134	1.184

Elem	Sr4215	Si2881
Avge	6.863	2.169
SDev	.008	.004
%RSD	.1149	.1820
#1	6.868	2.172
#2	6.857	2.167

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6849	--	--	--	--	--	--
SDev	24.69211	--	--	--	--	--	--
%RSD	.3605141	--	--	--	--	--	--
#1	6867	--	--	--	--	--	--
#2	6832	--	--	--	--	--	--

Standardization Report 12/26/01 10:52:38 AM

Method: QTESTI Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Pb2203	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
Se1960	196.026	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
Sb2068	206.838	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
Al3082	308.215	STD1	STDBLK	2.37681	.578921	12/26/01 10:46:48
As1890	189.042	STD1	STDBLK	.188848	.007242	12/26/01 10:46:48
Ba4934	493.409	STD1	STDBLK	.986039	-.000138	12/26/01 10:46:48
Be3130	313.042	STD1	STDBLK	.471436	-.005113	12/26/01 10:46:48
Cd_tr	226.502	STD1	STDBLK	.033655	-.001825	12/26/01 10:46:48
Ca3179	317.933	STD1	STDBLK	65.4843	-.336815	12/26/01 10:46:48
Cr_tr	267.716	STD1	STDBLK	.323896	-.002838	12/26/01 10:46:48
Co2286	228.616	STD1	STDBLK	1.96310	.000272	12/26/01 10:46:48
Cu3247	324.753	STD1	STDBLK	.959671	-.028419	12/26/01 10:46:48
Fe2714	271.441	STD1	STDBLK	9.85837	.037020	12/26/01 10:46:48
Mg2790	279.078	STD1	STDBLK	5.52462	-.006915	12/26/01 10:46:48
Mn2576	257.610	STD1	STDBLK	.685808	-.000381	12/26/01 10:46:48
Mo2020	202.030	STD1	STDBLK	4.15749	-.003468	12/26/01 10:46:48
Ni2316	231.604	STD1	STDBLK	1.87767	-.001826	12/26/01 10:46:48
Ag_tr	328.068	STD1	STDBLK	.247213	-.000619	12/26/01 10:46:48
Na3302	330.232	STD1	STDBLK	.995438	-.009417	12/26/01 10:46:48
Tl1908	190.864	STD1	STDBLK	.333903	.023719	12/26/01 10:46:48
Ti3349	334.941	STD1	STDBLK	1.43686	.002397	12/26/01 10:46:48
V_2924	292.402	STD1	STDBLK	1.63395	-.000226	12/26/01 10:46:48
Zn2138	213.856	STD1	STDBLK	1.93899	-.002157	12/26/01 10:46:48
Sn1899	189.989	STD1	STDBLK	10.2074	.014191	12/26/01 10:46:48
2068_1	206.831	STD1	STDBLK	.352892	.007256	12/26/01 10:46:48
2068_2	206.832	STD1	STDBLK	.743384	-.003413	12/26/01 10:46:48
2203_1	220.351	STD1	STDBLK	.102731	-.005394	12/26/01 10:46:48
2203_2	220.352	STD1	STDBLK	.246127	.000345	12/26/01 10:46:48
1960_1	196.021	STD1	STDBLK	1.26827	.029276	12/26/01 10:46:48
1960_2	196.022	STD1	STDBLK	1.10069	-.020197	12/26/01 10:46:48
B_2496	249.678	STD1	STDBLK	3.38099	-.001877	12/26/01 10:46:48
Sr4215	421.552	STD1	STDBLK	.582893	-.000162	12/26/01 10:46:48
Si2881	288.158	STD1	STDBLK	2.05653	-.254755	12/26/01 10:46:48

Analysis Report 12/26/01 10:59:04 AM page 1

Method: QTESTI Sample Name: ICVHP Operator: JGA
Run Time: 12/26/01 10:53:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.97044	.98099	.97456	9.7251	.96677	1.0097	1.0468
SDev	.00121	.00024	.00030	.2440	.00282	.0048	.0012
%RSD	.12495	.02459	.03103	2.5090	.29157	.47437	.11408
#1	.96958	.98082	.97435	9.5526	.96478	1.0063	1.0459
#2	.97130	.98116	.97478	9.8976	.96877	1.0130	1.0476
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	11.000	1.1000	1.1000	1.1000
Low	.90000	.90000	.90000	9.0000	.90000	.90000	.90000

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0008	41.371	1.0200	.99166	.96053	10.080	39.331
SDev	.0050	.179	.0050	.00356	.00329	.036	.166
%RSD	.49938	.43160	.49244	.35858	.34251	.35727	.42102
#1	.99724	41.244	1.0165	.98914	.96286	10.054	39.214
#2	1.0043	41.497	1.0236	.99417	.95821	10.105	39.448
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	44.000	1.1000	1.1000	1.1000	11.000	44.000
Low	.90000	36.000	.90000	.90000	.90000	9.0000	36.000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0334	.98640	.99487	.36401	36.732	1.9924	1.0469
SDev	.0042	.00968	.00507	.00018	.162	.0164	.0010
%RSD	.41035	.98184	.50977	.04861	.44124	.82276	.09762
#1	1.0305	.97955	.99128	.36389	36.846	1.9808	1.0462
#2	1.0364	.99324	.99845	.36414	36.617	2.0040	1.0476
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	.44000		2.2000	1.1000
Low	.90000	.90000	.90000	.36000		1.8000	.90000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	1.0127	1.0175	.94705	.97746	.96876	.97514	.96810
SDev	.0031	.0029	.01582	.00137	.00183	.00245	.00060
%RSD	.30215	.28558	1.6700	.14005	.18930	.25094	.06160
#1	1.0106	1.0155	.93586	.97649	.97005	.97341	.96768
#2	1.0149	1.0196	.95823	.97843	.96746	.97687	.96852
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	1.1000	1.1000	1.1000				
Low	.90000	.90000	.90000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.97927	.98184	.9840	1.042	L.8822
SDev	.00375	.00224	.0046	.005	.0047
%RSD	.38331	.22770	.4658	.4635	.5301
#1	.98193	.98026	.9808	1.039	L.8789
#2	.97662	.98342	.9873	1.046	L.8855
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	LC Low
High			1.100		1.100
Low			.9000		.9000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7152	--	--	--	--	--	--
SDev	28.39752	--	--	--	--	--	--
%RSD	.3970681	--	--	--	--	--	--
#1	7172	--	--	--	--	--	--
#2	7132	--	--	--	--	--	--

Analysis Report 12/26/01 11:07:04 AM

Method: QTESTI Sample Name: ICB Operator: JGA
Run Time: 12/26/01 11:01:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00095	-.00104	.00235	.09091	-.00180	-.00014	.00002
SDev	.00047	.00008	.00055	.15906	.00032	.00000	.00010
%RSD	50.023	7.2872	23.490	174.97	17.540	.00000	413.50
#1	-.00128	-.00098	.00196	-.02156	-.00202	-.00014	-.00005
#2	-.00061	-.00109	.00274	H.20338	-.00157	-.00014	.00010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.00500	.06000	.20000	.01000	.02000	.00500
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00037	.01546	-.00051	.00027	-.00023	.00165	.00378
SDev	.00009	.01342	.00026	.00000	.00024	.00762	.00649
%RSD	25.138	86.795	49.876	.38198	106.11	462.90	171.44
#1	-.00043	.00597	-.00070	.00027	-.00039	-.00374	-.00080
#2	-.00030	.02495	-.00033	.00027	-.00006	.00703	.00837
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00019	.00112	-.00131	-.00028	.04694	.00152	.00022
SDev	.00027	.00001	.00073	.00048	.01227	.00512	.00028
%RSD	144.07	.81674	56.076	173.78	26.146	336.77	127.14
#1	-.00000	.00111	-.00183	-.00062	.03826	.00514	.00002
#2	.00038	.00113	-.00079	.00006	.05562	-.00210	.00041
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01500	.04000	.04000	.01000	5.0000	.01000	.05000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00000	.00052	.00011	.00313	.00080	-.00235	-.00025
SDev	.00032	.00000	.00003	.00075	.00015	.00021	.00060
%RSD	66252.	.17015	23.501	24.113	18.619	9.1319	243.29
#1	-.00022	.00052	.00013	.00259	.00070	-.00250	-.00067
#2	.00023	.00052	.00009	.00366	.00091	-.00220	.00018
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.10000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.00146	-.00228	.0009	<.0000	<.0000
SDev	.00030	.00004	.0000	.0000	.0008
%RSD	20.556	1.6072	.5547	23.02	11.65
#1	.00167	-.00231	.0009	<.0000	<.0000
#2	.00125	-.00226	.0009	<.0000	<.0000
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			.2000	.0500	.5000
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7250	--	--	--	--	--	--
SDev	13.23719	--	--	--	--	--	--
%RSD	.1825819	--	--	--	--	--	--
#1	7259	--	--	--	--	--	--
#2	7241	--	--	--	--	--	--

Analysis Report 12/26/01 11:12:56 AM

Method: QTESTI Sample Name: ICSA Operator: JGA
Run Time: 12/26/01 11:07:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00256	-.00575	.00370	484.28	.00505	.00167	.00064
SDev	.00083	.00032	.00498	.31	.00102	.00000	.00000
%RSD	32.354	5.5970	134.68	.06412	20.207	.06076	.37570
#1	.00314	-.00553	.00018	484.50	.00433	.00167	.00064
#2	.00197	-.00598	.00723	484.06	.00577	.00167	.00065
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.01000	.06000	600.00	.02000	.02000	.01000
Low	-.01000	-.01000	-.06000	400.00	-.02000	-.02000	-.01000

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00334	475.90	.00098	-.00135	.00090	190.25	492.19
SDev	.00074	.51	.00105	.00085	.00003	.16	1.06
%RSD	22.182	.10667	106.75	62.737	2.7588	.08637	.21571
#1	.00387	475.54	.00172	-.00075	.00089	190.14	492.94
#2	.00282	476.26	.00024	-.00195	.00092	190.37	491.44
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	600.00	.02000	.05000	.02500	240.00	600.00
Low	-.01000	400.00	-.02000	-.05000	-.02500	160.00	400.00

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00174	.00115	-.00506	-.00035	-.22927	-.00226	-.00045
SDev	.00015	.00807	.00081	.00037	.13034	.00076	.00031
%RSD	8.5409	701.98	16.084	105.53	56.851	33.490	68.644
#1	-.00164	.00685	-.00448	-.00062	-.13710	-.00173	-.00023
#2	-.00185	-.00456	-.00563	-.00009	-.32143	-.00280	-.00067
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01500	.04000	.04000	.02000	5.0000	.02000	.05000
Low	-.01500	-.04000	-.04000	-.02000	-5.0000	-.02000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	-.00125	.01308	.00232	.00696	-.00283	-.03125	.01943
SDev	.00069	.00042	.00220	.01030	.00567	.00227	.00011
%RSD	55.420	3.1817	94.883	147.95	199.97	7.2735	.54334
#1	-.00174	.01338	.00076	-.00032	.00117	-.02964	.01951
#2	-.00076	.01279	.00387	.01425	-.00684	-.03285	.01936
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.10000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00373	-.00676	.0043	.0102	.0410
SDev	.00056	.00020	.0000	.0001	.0016
%RSD	14.928	3.0256	.0953	1.171	3.889
#1	-.00334	-.00662	.0043	.0103	.0421
#2	-.00413	-.00691	.0043	.0102	.0398
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			.2000	.0500	.5000
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6551	--	--	--	--	--	--
SDev	3.677093	--	--	--	--	--	--
%RSD	.0561279	--	--	--	--	--	--
#1	6554	--	--	--	--	--	--
#2	6549	--	--	--	--	--	--

Analysis Report 12/26/01 11:18:49 AM

Method: QTESTI Sample Name: ICSABCLP Operator: JGA
Run Time: 12/26/01 11:13:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05383	.04296	.62620	481.97	.10522	.51113	.50573
SDev	.00042	.00134	.00476	1.62	.00133	.00283	.00103
%RSD	.78362	3.1233	.76040	.33530	1.2679	.55329	.20423
#1	.05413	.04391	.62283	483.11	.10616	.51313	.50646
#2	.05353	.04201	.62956	480.83	.10428	.50913	.50500
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	.06000	.72000	600.00	.12000	.60000	.60000
Low	.04000	.04000	.48000	400.00	.08000	.40000	.40000

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.97705	474.71	.49221	.49069	.54595	189.91	490.74
SDev	.00110	.83	.00130	.00129	.00109	.37	2.51
%RSD	.11302	.17429	.26380	.26230	.19920	.19632	.51133
#1	.97783	475.29	.49313	.49160	.54672	190.18	492.52
#2	.97627	474.12	.49129	.48978	.54518	189.65	488.97
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	600.00	.60000	.60000	.60000	240.00	600.00
Low	.80000	400.00	.40000	.40000	.40000	160.00	400.00

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50188	1.0247	.98399	.19789	H12.824	.10916	-.00045
SDev	.00087	.0036	.00380	.00127	.045	.00201	.00032
%RSD	.17366	.34908	.38613	.64005	.34908	1.8382	70.121
#1	.50250	1.0273	.98668	.19879	H12.855	.11058	-.00068
#2	.50127	1.0222	.98130	.19700	H12.792	.10775	-.00023
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	.60000	1.2000	1.2000	.24000	12.000	.12000	.10000
Low	.40000	.80000	.80000	.16000	8.0000	.08000	-.10000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.49665	1.0647	.01167	.62944	.61971	.01897	.07124
SDev	.00166	.0049	.00221	.00724	.00019	.00394	.00134
%RSD	.33393	.46036	18.935	1.1495	.03123	20.770	1.8734
#1	.49782	1.0681	.01011	.62432	.61985	.02175	.07029
#2	.49548	1.0612	.01323	.63455	.61957	.01618	.07218
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.60000	1.2000	.20000				
Low	.40000	.80000	-.20000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.05028	.03931	.0029	.0102	.0398
SDev	.00716	.00156	.0000	.0000	.0005
%RSD	14.240	3.9750	.4306	.2661	1.363
#1	.05534	.03821	.0029	.0102	.0395
#2	.04521	.04042	.0029	.0101	.0402
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			.4000	.1000	1.000
Low			-.4000	-.1000	-1.000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6555	--	--	--	--	--	--
SDev	17.16840	--	--	--	--	--	--
%RSD	.2618947	--	--	--	--	--	--
#1	6543	--	--	--	--	--	--
#2	6568	--	--	--	--	--	--

Analysis Report 12/26/01 11:26:48 AM

Method: QTESTI Sample Name: CRI Operator: JGA
Run Time: 12/26/01 11:21:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00878	.00950	.11459	.40759	.01996	.03987	.00990
SDev	.00012	.00058	.00183	.05410	.00283	.00009	.00003
%RSD	1.3092	6.0723	1.5953	13.272	14.168	.21563	.32661
#1	.00887	.00910	.11330	.36934	.01796	.03981	.00988
#2	.00870	.00991	.11588	.44585	.02196	.03993	.00992
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01250	.01250	.15000	.50000	.02500	.05000	.01250
Low	.00750	.00750	.09000	.30000	.01500	.03000	.00750

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00948	10.166	.01934	.09700	.04520	.20796	9.6644
SDev	.00016	.023	.00002	.00097	.00021	.00220	.0090
%RSD	1.6607	.22200	.07580	.99432	.46754	1.0568	.09317
#1	.00960	10.150	.01935	.09632	.04535	.20640	9.6707
#2	.00937	10.182	.01933	.09769	.04505	.20951	9.6580
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01250	12.500	.02500	.12500	.06250	.25000	12.500
Low	.00750	7.5000	.01500	.07500	.03750	.15000	7.5000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03081	.07693	.07691	.01736	8.7483	.02298	.00024
SDev	.00007	.00017	.00017	.00009	.0061	.00071	.00028
%RSD	.21754	.22480	.21994	.49650	.06981	3.0709	114.88
#1	.03076	.07681	.07679	.01730	8.7440	.02248	.00044
#2	.03085	.07706	.07703	.01742	8.7526	.02348	.00005
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	NOCHECK
High	.03750	.10000	.10000	.02500		.02500	
Low	.02250	.06000	.06000	.01500		.01500	

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.09996	.04395	-.00249	.11615	.11148	.00770	.00932
SDev	.00041	.00010	.00004	.00248	.00053	.00178	.00106
%RSD	.41409	.22523	1.4388	2.1309	.47778	23.121	11.388
#1	.10026	.04388	-.00246	.11440	.11110	.00645	.01008
#2	.09967	.04402	-.00251	.11790	.11186	.00896	.00857
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.12500	.05000					
Low	.07500	.03000					

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.01320	.00766	.0004	.0003	.0168
SDev	.00119	.00027	.0006	.0000	.0022
%RSD	8.9795	3.5703	184.0	.3258	12.96
#1	.01236	.00747	.0008	.0003	.0153
#2	.01404	.00785	<.0000	.0003	.0184
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High					
Low					

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7345	--	--	--	--	--	--
SDev	15.78250	--	--	--	--	--	--
%RSD	.2148834	--	--	--	--	--	--
#1	7356	--	--	--	--	--	--
#2	7334	--	--	--	--	--	--

Analysis Report 12/26/01 11:34:48 AM

Method: QTESTI Sample Name: EQXPKB 1X 1355373 Operator: JGA
Run Time: 12/26/01 11:28:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00014	.00039	.00091	-.00613	-.00216	-.00000	-.00009
SDev	.00068	.00103	.00125	.00428	.00052	.00019	.00009
%RSD	489.85	265.55	136.57	69.785	23.964	16995.	101.52
#1	.00034	-.00034	.00179	-.00915	-.00253	.00014	-.00015
#2	-.00062	.00111	.00003	-.00310	-.00180	-.00014	-.00003
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.00500	.06000	.20000	.01000	.02000	.00500
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00005	.02561	.00227	-.00054	-.00000	.01660	.02442
SDev	.00006	.00006	.00025	.00038	.00000	.00189	.00108
%RSD	125.83	.21597	11.200	70.488	149.03	11.376	4.4039
#1	.00009	.02565	.00245	-.00027	.00000	.01794	.02366
#2	.00001	.02557	.00209	-.00081	-.00001	.01527	.02518
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00019	-.00001	-.00053	-.00021	.33482	.00044	.00021
SDev	.00000	.00000	.00037	.00019	.02551	.00170	.00028
%RSD	.04623	4.8295	69.660	92.714	7.6201	389.25	133.56
#1	.00019	-.00001	-.00027	-.00035	.31678	-.00077	.00041
#2	.00019	-.00002	-.00079	-.00007	.35286	.00164	.00001
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01500	.04000	.04000	.01000	5.0000	.01000	.05000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00023	.00240	.00289	.00174	-.00075	-.00097	.00027
SDev	.00000	.00038	.00000	.00172	.00029	.00009	.00106
%RSD	.01626	15.815	.06472	98.939	38.752	9.1839	385.17
#1	.00023	.00213	.00289	.00296	-.00054	-.00103	.00102
#2	.00023	.00267	.00289	.00052	-.00095	-.00090	-.00047
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.10000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00477	.00296	<.0000	.0001	.0486
SDev	.00050	.00129	.0000	.0001	.0016
%RSD	10.519	43.518	.0154	142.8	3.380
#1	-.00512	.00205	<.0000	<.0000	.0497
#2	-.00441	.00387	<.0000	.0002	.0474
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			.2000	.0500	.5000
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7227	--	--	--	--	--	--
SDev	1.103128	--	--	--	--	--	--
%RSD	.0152632	--	--	--	--	--	--
#1	7227	--	--	--	--	--	--
#2	7228	--	--	--	--	--	--

Analysis Report 12/26/01 11:40:40 AM

Method: QTESTI Sample Name: EQXPKC Operator: JGA
Run Time: 12/26/01 11:34:51
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46855	1.7607	.47109	1.8147	1.8662	1.9740	.05078
SDev	.00407	.0048	.00519	.0069	.0115	.0101	.00002
%RSD	.86874	.27471	1.1019	.38037	.61836	.50947	.03742
#1	.46567	1.7572	.46742	1.8099	1.8580	1.9669	.05079
#2	.47143	1.7641	.47476	1.8196	1.8743	1.9812	.05076
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	2.4000	.60000	2.4000	2.4000	2.4000	.06000
Low	.40000	1.6000	.40000	1.6000	1.6000	1.6000	.04250

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04923	49.189	.20230	.48429	.24162	.97498	47.199
SDev	.00066	.189	.00030	.00177	.00134	.00574	.209
%RSD	1.3370	.38351	.14713	.36488	.55517	.58850	.44283
#1	.04876	49.056	.20209	.48304	.24256	.97092	47.051
#2	.04969	49.323	.20251	.48554	.24067	.97903	47.347
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	60.000	.24000	.60000	.30000	1.2000	60.000
Low	.04000	40.000	.17000	.40000	.20000	.85000	40.000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50471	.97419	.48999	.04674	44.695	1.9034	1.0334
SDev	.00325	.01057	.00240	.00020	.182	.0328	.0008
%RSD	.64360	1.0846	.48899	.42502	.40689	1.7245	.07518
#1	.50241	.96672	.48830	.04688	44.824	1.8802	1.0328
#2	.50700	.98166	.49169	.04660	44.566	1.9266	1.0339
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	.60000	1.2000	.60000	.06000		2.4000	1.2000
Low	.40000	.80000	.40000	.04000		1.6000	.80000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.49923	.49646	1.8781	.47065	.47197	.47605	.46481
SDev	.00096	.00248	.0147	.00747	.00062	.00120	.00670
%RSD	.19287	.50036	.78218	1.5879	.13099	.25257	1.4421
#1	.49855	.49470	1.8677	.46536	.47154	.47690	.46007
#2	.49991	.49822	1.8885	.47593	.47241	.47520	.46955
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.60000	.60000	2.4000				
Low	.42500	.42500	1.6000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	1.7474	1.7673	.9485	1.019	L5.797
SDev	.0012	.0079	.0049	.005	.020
%RSD	.07041	.44506	.5125	.5095	.3407
#1	1.7482	1.7617	.9450	1.015	L5.783
#2	1.7465	1.7729	.9519	1.023	L5.811
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Low
High				1.200	12.00
Low				.8000	8.000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7013	--	--	--	--	--	--
SDev	14.42491	--	--	--	--	--	--
%RSD	.2056881	--	--	--	--	--	--
#1	7003	--	--	--	--	--	--
#2	7023	--	--	--	--	--	--

Analysis Report 12/26/01 11:55:11 AM

Method: QTESTI Sample Name: EQXJ6B 1X 1355333 Operator: JGA
Run Time: 12/26/01 11:49:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00039	.00137	.00091	-.01693	-.00350	.00028	.00020
SDev	.00069	.00129	.00202	.01416	.00211	.00020	.00013
%RSD	178.24	94.320	223.23	83.623	60.228	69.209	64.206
#1	-.00010	.00229	-.00052	-.02694	-.00201	.00014	.00029
#2	.00088	.00046	.00234	-.00692	-.00498	.00042	.00011
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.00500	.06000	.20000	.01000	.02000	.00500
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00070	.04606	.00234	-.00029	.00483	.03280	.00809
SDev	.00017	.01552	.00068	.00000	.00039	.00599	.00345
%RSD	24.582	33.693	29.309	.94518	8.1432	18.265	42.682
#1	.00083	.05704	.00282	-.00029	.00511	.02857	.01053
#2	.00058	.03509	.00185	-.00028	.00456	.03704	.00565
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00275	.00069	.00032	.00023	.77104	-.00423	-.00068
SDev	.00002	.00086	.00077	.00030	.14672	.00454	.00031
%RSD	.68845	125.49	242.87	133.93	19.029	107.31	45.543
#1	.00276	.00130	.00086	.00044	.87478	-.00745	-.00090
#2	.00273	.00008	-.00023	.00001	.66729	-.00102	-.00046
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01500	.04000	.04000	.01000	5.0000	.01000	.05000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00024	.00833	-.00331	.00042	.00188	.00239	-.00061
SDev	.00000	.00006	.01246	.00290	.00026	.00082	.00145
%RSD	1.6718	.72942	376.09	691.57	14.007	34.255	236.40
#1	.00024	.00838	-.01212	-.00163	.00169	.00297	-.00163
#2	.00024	.00829	.00550	.00247	.00207	.00181	.00041
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.10000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.01268	.00839	<.0000	.0002	.0165
SDev	.00179	.00283	.0014	.0000	.0062
%RSD	14.098	33.772	72.50	1.180	37.58
#1	-.01395	.01039	<.0000	.0002	.0209
#2	-.01142	.00639	<.0000	.0002	.0121
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			.2000	.0500	.5000
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7013	--	--	--	--	--	--
SDev	42.39809	--	--	--	--	--	--
%RSD	.6045488	--	--	--	--	--	--
#1	6983	--	--	--	--	--	--
#2	7043	--	--	--	--	--	--

Analysis Report 12/26/01 12:01:03 PM page 1

Method: QTESTI Sample Name: EQXJ6C Operator: JGA
Run Time: 12/26/01 11:55:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49073	1.8766	.49638	1.9121	1.9573	2.0722	.05198
SDev	.00286	.0217	.00418	.0160	.0205	.0232	.00112
%RSD	.58332	1.1553	.84143	.83918	1.0470	1.1215	2.1456
#1	.49276	1.8919	.49934	1.9235	1.9718	2.0886	.05277
#2	.48871	1.8612	.49343	1.9008	1.9429	2.0557	.05119
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	2.4000	.60000	2.4000	2.4000	2.4000	.06000
Low	.40000	1.6000	.40000	1.6000	1.6000	1.6000	.04250

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05027	50.726	.20550	.50195	.25662	1.0054	49.798
SDev	.00047	.708	.00258	.00531	.00609	.0176	.512
%RSD	.94058	1.3966	1.2554	1.0571	2.3720	1.7542	1.0273
#1	.05060	51.227	.20732	.50570	.26092	1.0179	50.159
#2	.04993	50.225	.20367	.49819	.25231	.99296	49.436
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	60.000	.24000	.60000	.30000	1.2000	60.000
Low	.04000	40.000	.17000	.40000	.20000	.85000	40.000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52205	1.0090	.50666	.04888	47.403	2.0065	L-.00012
SDev	.00507	.0078	.00558	.00089	1.006	.0052	.00004
%RSD	.97221	.76989	1.1024	1.8102	2.1217	.25819	37.346
#1	.52564	1.0145	.51061	.04951	48.115	2.0101	L-.00015
#2	.51847	1.0035	.50271	.04826	46.692	2.0028	L-.00009
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Low
High	.60000	1.2000	.60000	.06000		2.4000	1.2000
Low	.40000	.80000	.40000	.04000		1.6000	.80000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.51544	.53142	L-.00366	.49655	.49605	.49690	.48766
SDev	.00885	.00593	.00390	.00093	.01068	.00861	.00001
%RSD	1.7176	1.1156	106.48	.18751	2.1526	1.7326	.00131
#1	.52170	.53561	L-.00090	.49721	.50360	.50298	.48765
#2	.50918	.52723	L-.00641	.49589	.48849	.49081	.48766
Errors	LC Pass	LC Pass	LC Low	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.60000	.60000	2.4000				
Low	.42500	.42500	1.6000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	1.8692	1.8803	.0047	L.0016	L.0816
SDev	.0386	.0132	.0001	.0001	.0077
%RSD	2.0647	.70401	2.562	9.362	9.444
#1	1.8965	1.8896	.0047	L.0017	L.0870
#2	1.8419	1.8709	.0046	L.0015	L.0761
Errors	NOCHECK	NOCHECK	NOCHECK	LC Low	LC Low
High				1.200	12.00
Low				.8000	8.000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6850	--	--	--	--	--	--
SDev	122.2445	--	--	--	--	--	--
%RSD	1.784509	--	--	--	--	--	--
#1	6764	--	--	--	--	--	--
#2	6937	--	--	--	--	--	--

Analysis Report 12/26/01 12:09:03 PM page 1

Method: QTESTI Sample Name: EQX4H 20X Operator: JGA
Run Time: 12/26/01 12:03:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00121	-.00111	.00171	.65999	-.00117	.00444	.00078
SDev	.00039	.00158	.00096	.00234	.00043	.00001	.00002
%RSD	32.585	142.16	56.191	.35533	36.915	.28138	2.0117
#1	-.00149	.00001	.00239	.66164	-.00148	.00444	.00077
#2	-.00093	-.00223	.00103	.65833	-.00087	.00445	.00079
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00001	216.32	.00144	.00026	.00534	.35609	.06358
SDev	.00002	.13	.00001	.00000	.00012	.00303	.00230
%RSD	121.66	.05820	.77723	.02445	2.1457	.85103	3.6205
#1	-.00000	216.41	.00144	.00026	.00542	.35395	.06521
#2	-.00003	216.23	.00145	.00026	.00526	.35823	.06196
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00089	.61088	.01242	-.00016	973.58	.00716	.00017
SDev	.00000	.00197	.00037	.00022	7.05	.00072	.00001
%RSD	.38945	.32180	2.9997	134.39	.72442	9.9825	3.5390
#1	.00089	.61227	.01268	-.00001	978.56	.00767	.00018
#2	.00090	.60949	.01215	-.00031	968.59	.00666	.00017
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00044	.00524	.00787	.00224	.00063	-.00238	-.00063
SDev	.00000	.00045	.00002	.00119	.00051	.00142	.00012
%RSD	.51404	8.5135	.21933	52.860	79.772	59.408	18.356
#1	.00044	.00493	.00788	.00308	.00099	-.00338	-.00055
#2	.00044	.00556	.00785	.00140	.00028	-.00138	-.00071
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.00595	-.00464	.0374	.3180	.0488
SDev	.00145	.00164	.0006	.0012	.0004
%RSD	24.432	35.458	1.694	.3694	.7754
#1	.00697	-.00347	.0378	.3188	.0485
#2	.00492	-.00580	.0369	.3172	.0491
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6456	--	--	--	--	--	--
SDev	17.62105	--	--	--	--	--	--
%RSD	.2729245	--	--	--	--	--	--
#1	6469	--	--	--	--	--	--
#2	6444	--	--	--	--	--	--

Analysis Report 12/26/01 12:17:03 PM

Method: QTESTI Sample Name: EQT40 Operator: JGA
Run Time: 12/26/01 12:11:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00939	.00162	.00056	.01703	.00228	.48313	.00054
SDev	.00080	.00080	.00023	.00907	.00426	.00258	.00009
%RSD	8.4923	49.634	40.535	53.267	186.80	.53324	17.129
#1	.00996	.00218	.00072	.01061	.00530	.48131	.00047
#2	.00883	.00105	.00040	.02344	-.00073	.48495	.00061
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00054	223.49	.00218	.00112	.10868	.98982	51.234
SDev	.00001	.55	.00021	.00041	.00075	.00718	.232
%RSD	1.4708	.24494	9.5753	36.656	.68962	.72556	.45345
#1	.00055	223.10	.00233	.00141	.10921	.99490	51.069
#2	.00054	223.87	.00203	.00083	.10815	.98474	51.398
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1295	.00217	.00371	-.00004	137.53	-.00522	.00070
SDev	.0088	.00088	.00001	.00005	.18	.00172	.00000
%RSD	.78212	40.393	.15723	123.91	.13278	32.984	.26319
#1	1.1232	.00279	.00372	-.00001	137.66	-.00400	.00069
#2	1.1357	.00155	.00371	-.00008	137.40	-.00644	.00070
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	-.00001	.05574	.00059	.00118	-.00068	.00896	.00961
SDev	.00034	.00035	.00212	.00119	.00170	.00073	.00083
%RSD	3078.1	.62045	357.84	101.16	250.37	8.1220	8.6646
#1	-.00025	.05550	.00209	.00202	-.00188	.00947	.01020
#2	.00023	.05598	-.00091	.00033	.00052	.00844	.00902
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00397	.00441	.0447	.9828	8.032
SDev	.00049	.00096	.0007	.0053	.021
%RSD	12.453	21.711	1.473	.5380	.2615
#1	-.00362	.00508	.0442	.9790	8.017
#2	-.00432	.00373	.0451	.9865	8.047
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6756	--	--	--	--	--	--
SDev	7.268906	--	--	--	--	--	--
%RSD	.1075979	--	--	--	--	--	--
#1	6750	--	--	--	--	--	--
#2	6761	--	--	--	--	--	--

Analysis Report 12/26/01 12:25:03 PM page 1

Method: QTESTI Sample Name: CCVT Operator: JGA
Run Time: 12/26/01 12:19:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50337	.50817	.50753	24.492	.50431	2.0281	2.0925
SDev	.00063	.00357	.00048	.130	.00127	.0007	.0038
%RSD	.12476	.70208	.09437	.53244	.25111	.03497	.18016
#1	.50382	.50565	.50787	24.584	.50342	2.0286	2.0952
#2	.50293	.51070	.50719	24.400	.50521	2.0276	2.0899
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	.55000	.55000	27.500	.55000	2.2000	2.2000
Low	.45000	.45000	.45000	22.500	.45000	1.8000	1.8000

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51047	103.33	2.0594	2.0402	1.9858	25.912	101.49
SDev	.00023	.04	.0083	.0051	.0139	.029	.23
%RSD	.04513	.04238	.40359	.24873	.69759	.11182	.22541
#1	.51063	103.30	2.0535	2.0366	1.9956	25.933	101.66
#2	.51031	103.36	2.0652	2.0438	1.9760	25.892	101.33
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	110.00	2.2000	2.2000	2.2000	27.500	110.00
Low	.45000	90.000	1.8000	1.8000	1.8000	22.500	90.000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0666	2.0194	2.0350	.94363	49.308	.98743	2.0619
SDev	.0056	.0142	.0047	.00272	.146	.00585	.0064
%RSD	.26945	.70482	.23034	.28869	.29689	.59255	.30913
#1	2.0626	2.0094	2.0317	.94556	49.412	.98329	2.0664
#2	2.0705	2.0295	2.0383	.94171	49.205	.99156	2.0574
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000		1.1000	2.2000
Low	1.8000	1.8000	1.8000	.90000		.90000	1.8000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	2.0617	2.0758	1.9663	.51031	.50197	.50430	.50291
SDev	.0057	.0024	.0118	.00155	.00454	.00415	.00113
%RSD	.27695	.11780	.60122	.30309	.90369	.82223	.22443
#1	2.0658	2.0740	1.9579	.50921	.50518	.50724	.50211
#2	2.0577	2.0775	1.9746	.51140	.49876	.50137	.50370
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	2.2000	2.2000	2.2000				
Low	1.8000	1.8000	1.8000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.50810	.50821	1.994	2.072	2.036
SDev	.00240	.00415	.002	.000	.009
%RSD	.47257	.81663	.0927	.0147	.4270
#1	.50640	.50528	1.995	2.072	2.043
#2	.50979	.51115	1.993	2.073	2.030
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			2.200	2.200	2.200
Low			1.800	1.800	1.800

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6956	--	--	--	--	--	--
SDev	19.91189	--	--	--	--	--	--
%RSD	.2862697	--	--	--	--	--	--
#1	6970	--	--	--	--	--	--
#2	6942	--	--	--	--	--	--

Analysis Report QC Standard 12/26/01 12:33:04 PM page 1

Method: QTESTI Sample Name: CCBT Operator: JGA
Run Time: 12/26/01 12:27:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00079	.00014	.00143	-.02885	-.00299	-.00014	.00009
SDev	.00077	.00061	.00089	.00506	.00018	.00000	.00008
%RSD	97.580	426.24	62.435	17.525	6.1089	.00000	86.087
#1	-.00024	.00058	.00206	-.03242	-.00286	-.00014	.00014
#2	-.00133	-.00029	.00080	-.02527	-.00312	-.00014	.00003
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	.00500	.06000	.20000	.01000	.02000	.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00003	.01071	-.00053	-.00000	.00026	.00259	.00157
SDev	.00018	.00113	.00018	.00039	.00009	.00592	.00106
%RSD	684.43	10.601	34.655	10768.	35.627	228.25	67.680
#1	.00015	.00991	-.00040	.00027	.00020	.00678	.00232
#2	-.00010	.01151	-.00066	-.00028	.00033	-.00159	.00082
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00019	.00002	-.00104	-.00007	.03319	.00208	.00039
SDev	.00000	.00001	.00037	.00000	.14811	.00046	.00001
%RSD	.32965	67.292	35.389	2.7802	446.31	21.966	1.6789
#1	-.00019	.00001	-.00078	-.00007	-.07155	.00176	.00040
#2	-.00019	.00002	-.00130	-.00007	.13792	.00241	.00039
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01500	.04000	.04000	.01000	5.0000	.01000	.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00023	.00001	-.00149	.00183	.00064	-.00160	-.00038
SDev	.00000	.00001	.00196	.00098	.00072	.00052	.00141
%RSD	.72909	70.691	132.14	53.630	112.95	32.491	367.65
#1	.00023	.00001	-.00288	.00252	.00115	-.00196	.00061
#2	.00023	.00002	-.00010	.00113	.00013	-.00123	-.00138
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.00000	.00000	.00000				
Range	.05000	.02000	.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.00271	-.00114	<.0000	.0000	.0003
SDev	.00109	.00038	.0013	.0000	.0008
%RSD	40.246	33.075	142.5	72.20	299.7
#1	.00348	-.00087	.0000	.0000	.0008
#2	.00194	-.00140	<.0000	.0000	<.0000
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value			.0000	.0000	.0000
Range			.2000	.0500	.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7160	--	--	--	--	--	--
SDev	23.39115	--	--	--	--	--	--
%RSD	.3266729	--	--	--	--	--	--
#1	7177	--	--	--	--	--	--
#2	7144	--	--	--	--	--	--

Analysis Report 12/26/01 12:38:57 PM page 1

Method: QTESTI Sample Name: EQT40P Operator: JGA
Run Time: 12/26/01 12:33:08
Comment:
Mode: CONC Corr. Factor: 5

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00724	L.00869	L.00430	L-.01437	L-.00881	.46698	L.00172
SDev	.00127	.00690	.00319	.04914	.01157	.03418	.00007
%RSD	17.552	79.347	74.279	341.92	131.24	7.3197	4.2334
#1	L.00814	L.00382	L.00656	L-.04912	L-.01699	.49115	L.00167
#2	L.00634	L.01357	L.00204	L.02037	L-.00063	.44281	L.00177
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low
High	55.000	11.000	5.5000	550.00	11.000	11.000	5.5000
Low	.07500	.17000	.10000	.63000	.24500	.01000	.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00099	219.52	L.00202	L-.00005	.09839	1.0061	49.785
SDev	.00157	9.87	.00037	.00196	.00415	.0570	3.579
%RSD	158.93	4.4944	18.147	4239.7	4.2142	5.6704	7.1880
#1	L.00209	226.50	L.00177	L-.00143	.10132	1.0464	52.316
#2	L-.00012	212.55	L.00228	L.00134	.09546	.96577	47.255
Errors	LC Low	LC Pass	LC Low	LC Low	LC Pass	LC Pass	LC Pass
High	11.000	550.00	55.000	110.00	55.000	1100.0	1100.0
Low	.01500	.38500	.02000	.03500	.04000	.66500	.19000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1341	L-.00550	L.00012	L-.00127	124.01	L.00966	L.00184
SDev	.0771	.00003	.00185	.00096	5.30	.00570	.00003
%RSD	6.7941	.46704	1502.0	75.828	4.2727	58.992	1.4740
#1	1.1886	L-.00552	L.00143	L-.00059	127.76	L.00563	L.00186
#2	1.0796	L-.00548	L-.00118	L-.00195	120.27	L.01370	L.00182
Errors	LC Pass	LC Low	LC Low	LC Low	NOCHECK	LC Low	LC Low
High	27.500	27.500	110.00	2.2000		22.000	55.000
Low	.01000	.10500	.05500	.03000		.23500	.01500

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	L.00229	.10795	L-.00112	.00583	.00122	.00521	.00825
SDev	.00164	.00159	.02057	.00444	.00069	.00290	.00046
%RSD	71.552	1.4756	1831.8	76.105	56.806	55.630	5.5553
#1	L.00113	.10908	L.01342	.00897	.00171	.00726	.00858
#2	L.00346	.10682	L-.01567	.00269	.00073	.00316	.00793
Errors	LC Low	LC Pass	LC Low	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	.02000	.03500	.46000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.02481	.00065	L.0360	.9639	7.811
SDev	.00472	.00798	.0032	.0690	.553
%RSD	19.042	1237.1	9.053	7.157	7.074
#1	.02147	-.00500	L.0383	1.013	8.202
#2	.02815	.00629	L.0337	.9151	7.420
Errors	NOCHECK	NOCHECK	LC Low	LC Pass	LC Pass
High			55.00	5.500	55.00
Low			.0550	.0050	.2400

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7084	--	--	--	--	--	--
SDev	18.97898	--	--	--	--	--	--
%RSD	.2679262	--	--	--	--	--	--
#1	7097	--	--	--	--	--	--
#2	7070	--	--	--	--	--	--

Analysis Report 12/26/01 12:44:49 PM

Method: QTESTI Sample Name: EQT40S Operator: JGA
Run Time: 12/26/01 12:39:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51891	1.9637	.51528	2.0351	2.0468	2.4992	.05283
SDev	.00796	.0232	.00647	.0183	.0159	.0218	.00067
%RSD	1.5347	1.1813	1.2548	.89955	.77756	.87080	1.2740
#1	.51327	1.9473	.51071	2.0221	2.0355	2.4838	.05236
#2	.52454	1.9801	.51985	2.0480	2.0580	2.5145	.05331
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05068	270.53	.20577	.51016	.36527	1.9739	101.22
SDev	.00053	3.99	.00195	.00532	.00207	.0338	.90
%RSD	1.0486	1.4751	.94673	1.0424	.56653	1.7118	.88560
#1	.05030	267.70	.20439	.50640	.36381	1.9500	100.58
#2	.05105	273.35	.20715	.51392	.36674	1.9978	101.85
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.6410	1.0287	.51477	.05102	186.94	2.1174	.00090
SDev	.0178	.0145	.00720	.00024	.58	.0318	.00030
%RSD	1.0876	1.4135	1.3988	.47619	.31197	1.5029	32.716
#1	1.6284	1.0185	.50968	.05085	186.52	2.0949	.00069
#2	1.6537	1.0390	.51986	.05119	187.35	2.1399	.00111
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.51557	.59789	.00810	.51633	.51319	.52586	.51543
SDev	.00728	.00529	.00432	.00991	.00044	.00207	.01090
%RSD	1.4119	.88426	53.346	1.9196	.08506	.39415	2.1157
#1	.51042	.59415	.01116	.50932	.51350	.52440	.50772
#2	.52071	.60163	.00505	.52334	.51288	.52733	.52314
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	1.9510	1.9701	.0505	.9759	8.085
SDev	.0073	.0311	.0010	.0092	.061
%RSD	.37377	1.5805	1.897	.9415	.7536
#1	1.9458	1.9481	.0499	.9694	8.042
#2	1.9561	1.9921	.0512	.9824	8.129
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6724	--	--	--	--	--	--
SDev	32.04630	--	--	--	--	--	--
%RSD	.4766057	--	--	--	--	--	--
#1	6747	--	--	--	--	--	--
#2	6701	--	--	--	--	--	--

Analysis Report 12/26/01 12:54:54 PM

Method: QTESTI Sample Name: EQT40D Operator: JGA
Run Time: 12/26/01 12:49:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52643	1.9936	.52197	2.0652	2.0710	2.5236	.05373
SDev	.00528	.0148	.00547	.0133	.0262	.0223	.00042
%RSD	1.0040	.74147	1.0486	.64526	1.2673	.88221	.77598
#1	.52269	1.9832	.51810	2.0558	2.0524	2.5079	.05343
#2	.53016	2.0041	.52584	2.0746	2.0895	2.5393	.05402
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05158	279.96	.20700	.51422	.37520	2.0320	103.77
SDev	.00073	1.98	.00246	.00679	.00061	.0194	.73
%RSD	1.4223	.70796	1.1874	1.3196	.16295	.95606	.69895
#1	.05106	278.56	.20526	.50942	.37477	2.0182	103.26
#2	.05210	281.36	.20874	.51902	.37563	2.0457	104.29
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.6831	1.0384	.51913	.05147	193.55	2.1395	.00066
SDev	.0204	.0153	.00364	.00003	.28	.0537	.00000
%RSD	1.2140	1.4767	.70050	.06204	.14261	2.5105	.39486
#1	1.6686	1.0276	.51656	.05149	193.74	2.1015	.00066
#2	1.6975	1.0493	.52170	.05144	193.35	2.1775	.00066
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.52268	.59266	.00955	.52285	.52020	.53415	.52257
SDev	.00413	.00655	.00219	.00814	.00013	.00195	.00890
%RSD	.78961	1.1057	22.919	1.5567	.02563	.36445	1.7023
#1	.51976	.58803	.00801	.51710	.52011	.53553	.51628
#2	.52560	.59730	.01110	.52861	.52030	.53277	.52886
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	1.9822	1.9994	.0530	1.009	8.390
SDev	.0094	.0269	.0014	.009	.035
%RSD	.47577	1.3439	2.565	.8881	.4145
#1	1.9888	1.9804	.0520	1.003	8.365
#2	1.9755	2.0184	.0539	1.015	8.414
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6613	--	--	--	--	--	--
SDev	9.899495	--	--	--	--	--	--
%RSD	.1496921	--	--	--	--	--	--
#1	6606	--	--	--	--	--	--
#2	6620	--	--	--	--	--	--

Analysis Report 12/26/01 01:04:58 PM

Method: QTESTI Sample Name: EQWL2 Operator: JGA
Run Time: 12/26/01 12:59:10
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05892	.00002	-.00044	249.13	.03624	1.2144	.00786
SDev	.00169	.00244	.00384	.24	.00137	.0106	.00016
%RSD	2.8736	14517.	864.53	.09555	3.7920	.87336	2.0145
#1	.05772	.00174	-.00316	249.30	.03722	1.2069	.00797
#2	.06012	-.00171	.00227	248.96	.03527	1.2219	.00774
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00119	40.313	.27503	.11459	.18791	276.34	63.642
SDev	.00040	.099	.00154	.00036	.00080	.38	.311
%RSD	33.086	.24441	.55965	.31805	.42792	.13656	.48828
#1	-.00147	40.243	.27394	.11485	.18848	276.07	63.423
#2	-.00092	40.383	.27612	.11433	.18734	276.60	63.862
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0207	.00361	.17049	-.00176	9.2386	.01089	16.575
SDev	.0413	.00745	.00181	.00006	.3131	.00280	.005
%RSD	.82240	206.33	1.0615	3.4221	3.3894	25.743	.02865
#1	4.9915	.00887	.16921	-.00172	9.4601	.00890	16.578
#2	5.0499	-.00166	.17177	-.00181	9.0172	.01287	16.571
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.57523	.60054	.02056	-.00121	.00110	.04481	.06596
SDev	.00017	.00515	.00199	.00816	.00482	.00289	.00398
%RSD	.02973	.85844	9.7030	671.58	437.96	6.4577	6.0388
#1	.57511	.59690	.01915	-.00698	.00451	.04686	.06314
#2	.57535	.60419	.02197	.00455	-.00231	.04277	.06878
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00629	.00316	.0562	.4260	3.356
SDev	.01083	.00175	.0003	.0036	.015
%RSD	172.18	55.144	.4920	.8550	.4356
#1	.00137	.00193	.0564	.4234	3.346
#2	-.01395	.00440	.0560	.4286	3.367
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6979	--	--	--	--	--	--
SDev	33.20571	--	--	--	--	--	--
%RSD	.4758246	--	--	--	--	--	--
#1	6955	--	--	--	--	--	--
#2	7002	--	--	--	--	--	--

Analysis Report 12/26/01 01:12:58 PM page 1

Method: QTESTI Sample Name: EQWL4 Operator: JGA
Run Time: 12/26/01 13:07:10
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06514	-.00233	.00010	260.63	.03976	1.2640	.00846
SDev	.00039	.00443	.00169	1.20	.00245	.0023	.00013
%RSD	.59315	190.32	1776.1	.46112	6.1721	.18386	1.5628
#1	.06487	L-.00546	-.00110	261.48	.04149	1.2656	.00855
#2	.06541	.00080	.00129	259.78	.03802	1.2623	.00836
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00049	50.452	.31721	.14127	.29491	327.81	77.835
SDev	.00012	.182	.00020	.00077	.00231	1.55	.180
%RSD	25.305	.36163	.06328	.54214	.78289	.47159	.23096
#1	.00040	50.581	.31736	.14181	.29654	328.90	77.962
#2	.00057	50.323	.31707	.14073	.29327	326.72	77.708
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.1332	.00379	.20773	-.00200	11.771	.01282	20.144
SDev	.0118	.00757	.00063	.00020	.331	.00320	.124
%RSD	.19314	199.43	.30497	9.9282	2.8158	24.983	.61797
#1	6.1249	.00915	.20728	-.00214	12.005	.01055	20.232
#2	6.1416	-.00156	.20818	-.00186	11.536	.01508	20.056
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.67426	.76325	.01727	.00133	-.00238	.05120	.07210
SDev	.00358	.00072	.00425	.00686	.00867	.00497	.00306
%RSD	.53031	.09423	24.618	514.72	363.51	9.6996	4.2420
#1	.67679	.76274	.02027	-.00352	.00374	.05471	.06994
#2	.67174	.76376	.01426	.00618	-.00851	.04769	.07426
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00461	-.00119	.0450	.6010	2.963
SDev	.00141	.00593	.0009	.0004	.015
%RSD	30.639	500.56	2.069	.0730	.4899
#1	-.00561	-.00538	.0443	.6013	2.974
#2	-.00361	.00301	.0457	.6006	2.953
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6907	--	--	--	--	--	--
SDev	66.75081	--	--	--	--	--	--
%RSD	.9664059	--	--	--	--	--	--
#1	6860	--	--	--	--	--	--
#2	6954	--	--	--	--	--	--

Analysis Report 12/26/01 01:20:58 PM page 1

Method: QTESTI Sample Name: EQ~~LWG~~ Operator: JGA
Run Time: 12/26/01 13:15:10 WLG
Comment: 12/27/01 JGV
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06230	-.00098	-.00107	246.39	.04142	1.2985	.00772
SDev	.00137	.00099	.00677	.41	.00348	.0116	.00003
%RSD	2.2055	101.05	630.34	.16653	8.4051	.89555	.37969
#1	.06133	-.00168	-.00586	246.68	.03896	1.2903	.00774
#2	.06327	-.00028	.00372	246.10	.04389	1.3067	.00770
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00004	56.553	.33350	.11420	.44815	311.75	73.469
SDev	.00084	.045	.00237	.00118	.00085	.33	.364
%RSD	2121.1	.08000	.71101	1.0353	.18870	.10679	.49533
#1	-.00056	56.521	.33182	.11337	.44875	311.51	73.212
#2	.00063	56.585	.33518	.11504	.44756	311.98	73.726
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.3443	.00491	.20746	-.00202	9.3948	.00594	18.924
SDev	.0568	.00578	.00065	.00041	.2977	.00081	.009
%RSD	1.0625	117.88	.31346	20.409	3.1683	13.580	.04803
#1	5.3042	.00900	.20700	-.00173	9.6053	.00537	18.918
#2	5.3845	.00082	.20792	-.00231	9.1843	.00651	18.931
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.62864	.77462	.01627	-.00216	.00109	.04730	.06979
SDev	.00086	.00713	.00202	.01110	.00190	.00280	.00346
%RSD	.13734	.92093	12.444	514.91	173.68	5.9192	4.9550
#1	.62803	.76957	.01484	-.01001	.00243	.04928	.06734
#2	.62925	.77966	.01770	.00569	-.00025	.04532	.07223
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00265	-.00014	.0327	.5664	2.618
SDev	.01114	.00705	.0001	.0050	.009
%RSD	419.62	4889.4	.2382	.8776	.3363
#1	.00522	-.00513	.0328	.5629	2.612
#2	-.01053	.00484	.0327	.5699	2.624
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7013	--	--	--	--	--	--
SDev	15.58466	--	--	--	--	--	--
%RSD	.2222120	--	--	--	--	--	--
#1	7002	--	--	--	--	--	--
#2	7024	--	--	--	--	--	--

Analysis Report 12/26/01 01:29:37 PM

Method: QTESTI Sample Name: EQWL7 Operator: JGA
Run Time: 12/26/01 13:23:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10233	-.00391	.00052	305.71	.05159	2.2131	.01097
SDev	.00232	.00321	.00543	.81	.00082	.0310	.00008
%RSD	2.2648	82.106	1051.4	.26499	1.5858	1.4011	.70363
#1	.10069	L-.00618	-.00332	305.14	.05217	2.1912	.01102
#2	.10396	-.00164	.00435	306.28	.05101	2.2351	.01091
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00603	87.322	.37464	.15912	.46791	399.97	100.57
SDev	.00106	.723	.00347	.00098	.00140	3.20	1.11
%RSD	17.578	.82844	.92600	.61834	.30038	.80039	1.1079
#1	.00528	86.810	.37219	.15842	.46692	397.71	99.787
#2	.00678	87.833	.37709	.15981	.46891	402.24	101.36
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.3464	.00437	.26684	-.00208	11.710	.01219	22.422
SDev	.1163	.00725	.00291	.00048	.328	.00484	.161
%RSD	1.3938	165.77	1.0904	22.843	2.8039	39.721	.71893
#1	8.2641	.00950	.26478	-.00174	11.943	.00877	22.308
#2	8.4287	-.00075	.26889	-.00242	11.478	.01562	22.536
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.79680	1.0897	.01710	-.00081	.00318	.08438	.11128
SDev	.00609	.0126	.00198	.01186	.00747	.00133	.00414
%RSD	.76493	1.1609	11.596	1458.4	235.02	1.5769	3.7191
#1	.79249	1.0807	.01570	-.00920	.00846	.08533	.10836
#2	.80111	1.0986	.01850	.00758	-.00210	.08344	.11421
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00255	-.00459	.0471	.8955	4.683
SDev	.00964	.00963	.0014	.0123	.056
%RSD	377.57	209.68	3.012	1.376	1.205
#1	.00426	-.01140	.0461	.8868	4.643
#2	-.00937	.00222	.0481	.9043	4.723
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	7024	--	--	--	--	--	--
SDev	8.315410	--	--	--	--	--	--
%RSD	.1183783	--	--	--	--	--	--
#1	7030	--	--	--	--	--	--
#2	7019	--	--	--	--	--	--

Analysis Report 12/26/01 01:37:37 PM page 1

Method: QTESTI Sample Name: EQWL8 Operator: JGA
Run Time: 12/26/01 13:31:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04191	.00333	.00111	74.467	.03690	.63931	.00357
SDev	.00075	.00083	.00169	.449	.00080	.00306	.00014
%RSD	1.7811	25.093	152.42	.60272	2.1617	.47885	3.8690
#1	.04138	.00274	-.00009	74.784	.03634	.63714	.00367
#2	.04244	.00392	.00231	74.149	.03746	.64147	.00347
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00201	38.690	.09848	.04819	.13945	128.60	36.381
SDev	.00071	.036	.00052	.00056	.00178	.27	.052
%RSD	35.411	.09430	.52311	1.1626	1.2741	.20904	.14270
#1	-.00252	38.715	.09811	.04779	.14070	128.79	36.344
#2	-.00151	38.664	.09884	.04858	.13819	128.41	36.417
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.3643	.00166	.07676	-.00077	3.0141	.00141	7.4801
SDev	.0233	.00085	.00078	.00011	.2248	.00366	.0296
%RSD	.98624	51.026	1.0169	14.154	7.4579	259.56	.39613
#1	2.3478	.00226	.07621	-.00069	3.1730	-.00118	7.5010
#2	2.3808	.00106	.07731	-.00085	2.8551	.00400	7.4591
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.23818	.31229	.01134	.00098	.00136	.03765	.04404
SDev	.00114	.00285	.01052	.00226	.00057	.00011	.00117
%RSD	.47881	.91238	92.692	228.92	41.865	.29152	2.6657
#1	.23898	.31027	.00391	-.00061	.00096	.03772	.04321
#2	.23737	.31430	.01878	.00258	.00177	.03757	.04487
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00729	.00863	.0079	.2337	2.868
SDev	.00294	.00272	.0001	.0014	.001
%RSD	40.344	31.531	.5929	.6043	.0201
#1	-.00521	.00670	.0080	.2327	2.868
#2	-.00937	.01055	.0079	.2347	2.869
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6871	--	--	--	--	--	--
SDev	32.52691	--	--	--	--	--	--
%RSD	.4733804	--	--	--	--	--	--
#1	6848	--	--	--	--	--	--
#2	6894	--	--	--	--	--	--

Analysis Report 12/26/01 01:45:36 PM

Method: QTESTI Sample Name: EQWL9 Operator: JGA
Run Time: 12/26/01 13:39:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07981	-.00394	.00231	297.62	.05399	1.6173	.01022
SDev	.00209	.00015	.00367	.51	.00253	.0080	.00016
%RSD	2.6226	3.7124	158.68	.17117	4.6806	.49415	1.5551
#1	.07833	-.00384	-.00028	297.26	.05220	1.6116	.01033
#2	.08129	-.00405	.00490	297.98	.05577	1.6229	.01010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00467	62.538	.41038	.14823	.43777	371.48	89.796
SDev	.00035	.020	.00319	.00073	.00003	.60	.346
%RSD	7.4096	.03247	.77821	.49450	.00781	.16112	.38487
#1	.00442	62.523	.40812	.14771	.43779	371.05	89.552
#2	.00491	62.552	.41264	.14875	.43774	371.90	90.040
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.4337	.00565	.28212	-.00167	11.844	.00892	19.907
SDev	.0618	.00752	.00078	.00012	.309	.00469	.024
%RSD	.83151	133.19	.27648	7.1543	2.6104	52.597	.11830
#1	7.3900	.01097	.28267	-.00159	12.063	.00560	19.891
#2	7.4775	.00033	.28157	-.00176	11.626	.01224	19.924
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.80636	.91585	.01590	.00219	.00255	.06558	.08692
SDev	.00109	.00567	.00636	.01017	.00936	.00171	.00399
%RSD	.13474	.61911	40.032	463.43	367.48	2.6115	4.5941
#1	.80559	.91184	.02040	-.00500	.00916	.06679	.08409
#2	.80712	.91986	.01140	.00939	-.00407	.06437	.08974
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00555	-.00314	.0664	.7173	3.229
SDev	.01571	.00762	.0018	.0041	.006
%RSD	283.06	242.84	2.735	.5731	.1945
#1	.00556	-.00853	.0651	.7144	3.225
#2	-.01666	.00225	.0676	.7202	3.234
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6876	--	--	--	--	--	--
SDev	27.23777	--	--	--	--	--	--
%RSD	.3961270	--	--	--	--	--	--
#1	6857	--	--	--	--	--	--
#2	6895	--	--	--	--	--	--

Analysis Report 12/26/01 01:53:36 PM

Method: QTESTI Sample Name: EQWMA Operator: JGA
Run Time: 12/26/01 13:47:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05151	.00189	-.00026	198.83	.04174	1.2440	.00723
SDev	.00317	.00117	.00283	.10	.00280	.0013	.00003
%RSD	6.1610	62.117	1070.6	.04817	6.7017	.10073	.42303
#1	.04926	.00271	-.00227	198.90	.04372	1.2431	.00725
#2	.05375	.00106	.00174	198.76	.03976	1.2449	.00721
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00047	62.727	.28291	.10557	.32485	277.87	70.345
SDev	.00012	.331	.00233	.00049	.00180	1.14	.109
%RSD	26.714	.52775	.82511	.46066	.55313	.41091	.15540
#1	.00055	62.493	.28126	.10592	.32613	277.06	70.267
#2	.00038	62.961	.28456	.10523	.32358	278.68	70.422
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.6670	.00777	.20337	-.00146	8.5920	.00756	16.345
SDev	.0370	.00665	.00024	.00004	.2948	.00808	.040
%RSD	.79278	85.595	.11805	2.8002	3.4314	106.98	.24762
#1	4.6409	.01247	.20320	-.00149	8.8005	.00184	16.316
#2	4.6932	.00307	.20354	-.00143	8.3835	.01327	16.374
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.58004	.63804	.01357	-.00095	.00111	.04247	.05602
SDev	.00188	.00458	.00422	.00757	.00667	.00191	.00571
%RSD	.32356	.71734	31.097	798.28	602.84	4.4871	10.192
#1	.57872	.63480	.01655	-.00630	.00582	.04382	.05198
#2	.58137	.64128	.01059	.00440	-.00361	.04113	.06005
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00218	.00392	.0342	.6092	3.067
SDev	.00816	.00232	.0001	.0014	.012
%RSD	373.91	59.193	.2524	.2299	.3802
#1	.00359	.00228	.0343	.6083	3.075
#2	-.00795	.00556	.0342	.6102	3.059
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6913	--	--	--	--	--	--
SDev	16.57454	--	--	--	--	--	--
%RSD	.2397424	--	--	--	--	--	--
#1	6902	--	--	--	--	--	--
#2	6925	--	--	--	--	--	--

Analysis Report 12/26/01 02:01:36 PM page 1

Method: QTESTI Sample Name: CCVT Operator: JGA
Run Time: 12/26/01 13:55:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51673	.52537	.52190	24.756	.52237	2.0104	2.1309
SDev	.00327	.00178	.00125	.073	.00026	.0084	.0077
%RSD	.63236	.33824	.23869	.29434	.05061	.42025	.35915
#1	.51904	.52411	.52278	24.808	.52218	2.0164	2.1363
#2	.51442	.52663	.52102	24.705	.52256	2.0044	2.1255
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	.55000	.55000	27.500	.55000	2.2000	2.2000
Low	.45000	.45000	.45000	22.500	.45000	1.8000	1.8000

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51782	104.36	2.1332	2.1088	1.9680	26.573	105.02
SDev	.00224	.23	.0044	.0030	.0074	.067	.61
%RSD	.43216	.21900	.20400	.14233	.37612	.25146	.58475
#1	.51624	104.52	2.1302	2.1067	1.9732	26.620	105.46
#2	.51940	104.19	2.1363	2.1109	1.9627	26.526	104.59
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	110.00	2.2000	2.2000	2.2000	27.500	110.00
Low	.45000	90.000	1.8000	1.8000	1.8000	22.500	90.000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1216	2.0864	2.0728	.96684	49.401	1.0240	2.1049
SDev	.0033	.0165	.0002	.00347	.188	.0035	.0055
%RSD	.15737	.79186	.01176	.35869	.38068	.33751	.26019
#1	2.1193	2.0747	2.0729	.96930	49.534	1.0215	2.1088
#2	2.1240	2.0981	2.0726	.96439	49.268	1.0264	2.1011
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000		1.1000	2.2000
Low	1.8000	1.8000	1.8000	.90000		.90000	1.8000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	2.1026	2.1510	2.0394	.52191	.52187	.52264	.51377
SDev	.0044	.0030	.0038	.00081	.00537	.00766	.00107
%RSD	.20900	.14106	.18732	.15566	1.0286	1.4663	.20880
#1	2.1057	2.1489	2.0367	.52134	.52566	.52806	.51453
#2	2.0994	2.1532	2.0421	.52249	.51807	.51722	.51302
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	2.2000	2.2000	2.2000				
Low	1.8000	1.8000	1.8000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.52083	.52764	2.046	2.091	2.102
SDev	.00703	.00617	.005	.007	.020
%RSD	1.3492	1.1699	.2284	.3374	.9341
#1	.52580	.52327	2.050	2.096	2.116
#2	.51586	.53200	2.043	2.086	2.088
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			2.200	2.200	2.200
Low			1.800	1.800	1.800

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6755	--	--	--	--	--	--
SDev	5.600231	--	--	--	--	--	--
%RSD	.0829089	--	--	--	--	--	--
#1	6759	--	--	--	--	--	--
#2	6751	--	--	--	--	--	--

Analysis Report QC Standard 12/26/01 02:09:37 PM page 1

Method: QTESTI Sample Name: CCBT Operator: JGA
Run Time: 12/26/01 14:03:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00083	-.00112	-.00050	-.09367	-.00018	-.00014	.00130
SDev	.00095	.00016	.00003	.01071	.00406	.00000	.00003
%RSD	114.11	14.136	5.5363	11.432	2254.9	.00000	2.1398
#1	-.00150	-.00123	-.00048	-.10124	.00269	-.00014	.00132
#2	-.00016	-.00101	-.00052	-.08610	-.00305	-.00014	.00128
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	.00500	.06000	.20000	.01000	.02000	.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00032	.02318	-.00035	-.00058	.00129	-.00143	.00188
SDev	.00011	.00156	.00034	.00040	.00052	.00223	.00117
%RSD	33.457	6.7493	96.580	68.448	40.368	155.50	62.172
#1	.00039	.02428	-.00011	-.00030	.00166	-.00301	.00271
#2	.00024	.02207	-.00060	-.00086	.00092	.00014	.00106
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00002	.00014	-.00101	-.00044	-.03222	.00483	.00053
SDev	.00000	.00002	.00039	.00015	.03861	.00135	.00029
%RSD	11.141	10.997	38.368	34.287	119.84	27.893	54.244
#1	.00002	.00015	-.00074	-.00055	-.00492	.00579	.00073
#2	.00001	.00013	-.00128	-.00033	-.05952	.00388	.00032
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01500	.04000	.04000	.01000	5.0000	.01000	.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00025	.00009	.00238	-.00039	-.00072	-.00109	-.00071
SDev	.00067	.00001	.00005	.00011	.00014	.00092	.00096
%RSD	270.46	9.1043	2.1652	29.026	19.636	85.105	136.39
#1	.00072	.00010	.00234	-.00031	-.00082	-.00174	-.00139
#2	-.00023	.00008	.00241	-.00046	-.00062	-.00043	-.00003
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.00000	.00000	.00000				
Range	.05000	.02000	.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.00011	-.00173	<.0000	.0000	.0073
SDev	.00117	.00082	.0007	.0000	.0015
%RSD	1092.9	47.499	50.05	11.14	21.08
#1	.00093	-.00231	<.0000	.0000	.0084
#2	-.00072	-.00115	<.0000	.0000	.0062
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value			.0000	.0000	.0000
Range			.2000	.0500	.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6912	--	--	--	--	--	--
SDev	30.03788	--	--	--	--	--	--
%RSD	.4345482	--	--	--	--	--	--
#1	6891	--	--	--	--	--	--
#2	6934	--	--	--	--	--	--

Analysis Report 12/26/01 02:15:29 PM

Method: QTESTI Sample Name: EQWMC Operator: JGA
Run Time: 12/26/01 14:09:40
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04320	.00028	-.00141	173.54	.02991	.93067	.00709
SDev	.00029	.00207	.00072	.48	.00184	.00565	.00002
%RSD	.67735	747.17	51.448	.27645	6.1520	.60708	.21982
#1	.04340	-.00119	-.00192	173.20	.02861	.92667	.00710
#2	.04299	.00174	-.00089	173.88	.03121	.93466	.00708
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00120	59.216	.21267	.07619	.23570	226.14	60.838
SDev	.00013	.241	.00222	.00060	.00051	.60	.402
%RSD	11.075	.40736	1.0457	.78317	.21623	.26329	.66025
#1	.00110	59.045	.21110	.07577	.23606	225.72	60.554
#2	.00129	59.387	.21425	.07662	.23534	226.56	61.122
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.7593	.00279	.14286	-.00103	8.2951	.00577	14.927
SDev	.0308	.00426	.00137	.00042	.1833	.00436	.027
%RSD	1.1176	152.49	.96114	40.938	2.2102	75.594	.17838
#1	2.7374	.00581	.14189	-.00073	8.4247	.00269	14.909
#2	2.7811	-.00022	.14383	-.00133	8.1655	.00886	14.946
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.46302	.58977	.01761	-.00335	.00249	.03613	.04673
SDev	.00076	.00523	.00430	.00337	.00459	.00291	.00102
%RSD	.16327	.88712	24.392	100.76	184.51	8.0636	2.1743
#1	.46249	.58607	.02065	-.00574	.00573	.03819	.04601
#2	.46356	.59347	.01457	-.00096	-.00076	.03407	.04744
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00723	.00402	.0310	.5610	4.184
SDev	.00417	.00518	.0014	.0039	.032
%RSD	57.650	128.75	4.420	.7015	.7735
#1	-.00428	.00036	.0301	.5582	4.161
#2	-.01018	.00769	.0320	.5638	4.207
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6770	--	--	--	--	--	--
SDev	8.343722	--	--	--	--	--	--
%RSD	.1232415	--	--	--	--	--	--
#1	6764	--	--	--	--	--	--
#2	6776	--	--	--	--	--	--

Analysis Report 12/26/01 02:29:40 PM

Method: QTESTI Sample Name: EQXDE Operator: JGA
Run Time: 12/26/01 14:23:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02417	.00177	.00182	106.59	.01167	.34548	.00439
SDev	.00197	.00022	.00090	.17	.00076	.00217	.00005
%RSD	8.1527	12.493	49.351	.16134	6.5198	.62928	1.2027
#1	.02277	.00162	.00119	106.71	.01221	.34395	.00443
#2	.02556	.00193	.00246	106.47	.01113	.34702	.00435
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00106	6.9693	.09311	.02835	.03163	73.622	8.3453
SDev	.00035	.0132	.00074	.00017	.00032	.003	.0077
%RSD	33.184	.19003	.79231	.60349	1.0230	.00367	.09183
#1	-.00130	6.9786	.09258	.02823	.03185	73.620	8.3399
#2	-.00081	6.9599	.09363	.02847	.03140	73.624	8.3507
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1172	.00215	.03959	-.00047	2.4035	.00212	4.6284
SDev	.0100	.00257	.00024	.00031	.0939	.00254	.0033
%RSD	.89642	119.71	.59862	66.760	3.9065	119.86	.07136
#1	1.1101	.00397	.03976	-.00025	2.4699	.00032	4.6261
#2	1.1243	.00033	.03942	-.00069	2.3372	.00392	4.6308
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.18292	.09492	.00992	.00129	.00289	.01851	.02699
SDev	.00036	.00143	.00211	.00239	.00208	.00056	.00267
%RSD	.19416	1.5018	21.248	185.22	71.823	3.0516	9.8995
#1	.18317	.09391	.01141	-.00040	.00436	.01811	.02510
#2	.18267	.09593	.00843	.00298	.00142	.01891	.02888
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00383	.00457	.0664	.0784	3.988
SDev	.00033	.00050	.0010	.0004	.009
%RSD	8.6274	10.878	1.540	.5235	.2247
#1	-.00359	.00422	.0657	.0781	3.994
#2	-.00406	.00492	.0671	.0787	3.981
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6830	--	--	--	--	--	--
SDev	37.73147	--	--	--	--	--	--
%RSD	.5524502	--	--	--	--	--	--
#1	6803	--	--	--	--	--	--
#2	6857	--	--	--	--	--	--

Analysis Report 12/26/01 02:37:38 PM page 1

Method: QTESTI Sample Name: EQXD7 Operator: JGA
Run Time: 12/26/01 14:31:51
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01635	.00132	-.00037	72.530	.00731	.13482	.00333
SDev	.00126	.00258	.00331	.136	.00306	.00093	.00001
%RSD	7.6934	195.01	890.99	.18818	41.918	.68829	.18838
#1	.01546	-.00050	-.00271	72.627	.00514	.13416	.00333
#2	.01724	.00315	.00197	72.434	.00948	.13547	.00332
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00052	4.8038	.06381	.01223	.02425	53.849	5.7899
SDev	.00019	.0037	.00039	.00044	.00043	.024	.0108
%RSD	36.740	.07698	.60468	3.6384	1.7913	.04429	.18589
#1	-.00065	4.8064	.06408	.01254	.02456	53.832	5.7823
#2	-.00038	4.8012	.06353	.01191	.02394	53.866	5.7975
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.33887	.00197	.02001	-.00039	1.9589	.00027	3.6795
SDev	.00303	.00173	.00041	.00036	.1377	.00426	.0081
%RSD	.89570	87.567	2.0359	93.582	7.0282	1574.0	.22039
#1	.33673	.00319	.02030	-.00013	2.0563	-.00274	3.6737
#2	.34102	.00075	.01972	-.00064	1.8616	.00328	3.6852
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.13710	.06715	.01050	.00004	-.00119	.01375	.01765
SDev	.00023	.00035	.00213	.00489	.00014	.00024	.00177
%RSD	.17157	.52497	20.240	13451.	11.817	1.7519	10.003
#1	.13693	.06690	.01200	-.00342	-.00129	.01357	.01641
#2	.13726	.06740	.00900	.00349	-.00109	.01392	.01890
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00709	.00552	.0220	.0582	3.894
SDev	.00234	.00504	.0014	.0003	.016
%RSD	33.037	91.242	6.475	.5526	.4038
#1	-.00543	.00196	.0230	.0580	3.906
#2	-.00875	.00909	.0210	.0584	3.883
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6802	--	--	--	--	--	--
SDev	4.893124	--	--	--	--	--	--
%RSD	.0719325	--	--	--	--	--	--
#1	6799	--	--	--	--	--	--
#2	6806	--	--	--	--	--	--

Analysis Report 12/26/01 02:45:35 PM page 1

Method: QTESTI Sample Name: EQPNF Operator: JGA
Run Time: 12/26/01 14:39:49
Comment:
Mode: CONC Corr. Factor: 1

Ref

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00211	.00381	.00673	-.09685	-.00034	.00219	.00164
SDev	.00005	.00144	.00084	.01716	.00192	.00002	.00015
%RSD	2.4805	37.934	12.460	17.723	570.08	.74759	8.8945
#1	.00207	.00483	.00614	-.10899	.00102	.00220	.00174
#2	.00214	.00279	.00732	-.08471	-.00169	.00218	.00154
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01487	.94944	.00662	.00049	.01600	3.8078	.06977
SDev	.00041	.00463	.00041	.00041	.00051	.0229	.00401
%RSD	2.7774	.48755	6.1218	83.010	3.2011	.60017	5.7489
#1	.01516	.94617	.00691	.00020	.01636	3.7916	.07260
#2	.01457	.95272	.00634	.00078	.01564	3.8240	.06693
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02312	-.00186	.00170	-.00026	1.6742	-.00472	.00049
SDev	.00012	.00001	.00042	.00021	.1010	.00216	.00031
%RSD	.52424	.34121	24.531	80.807	6.0302	45.758	64.495
#1	.02303	-.00185	.00200	-.00011	1.7456	-.00625	.00026
#2	.02320	-.00186	.00141	-.00041	1.6029	-.00320	.00071
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00063	5.2214	.00813	.00660	.00699	.00284	.00174
SDev	.00001	.0392	.00857	.00176	.00101	.00085	.00050
%RSD	1.2002	.75045	105.41	26.658	14.370	29.929	28.904
#1	.00063	5.1937	.00207	.00535	.00770	.00344	.00139
#2	.00062	5.2491	.01419	.00784	.00628	.00224	.00210
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00112	.00627	<.0000	.0010	.1073
SDev	.00217	.00108	.0007	.0000	.0086
%RSD	192.89	17.266	50.89	.8127	7.994
#1	.00041	.00704	<.0000	.0010	.1134
#2	-.00266	.00550	<.0000	.0010	.1012
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6771	--	--	--	--	--	--
SDev	47.63061	--	--	--	--	--	--
%RSD	.7034461	--	--	--	--	--	--
#1	6737	--	--	--	--	--	--
#2	6805	--	--	--	--	--	--

Analysis Report 12/26/01 02:53:33 PM page 1

Method: QTESTI Sample Name: EQWLH Operator: JGA
Run Time: 12/26/01 14:47:46
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06857	-.00275	-.00131	246.49	.06166	1.3364	.00935
SDev	.00242	.00217	.00525	.10	.00025	.0100	.00003
%RSD	3.5221	78.914	401.57	.04246	.41168	.74801	.33338
#1	.06686	-.00122	-.00502	246.56	.06184	1.3293	.00937
#2	.07027	-.00429	.00240	246.41	.06148	1.3435	.00932
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00300	40.474	.30138	.11936	.19077	271.94	60.434
SDev	.00041	.120	.00172	.00168	.00064	.63	.144
%RSD	13.822	.29635	.56944	1.4111	.33571	.23048	.23892
#1	.00329	40.389	.30017	.11817	.19122	271.50	60.332
#2	.00271	40.559	.30259	.12055	.19031	272.38	60.537
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.2915	.00306	.16046	-.00127	8.9744	.00739	15.260
SDev	.0458	.00512	.00081	.00032	.2570	.00486	.007
%RSD	.86624	167.10	.50777	25.386	2.8633	65.681	.04811
#1	5.2591	.00668	.15989	-.00104	9.1561	.00396	15.255
#2	5.3239	-.00056	.16104	-.00150	8.7927	.01083	15.265
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.56879	.64636	.01882	-.00263	.00134	.05664	.07452
SDev	.00115	.00497	.00211	.00916	.00259	.00156	.00440
%RSD	.20247	.76865	11.190	348.24	192.57	2.7576	5.9052
#1	.56798	.64285	.01733	-.00911	.00318	.05775	.07141
#2	.56961	.64987	.02031	.00385	-.00049	.05554	.07763
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00292	-.00267	.0636	.4077	3.084
SDev	.01211	.00279	.0006	.0032	.003
%RSD	414.32	104.61	.8941	.7781	.1113
#1	.00564	-.00464	.0632	.4054	3.082
#2	-.01149	-.00069	.0640	.4099	3.086
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6750	--	--	--	--	--	--
SDev	14.19876	--	--	--	--	--	--
%RSD	.2103383	--	--	--	--	--	--
#1	6740	--	--	--	--	--	--
#2	6760	--	--	--	--	--	--

Analysis Report 12/26/01 03:01:30 PM page 1

Method: QTESTI Sample Name: EQWLHP Operator: JGA
Run Time: 12/26/01 14:55:44
Comment:
Mode: CONC Corr. Factor: 5

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.06649	L.01307	L.00806	235.62	L.05985	1.3292	.01659
SDev	.00147	.00508	.00226	.80	.00685	.0077	.00002
%RSD	2.2149	38.840	28.013	.34023	11.448	.58281	.11092
#1	L.06545	L.01666	L.00965	236.19	L.06469	1.3237	.01658
#2	L.06753	L.00948	L.00646	235.06	L.05500	1.3346	.01661
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	5.5000
Low	.07500	.17000	.10000	.63000	.24500	.01000	.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00295	41.393	.30497	.11842	.18307	277.31	61.835
SDev	.00133	.019	.00053	.00007	.00185	.13	.067
%RSD	45.014	.04538	.17494	.06053	1.0088	.04545	.10873
#1	L-.00201	41.380	.30535	.11837	.18438	277.22	61.788
#2	L-.00389	41.406	.30460	.11847	.18176	277.40	61.883
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	550.00	55.000	110.00	55.000	1100.0	1100.0
Low	.01500	.38500	.02000	.03500	.04000	.66500	.19000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.4304	L.00151	.16178	L-.00118	8.3143	L.02709	15.575
SDev	.0316	.00431	.00007	.00103	.4997	.00618	.001
%RSD	.58125	285.18	.04602	87.841	6.0101	22.802	.00911
#1	5.4081	L.00456	.16172	L-.00045	8.6677	L.02272	15.576
#2	5.4527	L-.00154	.16183	L-.00191	7.9610	L.03146	15.574
Errors	LC Pass	LC Low	LC Pass	LC Low	NOCHECK	LC Low	LC Pass
High	27.500	27.500	110.00	2.2000		22.000	55.000
Low	.01000	.10500	.05500	.03000		.23500	.01500

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.56857	.68206	L.00936	.00985	.00446	.05038	.07453
SDev	.00315	.00231	.01062	.00317	.01313	.00656	.00548
%RSD	.55366	.33894	113.41	32.186	294.33	13.012	7.3540
#1	.57080	.68043	L.01687	.00761	.01375	.05502	.07065
#2	.56635	.68370	L.00185	.01210	-.00482	.04575	.07840
Errors	LC Pass	LC Pass	LC Low	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	.02000	.03500	.46000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.03388	.00269	L.0526	.4045	3.189
SDev	.01445	.01483	.0035	.0020	.030
%RSD	42.659	551.93	6.727	.4926	.9301
#1	.02366	.01317	L.0501	.4030	3.210
#2	.04409	-.00780	.0551	.4059	3.168
Errors	NOCHECK	NOCHECK	LC Low	LC Pass	LC Pass
High			55.00	5.500	55.00
Low			.0550	.0050	.2400

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6810	--	--	--	--	--	--
SDev	2.969987	--	--	--	--	--	--
%RSD	.0436100	--	--	--	--	--	--
#1	6812	--	--	--	--	--	--
#2	6808	--	--	--	--	--	--

Analysis Report 12/26/01 03:09:28 PM page 1

Method: QTESTI Sample Name: EQWLHS Operator: JGA
Run Time: 12/26/01 15:03:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.55375	1.8520	.18111	309.56	2.0797	3.3785	.06036
SDev	.00667	.0116	.00618	.03	.0130	.0194	.00023
%RSD	1.2044	.62659	3.4143	.01033	.62521	.57427	.38466
#1	.54904	1.8438	.17674	309.53	2.0705	3.3647	.06020
#2	.55847	1.8602	.18548	309.58	2.0889	3.3922	.06053
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05534	90.942	.53470	.63249	.45338	298.57	113.52
SDev	.00081	.181	.00531	.00651	.00123	.97	.85
%RSD	1.4610	.19890	.99294	1.0294	.27115	.32415	.74769
#1	.05477	90.814	.53095	.62789	.45425	297.89	112.92
#2	.05591	91.070	.53846	.63710	.45251	299.26	114.12
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.3891	.96430	.66837	.04818	58.766	1.9906	17.337
SDev	.0694	.00856	.00432	.00037	.557	.0299	.041
%RSD	1.0862	.88730	.64567	.76236	.94736	1.5013	.23458
#1	6.3400	.95825	.66532	.04844	59.160	1.9695	17.308
#2	6.4381	.97035	.67142	.04792	58.372	2.0117	17.365
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	1.1402	1.2094	1.8853	.17973	.18388	.55100	.55513
SDev	.0008	.0125	.0096	.01385	.00917	.00253	.01126
%RSD	.07283	1.0337	.50834	7.7046	4.9852	.45969	2.0290
#1	1.1396	1.2006	1.8785	.16993	.19036	.55279	.54716
#2	1.1408	1.2183	1.8921	.18952	.17740	.54921	.56309
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	1.8468	1.8546	1.034	1.450	6.939
SDev	.0244	.0296	.007	.010	.035
%RSD	1.3208	1.5948	.6766	.6749	.5084
#1	1.8641	1.8337	1.029	1.443	6.914
#2	1.8296	1.8755	1.039	1.457	6.964
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6576	--	--	--	--	--	--
SDev	2.885051	--	--	--	--	--	--
%RSD	.0438738	--	--	--	--	--	--
#1	6578	--	--	--	--	--	--
#2	6574	--	--	--	--	--	--

Analysis Report 12/26/01 03:17:26 PM page 1

Method: QTESTI Sample Name: EQWLHD Operator: JGA
Run Time: 12/26/01 15:11:39
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53768	1.8460	.18248	298.22	1.9951	3.2304	.05969
SDev	.00390	.0015	.00344	.69	.0043	.0005	.00002
%RSD	.72439	.07988	1.8847	.23192	.21732	.01462	.03062
#1	.53492	1.8470	.18005	298.71	1.9920	3.2301	.05970
#2	.54043	1.8449	.18492	297.74	1.9981	3.2307	.05968
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05501	89.501	.52226	.60041	.44102	282.89	110.58
SDev	.00130	.201	.00313	.00325	.00322	.41	.06
%RSD	2.3611	.22452	.59888	.54107	.72932	.14586	.05400
#1	.05593	89.358	.52005	.59811	.44329	282.60	110.53
#2	.05409	89.643	.52447	.60271	.43874	283.18	110.62
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.3738	.95850	.65243	.04726	57.637	1.9813	16.634
SDev	.0345	.00134	.00259	.00002	.409	.0257	.008
%RSD	.64167	.13943	.39625	.03616	.71044	1.2964	.04555
#1	5.3494	.95944	.65061	.04727	57.926	1.9631	16.629
#2	5.3982	.95755	.65426	.04725	57.347	1.9995	16.639
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	1.0975	1.2008	1.8677	.18344	.18057	.53408	.53948
SDev	.0053	.0053	.0046	.00867	.00704	.00375	.00771
%RSD	.48623	.44097	.24758	4.7263	3.8978	.70152	1.4292
#1	1.0937	1.1971	1.8644	.17731	.18554	.53673	.53402
#2	1.1013	1.2046	1.8709	.18957	.17559	.53143	.54493
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	1.8366	1.8506	1.025	1.421	6.196
SDev	.0213	.0084	.004	.002	.019
%RSD	1.1589	.45474	.3671	.1449	.2991
#1	1.8517	1.8447	1.022	1.419	6.209
#2	1.8216	1.8566	1.028	1.422	6.183
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6601	--	--	--	--	--	--
SDev	22.34464	--	--	--	--	--	--
%RSD	.3384998	--	--	--	--	--	--
#1	6585	--	--	--	--	--	--
#2	6617	--	--	--	--	--	--

Analysis Report 12/26/01 03:25:24 PM

Method: QTESTI Sample Name: EQWLW Operator: JGA
Run Time: 12/26/01 15:19:37
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07596	-.00246	.00033	280.58	.05894	1.3651	.01080
SDev	.00227	.00417	.00539	1.76	.00213	.0256	.00017
%RSD	2.9863	169.37	1658.8	.62564	3.6177	1.8757	1.6136
#1	.07435	L-.00541	-.00349	279.34	.06045	1.3470	.01068
#2	.07756	.00049	.00414	281.83	.05743	1.3832	.01093
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00885	56.085	.37516	.14400	.37902	356.10	86.762
SDev	.00046	.684	.00675	.00243	.00160	3.99	1.250
%RSD	5.2295	1.2194	1.7978	1.6842	.42173	1.1196	1.4411
#1	.00918	55.602	.37040	.14228	.37789	353.28	85.878
#2	.00852	56.569	.37993	.14571	.38016	358.92	87.646
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.7586	.00721	.26283	-.00164	11.422	.01418	19.721
SDev	.1286	.00582	.00438	.00013	.262	.00420	.208
%RSD	1.9024	80.810	1.6666	8.0416	2.2970	29.623	1.0526
#1	6.6677	.01132	.25973	-.00155	11.608	.01121	19.575
#2	6.8495	.00309	.26592	-.00174	11.237	.01715	19.868
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.78836	.83328	.02538	-.00050	.00197	.06408	.08189
SDev	.00988	.01593	.00213	.01141	.00665	.00277	.00478
%RSD	1.2527	1.9117	8.3987	2295.1	337.29	4.3165	5.8391
#1	.78138	.82202	.02387	-.00856	.00668	.06603	.07851
#2	.79535	.84455	.02688	.00757	-.00273	.06212	.08527
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.00033	-.00385	.0557	.6619	2.385
SDev	.01043	.01145	.0010	.0124	.038
%RSD	3139.5	297.16	1.769	1.867	1.591
#1	.00770	-.01195	.0550	.6532	2.359
#2	-.00704	.00424	.0564	.6706	2.412
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6743	--	--	--	--	--	--
SDev	32.49860	--	--	--	--	--	--
%RSD	.4819334	--	--	--	--	--	--
#1	6766	--	--	--	--	--	--
#2	6720	--	--	--	--	--	--

Analysis Report 12/26/01 03:33:21 PM

Method: QTESTI Sample Name: EQWLX Operator: JGA
Run Time: 12/26/01 15:27:34
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05521	.00065	.00072	200.98	.04639	H14.197	.00847
SDev	.00161	.00340	.00243	.78	.00384	.112	.00009
%RSD	2.9196	522.67	337.35	.38976	8.2796	.78805	1.0446
#1	.05407	-.00175	-.00100	201.53	.04910	H14.117	.00854
#2	.05635	.00305	.00244	200.42	.04367	H14.276	.00841
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00616	73.858	.28042	.11507	.27875	299.74	78.876
SDev	.00052	.110	.00208	.00094	.00111	.55	.410
%RSD	8.4237	.14942	.74239	.82089	.39919	.18414	.51928
#1	.00579	73.780	.27895	.11441	.27953	299.34	78.586
#2	.00653	73.936	.28189	.11574	.27796	300.13	79.166
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.8586	.00299	.19279	-.00172	10.041	.00253	20.306
SDev	.0483	.00689	.00111	.00004	.337	.01262	.015
%RSD	.99484	230.70	.57296	2.3457	3.3594	497.97	.07425
#1	4.8244	.00786	.19201	-.00175	10.280	-.00639	20.296
#2	4.8927	-.00189	.19357	-.00169	9.8029	.01146	20.317
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.61883	.69426	.01173	-.00030	.00275	.04652	.05955
SDev	.00115	.00474	.00429	.00603	.00478	.00424	.00453
%RSD	.18548	.68239	36.588	2039.2	173.72	9.1177	7.6144
#1	.61802	.69091	.00869	-.00456	.00613	.04952	.05634
#2	.61964	.69761	.01476	.00397	-.00063	.04352	.06275
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00423	.00309	.0256	.9834	2.996
SDev	.00673	.00845	.0002	.0096	.019
%RSD	159.12	273.94	.6944	.9767	.6485
#1	.00053	-.00289	.0257	.9766	2.983
#2	-.00898	.00906	.0255	.9902	3.010
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6627	--	--	--	--	--	--
SDev	42.56762	--	--	--	--	--	--
%RSD	.6423808	--	--	--	--	--	--
#1	6596	--	--	--	--	--	--
#2	6657	--	--	--	--	--	--

Analysis Report 12/26/01 03:41:18 PM

Method: QTESTI Sample Name: CCVT Operator: JGA
Run Time: 12/26/01 15:35:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51972	.53648	.53075	24.892	.52995	1.9824	2.1319
SDev	.00305	.00005	.00367	.005	.00219	.0074	.0033
%RSD	.58762	.00942	.69246	.02055	.41319	.37331	.15312
#1	.51756	.53652	.52815	24.896	.52840	1.9772	2.1342
#2	.52188	.53645	.53335	24.889	.53149	1.9876	2.1296
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	.55000	.55000	27.500	.55000	2.2000	2.2000
Low	.45000	.45000	.45000	22.500	.45000	1.8000	1.8000

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51189	103.47	2.1639	2.1339	1.9357	26.836	106.78
SDev	.00250	.13	.0110	.0118	.0057	.055	.24
%RSD	.48776	.12166	.50636	.55316	.29607	.20376	.22633
#1	.51012	103.56	2.1561	2.1256	1.9398	26.875	106.61
#2	.51366	103.38	2.1716	2.1423	1.9317	26.798	106.95
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	110.00	2.2000	2.2000	2.2000	27.500	110.00
Low	.45000	90.000	1.8000	1.8000	1.8000	22.500	90.000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1375	2.1138	2.0669	.97721	49.637	1.0361	2.1276
SDev	.0113	.0219	.0098	.00003	.086	.0204	.0002
%RSD	.53004	1.0371	.47429	.00276	.17359	1.9662	.01083
#1	2.1295	2.0983	2.0599	.97719	49.698	1.0217	2.1278
#2	2.1455	2.1293	2.0738	.97723	49.576	1.0505	2.1275
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000		1.1000	2.2000
Low	1.8000	1.8000	1.8000	.90000		.90000	1.8000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	2.1090	2.1802	2.0859	.53302	.52620	.52975	.51471
SDev	.0031	.0075	.0118	.00571	.00040	.00050	.00483
%RSD	.14487	.34486	.56783	1.0715	.07653	.09461	.93818
#1	2.1112	2.1749	2.0775	.52898	.52649	.53010	.51130
#2	2.1068	2.1855	2.0943	.53705	.52592	.52939	.51813
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	2.2000	2.2000	2.2000				
Low	1.8000	1.8000	1.8000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.53836	.53555	2.063	2.082	2.113
SDev	.00774	.00379	.012	.008	.007
%RSD	1.4385	.70776	.5719	.3725	.3144
#1	.54383	.53287	2.054	2.076	2.117
#2	.53288	.53823	2.071	2.087	2.108
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			2.200	2.200	2.200
Low			1.800	1.800	1.800

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6569	--	--	--	--	--	--
SDev	37.53328	--	--	--	--	--	--
%RSD	.5713750	--	--	--	--	--	--
#1	6595	--	--	--	--	--	--
#2	6542	--	--	--	--	--	--

Analysis Report QC Standard 12/26/01 03:49:17 PM page 1

Method: QTESTI Sample Name: CCBT. Operator: JGA
Run Time: 12/26/01 15:43:30
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00101	.00083	.00059	-.15280	-.00304	.00046	.00237
SDev	.00011	.00034	.00066	.01130	.00018	.00000	.00011
%RSD	10.612	40.474	112.77	7.3983	5.8438	.20290	4.7440
#1	-.00108	.00060	.00106	-.16079	-.00316	.00046	.00245
#2	-.00093	.00107	.00012	-.14481	-.00291	.00046	.00229
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	.00500	.06000	.20000	.01000	.02000	.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00063	.03944	.00000	-.00032	.00292	.01321	.00899
SDev	.00022	.00059	.00028	.00000	.00046	.00418	.00120
%RSD	35.042	1.4893	12026.	.37648	15.717	31.655	13.408
#1	.00047	.03985	.00020	-.00032	.00325	.01617	.00984
#2	.00079	.03902	-.00020	-.00032	.00260	.01025	.00814
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00024	.00156	-.00012	.00005	.09222	.00302	.00066
SDev	.00000	.00001	.00081	.00021	.03049	.00132	.00000
%RSD	.40333	.52948	657.35	393.17	33.058	43.509	.41164
#1	.00024	.00157	.00045	-.00010	.07066	.00209	.00066
#2	.00024	.00156	-.00069	.00020	.11378	.00396	.00066
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01500	.04000	.04000	.01000	5.0000	.01000	.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00002	.00663	-.00124	.00095	-.00014	-.00165	-.00069
SDev	.00035	.00001	.00434	.00107	.00015	.00063	.00015
%RSD	1610.6	.13939	350.22	112.67	111.31	38.078	22.384
#1	-.00023	.00664	.00183	.00171	-.00025	-.00209	-.00058
#2	.00027	.00663	-.00431	.00019	-.00003	-.00121	-.00079
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.00000	.00000	.00000				
Range	.05000	.02000	.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.00128	.00061	<.0000	.0002	.0238
SDev	.00438	.00168	.0007	.0000	.0031
%RSD	342.99	274.62	53.03	.2889	12.90
#1	-.00182	.00180	<.0000	.0002	.0260
#2	.00438	-.00058	<.0000	.0002	.0217
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value			.0000	.0000	.0000
Range			.2000	.0500	.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6614	--	--	--	--	--	--
SDev	10.32383	--	--	--	--	--	--
%RSD	.1560986	--	--	--	--	--	--
#1	6606	--	--	--	--	--	--
#2	6621	--	--	--	--	--	--

Analysis Report 12/26/01 03:55:07 PM page 1

Method: QTESTI Sample Name: EQWL0 Operator: JGA
Run Time: 12/26/01 15:49:20
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06695	-.00340	-.00009	251.31	.04467	1.8419	.01024
SDev	.00102	.00335	.00522	.12	.00265	.0084	.00011
%RSD	1.5301	98.485	6110.6	.04726	5.9227	.45661	1.1163
#1	.06622	L-.00577	-.00378	251.40	.04654	1.8360	.01033
#2	.06767	-.00103	.00361	251.23	.04280	1.8478	.01016
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01017	92.013	.32522	.13138	.38208	336.23	94.412
SDev	.00039	.042	.00105	.00028	.00014	.26	.268
%RSD	3.8396	.04613	.32151	.21710	.03542	.07681	.28348
#1	.01045	91.983	.32448	.13118	.38198	336.05	94.223
#2	.00989	92.043	.32596	.13158	.38217	336.41	94.601
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.2382	.00443	.20582	-.00148	11.203	.00341	22.520
SDev	.0319	.00608	.00077	.00055	.400	.00934	.008
%RSD	.60917	137.34	.37495	36.985	3.5700	274.15	.03515
#1	5.2157	.00873	.20637	-.00109	11.486	-.00320	22.526
#2	5.2608	.00013	.20527	-.00186	10.921	.01001	22.514
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.68805	.92318	.01520	-.00070	.00115	.05726	.07178
SDev	.00047	.00502	.00653	.00929	.00293	.00510	.00408
%RSD	.06865	.54327	42.946	1321.3	254.08	8.9123	5.6886
#1	.68771	.91963	.01059	-.00727	.00322	.06087	.06889
#2	.68838	.92672	.01982	.00587	-.00092	.05365	.07467
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00355	-.00332	.0348	.8618	3.866
SDev	.00214	.00609	.0005	.0046	.002
%RSD	60.398	183.14	1.326	.5367	.0627
#1	-.00203	-.00763	.0344	.8585	3.864
#2	-.00506	.00098	.0351	.8651	3.868
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6534	--	--	--	--	--	--
SDev	48.13988	--	--	--	--	--	--
%RSD	.7367282	--	--	--	--	--	--
#1	6500	--	--	--	--	--	--
#2	6568	--	--	--	--	--	--

Analysis Report 12/26/01 04:03:04 PM

Method: QTESTI Sample Name: EQT6J 1X 1355333 Operator: JGA
Run Time: 12/26/01 15:57:18
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00553	.00161	.00085	11.300	.00155	.34087	.00312
SDev	.00124	.00116	.00061	.007	.00007	.00363	.00002
%RSD	22.422	71.924	72.027	.05896	4.5247	1.0635	.61821
#1	.00641	.00079	.00128	11.305	.00150	.33831	.00311
#2	.00465	.00243	.00042	11.295	.00160	.34344	.00313
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00131	74.121	.01550	.00279	.02021	9.7797	43.533
SDev	.00007	.189	.00039	.00001	.00031	.0445	.388
%RSD	5.0161	.25439	2.4904	.16486	1.5349	.45533	.89187
#1	.00136	73.987	.01578	.00279	.02043	9.7482	43.258
#2	.00126	74.254	.01523	.00280	.01999	9.8112	43.807
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.21636	.00725	.01116	-.00017	111.20	-.00026	.38545
SDev	.00293	.00094	.00044	.00006	.30	.00042	.00121
%RSD	1.3530	13.028	3.9802	32.000	.26798	162.97	.31463
#1	.21429	.00658	.01085	-.00021	111.41	.00004	.38459
#2	.21843	.00792	.01147	-.00013	110.99	-.00055	.38631
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.03027	.07028	.00600	.00104	.00046	.00180	.00740
SDev	.00043	.00102	.00223	.00101	.00018	.00179	.00097
%RSD	1.4276	1.4527	37.238	96.464	40.041	99.386	13.077
#1	.02996	.06956	.00442	.00175	.00033	.00306	.00808
#2	.03057	.07100	.00757	.00033	.00058	.00053	.00671
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00513	.00497	.0751	.5586	31.43
SDev	.00188	.00080	.0017	.0063	1.86
%RSD	36.623	15.999	2.225	1.132	5.929
#1	-.00646	.00441	.0739	.5541	30.11
#2	-.00380	.00554	.0763	.5631	32.75
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6411	--	--	--	--	--	--
SDev	14.99046	--	--	--	--	--	--
%RSD	.2338386	--	--	--	--	--	--
#1	6421	--	--	--	--	--	--
#2	6400	--	--	--	--	--	--

Analysis Report 12/26/01 04:11:01 PM page 1

Method: QTESTI Sample Name: EQT6P Operator: JGA
Run Time: 12/26/01 16:05:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00155	-.00074	.00119	-.17695	.00332	.18840	.00271
SDev	.00117	.00200	.00171	.01997	.00161	.00026	.00025
%RSD	75.159	271.93	143.67	11.288	48.435	.14040	9.3091
#1	-.00238	-.00215	-.00002	-.19107	.00446	.18821	.00289
#2	-.00073	.00068	.00240	-.16282	.00218	.18858	.00253
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00090	48.824	.00076	-.00035	.00461	.35480	29.675
SDev	.00032	.133	.00067	.00000	.00061	.00696	.016
%RSD	35.237	.27309	87.788	.96216	13.155	1.9625	.05551
#1	.00068	48.730	.00123	-.00035	.00504	.34987	29.663
#2	.00112	48.919	.00029	-.00035	.00418	.35972	29.686
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.26724	.01153	.00081	.00005	214.49	-.00266	.00060
SDev	.00216	.00100	.00043	.00005	1.29	.00222	.00001
%RSD	.80801	8.6901	52.997	95.160	.60144	83.590	1.6651
#1	.26571	.01224	.00112	.00002	215.41	-.00109	.00059
#2	.26876	.01082	.00051	.00009	213.58	-.00423	.00061
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00003	.01325	-.00499	.00182	-.00008	-.00341	-.00062
SDev	.00036	.00034	.00462	.00225	.00063	.00153	.00099
%RSD	1167.7	2.6040	92.702	123.35	841.27	44.773	158.03
#1	-.00022	.01300	-.00826	.00023	-.00052	-.00449	-.00132
#2	.00028	.01349	-.00172	.00342	.00037	-.00233	.00007
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00420	.00099	.2304	.4245	13.89
SDev	.00009	.00305	.0010	.0013	.03
%RSD	2.2524	307.51	.4157	.2965	.2120
#1	-.00413	-.00117	.2297	.4236	13.91
#2	-.00427	.00315	.2310	.4254	13.87
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6391	--	--	--	--	--	--
SDev	35.41196	--	--	--	--	--	--
%RSD	.5540876	--	--	--	--	--	--
#1	6366	--	--	--	--	--	--
#2	6416	--	--	--	--	--	--

Analysis Report 12/26/01 04:18:59 PM

Method: QTESTI Sample Name: EQV60 Operator: JGA
Run Time: 12/26/01 16:13:12
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00013	-.00092	.00046	33.011	.00194	.05276	.01020
SDev	.00025	.00110	.00142	.584	.00133	.00038	.00023
%RSD	184.22	120.25	308.15	1.7689	68.519	.72745	2.3033
#1	.00004	-.00014	.00147	33.424	.00100	.05303	.01037
#2	-.00031	-.00170	-.00054	32.598	.00289	.05248	.01003
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01258	327.48	.01041	.18777	.04058	105.94	146.61
SDev	.00021	1.70	.00044	.00120	.00124	.11	1.61
%RSD	1.6758	.51890	4.1935	.64100	3.0662	.10629	1.0949
#1	.01273	328.68	.01072	.18862	.04146	106.02	147.75
#2	.01243	326.28	.01010	.18692	.03970	105.86	145.48
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.7699	.00278	.30538	-.00165	322.03	.00039	.02376
SDev	.0265	.00084	.00218	.00022	7.18	.00013	.00002
%RSD	.34094	30.386	.71274	13.409	2.2302	33.314	.06805
#1	7.7886	.00338	.30385	-.00149	327.11	.00030	.02377
#2	7.7512	.00218	.30692	-.00180	316.95	.00048	.02375
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.04403	2.5770	.01102	.00142	-.00146	-.00291	.00125
SDev	.00037	.0159	.00438	.00234	.00041	.00102	.00014
%RSD	.83898	.61553	39.722	164.74	28.269	35.068	10.995
#1	.04429	2.5882	.01411	.00307	-.00175	-.00219	.00115
#2	.04377	2.5658	.00792	-.00023	-.00116	-.00363	.00135
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.00138	-.00206	.2674	2.536	20.09
SDev	.00501	.00085	.0012	.017	.16
%RSD	364.55	41.268	.4488	.6820	.7911
#1	.00492	-.00266	.2683	2.549	20.20
#2	-.00217	-.00146	.2666	2.524	19.98
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6525	--	--	--	--	--	--
SDev	100.0698	--	--	--	--	--	--
%RSD	1.533627	--	--	--	--	--	--
#1	6454	--	--	--	--	--	--
#2	6596	--	--	--	--	--	--

Analysis Report 12/26/01 04:26:57 PM

Method: QTESTI Sample Name: EQPNF Operator: JGA
Run Time: 12/26/01 16:21:10
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00261	.00366	.00781	-.15909	-.00078	.00228	.00263
SDev	.00073	.00059	.00055	.01953	.00028	.00002	.00018
%RSD	27.991	16.070	6.9862	12.275	36.127	1.0258	6.7541
#1	.00209	.00407	.00819	-.17290	-.00098	.00230	.00275
#2	.00313	.00324	.00742	-.14528	-.00058	.00227	.00250
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01517	.90881	.00620	-.00010	.01713	3.8357	.07448
SDev	.00014	.01205	.00086	.00042	.00065	.0068	.00443
%RSD	.92601	1.3261	13.887	434.76	3.7759	.17659	5.9454
#1	.01507	.91733	.00681	.00020	.01758	3.8405	.07762
#2	.01527	.90029	.00559	-.00040	.01667	3.8309	.07135
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02339	-.00052	.00213	-.00021	1.7814	-.00482	.00019
SDev	.00023	.00183	.00004	.00027	.1265	.00202	.00002
%RSD	.98329	351.24	1.8258	131.97	7.1009	41.854	11.052
#1	.02356	.00077	.00216	-.00001	1.8708	-.00624	.00018
#2	.02323	-.00181	.00210	-.00040	1.6919	-.00339	.00021
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	-.00009	5.3159	.01108	.00817	.00707	.00297	.00243
SDev	.00035	.0240	.00440	.00004	.00156	.00108	.00163
%RSD	392.38	.45235	39.695	.44515	22.122	36.376	67.317
#1	-.00034	5.2989	.01419	.00820	.00818	.00374	.00127
#2	.00016	5.3329	.00797	.00815	.00597	.00221	.00358
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00250	.00673	<.0000	.0011	.1441
SDev	.00079	.00049	.0015	.0000	.0155
%RSD	31.689	7.2095	77.89	1.111	10.73
#1	-.00194	.00707	<.0000	.0011	.1550
#2	-.00306	.00639	<.0000	.0011	.1331
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6519	--	--	--	--	--	--
SDev	63.07372	--	--	--	--	--	--
%RSD	.9675130	--	--	--	--	--	--
#1	6475	--	--	--	--	--	--
#2	6564	--	--	--	--	--	--

Analysis Report 12/26/01 04:34:54 PM page 1

Method: QTESTI Sample Name: EQ0XNB 10X 1355530 Operator: JGA
Run Time: 12/26/01 16:29:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00112	H.01297	.00314	-.18599	-.00140	.00241	.00302
SDev	.00043	.00180	.00041	.01339	.00323	.00001	.00015
%RSD	38.621	13.912	13.060	7.1970	231.38	.50140	4.8345
#1	.00081	H.01425	.00285	-.19546	.00089	.00241	.00312
#2	.00142	H.01169	.00343	-.17653	-.00368	.00240	.00292
Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.00500	.06000	.20000	.01000	.02000	.00500
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00087	.10664	.00218	.00027	.00733	.03223	.07586
SDev	.00001	.00210	.00047	.00000	.00039	.00222	.00417
%RSD	1.4028	1.9723	21.460	.00867	5.2991	6.8897	5.4991
#1	.00088	.10813	.00251	.00027	.00760	.03380	.07881
#2	.00086	.10515	.00185	.00027	.00705	.03066	.07291
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00028	-.00346	.00665	.00010	H612.88	L-.01220	.00008
SDev	.00000	.00000	.00004	.00034	7.15	.00070	.00001
%RSD	1.1155	.00647	.60393	344.91	1.1661	5.7709	13.671
#1	.00028	-.00346	.00668	.00034	H617.93	L-.01270	.00007
#2	.00028	-.00346	.00662	-.00014	H607.82	L-.01170	.00009
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Low	LC Pass
High	.01500	.04000	.04000	.01000	5.0000	.01000	.05000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00003	.00968	.02079	.00470	.00003	.00306	.00015
SDev	.00037	.00006	.00469	.00071	.00018	.00151	.00011
%RSD	1125.7	.57060	22.546	15.057	652.92	49.398	74.540
#1	.00030	.00972	.02410	.00420	.00016	.00199	.00022
#2	-.00023	.00964	.01747	.00520	-.00010	.00413	.00007
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.10000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.01538	.01177	<.0000	.0015	.0931
SDev	.00109	.00216	.0000	.0000	.0012
%RSD	7.0958	18.358	.0000	.5245	1.269
#1	.01615	.01330	<.0000	.0015	.0939
#2	.01461	.01024	<.0000	.0015	.0922
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			.2000	.0500	.5000
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6202	--	--	--	--	--	--
SDev	29.41571	--	--	--	--	--	--
%RSD	.4742848	--	--	--	--	--	--
#1	6181	--	--	--	--	--	--
#2	6223	--	--	--	--	--	--

Analysis Report 12/26/01 04:40:44 PM page 1

Method: QTESTI Sample Name: EQ0XNC 10X Operator: JGA
Run Time: 12/26/01 16:34:58
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53098	2.2875	.54697	2.0382	2.2588	2.0032	.05737
SDev	.00651	.0205	.00929	.0151	.0286	.0213	.00020
%RSD	1.2263	.89449	1.6982	.73986	1.2641	1.0616	.34122
#1	.52638	2.2730	.54040	2.0276	2.2386	1.9882	.05723
#2	.53558	2.3020	.55354	2.0489	2.2790	2.0183	.05751
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	2.4000	.60000	2.4000	2.4000	2.4000	.06000
Low	.40000	1.6000	.40000	1.6000	1.6000	1.6000	.04250

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05256	L.13149	.22346	.54760	.26080	1.0668	L.07397
SDev	.00051	.00261	.00232	.00507	.00097	.0002	.00495
%RSD	.97443	1.9810	1.0368	.92673	.37216	.02109	6.6976
#1	.05220	L.13334	.22182	.54401	.26149	1.0667	L.07748
#2	.05292	L.12965	.22510	.55119	.26012	1.0670	L.07047
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	.06000	60.000	.24000	.60000	.30000	1.2000	60.000
Low	.04000	40.000	.17000	.40000	.20000	.85000	40.000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54734	1.1196	.53525	.05414	616.69	2.3310	L.00053
SDev	.00578	.0186	.00651	.00020	2.73	.0456	.00001
%RSD	1.0562	1.6612	1.2158	.37524	.44201	1.9565	1.9652
#1	.54325	1.1065	.53065	.05400	618.62	2.2988	L.00052
#2	.55143	1.1328	.53985	.05428	614.76	2.3633	L.00054
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Low
High	.60000	1.2000	.60000	.06000		2.4000	1.2000
Low	.40000	.80000	.40000	.04000		1.6000	.80000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.53849	.58443	L.01417	.54689	.54713	.54481	.52407
SDev	.00304	.00428	.00469	.01323	.00139	.00079	.01016
%RSD	.56454	.73229	33.107	2.4193	.25439	.14534	1.9381
#1	.53634	.58141	L.01086	.53753	.54614	.54537	.51689
#2	.54064	.58746	L.01749	.55624	.54811	.54425	.53126
Errors	LC Pass	LC Pass	LC Low	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.60000	.60000	2.4000				
Low	.42500	.42500	1.6000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	2.2822	2.2901	.0038	L.0016	L.1577
SDev	.0076	.0345	.0008	.0001	.0014
%RSD	.33191	1.5046	21.67	8.789	.8558
#1	2.2875	2.2658	.0043	L.0017	L.1586
#2	2.2768	2.3145	.0032	L.0015	L.1567
Errors	NOCHECK	NOCHECK	NOCHECK	LC Low	LC Low
High				1.200	12.00
Low				.8000	8.000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6153	--	--	--	--	--	--
SDev	34.22390	--	--	--	--	--	--
%RSD	.5562438	--	--	--	--	--	--
#1	6128	--	--	--	--	--	--
#2	6177	--	--	--	--	--	--

Analysis Report 12/26/01 04:48:42 PM page 1

Method: QTESTI Sample Name: EQQ1M 10X Operator: JGA
Run Time: 12/26/01 16:42:55
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.88584	.01187	.00607	3.1366	.00540	1.0147	.00346
SDev	.00695	.00072	.00105	.0166	.00250	.0067	.00004
%RSD	.78453	6.1009	17.240	.52910	46.364	.65932	1.1920
#1	.88092	.01238	.00681	3.1483	.00717	1.0100	.00349
#2	.89075	.01136	.00533	3.1249	.00363	1.0195	.00343
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00549	18.453	.01610	.03526	.05810	7.3715	1.6606
SDev	.00011	.018	.00002	.00026	.00085	.0061	.0031
%RSD	1.9984	.09836	.12460	.74892	1.4544	.08239	.18914
#1	.00541	18.465	.01612	.03507	.05870	7.3673	1.6584
#2	.00557	18.440	.01609	.03545	.05751	7.3758	1.6628
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.7847	-.00142	.02925	-.00008	565.52	-.00413	.11330
SDev	.0106	.00184	.00015	.00006	6.33	.00386	.00010
%RSD	.59513	129.20	.51623	79.477	1.1191	93.331	.08974
#1	1.7772	-.00272	.02936	-.00003	570.00	-.00141	.11323
#2	1.7922	-.00012	.02914	-.00012	561.05	-.00686	.11337
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.03286	1.8119	.02693	.00705	.00409	.91150	.87302
SDev	.00016	.0050	.00006	.00164	.00014	.00175	.01129
%RSD	.48439	.27567	.22993	23.235	3.4744	.19139	1.2932
#1	.03297	1.8084	.02698	.00821	.00399	.91274	.86504
#2	.03275	1.8154	.02689	.00589	.00419	.91027	.88101
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.01516	.01023	.0326	.1499	2.441
SDev	.00190	.00014	.0006	.0010	.011
%RSD	12.518	1.3534	1.791	.6378	.4415
#1	.01650	.01033	.0322	.1492	2.448
#2	.01382	.01013	.0330	.1506	2.433
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6374	--	--	--	--	--	--
SDev	30.80161	--	--	--	--	--	--
%RSD	.4832065	--	--	--	--	--	--
#1	6353	--	--	--	--	--	--
#2	6396	--	--	--	--	--	--

Analysis Report 12/26/01 04:56:39 PM page 1

Method: QTESTI Sample Name: EQQ1MP 10X Operator: JGA
Run Time: 12/26/01 16:50:53
Comment:
Mode: CONC Corr. Factor: 5

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.86064	L.01299	L.00893	2.3565	L-.00343	1.0229	.01249
SDev	.04501	.01278	.00464	.0607	.01149	.0529	.00049
%RSD	5.2302	98.449	51.920	2.5761	335.23	5.1709	3.9407
#1	.89247	L.00395	L.01221	2.3994	L-.01155	1.0603	.01214
#2	.82881	L.02203	L.00565	2.3136	L.00470	.98550	.01284
Errors	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	5.5000
Low	.07500	.17000	.10000	.63000	.24500	.01000	.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00711	19.114	L.01721	L.03351	.06363	7.5072	1.7648
SDev	.00077	.495	.00173	.00418	.00211	.2015	.0895
%RSD	10.875	2.5897	10.073	12.482	3.3151	2.6845	5.0711
#1	L.00766	19.464	L.01844	.03647	.06512	7.6497	1.8281
#2	L.00656	18.764	L.01599	L.03055	.06214	7.3647	1.7015
Errors	LC Low	LC Pass	LC Low	LC Low	LC Pass	LC Pass	LC Pass
High	11.000	550.00	55.000	110.00	55.000	1100.0	1100.0
Low	.01500	.38500	.02000	.03500	.04000	.66500	.19000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8069	L-.00404	L.03180	L-.00017	573.68	L.00846	.11497
SDev	.0839	.00002	.00201	.00051	19.15	.01035	.00463
%RSD	4.6450	.59330	6.3243	294.97	3.3384	122.38	4.0259
#1	1.8662	L-.00402	L.03322	L.00019	587.22	L.00114	.11824
#2	1.7475	L-.00405	L.03038	L-.00053	560.13	L.01578	.11169
Errors	LC Pass	LC Low	LC Low	LC Low	NOCHECK	LC Low	LC Pass
High	27.500	27.500	110.00	2.2000		22.000	55.000
Low	.01000	.10500	.05500	.03000		.23500	.01500

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.03314	1.8778	L.03238	.01452	-.00225	.85009	.86590
SDev	.00000	.0874	.01090	.00894	.00397	.00313	.06905
%RSD	.00966	4.6536	33.674	61.563	176.39	.36823	7.9741
#1	.03314	1.9396	L.02467	.02084	-.00506	.84788	.91473
#2	.03314	1.8160	L.04009	.00820	.00056	.85231	.81708
Errors	LC Pass	LC Pass	LC Low	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	.02000	.03500	.46000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.02337	.00780	L.0186	.1513	2.470
SDev	.03385	.00227	.0036	.0075	.139
%RSD	144.85	29.075	19.37	4.960	5.630
#1	-.00057	.00620	L.0212	.1566	2.569
#2	.04730	.00941	L.0161	.1460	2.372
Errors	NOCHECK	NOCHECK	LC Low	LC Pass	LC Pass
High			55.00	5.500	55.00
Low			.0550	.0050	.2400

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6628	--	--	--	--	--	--
SDev	1.895171	--	--	--	--	--	--
%RSD	.0285949	--	--	--	--	--	--
#1	6626	--	--	--	--	--	--
#2	6629	--	--	--	--	--	--

Analysis Report 12/26/01 05:04:37 PM page 1

Method: QTESTI Sample Name: CCVT Operator: JGA
Run Time: 12/26/01 16:58:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52083	.54010	.53209	24.803	.53405	1.9861	2.1445
SDev	.00331	.00067	.00311	.108	.00080	.0040	.0037
%RSD	.63591	.12390	.58348	.43647	.14933	.20080	.17069
#1	.51849	.53963	.52990	24.879	.53462	1.9833	2.1471
#2	.52317	.54057	.53429	24.726	.53349	1.9889	2.1420
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	.55000	.55000	27.500	.55000	2.2000	2.2000
Low	.45000	.45000	.45000	22.500	.45000	1.8000	1.8000

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51232	103.21	2.1765	2.1391	1.9130	26.871	107.02
SDev	.00182	.10	.0116	.0087	.0089	.044	.08
%RSD	.35545	.10016	.53470	.40711	.46409	.16210	.07735
#1	.51104	103.28	2.1683	2.1329	1.9192	26.902	107.08
#2	.51361	103.14	2.1847	2.1452	1.9067	26.840	106.96
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	110.00	2.2000	2.2000	2.2000	27.500	110.00
Low	.45000	90.000	1.8000	1.8000	1.8000	22.500	90.000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1411	2.1229	2.0706	.97642	49.319	1.0379	2.1334
SDev	.0090	.0208	.0036	.00297	.313	.0124	.0036
%RSD	.42080	.97969	.17149	.30378	.63558	1.1903	.17001
#1	2.1347	2.1082	2.0681	.97852	49.541	1.0292	2.1359
#2	2.1475	2.1376	2.0731	.97432	49.098	1.0466	2.1308
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000		1.1000	2.2000
Low	1.8000	1.8000	1.8000	.90000		.90000	1.8000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	2.1061	2.1977	2.0902	.53399	.52830	.52808	.51721
SDev	.0012	.0056	.0130	.00626	.00321	.00004	.00495
%RSD	.05793	.25301	.61994	1.1721	.60816	.00691	.95654
#1	2.1070	2.1938	2.0810	.52956	.53057	.52805	.51371
#2	2.1053	H2.2016	2.0994	.53841	.52603	.52810	.52071
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	2.2000	2.2000	2.2000				
Low	1.8000	1.8000	1.8000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.53890	.54070	2.072	2.082	2.124
SDev	.00605	.00403	.006	.005	.002
%RSD	1.1236	.74465	.2725	.2322	.1089
#1	.54318	.53785	2.068	2.078	2.126
#2	.53461	.54355	2.076	2.085	2.123
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			2.200	2.200	2.200
Low			1.800	1.800	1.800

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6590	--	--	--	--	--	--
SDev	20.25164	--	--	--	--	--	--
%RSD	.3073254	--	--	--	--	--	--
#1	6604	--	--	--	--	--	--
#2	6575	--	--	--	--	--	--

Analysis Report QC Standard 12/26/01 05:12:36 PM page 1

Method: QTESTI Sample Name: CCBT Operator: JGA
Run Time: 12/26/01 17:06:49
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00146	.00012	.00057	-.14985	-.00227	-.00014	.00208
SDev	.00067	.00019	.00001	.01126	.00163	.00000	.00012
%RSD	45.772	159.05	2.1485	7.5112	72.009	.00000	5.8398
#1	-.00193	-.00001	.00056	-.15781	-.00111	-.00014	.00217
#2	-.00098	.00025	.00058	-.14189	-.00342	-.00014	.00199
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	.00500	.06000	.20000	.01000	.02000	.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00048	.03177	-.00054	-.00002	.00200	.00052	.00291
SDev	.00009	.00116	.00001	.00041	.00010	.00192	.00003
%RSD	17.571	3.6553	1.3583	2168.4	4.7914	366.40	1.0702
#1	.00042	.03259	-.00053	.00027	.00207	.00188	.00293
#2	.00054	.03095	-.00054	-.00031	.00193	-.00083	.00289
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00018	.00023	.00012	-.00011	.07204	.00363	.00027
SDev	.00000	.00001	.00040	.00011	.02907	.00146	.00001
%RSD	.35915	5.2152	329.85	98.896	40.358	40.244	2.4940
#1	-.00018	.00024	.00040	-.00003	.05148	.00260	.00026
#2	-.00018	.00022	-.00016	-.00018	.09259	.00467	.00027
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01500	.04000	.04000	.01000	5.0000	.01000	.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00050	.00071	.00058	.00157	-.00143	-.00384	-.00026
SDev	.00034	.00082	.00218	.00122	.00249	.00303	.00051
%RSD	68.090	114.94	375.78	77.993	173.93	78.720	194.08
#1	.00026	.00129	-.00096	.00243	-.00319	-.00598	.00010
#2	.00074	.00013	.00212	.00070	.00033	-.00170	-.00063
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.00000	.00000	.00000				
Range	.05000	.02000	.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.00260	-.00112	<.0000	.0000	.0124
SDev	.00115	.00029	.0007	.0000	.0030
%RSD	44.087	26.008	29.72	5.131	24.20
#1	.00179	-.00092	<.0000	.0000	.0145
#2	.00341	-.00133	<.0000	.0000	.0103
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value			.0000	.0000	.0000
Range			.2000	.0500	.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6751	--	--	--	--	--	--
SDev	21.26983	--	--	--	--	--	--
%RSD	.3150469	--	--	--	--	--	--
#1	6736	--	--	--	--	--	--
#2	6766	--	--	--	--	--	--

Analysis Report 12/26/01 06:40:49 PM page 1

Method: QTESTI Sample Name: CCVT Operator: JGA
Run Time: 12/26/01 18:35:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50834	.53081	.52348	24.785	.51786	1.9875	2.0794
SDev	.00329	.00292	.00153	.352	.00199	.0042	.0010
%RSD	.64704	.54950	.29274	1.4215	.38494	.21234	.04953
#1	.51067	.53287	.52240	25.034	.51645	1.9905	2.0802
#2	.50602	.52875	.52456	24.535	.51927	1.9845	2.0787
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	.55000	.55000	27.500	.55000	2.2000	2.2000
Low	.45000	.45000	.45000	22.500	.45000	1.8000	1.8000

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50154	100.27	2.0991	2.0709	1.9110	26.036	104.85
SDev	.00001	1.43	.0047	.0023	.0097	.185	1.13
%RSD	.00274	1.4266	.22609	.10899	.50505	.70916	1.0747
#1	.50155	101.28	2.0957	2.0693	1.9178	26.166	105.65
#2	.50153	99.261	2.1025	2.0725	1.9041	25.905	104.05
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	110.00	2.2000	2.2000	2.2000	27.500	110.00
Low	.45000	90.000	1.8000	1.8000	1.8000	22.500	90.000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0711	2.0634	2.0356	.95592	49.785	1.0246	2.0908
SDev	.0052	.0145	.0005	.01158	1.092	.0054	.0058
%RSD	.24994	.70045	.02599	1.2117	2.1936	.52778	.27800
#1	2.0675	2.0531	2.0352	.96411	50.557	1.0208	2.0949
#2	2.0748	2.0736	2.0359	.94773	49.013	1.0285	2.0866
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000		1.1000	2.2000
Low	1.8000	1.8000	1.8000	.90000		.90000	1.8000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	2.0536	2.1380	2.0271	.52579	.51885	.50848	.50827
SDev	.0094	.0023	.0027	.00446	.00434	.00999	.00006
%RSD	.45937	.10668	.13223	.84872	.83577	1.9646	.01101
#1	2.0603	2.1396	2.0252	.52263	.52192	.51554	.50823
#2	2.0469	2.1364	2.0290	.52894	.51579	.50141	.50831
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	2.2000	2.2000	2.2000				
Low	1.8000	1.8000	1.8000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.53264	.52990	2.039	2.066	2.068
SDev	.01033	.00079	.008	.004	.037
%RSD	1.9400	.14828	.3768	.1842	1.781
#1	.53994	.52934	2.045	2.069	2.094
#2	.52533	.53045	2.034	2.064	2.042
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			2.200	2.200	2.200
Low			1.800	1.800	1.800

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6695	--	--	--	--	--	--
SDev	55.60698	--	--	--	--	--	--
%RSD	.8306193	--	--	--	--	--	--
#1	6655	--	--	--	--	--	--
#2	6734	--	--	--	--	--	--

Analysis Report QC Standard 12/26/01 06:48:48 PM page 1

Method: QTESTI Sample Name: CCBT Operator: JGA
Run Time: 12/26/01 18:43:01
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00070	.00014	-.00030	-.13993	-.00092	.00001	.00191
SDev	.00176	.00121	.00030	.00925	.00133	.00021	.00002
%RSD	249.98	860.06	99.174	6.6074	145.02	2159.8	.88315
#1	-.00195	-.00072	-.00009	-.14646	.00002	.00016	.00193
#2	.00054	.00100	-.00052	-.13339	-.00186	-.00014	.00190
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	.00500	.06000	.20000	.01000	.02000	.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00008	.01457	-.00033	.00027	.00162	.00174	.00960
SDev	.00012	.00084	.00014	.00000	.00048	.00407	.00239
%RSD	162.42	5.7758	43.537	.06297	29.391	234.38	24.853
#1	.00016	.01516	-.00023	.00027	.00196	.00462	.01129
#2	-.00001	.01397	-.00043	.00027	.00128	-.00114	.00791
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00018	.00211	-.00043	.00004	-.07429	.00133	.00026
SDev	.00000	.00089	.00040	.00010	.07453	.00192	.00001
%RSD	.27670	42.178	93.555	233.35	100.32	144.58	2.0077
#1	-.00018	.00274	-.00014	-.00003	-.02159	.00269	.00025
#2	-.00018	.00148	-.00071	.00012	-.12699	-.00003	.00026
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01500	.04000	.04000	.01000	5.0000	.01000	.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00026	-.00042	.00202	-.00009	-.00073	-.00217	.00003
SDev	.00000	.00000	.00427	.00076	.00061	.00278	.00125
%RSD	.77466	.28524	211.11	863.62	83.604	128.42	4586.6
#1	.00026	-.00042	.00505	.00045	-.00117	-.00414	-.00085
#2	.00026	-.00042	-.00100	-.00062	-.00030	-.00020	.00091
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.00000	.00000	.00000				
Range	.05000	.02000	.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.00243	-.00100	<.0000	.0001	.0104
SDev	.00327	.00018	.0007	.0001	.0011
%RSD	134.63	18.400	52.03	125.1	10.29
#1	.00012	-.00113	<.0000	.0002	.0111
#2	.00474	-.00087	<.0000	.0000	.0096
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value			.0000	.0000	.0000
Range			.2000	.0500	.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6709	--	--	--	--	--	--
SDev	16.06562	--	--	--	--	--	--
%RSD	.2394623	--	--	--	--	--	--
#1	6698	--	--	--	--	--	--
#2	6720	--	--	--	--	--	--

Analysis Report 12/26/01 06:54:38 PM page 1

Method: QTESTI Sample Name: EQ01WD Operator: JGA
Run Time: 12/26/01 18:48:52
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.45672	1.9855	.41349	1.6383	1.9173	1.9471	.05326
SDev	.00445	.0104	.00640	.0112	.0031	.0020	.00005
%RSD	.97496	.52384	1.5477	.68590	.16000	.10025	.10203
#1	.45357	1.9782	.40897	1.6303	1.9151	1.9458	.05330
#2	.45987	1.9929	.41802	1.6462	1.9194	1.9485	.05322
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04825	.20217	.20810	.49073	.23177	.98942	.03100
SDev	.00004	.01244	.00047	.00120	.00191	.00069	.00351
%RSD	.08161	6.1511	.22644	.24396	.82376	.06981	11.329
#1	.04828	.19338	.20776	.48988	.23312	.98990	.03348
#2	.04822	.21097	.20843	.49157	.23042	.98893	.02851
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51895	.97596	.48597	.04721	.39735	1.7843	.00627
SDev	.00182	.00093	.00049	.00018	.06680	.0075	.00001
%RSD	.35100	.09559	.10159	.38108	16.812	.41842	.16311
#1	.51766	.97530	.48632	.04734	.44459	1.7790	.00627
#2	.52023	.97662	.48563	.04708	.35012	1.7896	.00626
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.50162	.50581	.03252	.41399	.41251	.46675	.45171
SDev	.00075	.00030	.00005	.00738	.00443	.00121	.00728
%RSD	.15015	.05924	.14896	1.7832	1.0743	.25897	1.6115
#1	.50109	.50560	.03255	.40877	.40937	.46760	.44657
#2	.50215	.50602	.03248	.41921	.41564	.46589	.45686
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	1.9623	1.9971	.0028	.0004	.0952
SDev	.0024	.0168	.0000	.0001	.0001
%RSD	.12341	.84133	.5067	27.85	.0568
#1	1.9640	1.9853	.0028	.0005	.0952
#2	1.9606	2.0090	.0028	.0004	.0951
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6682	--	--	--	--	--	--
SDev	17.64936	--	--	--	--	--	--
%RSD	.2641313	--	--	--	--	--	--
#1	6670	--	--	--	--	--	--
#2	6695	--	--	--	--	--	--

Method: QTESTI Sample Name: EQ012 Operator: JGA
Run Time: 12/26/01 18:56:49
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00082	.01361	.00594	-.09958	.00187	.00030	.00184
SDev	.00056	.00091	.00041	.00479	.00044	.00021	.00001
%RSD	67.749	6.6872	6.9253	4.8081	23.790	69.080	.73259
#1	-.00121	.01425	.00623	-.10297	.00155	.00045	.00185
#2	-.00043	.01296	.00565	-.09620	.00218	.00015	.00183
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00022	.14625	.00075	.00025	.00415	.01228	.02075
SDev	.00003	.00094	.00034	.00000	.00006	.01023	.00236
%RSD	15.365	.64094	46.250	.08305	1.5263	83.359	11.353
#1	.00020	.14691	.00099	.00025	.00419	.01952	.02241
#2	.00025	.14558	.00050	.00025	.00410	.00504	.01908
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00033	-.00347	-.00016	.00015	.01880	-.00443	.00748
SDev	.00014	.00000	.00000	.00005	.10561	.00333	.00001
%RSD	43.372	.02982	1.8365	36.195	561.83	75.161	.13190
#1	.00023	-.00347	-.00016	.00018	.09347	-.00678	.00749
#2	.00043	-.00347	-.00017	.00011	-.05588	-.00207	.00748
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00025	.00528	.03527	.00788	.00204	-.00049	-.00098
SDev	.00000	.00001	.00422	.00047	.00218	.00019	.00093
%RSD	.25500	.24057	11.962	5.9892	106.73	39.149	94.412
#1	.00025	.00529	.03228	.00755	.00358	-.00036	-.00164
#2	.00025	.00527	.03825	.00822	.00050	-.00063	-.00033
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.02666	.00709	<.0000	.0003	.0665
SDev	.00106	.00189	.0000	.0001	.0006
%RSD	3.9882	26.724	.0000	45.69	.9381
#1	.02591	.00843	<.0000	.0004	.0669
#2	.02741	.00575	<.0000	.0002	.0660
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6778	--	--	--	--	--	--
SDev	13.15226	--	--	--	--	--	--
%RSD	.1940416	--	--	--	--	--	--
#1	6769	--	--	--	--	--	--
#2	6787	--	--	--	--	--	--

Analysis Report 12/26/01 07:10:34 PM page 1

Method: QTESTI Sample Name: EQ015 Operator: JGA
Run Time: 12/26/01 19:04:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00124	.01930	.00573	-.11271	.00189	.00074	.00192
SDev	.00037	.00004	.00177	.00658	.00169	.00000	.00003
%RSD	29.490	.21002	30.953	5.8367	89.490	.43865	1.3628
#1	.00098	.01933	.00447	-.11736	.00069	.00075	.00193
#2	.00150	.01928	.00698	-.10806	.00309	.00074	.00190
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00064	.20011	.00049	-.00004	.00435	.01791	.02924
SDev	.00006	.01182	.00008	.00041	.00032	.00627	.00015
%RSD	9.4351	5.9062	16.402	1077.7	7.4181	34.990	.52345
#1	.00069	.19175	.00055	-.00033	.00458	.01348	.02934
#2	.00060	.20846	.00044	.00025	.00412	.02234	.02913
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00085	-.00532	-.00071	.00030	.28163	L-.01418	.00668
SDev	.00001	.00087	.00000	.00006	.09797	.00007	.00002
%RSD	.53722	16.323	.60408	18.395	34.788	.47108	.23740
#1	.00085	-.00471	-.00070	.00034	.35090	L-.01423	.00669
#2	.00084	-.00594	-.00071	.00026	.21235	L-.01413	.00667
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	-.00023	.00651	.03854	.00827	.00064	.00162	.00105
SDev	.00000	.00003	.00009	.00275	.00018	.00056	.00083
%RSD	.48866	.49914	.23393	33.238	27.744	34.578	78.663
#1	-.00023	.00653	.03860	.00632	.00077	.00201	.00047
#2	-.00023	.00649	.03847	.01021	.00052	.00122	.00164
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.03136	.01328	<.0000	.0004	.0690
SDev	.00081	.00034	.0007	.0001	.0016
%RSD	2.5828	2.5864	21.18	28.03	2.367
#1	.03193	.01304	<.0000	.0005	.0701
#2	.03079	.01353	<.0000	.0004	.0678
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6708	--	--	--	--	--	--
SDev	24.83367	--	--	--	--	--	--
%RSD	.3702275	--	--	--	--	--	--
#1	6690	--	--	--	--	--	--
#2	6725	--	--	--	--	--	--

Analysis Report 12/26/01 07:16:24 PM page 1

Method: QTESTI Sample Name: EQ017 Operator: JGA
Run Time: 12/26/01 19:10:38
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00158	.01862	.00733	-.10556	.00591	.00045	.00189
SDev	.00134	.00283	.00048	.01697	.00237	.00000	.00005
%RSD	84.664	15.184	6.5773	16.073	40.157	.85647	2.4293
#1	.00064	.01662	.00699	-.11755	.00758	.00045	.00192
#2	.00253	.02062	.00767	-.09356	.00423	.00045	.00186
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00082	.18838	.00048	-.00033	.00451	.02683	.02501
SDev	.00023	.00344	.00018	.00000	.00042	.00615	.00369
%RSD	28.564	1.8270	38.058	1.2551	9.2517	22.912	14.750
#1	.00099	.19082	.00035	-.00033	.00481	.03117	.02762
#2	.00066	.18595	.00061	-.00032	.00422	.02248	.02240
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00023	-.00470	-.00099	.00001	.45168	L-.01875	.00624
SDev	.00000	.00001	.00040	.00047	.15963	.00140	.00003
%RSD	1.7430	.15897	40.421	7160.5	35.343	7.4641	.40352
#1	.00023	-.00471	-.00071	.00034	.56456	L-.01974	.00626
#2	.00023	-.00469	-.00127	-.00033	.33880	L-.01776	.00622
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	-.00023	.00705	.03846	.00968	.00262	.00171	.00152
SDev	.00000	.00006	.00445	.00129	.00113	.00082	.00160
%RSD	.08188	.81150	11.563	13.314	43.197	48.226	105.06
#1	-.00023	.00709	.04160	.00877	.00343	.00112	.00039
#2	-.00023	.00701	.03531	.01059	.00182	.00229	.00265
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.02664	.01462	<.0000	.0005	.0623
SDev	.00108	.00370	.0007	.0000	.0042
%RSD	4.0632	25.299	21.27	.8555	6.805
#1	.02587	.01201	<.0000	.0005	.0653
#2	.02740	.01724	<.0000	.0005	.0593
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6733	--	--	--	--	--	--
SDev	44.12339	--	--	--	--	--	--
%RSD	.6553187	--	--	--	--	--	--
#1	6702	--	--	--	--	--	--
#2	6764	--	--	--	--	--	--

Analysis Report 12/26/01 07:22:15 PM page 1

Method: QTESTI Sample Name: EQ019 Operator: JGA
Run Time: 12/26/01 19:16:28
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00018	.01103	.00263	-.10385	.00346	.00044	.00186
SDev	.00003	.00172	.00065	.00478	.00090	.00000	.00009
%RSD	16.289	15.582	24.883	4.5983	25.908	.12391	4.9090
#1	-.00016	.01225	.00217	-.10723	.00282	.00044	.00192
#2	-.00020	.00982	.00310	-.10048	.00409	.00044	.00179
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00019	.18070	-.00004	-.00003	.00417	.01106	.02699
SDev	.00026	.00049	.00020	.00041	.00037	.00810	.00001
%RSD	138.97	.27030	481.86	1255.4	8.7690	73.219	.04509
#1	.00038	.18035	-.00019	-.00032	.00443	.00533	.02698
#2	.00000	.18104	.00010	.00025	.00391	.01678	.02700
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00183	-.00408	-.00073	.00050	-.14294	-.00371	.00681
SDev	.00000	.00086	.00078	.00005	.00949	.00046	.00029
%RSD	.11408	21.106	107.02	9.9931	6.6397	12.270	4.3038
#1	.00183	-.00347	-.00128	.00054	-.14966	-.00403	.00702
#2	.00183	-.00468	-.00018	.00047	-.13623	-.00339	.00661
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00025	.00919	.02614	.00431	-.00072	-.00148	.00047
SDev	.00000	.00001	.00001	.00014	.00169	.00192	.00092
%RSD	.27841	.07749	.04374	3.2542	233.13	130.20	195.42
#1	.00025	.00919	.02613	.00421	-.00192	-.00012	-.00018
#2	.00025	.00920	.02615	.00441	.00047	-.00284	.00112
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.02390	.00461	<.0000	.0004	.0615
SDev	.00026	.00271	.0000	.0001	.0022
%RSD	1.0766	58.673	.0162	27.60	3.641
#1	.02371	.00653	<.0000	.0005	.0631
#2	.02408	.00270	<.0000	.0004	.0599
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6833	--	--	--	--	--	--
SDev	6.448897	--	--	--	--	--	--
%RSD	.0943787	--	--	--	--	--	--
#1	6838	--	--	--	--	--	--
#2	6828	--	--	--	--	--	--

Analysis Report 12/26/01 07:30:13 PM page 1

Method: QTESTI Sample Name: EQ02C Operator: JGA
Run Time: 12/26/01 19:24:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00069	.01637	.00451	-.09806	.00595	.00045	.00181
SDev	.00021	.00071	.00034	.00650	.00024	.00000	.00012
%RSD	31.158	4.3521	7.4499	6.6321	4.0642	.38525	6.5872
#1	.00084	.01587	.00427	-.10266	.00578	.00045	.00190
#2	.00054	.01688	.00475	-.09346	.00612	.00045	.00173
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00009	.14919	.00053	-.00004	.00392	.01509	.02335
SDev	.00008	.00143	.00015	.00041	.00030	.01032	.00104
%RSD	85.914	.96010	27.726	1048.5	7.5282	68.405	4.4377
#1	.00015	.15020	.00063	-.00033	.00413	.02239	.02261
#2	.00004	.14817	.00042	.00025	.00371	.00779	.02408
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	-.00470	-.00127	.00331	.19691	L-.01045	.00773
SDev	.00015	.00174	.00079	.00004	.04181	.00226	.00032
%RSD	113.81	37.097	62.278	1.2187	21.234	21.670	4.1055
#1	.00023	-.00347	-.00071	.00328	.22648	L-.01205	.00795
#2	.00002	-.00593	-.00183	.00334	.16734	-.00885	.00751
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00025	.00705	.04146	.00661	.00030	-.00027	.00116
SDev	.00000	.00002	.00008	.00052	.00002	.00050	.00057
%RSD	1.1947	.31690	.19348	7.8012	8.0692	184.15	49.020
#1	.00025	.00707	.04152	.00625	.00032	-.00063	.00157
#2	.00025	.00704	.04140	.00698	.00028	.00008	.00076
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.02645	.01134	<.0000	.0003	.0651
SDev	.00187	.00013	.0000	.0001	.0014
%RSD	7.0739	1.1827	.0919	45.67	2.089
#1	.02513	.01125	<.0000	.0004	.0660
#2	.02777	.01144	<.0000	.0002	.0641
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6737	--	--	--	--	--	--
SDev	19.85527	--	--	--	--	--	--
%RSD	.2947162	--	--	--	--	--	--
#1	6723	--	--	--	--	--	--
#2	6751	--	--	--	--	--	--

Analysis Report 12/26/01 07:36:03 PM

Method: QTESTI Sample Name: EQ02E Operator: JGA
Run Time: 12/26/01 19:30:16
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00132	.01949	.00630	-.10305	.00252	.00045	.00186
SDev	.00099	.00103	.00171	.00475	.00242	.00000	.00002
%RSD	75.107	5.2612	27.117	4.6110	96.145	.43508	1.2481
#1	.00062	.02022	.00509	-.10641	.00081	.00045	.00187
#2	.00202	.01877	.00750	-.09969	.00424	.00044	.00184
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00031	.13753	.00075	-.00004	.00408	.01370	.02157
SDev	.00005	.01211	.00021	.00041	.00009	.00012	.00125
%RSD	15.838	8.8083	28.591	1121.4	2.2726	.85493	5.7969
#1	.00028	.12896	.00090	.00025	.00401	.01362	.02246
#2	.00034	.14610	.00060	-.00033	.00414	.01379	.02069
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00023	-.00593	-.00099	.00344	.13731	L-.01352	.00750
SDev	.00000	.00001	.00040	.00004	.02329	.00085	.00002
%RSD	.89105	.13814	39.804	1.1129	16.960	6.3009	.22611
#1	.00023	-.00593	-.00071	.00341	.15377	L-.01292	.00751
#2	.00023	-.00592	-.00127	.00346	.12084	L-.01412	.00748
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00025	.00358	.04285	.00881	.00126	.00055	.00170
SDev	.00000	.00002	.00631	.00218	.00076	.00216	.00041
%RSD	.64293	.49874	14.719	24.735	60.411	393.29	23.913
#1	.00025	.00359	.03839	.00727	.00072	-.00098	.00142
#2	.00025	.00356	.04731	.01035	.00180	.00208	.00199
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.02759	.01545	<.0000	.0003	.0592
SDev	.00238	.00035	.0000	.0001	.0002
%RSD	8.6277	2.2583	.1262	45.84	.3111
#1	.02928	.01569	<.0000	.0004	.0594
#2	.02591	.01520	<.0000	.0002	.0591
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6764	--	--	--	--	--	--
SDev	22.48586	--	--	--	--	--	--
%RSD	.3324215	--	--	--	--	--	--
#1	6748	--	--	--	--	--	--
#2	6780	--	--	--	--	--	--

Analysis Report 12/26/01 07:41:53 PM page 1

Method: QTESTI Sample Name: EQWLX 2X Operator: JGA
Run Time: 12/26/01 19:36:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02813	.00210	.00165	100.25	.02002	7.3696	.00512
SDev	.00132	.00005	.00005	1.81	.00333	.0131	.00009
%RSD	4.7058	2.5622	2.9900	1.8061	16.657	.17820	1.7191
#1	.02907	.00213	.00161	101.53	.01766	7.3604	.00519
#2	.02720	.00206	.00168	98.969	.02237	7.3789	.00506
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00056	36.646	.13726	.05644	.13408	148.56	40.203
SDev	.00001	.124	.00047	.00111	.00219	.21	.268
%RSD	1.9582	.33807	.33994	1.9673	1.6327	.14013	.66650
#1	.00055	36.734	.13759	.05723	.13563	148.71	40.392
#2	.00057	36.559	.13693	.05566	.13254	148.42	40.013
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.3995	.00347	.09721	-.00089	5.1336	.00694	10.221
SDev	.0139	.00083	.00008	.00037	.3240	.00047	.011
%RSD	.58041	23.874	.08089	41.920	6.3106	6.7736	.10437
#1	2.3897	.00406	.09727	-.00062	5.3626	.00661	10.229
#2	2.4094	.00289	.09715	-.00115	4.9045	.00728	10.214
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.30184	.34417	.00831	.00235	.00024	.01912	.03264
SDev	.00126	.00059	.00001	.00065	.00115	.00180	.00108
%RSD	.41706	.17187	.11498	27.618	472.09	9.4381	3.3218
#1	.30273	.34375	.00830	.00189	.00106	.02039	.03340
#2	.30095	.34459	.00831	.00281	-.00057	.01784	.03187
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.00003	.00313	.0112	.4907	1.493
SDev	.00165	.00090	.0001	.0009	.016
%RSD	5389.7	28.897	.9978	.1946	1.068
#1	-.00114	.00377	.0113	.4900	1.505
#2	.00120	.00249	.0111	.4913	1.482
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6700	--	--	--	--	--	--
SDev	57.50214	--	--	--	--	--	--
%RSD	.8582077	--	--	--	--	--	--
#1	6660	--	--	--	--	--	--
#2	6741	--	--	--	--	--	--

Analysis Report 12/26/01 07:49:51 PM

Method: QTESTI Sample Name: CCVT Operator: JGA
Run Time: 12/26/01 19:44:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50813	.52921	.52072	24.946	.51865	1.9878	2.0637
SDev	.00365	.00041	.00027	.308	.00080	.0074	.0057
%RSD	.71793	.07679	.05162	1.2329	.15353	.37351	.27712
#1	.51071	.52893	.52053	25.163	.51808	1.9930	2.0596
#2	.50555	.52950	.52091	24.728	.51921	1.9825	2.0677
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	.55000	.55000	27.500	.55000	2.2000	2.2000
Low	.45000	.45000	.45000	22.500	.45000	1.8000	1.8000

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49901	99.967	2.0833	2.0578	1.9174	25.868	104.71
SDev	.00001	.202	.0004	.0001	.0231	.076	1.07
%RSD	.00122	.20214	.02038	.00678	1.2046	.29202	1.0199
#1	.49901	100.11	2.0836	2.0577	1.9337	25.921	105.46
#2	.49900	99.824	2.0830	2.0579	1.9011	25.814	103.95
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	110.00	2.2000	2.2000	2.2000	27.500	110.00
Low	.45000	90.000	1.8000	1.8000	1.8000	22.500	90.000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0565	2.0533	2.0235	.95670	50.471	1.0185	2.0874
SDev	.0013	.0087	.0025	.00574	.560	.0018	.0042
%RSD	.06305	.42391	.12449	.60044	1.1091	.18028	.20045
#1	2.0556	2.0472	2.0253	.96077	50.867	1.0172	2.0903
#2	2.0574	2.0595	2.0218	.95264	50.075	1.0198	2.0844
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000		1.1000	2.2000
Low	1.8000	1.8000	1.8000	.90000		.90000	1.8000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	2.0449	2.1291	2.0310	.52020	.52177	.51107	.50666
SDev	.0011	.0032	.0053	.00037	.00154	.00607	.00244
%RSD	.05364	.15052	.26210	.07054	.29556	1.1886	.48088
#1	2.0457	2.1314	2.0348	.52046	.52068	.51537	.50838
#2	2.0441	2.1269	2.0272	.51994	.52286	.50678	.50494
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	2.2000	2.2000	2.2000				
Low	1.8000	1.8000	1.8000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.52746	.53009	2.039	2.063	2.070
SDev	.00103	.00112	.004	.007	.029
%RSD	.19547	.21204	.1979	.3379	1.397
#1	.52819	.52930	2.042	2.068	2.090
#2	.52673	.53089	2.037	2.058	2.050
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			2.200	2.200	2.200
Low			1.800	1.800	1.800

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6657	--	--	--	--	--	--
SDev	31.87608	--	--	--	--	--	--
%RSD	.4788658	--	--	--	--	--	--
#1	6634	--	--	--	--	--	--
#2	6679	--	--	--	--	--	--

Analysis Report QC Standard 12/26/01 07:57:50 PM page 1

Method: QTESTI Sample Name: CCBT Operator: JGA
Run Time: 12/26/01 19:52:03
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00149	-.00022	.00027	-.12553	-.00111	.00001	.00173
SDev	.00046	.00110	.00075	.01084	.00054	.00020	.00003
%RSD	30.648	496.51	276.37	8.6354	48.481	3402.1	1.9783
#1	-.00116	-.00100	-.00026	-.13320	-.00073	.00015	.00175
#2	-.00181	.00056	.00080	-.11787	-.00149	-.00014	.00170
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	.00500	.06000	.20000	.01000	.02000	.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00025	.02418	-.00044	-.00001	.00082	.00271	.00913
SDev	.00016	.00180	.00008	.00040	.00014	.00383	.00465
%RSD	63.358	7.4310	17.762	2995.4	17.609	141.23	50.926
#1	.00037	.02545	-.00039	.00027	.00092	.00542	.01242
#2	.00014	.02291	-.00050	-.00030	.00072	.00000	.00584
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00008	.00016	-.00128	-.00033	-.09897	.00361	.00073
SDev	.00014	.00172	.00077	.00030	.08312	.00181	.00001
%RSD	172.23	1110.3	60.411	90.998	83.990	50.084	1.1376
#1	.00002	.00137	-.00073	-.00055	-.04019	.00233	.00072
#2	-.00018	-.00106	-.00183	-.00012	-.15774	.00489	.00074
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01500	.04000	.04000	.01000	5.0000	.01000	.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00001	-.00075	.00087	.00060	-.00039	-.00410	-.00018
SDev	.00034	.00040	.00203	.00175	.00125	.00198	.00031
%RSD	2942.6	53.789	233.40	291.60	323.85	48.238	172.41
#1	.00025	-.00046	.00230	-.00064	.00050	-.00270	-.00039
#2	-.00023	-.00103	-.00057	.00184	-.00127	-.00550	.00004
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.00000	.00000	.00000				
Range	.05000	.02000	.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.00334	-.00200	<.0000	.0000	.0033
SDev	.00013	.00171	.0007	.0000	.0026
%RSD	3.9391	85.820	49.82	11.94	77.87
#1	.00343	-.00321	<.0000	.0000	.0051
#2	.00324	-.00079	<.0000	.0000	.0015
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value			.0000	.0000	.0000
Range			.2000	.0500	.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6893	--	--	--	--	--	--
SDev	34.30883	--	--	--	--	--	--
%RSD	.4977128	--	--	--	--	--	--
#1	6869	--	--	--	--	--	--
#2	6918	--	--	--	--	--	--

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Classical Chemistry
Extended Raw Data

Lot ID: E1L200353

I certify that, to the best of my knowledge, the attached package is a complete and accurate representation of the original data.

Signature / Date: 01/09/02

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Classical Chemistry Preparation Notes

(Extraction/Digestion if Method Required)

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Initial Calibration

(For all Inorganic Tests the Initial Calibrations are included in the Sample Raw Data section of this package)

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Classical Chemistry
Sample Raw Data

STL Los Angeles
pH Worksheet

Method: 150.1/9040B ___ 9045C ✓
Instr ID: W07
Serial No: C0024955
Location: Extraction Lab.

Analysis Date: 12/21/01
Analyst Int: h
Reviewer/Date: _____

Instrument Maintenance Checks:

Daily:
✓ *Check proper level of filling solution*
✓ *Store electrode in buffer*

As Needed:
✓ *Clean electrode*
✓ *Add filling solutions to electrode*

QC Criteria:

- *LCS reads ± 0.1 unit of true value*
- *SA/DU for aqueous samples differ by ± 0.1 unit*
- *SA/DU for solid samples differ by ± 0.5 unit*

Calibration Curve

Stock Source ID#	Stock Conc.	Instrument Reading	Temp Reading	Comments	Start time:
VWR 0196	4	4.01	22.5		10:00
VWR 1199	7	7.01	22.7		10:02
VWR 0277	10	10.02	22.4		10:04
VWR 0007020	9.18 ICV/LCS	9.18	23.1		10:06

Sample ID	Matrix A – S	Solid Samples		Instrument Reading		Comments	Start time:
		Wt (g)	mL (DI)	pH	Temp ©		
ICV/LCS							
EQWLH	S	25	25	7.15	22.5	EIL200353-1	10:08
EQWLHX	S	↓	↓	7.17	22.6	-1	10:10
EQWLW	S	↓	↓	8.44	22.9	-2	10:12
EQWLX	S	↓	↓	8.49	22.3	-3	10:14
EQWLO	S	↓	↓	8.16	22.1	-4	10:16
EQWL2	S	↓	↓	8.05	22.6	-5	10:18
EQWL4	S	↓	↓	7.69	22.7	-6	10:20
EQWL6	S	↓	↓	8.12	22.9	-7	10:22
EQWL7	S	↓	↓	7.91	22.5	-8	10:24
EQWL8	S	↓	↓	8.29	22.6	-9	10:26
pH7	A			7.02	22.3		10:28
EQWL9	S	25	25	8.52	22.6	EIL200353-10	10:30
EQWMA	S	↓	↓	7.72	22.9	-11	10:32
EQWMC	S	↓	↓	7.85	22.2	-12	10:34
pH7	A			7.01	22.5		10:36
				12/21/01			
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version 10/13/00

SEVERN
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END OF RAW DATA