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File: 541.460.000n  
C.H.



# THE MEMPHIS DEPOT TENNESSEE

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## ADMINISTRATIVE RECORD COVER SHEET

AR File Number 674

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SEVERN

TRENT

SERVICES

STL Pittsburgh  
450 William Pitt Way  
Pittsburgh, PA 15238-1330

Tel: 412 820 8380

Fax: 412 820 2080

www.stl-inc.com

## ANALYTICAL REPORT

PROJECT NO. UXB 7512-060

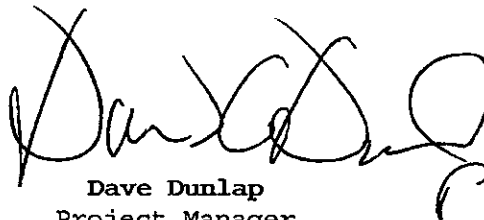
Dunn Field, Def Depot Memphis

Lot #: C0J310200

Frank Johnson

UXB International

SEVERN TRENT LABORATORIES, INC.



Dave Dunlap  
Project Manager

November 22, 2000

STL Pittsburgh is a part of Severn Trent Laboratories, Inc

**CASE NARRATIVE**  
**UXB International Inc.**  
**Dunn Field**

**LOT # C0J310200**

**Sample Receiving:**

STL Pittsburgh received a sample on October 31, 2000 in good condition and within the proper temperature range.

**Volatiles:**

There were no problems associated with the analysis.

**Semivolatiles:**

There were no problems associated with the analysis.

**Pesticides:**

For the continuing calibration standards analyzed on the DB608 column on November 7, 2000 at 09:46 and 10:14, endrin, 4,4'-DDD, 4,4'-DDT, methoxychlor, delta-BHC, and endosulfan sulfate had %D's that were outside of the +/-15%D criteria (+21.6%, +17.2%, +18.6%, +35%, +15.7%, and +19.9%, respectively). The average %D of all compounds in the continuing calibration standards was 9.6%. These compounds were not detected in the samples. All results were reported.

For the continuing calibration standards analyzed on the DB608 column on November 7, 2000 at 14:25 and 14:53, endrin, 4,4'-DDD, 4,4'-DDT, methoxychlor, delta-BHC, and endosulfan sulfate had %D's that were outside of the +/-15%D criteria (+25.4%, +20.3%, +22.6%, +39.5%, +16%, and +24.4%, respectively). The average %D of all compounds in the continuing calibration standards was 11.9%. These compounds were not detected in the samples. All results were reported.

**Metals:**

There were no problems associated with the analysis.

**TCLP Metals:**

There were no problems associated with the analysis.

**General Chemistry:**

The reactive cyanide and reactive sulfide analyses were performed at STL North Canton. All data is provided in the data package.

# METHODS SUMMARY

COJ310200

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| PARAMETER                                     | ANALYTICAL<br>METHOD | PREPARATION<br>METHOD |
|-----------------------------------------------|----------------------|-----------------------|
| Chlorinated Herbicides by GC                  | SW846 8151A          | SW846 1311/8150       |
| Ignitability                                  | SW846 SECTION 7      | SW846 SECTION 7       |
| Inductively Coupled Plasma (ICP) Metals       | SW846 6010B          | SW846 1311/3010       |
| Mercury in Liquid Waste (Manual Cold-Vapor)   | SW846 7470A          | SW846 1311/7470       |
| Organochlorine Pesticides                     | SW846 8081A          | SW846 1311/3510       |
| Reactive Cyanide                              | SW846 7.3.3          | SW846 7.3.3           |
| Reactive Sulfide                              | SW846 7.3.4          | SW846 7.3.4           |
| Semivolatile Organic Compounds by GC/MS       | SW846 8270C          | SW846 1311/3520       |
| Soil and Waste pH                             | SW846 9045C          | SW846 9045C           |
| Total Residue as Percent Solids               | MCAWW 160.3 MOD      | MCAWW 160.3 MOD       |
| Trace Inductively Coupled Plasma (ICP) Metals | SW846 6010B          | SW846 3050B           |
| Volatile Organics by GC/MS                    | SW846 8260B          | SW846 1311/5030       |

## References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",  
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical  
Methods", Third Edition, November 1986 and its updates.



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## SAMPLE SUMMARY

C0J310200

| WO #  | SAMPLE# | CLIENT SAMPLE ID     | DATE     | TIME  |
|-------|---------|----------------------|----------|-------|
| DN4P6 | 001     | DF/24-A/0304/CVS/008 | 10/30/00 | 08:23 |
| DN4QJ | 002     | DF/24-A/0304/CVS/010 | 10/30/00 | 08:46 |
| DN4QK | 003     | DF/24-A/0304/CVS/012 | 10/30/00 | 08:30 |

NOTE(S) :

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

## Chain of Custody Record

LA-4124

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|                             |                                                           |                                  |             |
|-----------------------------|-----------------------------------------------------------|----------------------------------|-------------|
| Client<br>HXB International | Project Manager<br>Frank Johnson                          | Chain Of Custody Number<br>67157 |             |
| Address<br>1708 Dunn Ave    | Telephone Number (Area Code)/Fax Number<br>(901) 745-4999 | Date<br>10/30/00                 |             |
| City<br>Memphis             | Site Contact<br>Chris Rose                                | Lab Number                       | Page 1 of 1 |
| State<br>TN                 | Zip Code<br>38114                                         | Analysis                         |             |
| Project Name<br>Dunn Field  | Carrier/Waybill Number                                    |                                  |             |

[illegible]

### Special Instructions

| Possible Hazard Identification                                              |                                                                                      |                                        |                                   | Sample Disposal                  |                                                                                              |                                                                                       |                                                   |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------|----------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------|
| Turn Around Time Required                                                   | Non-Hazard                                                                           | Flammable                              | Skin Irritant                     | Poison B                         | Unknown                                                                                      | OC Level                                                                              | Project Specific (Specify)                        |
| <input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Rush | <input checked="" type="checkbox"/> Non-Hazard<br><input type="checkbox"/> Flammable | <input type="checkbox"/> Skin Irritant | <input type="checkbox"/> Poison B | <input type="checkbox"/> Unknown | <input type="checkbox"/> I.<br><input type="checkbox"/> II.<br><input type="checkbox"/> III. | <input type="checkbox"/> Return To Client<br><input type="checkbox"/> Disposal By Lab | <input type="checkbox"/> Archive For _____ Months |
| 1. Relinquished By                                                          | Date                                                                                 |                                        |                                   | Time                             |                                                                                              | Date                                                                                  |                                                   |
| 2. Relinquished By                                                          | Date                                                                                 |                                        |                                   | Time                             |                                                                                              | Date                                                                                  |                                                   |
| 3. Relinquished By                                                          | Date                                                                                 |                                        |                                   | Time                             |                                                                                              | Date                                                                                  |                                                   |

Comments

**DISTRIBUTION:** WHITE - Slays with Sample. CANARY - Returned to Client with Report: PINK - Field Copy

Client: CXIB Project: 10/31/00 Quote: 10/31/00  
Cooler Rec'd & Opened for Temp. Check on: 10/31/00 By: [Signature]  
Coolers Opened and Unpacked on: 10/31/00 (Signature)

STL Pittsburgh Lot Number: C0J310200

- |                                                                                    | Yes                                 | No                       |
|------------------------------------------------------------------------------------|-------------------------------------|--------------------------|
| 1. Were custody seals on the outside of the cooler? <u>1/1</u>                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| If YES, how many and where? Quantity <u>1</u> Location <u>1/1</u>                  |                                     |                          |
| Were signatures and date correct? <u>1/1</u>                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Were custody papers included inside the cooler? <u>1/1</u>                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Were custody papers properly filled out (ink, signed, match labels)? <u>1/1</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Did you sign the custody papers in the appropriate place? <u>1/1</u>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Was shippers packing slip attached to this form? <u>1/1</u>                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. Were packing materials used? <u>Bubble Pack</u>                                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| If YES, what type? <u>Bubble Pack</u>                                              |                                     |                          |
| 7. Were the samples chilled? (Record temperatures on reverse side.) <u>1/1</u>     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8. Were the samples appropriately preserved? <u>1/1</u>                            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 9. Were all bottles sealed in separate plastic bags? <u>1/1</u>                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10. Did all bottles arrive in good condition (unbroken)? <u>1/1</u>                | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 11. Were all bottle labels complete (sample ID, preservatives, etc.)? <u>1/1</u>   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 12. Did all bottle labels and/or tags agree with custody papers? <u>1/1</u>        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 13. Were correct bottles used for tests indicated? <u>1/1</u>                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 14. Were all VOA vials checked for the presence of air bubbles? <u>1/1</u>         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 15. Was a sufficient amount of sample sent in each bottle? <u>1/1</u>              | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 16. Samples received by: FEDEX UPS CLIENT DROP-OFF OTHER AIRBORNE                  |                                     |                          |

Explain any discrepancies: \_\_\_\_\_

Level 2 Review \_\_\_\_\_

Was contacted on \_\_\_\_\_ by \_\_\_\_\_ to resolve discrepancies.



# FedEx USA Airbill

Form 1000

0200

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**1 From**

Date 10/30/00

Sender's Name Chris Rose Phone 901-745-4999

Company WKB Inc.

Address 1708 Duane Ave

City Memphis State TN ZIP 38114

**2 Your Internal Billing Reference**

**3 To**

Recipient's Name Rusty Kucukcay Phone 412-820-2691

Company Severn Trent

Address 45C William Pitt Way

City Pittsburgh State PA ZIP 15238



**4a Express Package Service**

☒ FedEx Priority Overnight ☐ FedEx Standard Overnight ☐ FedEx First Overnight

☐ FedEx 2Day ☐ FedEx Express Saver

**4b Express Freight Service**

☐ FedEx 1Day Freight ☐ FedEx 2Day Freight ☐ FedEx 3Day Freight

**5 Packaging**

☐ FedEx Letter ☐ FedEx Pak ☒ Other Pkg

**6 Special Handling**

☐ Saturday Delivery ☐ Sunday Delivery ☐ HOLD Monday ☐ HOLD Saturday

**7 Payment Bill to**

☒ Sender ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

**8 Release Signature**

Total Packages 4 Total Weight 4 Total Declared Value \$ 1.00



Oct 30 00 05:45p

UXB International

801-745-4280

**p. 4**

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**SBCCOM**  
**Monitoring Branch Laboratory**

# CLEARANCE REPORT

30 OCT, 2000

Dunn Field, Memphis Defense Depot

### Results for CWM Soil Sample Analysis

Analyst: Shawn Heinlein

[illegible]

ND= Not detected at or above the method detection limit (MDL)  
MDL= 200 ppb

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb  
MS= matrix spike

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

N/A = Not analyzed

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## DATA SUMMARY PACKAGE

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## GC/MS VOLATILE SUMMARY



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## UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 10/31/00

Work Order: DN4P61AC

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/06/00

Moisture %: 16

QC Batch: 0311110

Client Sample Id: DF/24-A/0304/CVS/008

| CONCENTRATION UNITS: |                      |                      |   |
|----------------------|----------------------|----------------------|---|
| CAS NO.              | COMPOUND             | (ug/L or ug/kg) mg/L | Q |
| 71-43-2              | Benzene              | 0.050                | U |
| 78-93-3              | 2-Butanone           | 0.050                | U |
| 56-23-5              | Carbon tetrachloride | 0.050                | U |
| 108-90-7             | Chlorobenzene        | 0.050                | U |
| 67-66-3              | Chloroform           | 0.050                | U |
| 107-06-2             | 1,2-Dichloroethane   | 0.050                | U |
| 75-35-4              | 1,1-Dichloroethene   | 0.050                | U |
| 127-18-4             | Tetrachloroethene    | 0.050                | U |
| 79-01-6              | Trichloroethene      | 0.050                | U |
| 75-01-4              | Vinyl chloride       | 0.050                | U |

UXB INTERNATIONAL

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Lab Name: Severn Trent Laboratories, Inc

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 10/31/00

Work Order: DN4QJ1AC

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/06/00

Moisture %: 13

QC Batch: 0311110

Client Sample Id: DF/24-A/0304/CVS/010

| CAS NO.  | COMPOUND             | CONCENTRATION UNITS: |   |
|----------|----------------------|----------------------|---|
|          |                      | (ug/L or ug/kg) mg/L | Q |
| 71-43-2  | Benzene              | 0.050                | U |
| 78-93-3  | 2-Butanone           | 0.050                | U |
| 56-23-5  | Carbon tetrachloride | 0.050                | U |
| 108-90-7 | Chlorobenzene        | 0.050                | U |
| 67-66-3  | Chloroform           | 0.050                | U |
| 107-06-2 | 1,2-Dichloroethane   | 0.050                | U |
| 75-35-4  | 1,1-Dichloroethene   | 0.050                | U |
| 127-18-4 | Tetrachloroethene    | 0.050                | U |
| 79-01-6  | Trichloroethene      | 0.050                | U |
| 75-01-4  | Vinyl chloride       | 0.050                | U |

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UXB INTERNATIONAL  
MATRIX SPIKE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.      SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 10/31/00

Work Order: DN4QJ1AW

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/06/00

Moisture %: 13

QC Batch: 0311110

Client Sample Id: DF/24-A/0304/CVS/010

| CONCENTRATION UNITS: |                      |                      |   |
|----------------------|----------------------|----------------------|---|
| CAS NO.              | COMPOUND             | (ug/L or ug/kg) mg/L | Q |
| 71-43-2              | Benzene              | 0.446                |   |
| 78-93-3              | 2-Butanone           | 0.265                |   |
| 56-23-5              | Carbon tetrachloride | 0.508                |   |
| 108-90-7             | Chlorobenzene        | 0.468                |   |
| 67-66-3              | Chloroform           | 0.487                |   |
| 107-06-2             | 1,2-Dichloroethane   | 0.431                |   |
| 75-35-4              | 1,1-Dichloroethene   | 0.421                |   |
| 127-18-4             | Tetrachloroethene    | 0.463                |   |
| 79-01-6              | Trichloroethene      | 0.452                |   |
| 75-01-4              | Vinyl chloride       | 0.367                |   |

UXB INTERNATIONAL  
MATRIX SPIKE DUPLICATE COMPOUNDS

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Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 10/31/00

Work Order: DN4QJ1AX

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/06/00

Moisture %: 13

QC Batch: 0311110

Client Sample Id: DF/24-A/0304/CVS/010

| CAS NO.  | COMPOUND             | CONCENTRATION UNITS: |   |
|----------|----------------------|----------------------|---|
|          |                      | (ug/L or ug/kg) mg/L | Q |
| 71-43-2  | Benzene              | 0.448                |   |
| 78-93-3  | 2-Butanone           | 0.252                |   |
| 56-23-5  | Carbon tetrachloride | 0.506                |   |
| 108-90-7 | Chlorobenzene        | 0.478                |   |
| 67-66-3  | Chloroform           | 0.488                |   |
| 107-06-2 | 1,2-Dichloroethane   | 0.430                |   |
| 75-35-4  | 1,1-Dichloroethene   | 0.395                |   |
| 127-18-4 | Tetrachloroethene    | 0.470                |   |
| 79-01-6  | Trichloroethene      | 0.453                |   |
| 75-01-4  | Vinyl chloride       | 0.369                |   |

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## UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 10/31/00

Work Order: DN4QK1AC

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/06/00

Moisture %: 17

QC Batch: 0311110

Client Sample Id: DF/24-A/0304/CVS/012

| CAS NO.  | COMPOUND             | CONCENTRATION UNITS: |   |
|----------|----------------------|----------------------|---|
|          |                      | (ug/L or ug/kg) mg/L | Q |
| 71-43-2  | Benzene              | 0.050                | U |
| 78-93-3  | 2-Butanone           | 0.050                | U |
| 56-23-5  | Carbon tetrachloride | 0.050                | U |
| 108-90-7 | Chlorobenzene        | 0.050                | U |
| 67-66-3  | Chloroform           | 0.050                | U |
| 107-06-2 | 1,2-Dichloroethane   | 0.050                | U |
| 75-35-4  | 1,1-Dichloroethene   | 0.050                | U |
| 127-18-4 | Tetrachloroethene    | 0.050                | U |
| 79-01-6  | Trichloroethene      | 0.050                | U |
| 75-01-4  | Vinyl chloride       | 0.050                | U |

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UXB INTERNATIONAL  
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.      SDG Number:

Matrix: (soil/water) SOLID      Lab Sample ID: COK060000 110

Method: SW846 8260B  
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL      Date Received: 10/31/00

Work Order: DPD6Q1AA      Date Extracted: 11/06/00

Dilution factor: 1      Date Analyzed: 11/06/00

Moisture %: NA

QC Batch: 0311110

Client Sample Id: CHECK SAMPLE

| CAS NO.  | COMPOUND             | CONCENTRATION UNITS: |   |
|----------|----------------------|----------------------|---|
|          |                      | (ug/L or ug/kg) mg/L | Q |
| 71-43-2  | Benzene              | 0.438                |   |
| 78-93-3  | 2-Butanone           | 0.254                |   |
| 56-23-5  | Carbon tetrachloride | 0.505                |   |
| 108-90-7 | Chlorobenzene        | 0.460                |   |
| 67-66-3  | Chloroform           | 0.477                |   |
| 107-06-2 | 1,2-Dichloroethane   | 0.421                |   |
| 75-35-4  | 1,1-Dichloroethene   | 0.390                |   |
| 127-18-4 | Tetrachloroethene    | 0.454                |   |
| 79-01-6  | Trichloroethene      | 0.445                |   |
| 75-01-4  | Vinyl chloride       | 0.339                |   |

## SW846 8260B SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0J310200

|    | CLIENT ID.             | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|------------------------|-------|-------|-------|-------|---------|
|    | =====                  | ===== | ===== | ===== | ===== | =====   |
| 01 | DF/24-A/0304/CVS/008   | 100   | 104   | 99    | 92    | 00      |
| 02 | DF/24-A/0304/CVS/010   | 101   | 110   | 105   | 92    | 00      |
| 03 | DF/24-A/0304/CVS/012   | 98    | 107   | 100   | 91    | 00      |
| 04 | METHOD BLK. DPC441AA   | 97    | 103   | 98    | 88    | 00      |
| 05 | LCS DPD6Q1AA           | 95    | 104   | 99    | 88    | 00      |
| 06 | DF/24-A/0304/CVS/010 D | 90    | 100   | 94    | 84    | 00      |
| 07 | DF/24-A/0304/CVS/010 S | 94    | 102   | 100   | 89    | 00      |

| SURROGATES                    | QC LIMITS |
|-------------------------------|-----------|
| SRG01 = 1,2-Dichloroethane-d4 | ( 77-120) |
| SRG02 = Toluene-d8            | ( 78-111) |
| SRG03 = 4-Bromofluorobenzene  | ( 80-114) |
| SRG04 = Dibromofluoromethane  | ( 78-110) |

# Column to be used to flag recovery values  
 \* Values outside of required QC Limits  
 D System monitoring Compound diluted out

FORM II

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: COK060000

WO #: DPD6Q1AA

BATCH: 0311110

| COMPOUND             | SPIKE<br>ADDED<br>(mg/L ) | SAMPLE<br>CONCENT.<br>(mg/L ) | %<br>REC | QC<br>LIMITS<br>REC | QUAL  |
|----------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| =====                | =====                     | =====                         | =====    | =====               | ===== |
| Benzene              | 0.500                     | 0.438                         | 88       | 79 - 116            |       |
| 2-Butanone           | 0.500                     | 0.254                         | 51       | 35 - 156            |       |
| Carbon tetrachloride | 0.500                     | 0.505                         | 101      | 72 - 133            |       |
| Chlorobenzene        | 0.500                     | 0.460                         | 92       | 81 - 115            |       |
| Chloroform           | 0.500                     | 0.477                         | 95       | 81 - 122            |       |
| 1,2-Dichloroethane   | 0.500                     | 0.421                         | 84       | 73 - 127            |       |
| 1,1-Dichloroethene   | 0.500                     | 0.390                         | 78       | 65 - 119            |       |
| Tetrachloroethene    | 0.500                     | 0.454                         | 91       | 78 - 131            |       |
| Trichloroethene      | 0.500                     | 0.445                         | 89       | 80 - 122            |       |
| Vinyl chloride       | 0.500                     | 0.339                         | 68       | 53 - 134            |       |

NOTES(S):

\* Values outside of QC limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III



## SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0304/CSV/010

Level: (low/med) LOW

Lot #: C0J310200

WO #: DN4QJ1AW

BATCH: 0311110

| COMPOUND             | SPIKE<br>ADDED<br>(mg/L ) | SAMPLE<br>CONCENT.<br>(mg/L ) | MS<br>CONCENT.<br>(mg/L ) | MS<br>%<br>REC | LIMITS<br>REC | QUAL |
|----------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|------|
| 2-Butanone           | 0.500                     | ND                            | 0.265                     | 53             | 10- 151       |      |
| Benzene              | 0.500                     | ND                            | 0.446                     | 89             | 73- 123       |      |
| Carbon tetrachloride | 0.500                     | ND                            | 0.508                     | 102            | 61- 143       |      |
| Chlorobenzene        | 0.500                     | ND                            | 0.468                     | 94             | 70- 122       |      |
| Chloroform           | 0.500                     | ND                            | 0.487                     | 97             | 65- 131       |      |
| 1,2-Dichloroethane   | 0.500                     | ND                            | 0.431                     | 86             | 67- 132       |      |
| Vinyl chloride       | 0.500                     | ND                            | 0.367                     | 73             | 51- 133       |      |
| 1,1-Dichloroethene   | 0.500                     | ND                            | 0.421                     | 84             | 57- 138       |      |
| Tetrachloroethene    | 0.500                     | ND                            | 0.463                     | 93             | 70- 130       |      |
| Trichloroethene      | 0.500                     | ND                            | 0.452                     | 90             | 58- 141       |      |

NOTES (S) :

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS.

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0304/CVS/010

Level: (low/med) LOW

Lot #: C0J310200

WO #: DN4QJ1AX

BATCH: 03111110

| COMPOUND             | SPIKE<br>ADDED<br>(mg/L ) | MSD<br>CONCENT.<br>(mg/L ) | MSD<br>%<br>REC | %<br>RPD | QC LIMITS<br>RPD | REC     | QUAL |
|----------------------|---------------------------|----------------------------|-----------------|----------|------------------|---------|------|
| 2-Butanone           | 0.500                     | 0.252                      | 50              | 5.0      | 34               | 10- 151 |      |
| Carbon tetrachloride | 0.500                     | 0.506                      | 101             | 0.27     | 20               | 61- 143 |      |
| Benzene              | 0.500                     | 0.448                      | 90              | 0.58     | 20               | 73- 123 |      |
| Chlorobenzene        | 0.500                     | 0.478                      | 96              | 2.1      | 20               | 70- 122 |      |
| Chloroform           | 0.500                     | 0.488                      | 98              | 0.12     | 20               | 65- 131 |      |
| 1,2-Dichloroethane   | 0.500                     | 0.430                      | 86              | 0.44     | 20               | 67- 132 |      |
| 1,1-Dichloroethene   | 0.500                     | 0.395                      | 79              | 6.4      | 20               | 57- 138 |      |
| Tetrachloroethene    | 0.500                     | 0.470                      | 94              | 1.4      | 20               | 70- 130 |      |
| Trichloroethene      | 0.500                     | 0.453                      | 91              | 0.24     | 20               | 58- 141 |      |
| Vinyl chloride       | 0.500                     | 0.369                      | 74              | 0.65     | 20               | 51- 133 |      |

## NOTES (S) :

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

RPD: 0 out of 10 outside limitsSpike Recovery: 0 out of 10 outside limits

COMMENTS:

SW846 8260B METHOD BLANK SUMMARY

DPC441AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: WB31106.D

Lot Number: C0J310200

Date Analyzed: 11/06/00

Time Analyzed: 06:52

Matrix: SOLID

Date Extracted: 11/06/00

GC Column: ID: .00

Extraction Method: 1311/5030B

Instrument ID: HP3

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

|    | CLIENT ID.           | SAMPLE<br>WORK ORDER # | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|----|----------------------|------------------------|----------------|------------------|------------------|
| 01 | DF/24-A/0304/CVS/008 | DN4P61AC               | 3110601.D      | 11/06/00         | 07:15            |
| 02 | DF/24-A/0304/CVS/010 | DN4QJ1AC               | 3110602.D      | 11/06/00         | 07:37            |
| 03 | DF/24-A/0304/CVS/010 | DN4QJ1AW S             | 3110605.D      | 11/06/00         | 09:16            |
| 04 | DF/24-A/0304/CVS/010 | DN4QJ1AX D             | 3110606.D      | 11/06/00         | 09:39            |
| 05 | DF/24-A/0304/CVS/012 | DN4QK1AC               | 3110603.D      | 11/06/00         | 08:02            |
| 06 | CHECK SAMPLE         | DPD6Q1AA C             | 3110604.D      | 11/06/00         | 08:54            |
| 07 |                      |                        |                |                  |                  |
| 08 |                      |                        |                |                  |                  |
| 09 |                      |                        |                |                  |                  |
| 10 |                      |                        |                |                  |                  |
| 11 |                      |                        |                |                  |                  |
| 12 |                      |                        |                |                  |                  |
| 13 |                      |                        |                |                  |                  |
| 14 |                      |                        |                |                  |                  |
| 15 |                      |                        |                |                  |                  |
| 16 |                      |                        |                |                  |                  |
| 17 |                      |                        |                |                  |                  |
| 18 |                      |                        |                |                  |                  |
| 19 |                      |                        |                |                  |                  |
| 20 |                      |                        |                |                  |                  |
| 21 |                      |                        |                |                  |                  |
| 22 |                      |                        |                |                  |                  |
| 23 |                      |                        |                |                  |                  |
| 24 |                      |                        |                |                  |                  |
| 25 |                      |                        |                |                  |                  |
| 26 |                      |                        |                |                  |                  |
| 27 |                      |                        |                |                  |                  |
| 28 |                      |                        |                |                  |                  |
| 29 |                      |                        |                |                  |                  |
| 30 |                      |                        |                |                  |                  |

COMMENTS:

FORM IV

UXB INTERNATIONAL  
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COK040000 108

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 10/31/00

Work Order: DPC441AA

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/06/00

Moisture %: NA

QC Batch: 0311110

Client Sample Id: INTRA-LAB BLANK

| CAS NO.  | COMPOUND             | CONCENTRATION UNITS: |   |
|----------|----------------------|----------------------|---|
|          |                      | (ug/L or ug/kg) mg/L | Q |
| 71-43-2  | Benzene              | 0.050                | U |
| 78-93-3  | 2-Butanone           | 0.050                | U |
| 56-23-5  | Carbon tetrachloride | 0.050                | U |
| 108-90-7 | Chlorobenzene        | 0.050                | U |
| 67-66-3  | Chloroform           | 0.050                | U |
| 107-06-2 | 1,2-Dichloroethane   | 0.050                | U |
| 75-35-4  | 1,1-Dichloroethene   | 0.050                | U |
| 127-18-4 | Tetrachloroethene    | 0.050                | U |
| 79-01-6  | Trichloroethene      | 0.050                | U |
| 75-01-4  | Vinyl chloride       | 0.050                | U |

## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C0J310200

Lab File ID (Standard): 1C31106

Date Analyzed: 11/06/00

Instrument ID: HP3

Time Analyzed: 0621

GC Column: DB 624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

|                   | IS1 (CBZ) |       | IS2 (DCB) |       | IS3     |       |
|-------------------|-----------|-------|-----------|-------|---------|-------|
|                   | AREA #    | RT #  | AREA #    | RT #  | AREA #  | RT #  |
| =====             | =====     | ===== | =====     | ===== | =====   | ===== |
| 12 HOUR STD       | 218649    | 9.74  | 373504    | 12.05 | 890656  | 6.60  |
| UPPER LIMIT       | 437298    | 9.94  | 747008    | 12.25 | 1781312 | 6.80  |
| LOWER LIMIT       | 109325    | 9.54  | 186752    | 11.85 | 445328  | 6.40  |
| =====             | =====     | ===== | =====     | ===== | =====   | ===== |
| EPA SAMPLE<br>NO. |           |       |           |       |         |       |
| =====             | =====     | ===== | =====     | ===== | =====   | ===== |
| 01 INTRA-LAB BL   | 213163    | 9.73  | 359334    | 12.05 | 904658  | 6.60  |
| 02 DF/24-A/0304   | 209127    | 9.73  | 353180    | 12.05 | 863817  | 6.60  |
| 03 DF/24-A/0304   | 198770    | 9.74  | 338799    | 12.05 | 843231  | 6.60  |
| 04 DF/24-A/0304   | 209249    | 9.73  | 353677    | 12.05 | 889545  | 6.61  |
| 05 INTRA-LAB CH   | 214796    | 9.74  | 363392    | 12.06 | 876755  | 6.60  |
| 06 DF/24-A/0304   | 214604    | 9.74  | 372969    | 12.05 | 876328  | 6.60  |
| 07 DF/24-A/0304   | 225151    | 9.73  | 373024    | 12.05 | 929416  | 6.61  |
| 08                |           |       |           |       |         |       |
| 09                |           |       |           |       |         |       |
| 10                |           |       |           |       |         |       |
| 11                |           |       |           |       |         |       |
| 12                |           |       |           |       |         |       |
| 13                |           |       |           |       |         |       |
| 14                |           |       |           |       |         |       |
| 15                |           |       |           |       |         |       |
| 16                |           |       |           |       |         |       |
| 17                |           |       |           |       |         |       |
| 18                |           |       |           |       |         |       |
| 19                |           |       |           |       |         |       |
| 20                |           |       |           |       |         |       |
| 21                |           |       |           |       |         |       |
| 22                |           |       |           |       |         |       |

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

AREA UPPER LIMIT = +100% of internal standard area  
 AREA LOWER LIMIT = - 50% of internal standard area  
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT  
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
 \* Values outside of QC limits.

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**GC/MS SEMIVOLATILE SUMMARY**

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 10/31/00

Work Order: DN4P61AD

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/09/00

Moisture %: 16

QC Batch: 0312126

Client Sample Id: DF/24-A/0304/CVS/008

## CONCENTRATION UNITS:

| CAS NO.   | COMPOUND              | (ug/L or ug/kg) mg/L | Q |
|-----------|-----------------------|----------------------|---|
| 106-46-7  | 1,4-Dichlorobenzene   | 0.050                | U |
| 121-14-2  | 2,4-Dinitrotoluene    | 0.050                | U |
| 118-74-1  | Hexachlorobenzene     | 0.050                | U |
| 87-68-3   | Hexachlorobutadiene   | 0.050                | U |
| 67-72-1   | Hexachloroethane      | 0.050                | U |
| 98-95-3   | Nitrobenzene          | 0.050                | U |
| 87-86-5   | Pentachlorophenol     | 0.25                 | U |
| 110-86-1  | Pyridine              | 0.10                 | U |
| 95-95-4   | 2,4,5-Trichlorophenol | 0.050                | U |
| 88-06-2   | 2,4,6-Trichlorophenol | 0.050                | U |
| 1319-77-3 | Cresols (total)       | 0.050                | U |

UXB INTERNATIONAL  
MATRIX SPIKE COMPOUNDS

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Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID: C0J310200 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 10/31/00

Work Order: DN4P61CQ

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/09/00

Moisture %: 16

QC Batch: 0312126

Client Sample Id: DF/24-A/0304/CVS/008

| CAS NO.   | COMPOUND              | CONCENTRATION UNITS: |   |
|-----------|-----------------------|----------------------|---|
|           |                       | (ug/L or ug/kg) mg/L | Q |
| 106-46-7  | 1,4-Dichlorobenzene   | 0.209                |   |
| 121-14-2  | 2,4-Dinitrotoluene    | 0.207                |   |
| 118-74-1  | Hexachlorobenzene     | 0.222                |   |
| 87-68-3   | Hexachlorobutadiene   | 0.199                |   |
| 67-72-1   | Hexachloroethane      | 0.211                |   |
| 98-95-3   | Nitrobenzene          | 0.221                |   |
| 87-86-5   | Pentachlorophenol     | 0.175                |   |
| 110-86-1  | Pyridine              | 0.180                |   |
| 95-95-4   | 2,4,5-Trichlorophenol | 0.218                |   |
| 88-06-2   | 2,4,6-Trichlorophenol | 0.221                |   |
| 1319-77-3 | Cresols (total)       | 0.684                |   |

FORM I



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UXB INTERNATIONAL  
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 10/31/00

Work Order: DN4P61CR

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/09/00

Moisture %: 16

QC Batch: 0312126

Client Sample Id: DF/24-A/0304/CVS/008

| CAS NO.   | COMPOUND              | CONCENTRATION UNITS: |      |
|-----------|-----------------------|----------------------|------|
|           |                       | (ug/L or ug/kg)      | mg/L |
| 106-46-7  | 1,4-Dichlorobenzene   | 0.189                |      |
| 121-14-2  | 2,4-Dinitrotoluene    | 0.189                |      |
| 118-74-1  | Hexachlorobenzene     | 0.203                |      |
| 87-68-3   | Hexachlorobutadiene   | 0.181                |      |
| 67-72-1   | Hexachloroethane      | 0.192                |      |
| 98-95-3   | Nitrobenzene          | 0.200                |      |
| 87-86-5   | Pentachlorophenol     | 0.163                |      |
| 110-86-1  | Pyridine              | 0.161                |      |
| 95-95-4   | 2,4,5-Trichlorophenol | 0.196                |      |
| 88-06-2   | 2,4,6-Trichlorophenol | 0.204                |      |
| 1319-77-3 | Cresols (total)       | 0.628                |      |

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COJ310200 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 10/31/00

Work Order: DN4QJ1AD

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/09/00

Moisture %: 13

QC Batch: 0312126

Client Sample Id: DF/24-A/0304/CVS/010

| CAS NO.   | COMPOUND              | CONCENTRATION UNITS: |   |
|-----------|-----------------------|----------------------|---|
|           |                       | (ug/L or ug/kg) mg/L | Q |
| 106-46-7  | 1,4-Dichlorobenzene   | 0.050                | U |
| 121-14-2  | 2,4-Dinitrotoluene    | 0.050                | U |
| 118-74-1  | Hexachlorobenzene     | 0.050                | U |
| 87-68-3   | Hexachlorobutadiene   | 0.050                | U |
| 67-72-1   | Hexachloroethane      | 0.050                | U |
| 98-95-3   | Nitrobenzene          | 0.050                | U |
| 87-86-5   | Pentachlorophenol     | 0.25                 | U |
| 110-86-1  | Pyridine              | 0.10                 | U |
| 95-95-4   | 2,4,5-Trichlorophenol | 0.050                | U |
| 88-06-2   | 2,4,6-Trichlorophenol | 0.050                | U |
| 1319-77-3 | Cresols (total)       | 0.050                | U |

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UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 10/31/00

Work Order: DN4QK1AD

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/09/00

Moisture %: 17

QC Batch: 0312126

Client Sample Id: DF/24-A/0304/CVS/012

| CAS NO.   | COMPOUND              | CONCENTRATION UNITS: |   |
|-----------|-----------------------|----------------------|---|
|           |                       | (ug/L or ug/kg) mg/L | Q |
| 106-46-7  | 1,4-Dichlorobenzene   | 0.050                | U |
| 121-14-2  | 2,4-Dinitrotoluene    | 0.050                | U |
| 118-74-1  | Hexachlorobenzene     | 0.050                | U |
| 87-68-3   | Hexachlorobutadiene   | 0.050                | U |
| 67-72-1   | Hexachloroethane      | 0.050                | U |
| 98-95-3   | Nitrobenzene          | 0.050                | U |
| 87-86-5   | Pentachlorophenol     | 0.25                 | U |
| 110-86-1  | Pyridine              | 0.10                 | U |
| 95-95-4   | 2,4,5-Trichlorophenol | 0.050                | U |
| 88-06-2   | 2,4,6-Trichlorophenol | 0.050                | U |
| 1319-77-3 | Cresols (total)       | 0.050                | U |

FORM I

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UXB INTERNATIONAL  
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.      SDG Number:

Matrix: (soil/water) SOLID      Lab Sample ID: C0K070000 126

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL      Date Received: 10/31/00

Work Order: DPFJJ1AC      Date Extracted: 11/06/00

Dilution factor: 1      Date Analyzed: 11/09/00

Moisture %: NA      QC Batch: 0312126

Client Sample Id: CHECK SAMPLE

| CAS NO.   | COMPOUND              | CONCENTRATION UNITS: |   |
|-----------|-----------------------|----------------------|---|
|           |                       | (ug/L or ug/kg) mg/L | Q |
| 106-46-7  | 1,4-Dichlorobenzene   | 0.221                |   |
| 121-14-2  | 2,4-Dinitrotoluene    | 0.196                |   |
| 118-74-1  | Hexachlorobenzene     | 0.213                |   |
| 87-68-3   | Hexachlorobutadiene   | 0.202                |   |
| 67-72-1   | Hexachloroethane      | 0.225                |   |
| 98-95-3   | Nitrobenzene          | 0.220                |   |
| 87-86-5   | Pentachlorophenol     | 0.225                |   |
| 110-86-1  | Pyridine              | 0.230                |   |
| 95-95-4   | 2,4,5-Trichlorophenol | 0.222                |   |
| 88-06-2   | 2,4,6-Trichlorophenol | 0.218                |   |
| 1319-77-3 | Cresols (total)       | 0.708                |   |

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0J310200

|    | CLIENT ID.             | SRG01 | SRG02 | SRG03 | SRG04 | SRG05 | SRG06 | TOT OUT |
|----|------------------------|-------|-------|-------|-------|-------|-------|---------|
|    | =====                  | ===== | ===== | ===== | ===== | ===== | ===== | =====   |
| 01 | DF/24-A/0304/CVS/008   | 85    | 80    | 89    | 78    | 85    | 85    | 00      |
| 02 | DF/24-A/0304/CVS/010   | 80    | 77    | 87    | 74    | 85    | 85    | 00      |
| 03 | DF/24-A/0304/CVS/012   | 74    | 72    | 91    | 66    | 76    | 84    | 00      |
| 04 | METHOD BLK. DPFJJ1AA   | 73    | 67    | 80    | 74    | 80    | 77    | 00      |
| 05 | LCS DPFJJ1AC           | 84    | 78    | 86    | 85    | 90    | 89    | 00      |
| 06 | DF/24-A/0304/CVS/008 D | 76    | 73    | 82    | 67    | 78    | 80    | 00      |
| 07 | DF/24-A/0304/CVS/008 S | 82    | 80    | 90    | 73    | 84    | 88    | 00      |

SURROGATES

SRG01 = Nitrobenzene-d5  
 SRG02 = 2-Fluorobiphenyl  
 SRG03 = Terphenyl-d14  
 SRG04 = 2-Fluorophenol  
 SRG05 = Phenol-d5  
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

( 32-112)  
 ( 30-110)  
 ( 10-144)  
 ( 13-110)  
 ( 10-113)  
 ( 21-122)

# Column to be used to flag recovery values  
 \* Values outside of required QC Limits  
 D System monitoring Compound diluted out

FORM II

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: COK070000

WO #: DPFJJ1AC

BATCH: 0312126

| COMPOUND              | SPIKE<br>ADDED<br>(mg/L ) | SAMPLE<br>CONCENT.<br>(mg/L ) | %<br>REC | QC<br>LIMITS<br>REC | QUAL |
|-----------------------|---------------------------|-------------------------------|----------|---------------------|------|
| 1,4-Dichlorobenzene   | 0.250                     | 0.221                         | 88       | 28 - 110            |      |
| 2,4-Dinitrotoluene    | 0.250                     | 0.196                         | 78       | 47 - 131            |      |
| Hexachlorobenzene     | 0.250                     | 0.213                         | 85       | 57 - 128            |      |
| Hexachlorobutadiene   | 0.250                     | 0.202                         | 81       | 36 - 116            |      |
| Hexachloroethane      | 0.250                     | 0.225                         | 90       | 30 - 110            |      |
| Nitrobenzene          | 0.250                     | 0.220                         | 88       | 45 - 130            |      |
| Pentachlorophenol     | 0.250                     | 0.225                         | 90       | 10 - 140            |      |
| Pyridine              | 0.250                     | 0.230                         | 92       | 10 - 148            |      |
| 2,4,5-Trichlorophenol | 0.250                     | 0.222                         | 89       | 41 - 125            |      |
| 2,4,6-Trichlorophenol | 0.250                     | 0.218                         | 87       | 46 - 135            |      |
| Cresols (total)       | 0.750                     | 0.708                         | 94       | 29 - 144            |      |

NOTES (S) :

\* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

## SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0304/CVS/008

Level: (low/med) LOW

Lot #: C0J310200

WO #: DN4P61CQ

BATCH: 0312126

| COMPOUND              | SPIKE<br>ADDED<br>(mg/L ) | SAMPLE<br>CONCENT.<br>(mg/L ) | MS<br>CONCENT.<br>(mg/L ) | MS<br>%<br>REC | LIMITS<br>REC | QUAL |
|-----------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|------|
| 1,4-Dichlorobenzene   | 0.250                     | ND                            | 0.209                     | 84             | 18- 110       |      |
| 2,4-Dinitrotoluene    | 0.250                     | ND                            | 0.207                     | 83             | 31- 131       |      |
| Hexachlorobenzene     | 0.250                     | ND                            | 0.222                     | 89             | 36- 132       |      |
| Hexachlorobutadiene   | 0.250                     | ND                            | 0.199                     | 80             | 18- 116       |      |
| Hexachloroethane      | 0.250                     | ND                            | 0.211                     | 84             | 18- 110       |      |
| Nitrobenzene          | 0.250                     | ND                            | 0.221                     | 88             | 10- 211       |      |
| Pentachlorophenol     | 0.250                     | ND                            | 0.175                     | 70             | 10- 140       |      |
| Pyridine              | 0.250                     | ND                            | 0.180                     | 72             | 10- 148       |      |
| 2,4,5-Trichlorophenol | 0.250                     | ND                            | 0.218                     | 87             | 24- 143       |      |
| 2,4,6-Trichlorophenol | 0.250                     | ND                            | 0.221                     | 88             | 36- 135       |      |
| Cresols (total)       | 0.750                     | ND                            | 0.684                     | 91             | 25- 144       |      |

## NOTES (S) :

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

RPD: 0 out of 0 outside limits  
 Spike Recovery: 0 out of 11 outside limits

COMMENTS:

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0304/CVS/008

Level: (low/med) LOW

Lot #: C0J310200

WO #: DN4P61CR

BATCH: 0312126

| COMPOUND              | SPIKE<br>ADDED<br>(mg/L ) | MSD<br>CONCENT.<br>(mg/L ) | MSD      |          | QC LIMITS |          | QUAL |
|-----------------------|---------------------------|----------------------------|----------|----------|-----------|----------|------|
|                       |                           |                            | %<br>REC | %<br>RPD | RPD       | REC      |      |
| 1,4-Dichlorobenzene   | 0.250                     | 0.189                      | 76       | 10       | 36        | 18 - 110 |      |
| 2,4-Dinitrotoluene    | 0.250                     | 0.189                      | 76       | 9.1      | 32        | 31 - 131 |      |
| Hexachlorobenzene     | 0.250                     | 0.203                      | 81       | 8.9      | 22        | 36 - 132 |      |
| Hexachlorobutadiene   | 0.250                     | 0.181                      | 72       | 9.5      | 32        | 18 - 116 |      |
| Hexachloroethane      | 0.250                     | 0.192                      | 77       | 9.4      | 33        | 18 - 110 |      |
| Nitrobenzene          | 0.250                     | 0.200                      | 80       | 10       | 50        | 10 - 211 |      |
| Pentachlorophenol     | 0.250                     | 0.163                      | 65       | 7.1      | 56        | 10 - 140 |      |
| Pyridine              | 0.250                     | 0.161                      | 64       | 11       | 65        | 10 - 148 |      |
| 2,4,5-Trichlorophenol | 0.250                     | 0.196                      | 78       | 11       | 22        | 24 - 143 |      |
| 2,4,6-Trichlorophenol | 0.250                     | 0.204                      | 82       | 8.0      | 27        | 36 - 135 |      |
| Cresols (total)       | 0.750                     | 0.628                      | 84       | 8.5      | 33        | 25 - 144 |      |

## NOTES (S) :

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

RPD: 0 out of 11 outside limitsSpike Recovery: 0 out of 11 outside limits

COMMENTS:



674 36

BLANK WORKORDER NO.

SW846 8270C METHOD BLANK SUMMARY

DPFJJ1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: F1109001.

Lot Number: C0J310200

Date Analyzed: 11/09/00

Time Analyzed: 09:05

Matrix: SOLID

Date Extracted: 11/06/00

GC Column: HP5MS ID: .25

Extraction Method: 1311/3520C

Instrument ID: 722

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS, MSD:

|    | CLIENT ID.           | SAMPLE<br>WORK ORDER # | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|----|----------------------|------------------------|----------------|------------------|------------------|
| 01 | DF/24-A/0304/CVS/008 | DN4P61AD               | F1109005.      | 11/09/00         | 11:21            |
| 02 | DF/24-A/0304/CVS/008 | DN4P61CQ S             | F1109003.      | 11/09/00         | 10:13            |
| 03 | DF/24-A/0304/CVS/008 | DN4P61CR D             | F1109004.      | 11/09/00         | 10:47            |
| 04 | DF/24-A/0304/CVS/010 | DN4QJ1AD               | F1109006.      | 11/09/00         | 11:55            |
| 05 | DF/24-A/0304/CVS/012 | DN4QK1AD               | F1109007.      | 11/09/00         | 12:29            |
| 06 | CHECK SAMPLE         | DPFJJ1AC C             | F1109002.      | 11/09/00         | 09:39            |
| 07 |                      |                        |                |                  |                  |
| 08 |                      |                        |                |                  |                  |
| 09 |                      |                        |                |                  |                  |
| 10 |                      |                        |                |                  |                  |
| 11 |                      |                        |                |                  |                  |
| 12 |                      |                        |                |                  |                  |
| 13 |                      |                        |                |                  |                  |
| 14 |                      |                        |                |                  |                  |
| 15 |                      |                        |                |                  |                  |
| 16 |                      |                        |                |                  |                  |
| 17 |                      |                        |                |                  |                  |
| 18 |                      |                        |                |                  |                  |
| 19 |                      |                        |                |                  |                  |
| 20 |                      |                        |                |                  |                  |
| 21 |                      |                        |                |                  |                  |
| 22 |                      |                        |                |                  |                  |
| 23 |                      |                        |                |                  |                  |
| 24 |                      |                        |                |                  |                  |
| 25 |                      |                        |                |                  |                  |
| 26 |                      |                        |                |                  |                  |
| 27 |                      |                        |                |                  |                  |
| 28 |                      |                        |                |                  |                  |
| 29 |                      |                        |                |                  |                  |
| 30 |                      |                        |                |                  |                  |

COMMENTS:

FORM IV

UXB INTERNATIONAL  
METHOD BLANK COMPOUNDS

674

37

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COK070000 126

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 10/31/00

Work Order: DPFJJ1AA

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/09/00

Moisture %: NA

QC Batch: 0312126

Client Sample Id: INTRA-LAB BLANK

| CAS NO.   | COMPOUND              | CONCENTRATION UNITS: |   |
|-----------|-----------------------|----------------------|---|
|           |                       | (ug/L or ug/kg) mg/L | Q |
| 106-46-7  | 1,4-Dichlorobenzene   | 0.050                | U |
| 121-14-2  | 2,4-Dinitrotoluene    | 0.050                | U |
| 118-74-1  | Hexachlorobenzene     | 0.050                | U |
| 87-68-3   | Hexachlorobutadiene   | 0.050                | U |
| 67-72-1   | Hexachloroethane      | 0.050                | U |
| 98-95-3   | Nitrobenzene          | 0.050                | U |
| 87-86-5   | Pentachlorophenol     | 0.25                 | U |
| 110-86-1  | Pyridine              | 0.10                 | U |
| 95-95-4   | 2,4,5-Trichlorophenol | 0.050                | U |
| 88-06-2   | 2,4,6-Trichlorophenol | 0.050                | U |
| 1319-77-3 | Cresols (total)       | 0.050                | U |

## SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

COT 310200

Lab File ID (Standard): F11090C1

Date Analyzed: 11/09/00

Instrument ID: 722

Time Analyzed: 0831

|                 | IS1 (DCB) | RT #  | IS2 (NPT) | RT #  | IS3 (ANT) | RT #  |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
|                 | AREA #    |       | AREA #    |       | AREA #    |       |
| =====           | =====     | ===== | =====     | ===== | =====     | ===== |
| 12 HOUR STD     | 122914    | 4.53  | 454755    | 5.95  | 230342    | 8.77  |
| UPPER LIMIT     | 245828    | 5.03  | 909510    | 6.45  | 460684    | 9.27  |
| LOWER LIMIT     | 61457     | 4.03  | 227378    | 5.45  | 115171    | 8.27  |
| =====           | =====     | ===== | =====     | ===== | =====     | ===== |
| CLIENT          |           |       |           |       |           |       |
| SAMPLE NO.      |           |       |           |       |           |       |
| =====           | =====     | ===== | =====     | ===== | =====     | ===== |
| 01 INTRA-LAB BL | 114216    | 4.53  | 448939    | 5.94  | 249449    | 8.76  |
| 02 INTRA-LAB CH | 104181    | 4.53  | 415805    | 5.95  | 229633    | 8.77  |
| 03 DF/24-A/0304 | 111175    | 4.54  | 435299    | 5.95  | 232215    | 8.77  |
| 04 DF/24-A/0304 | 118382    | 4.54  | 466007    | 5.95  | 246403    | 8.77  |
| 05 DF/24-A/0304 | 110146    | 4.53  | 436952    | 5.94  | 234777    | 8.76  |
| 06 DF/24-A/0304 | 114481    | 4.53  | 465727    | 5.94  | 253713    | 8.75  |
| 07 DF/24-A/0304 | 102810    | 4.54  | 406003    | 5.95  | 219147    | 8.77  |
| 08              |           |       |           |       |           |       |
| 09              |           |       |           |       |           |       |
| 10              |           |       |           |       |           |       |
| 11              |           |       |           |       |           |       |
| 12              |           |       |           |       |           |       |
| 13              |           |       |           |       |           |       |
| 14              |           |       |           |       |           |       |
| 15              |           |       |           |       |           |       |
| 16              |           |       |           |       |           |       |
| 17              |           |       |           |       |           |       |
| 18              |           |       |           |       |           |       |
| 19              |           |       |           |       |           |       |
| 20              |           |       |           |       |           |       |
| 21              |           |       |           |       |           |       |
| 22              |           |       |           |       |           |       |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

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

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

\* Values outside of QC limits.

FORM 8  
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH

Contract:  

**674 39**

Lab Code: Case No.:

SAS No.:

SDG No.: *COJ 310200*

Lab File ID (Standard): F11090C1

Date Analyzed: 11/09/00

Instrument ID: 722

Time Analyzed: 0831

|                 | IS4 (PHN) |       | IS5 (CRY) |       | IS6 (PRY) |       |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
|                 | AREA #    | RT #  | AREA #    | RT #  | AREA #    | RT #  |
| =====           | =====     | ===== | =====     | ===== | =====     | ===== |
| 12 HOUR STD     | 363297    | 11.96 | 371769    | 18.51 | 390180    | 21.84 |
| UPPER LIMIT     | 726594    | 12.46 | 743538    | 19.01 | 780360    | 22.34 |
| LOWER LIMIT     | 181649    | 11.46 | 185885    | 18.01 | 195090    | 21.34 |
| =====           | =====     | ===== | =====     | ===== | =====     | ===== |
| CLIENT          |           |       |           |       |           |       |
| SAMPLE NO.      |           |       |           |       |           |       |
| =====           | =====     | ===== | =====     | ===== | =====     | ===== |
| 01 INTRA-LAB BL | 389683    | 11.95 | 320445    | 18.49 | 313897    | 21.83 |
| 02 INTRA-LAB CH | 371870    | 11.95 | 343219    | 18.50 | 332219    | 21.83 |
| 03 DF/24-A/0304 | 360029    | 11.96 | 317244    | 18.50 | 302521    | 21.83 |
| 04 DF/24-A/0304 | 382375    | 11.95 | 344517    | 18.49 | 335090    | 21.83 |
| 05 DF/24-A/0304 | 363002    | 11.94 | 320450    | 18.48 | 306491    | 21.82 |
| 06 DF/24-A/0304 | 386259    | 11.94 | 348961    | 18.48 | 334772    | 21.82 |
| 07 DF/24-A/0304 | 343060    | 11.95 | 306503    | 18.50 | 294302    | 21.84 |
| 08              |           |       |           |       |           |       |
| 09              |           |       |           |       |           |       |
| 10              |           |       |           |       |           |       |
| 11              |           |       |           |       |           |       |
| 12              |           |       |           |       |           |       |
| 13              |           |       |           |       |           |       |
| 14              |           |       |           |       |           |       |
| 15              |           |       |           |       |           |       |
| 16              |           |       |           |       |           |       |
| 17              |           |       |           |       |           |       |
| 18              |           |       |           |       |           |       |
| 19              |           |       |           |       |           |       |
| 20              |           |       |           |       |           |       |
| 21              |           |       |           |       |           |       |
| 22              |           |       |           |       |           |       |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

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

# Column used to flag internal standard area values with an asterisk.  
\* Values outside of QC limits.

**PESTICIDE SUMMARY**

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 10/31/00

Work Order: DN4P61AE

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/07/00

Moisture %: 16

QC Batch: 0311599

Client Sample Id: DF/24-A/0304/CVS/008

| CONCENTRATION UNITS: |                       |                      |   |
|----------------------|-----------------------|----------------------|---|
| CAS NO.              | COMPOUND              | (ug/L or ug/kg) mg/L | Q |
| 57-74-9              | Chlordane (technical) | 0.0050               | U |
| 72-20-8              | Endrin                | 0.00050              | U |
| 76-44-8              | Heptachlor            | 0.00050              | U |
| 1024-57-3            | Heptachlor epoxide    | 0.00050              | U |
| 58-89-9              | Lindane               | 0.00050              | U |
| 72-43-5              | Methoxychlor          | 0.0010               | U |
| 8001-35-2            | Toxaphene             | 0.020                | U |

674

42

UXB INTERNATIONAL  
MATRIX SPIKE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.      SDG Number:

Matrix: (soil/water) SOLID  
Method: SW846 8081A  
Pesticides (8081A)

Lab Sample ID: C0J310200 001

Sample WT/Vol: 100 / mL  
Work Order: DN4P61CN  
Dilution factor: 1  
Moisture %: 16Date Received: 10/31/00  
Date Extracted: 11/06/00  
Date Analyzed: 11/07/00

QC Batch: 0311599

Client Sample Id: DF/24-A/0304/CVS/008

| CAS NO.   | COMPOUND            | CONCENTRATION UNITS: |   |
|-----------|---------------------|----------------------|---|
|           |                     | (ug/L or ug/kg) mg/L | Q |
| 72-20-8   | Endrin              | 0.00270              |   |
| 76-44-8   | Heptachlor          | 0.00231              |   |
| 1024-57-3 | Heptachlor, epoxide | 0.00224              |   |
| 58-89-9   | Lindane             | 0.00221              |   |
| 72-43-5   | Methoxychlor        | 0.00304              |   |

FORM I

UXB INTERNATIONAL  
MATRIX SPIKE DUPLICATE COMPOUNDS

674

43

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 10/31/00

Work Order: DN4P61CP

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/07/00

Moisture %: 16

QC Batch: 0311599

Client Sample Id: DF/24-A/0304/CVS/008

| CAS NO.   | COMPOUND           | CONCENTRATION UNITS: |   |
|-----------|--------------------|----------------------|---|
|           |                    | (ug/L or ug/kg) mg/L | Q |
| 72-20-8   | Endrin             | 0.00271              |   |
| 76-44-8   | Heptachlor         | 0.00229              |   |
| 1024-57-3 | Heptachlor epoxide | 0.00220              |   |
| 58-89-9   | Lindane            | 0.00218              |   |
| 72-43-5   | Methoxychlor       | 0.00307              |   |

FORM I



674

44

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 002

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 10/31/00

Work Order: DN4QJ1AE

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/07/00

Moisture %: 13

QC Batch: 0311599

Client Sample Id: DF/24-A/0304/CVS/010

| CAS NO.   | COMPOUND              | CONCENTRATION UNITS: |   |
|-----------|-----------------------|----------------------|---|
|           |                       | (ug/L or ug/kg) mg/L | Q |
| 57-74-9   | Chlordane (technical) | 0.0050               | U |
| 72-20-8   | Endrin                | 0.00050              | U |
| 76-44-8   | Heptachlor            | 0.00050              | U |
| 1024-57-3 | Heptachlor epoxide    | 0.00050              | U |
| 58-89-9   | Lindane               | 0.00050              | U |
| 72-43-5   | Methoxychlor          | 0.0010               | U |
| 8001-35-2 | Toxaphene             | 0.020                | U |

FORM I

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 003

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 10/31/00

Work Order: DN4QK1AE

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/07/00

Moisture %: 17

QC Batch: 0311599

Client Sample Id: DF/24-A/0304/CSV/012

| CAS NO.   | COMPOUND              | CONCENTRATION UNITS: |   |
|-----------|-----------------------|----------------------|---|
|           |                       | (ug/L or ug/kg) mg/L | Q |
| 57-74-9   | Chlordane (technical) | 0.0050               | U |
| 72-20-8   | Endrin                | 0.00050              | U |
| 76-44-8   | Heptachlor            | 0.00050              | U |
| 1024-57-3 | Heptachlor epoxide    | 0.00050              | U |
| 58-89-9   | Lindane               | 0.00050              | U |
| 72-43-5   | Methoxychlor          | 0.0010               | U |
| 8001-35-2 | Toxaphene             | 0.020                | U |

674

46

UXB INTERNATIONAL  
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID  
Method: SW846 8081A  
Pesticides (8081A)

-Lab Sample ID: COK060000 599

Sample WT/Vol: 100 / mL  
Work Order: DPFF11AC  
Dilution factor: 1  
Moisture %: NADate Received: 10/31/00  
Date Extracted: 11/06/00  
Date Analyzed: 11/07/00

QC Batch: 0311599

Client Sample Id: CHECK SAMPLE

|           |                    | CONCENTRATION UNITS: |   |
|-----------|--------------------|----------------------|---|
| CAS NO.   | COMPOUND           | (ug/L or ug/kg) mg/L | Q |
| 72-20-8   | Endrin             | 0.00280              |   |
| 76-44-8   | Heptachlor         | 0.00253              |   |
| 1024-57-3 | Heptachlor epoxide | 0.00241              |   |
| 58-89-9   | Lindane            | 0.00237              |   |
| 72-43-5   | Methoxychlor       | 0.00325              |   |

FORM I

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0J310200

|    | CLIENT ID.             | SRG01 | SRG02 | TOT OUT |
|----|------------------------|-------|-------|---------|
|    | =====                  | ===== | ===== | =====   |
| 01 | DF/24-A/0304/CVS/008   | 95    | 90    | 00      |
| 02 | DF/24-A/0304/CVS/010   | 95    | 92    | 00      |
| 03 | DF/24-A/0304/CVS/012   | 94    | 93    | 00      |
| 04 | METHOD BLK. DPFF11AA   | 99    | 104   | 00      |
| 05 | LCS DPFF11AC           | 93    | 93    | 00      |
| 06 | DF/24-A/0304/CVS/008 D | 89    | 82    | 00      |
| 07 | DF/24-A/0304/CVS/008 S | 90    | 83    | 00      |

SURROGATES

SRG01 = Decachlorobiphenyl  
SRG02 = Tetrachloro-m-xylene

QC LIMITS

( 10-147)  
( 39-130)

# Column to be used to flag recovery values  
\* Values outside of required QC Limits  
D System monitoring Compound diluted out

FORM II

674 48

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0K060000

WO #: DPFF11AC

BATCH: 0311599

| COMPOUND           | SPIKE<br>ADDED<br>(mg/L ) | SAMPLE<br>CONCENT.<br>(mg/L ) | %<br>REC | QC<br>LIMITS<br>REC | QUAL  |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| =====              | =====                     | =====                         | =====    | =====               | ===== |
| Lindane            | 0.00250                   | 0.00237                       | 95       | 49 - 137            |       |
| Heptachlor         | 0.00250                   | 0.00253                       | 101      | 57 - 124            |       |
| Heptachlor epoxide | 0.00250                   | 0.00241                       | 96       | 53 - 135            |       |
| Endrin             | 0.00250                   | 0.00280                       | 112      | 46 - 137            |       |
| Methoxychlor       | 0.00250                   | 0.00325                       | 130      | 12 - 154            |       |

NOTES (S) :

\* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

674

49

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0304/CVS/008

Level: (low/med) LOW

Lot #: C0J310200

WO #: DN4P61CN

BATCH: 0311599

| COMPOUND           | SPIKE<br>ADDED<br>(mg/L ) | SAMPLE<br>CONCENT.<br>(mg/L ) | MS<br>CONCENT.<br>(mg/L ) | MS<br>%<br>REC | LIMITS<br>REC | QUAL  |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| =====              | =====                     | =====                         | =====                     | =====          | =====         | ===== |
| Lindane            | 0.00250                   | ND                            | 0.00221                   | 88             | 30 - 148      |       |
| Heptachlor         | 0.00250                   | ND                            | 0.00231                   | 92             | 25 - 135      |       |
| Heptachlor epoxide | 0.00250                   | ND                            | 0.00224                   | 89             | 38 - 138      |       |
| Endrin             | 0.00250                   | ND                            | 0.00270                   | 108            | 28 - 148      |       |
| Methoxychlor       | 0.00250                   | ND                            | 0.00304                   | 121            | 13 - 154      |       |

## NOTES (S) :

# Column to be used to flag recovery and RPD values with an asterisk  
\* Values outside of QC limits

RPD: \_\_\_\_0 out of \_\_\_\_0 outside limits

Spike Recovery: \_\_\_\_0 out of \_\_\_\_5 outside limits

COMMENTS:

674 50

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0304/CVS/008

Level: (low/med) LOW

Lot #: C0J310200

WO #: DN4P61CP

BATCH: 0311599

| COMPOUND           | SPIKE<br>ADDED<br>(mg/L ) | MSD<br>CONCENT.<br>(mg/L ) | MSD<br>%<br>REC | %<br>RPD | QC LIMITS<br>RPD | REC      | QUAL |
|--------------------|---------------------------|----------------------------|-----------------|----------|------------------|----------|------|
| Lindane            | 0.00250                   | 0.00218                    | 87              | 1.1      | 22               | 30 - 148 |      |
| Heptachlor         | 0.00250                   | 0.00229                    | 92              | 0.60     | 32               | 25 - 135 |      |
| Heptachlor epoxide | 0.00250                   | 0.00220                    | 88              | 1.8      | 31               | 38 - 138 |      |
| Endrin             | 0.00250                   | 0.00271                    | 108             | 0.44     | 40               | 28 - 148 |      |
| Methoxychlor       | 0.00250                   | 0.00307                    | 123             | 1.2      | 29               | 13 - 154 |      |

## NOTES (S) :

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

## SW846 8081A METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DPFF11AA

674

51

Lab Name: Severn Trent Laboratories, Inc.,

Lab Code: QESPIT

Lab File ID: D-A8171.d

Matrix: SOLID

SDG Number:

Lot Number: C0J310200

Extraction Method: 1311/3510

Date Extracted: 11/06/00

Date Analyzed(1): 11/07/00

Date Analyzed(2): N/A

Time Analyzed(1): 11:11

Time Analyzed(2): N/A

Instrument ID(1): G/H

Instrument ID(2): N/A

GC Column(1): DB608/1701 ID: 053 GC Column(2): N/A ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

|    | CLIENT ID.           | SAMPLE<br>WORK ORDER # | DATE<br>ANALYZED (1) | DATE<br>ANALYZED (2) |
|----|----------------------|------------------------|----------------------|----------------------|
|    | =====                | =====                  | =====                | =====                |
| 01 | DF/24-A/0304/CVS/008 | DN4P61AE               | 11/07/00             | N/A                  |
| 02 | DF/24-A/0304/CVS/008 | DN4P61CN S             | 11/07/00             | N/A                  |
| 03 | DF/24-A/0304/CVS/008 | DN4P61CP D             | 11/07/00             | N/A                  |
| 04 | DF/24-A/0304/CVS/010 | DN4QJ1AE               | 11/07/00             | N/A                  |
| 05 | DF/24-A/0304/CVS/012 | DN4QK1AE               | 11/07/00             | N/A                  |
| 06 | CHECK SAMPLE         | DPFF11AC C             | 11/07/00             | N/A                  |
| 07 |                      |                        |                      |                      |
| 08 |                      |                        |                      |                      |
| 09 |                      |                        |                      |                      |
| 10 |                      |                        |                      |                      |
| 11 |                      |                        |                      |                      |
| 12 |                      |                        |                      |                      |
| 13 |                      |                        |                      |                      |
| 14 |                      |                        |                      |                      |
| 15 |                      |                        |                      |                      |
| 16 |                      |                        |                      |                      |
| 17 |                      |                        |                      |                      |
| 18 |                      |                        |                      |                      |
| 19 |                      |                        |                      |                      |
| 20 |                      |                        |                      |                      |

COMMENTS:

FORM IV



UXB INTERNATIONAL  
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COK060000 599

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 10/31/00

Work Order: DPFF11AA

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/07/00

Moisture %: NA

QC Batch: 0311599

Client Sample Id: INTRA-LAB BLANK

| CAS NO.   | COMPOUND              | CONCENTRATION UNITS: |   |
|-----------|-----------------------|----------------------|---|
|           |                       | (ug/L or ug/kg) mg/L | Q |
| 57-74-9   | Chlordane (technical) | 0.0050               | U |
| 72-20-8   | Endrin                | 0.00050              | U |
| 76-44-8   | Heptachlor            | 0.00050              | U |
| 1024-57-3 | Heptachlor epoxide    | 0.00050              | U |
| 58-89-9   | Lindane               | 0.00050              | U |
| 72-43-5   | Methoxychlor          | 0.0010               | U |
| 8001-35-2 | Toxaphene             | 0.020                | U |

## HERBICIDE SUMMARY

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UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 10/31/00

Work Order: DN4P61AF

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/08/00

Moisture %: 16

QC Batch: 0311597

Client Sample Id: DF/24-A/0304/CVS/008

|         |                   | CONCENTRATION UNITS: |   |
|---------|-------------------|----------------------|---|
| CAS NO. | COMPOUND          | (ug/L or ug/kg) mg/L | Q |
| 94-75-7 | 2,4-D             | 0.040                | U |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.010                | U |

FORM I

UXB INTERNATIONAL  
MATRIX SPIKE COMPOUNDS

674

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Lab Name: Severn Trent Laboratories, Inc. SDG Number:  
Matrix: (soil/water) SOLID Lab Sample ID: C0J310200 001  
Method: SW846 8151A  
Herbicides (8151A)  
Sample WT/Vol: 100 / mL Date Received: 10/31/00  
Work Order: DN4P61CL Date Extracted: 11/06/00  
Dilution factor: 1 Date Analyzed: 11/08/00  
Moisture %: 16 QC Batch: 0311597  
Client Sample Id: DF/24-A/0304/CVS/008

| CAS NO. | COMPOUND          | CONCENTRATION UNITS: |   |
|---------|-------------------|----------------------|---|
|         |                   | (ug/L or ug/kg) mg/L | Q |
| 94-75-7 | 2,4-D             | 0.118                |   |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.0304               |   |

FORM I

674

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UXB INTERNATIONAL  
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 10/31/00

Work Order: DN4P61CM

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/08/00

Moisture %: 16

QC Batch: 0311597

Client Sample Id: DF/24-A/0304/CVS/008

| CAS NO. | COMPOUND          | CONCENTRATION UNITS: |   |
|---------|-------------------|----------------------|---|
|         |                   | (ug/L or ug/kg) mg/L | Q |
| 94-75-7 | 2,4-D             | 0.125                |   |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.0319               |   |

FORM I

Lab Name: Severn Trent Laboratories, Inc. , SDG Number:

Matrix: (soil/water) SOLID  
Method: SW846 8151A  
Herbicides (8151A)

Lab Sample ID: C0J310200 002

Sample WT/Vol: 100 / mL  
Work Order: DN4QJ1AF  
Dilution factor: 1  
Moisture %: 13

Date Received: 10/31/00  
Date Extracted: 11/06/00  
Date Analyzed: 11/08/00

QC Batch: 0311597

Client Sample Id: DF/24-A/0304/CVS/010

| CAS NO. | COMPOUND          | CONCENTRATION UNITS: |   |
|---------|-------------------|----------------------|---|
|         |                   | (ug/L or ug/kg) mg/L | Q |
| 94-75-7 | 2,4-D             | 0.040                | U |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.010                | U |

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UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 003

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 10/31/00

Work Order: DN4QK1AF

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/08/00

Moisture %: 17

QC Batch: 0311597

Client Sample Id: DF/24-A/0304/CVS/012

|         |                   | CONCENTRATION UNITS: |   |
|---------|-------------------|----------------------|---|
| CAS NO. | COMPOUND          | (ug/L or ug/kg) mg/L | Q |
| 94-75-7 | 2,4-D             | 0.040                | U |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.010                | U |

FORM I

UXB INTERNATIONAL  
CHECK SAMPLE COMPOUNDS

674

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Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID  
Method: SW846 8151A  
Herbicides (8151A)

Lab Sample ID: C0K060000 597

Sample WT/Vol: 100 / mL  
Work Order: DPFF01AC  
Dilution factor: 1  
Moisture %: NA

Date Received: 10/31/00  
Date Extracted: 11/06/00  
Date Analyzed: 11/08/00

QC Batch: 0311597

Client Sample Id: CHECK SAMPLE

| CAS NO. | COMPOUND          | CONCENTRATION UNITS: |   |
|---------|-------------------|----------------------|---|
|         |                   | (ug/L or ug/kg) mg/L | Q |
| 94-75-7 | 2,4-D             | 0.107                |   |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.0287               |   |

FORM I



674

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SW846 8151A SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0J310200

|    | CLIENT ID.             | SRG01 | TOT OUT |
|----|------------------------|-------|---------|
|    | =====                  | ===== | =====   |
| 01 | DF/24-A/0304/CVS/008   | 50    | 00      |
| 02 | DF/24-A/0304/CVS/010   | 55    | 00      |
| 03 | DF/24-A/0304/CVS/012   | 69    | 00      |
| 04 | METHOD BLK. DPFF01AA   | 83    | 00      |
| 05 | LCS DPFF01AC           | 79    | 00      |
| 06 | DF/24-A/0304/CVS/008 D | 64    | 00      |
| 07 | DF/24-A/0304/CVS/008 S | 71    | 00      |

SURROGATES  
SRG01 = DCAA

QC LIMITS  
( 42-125)

- # Column to be used to flag recovery values
- \* Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

## SW846 8151A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

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Lab Code: QESPIT

SDG No:

Lot #: C0K060000

WO #: DPFF01AC

BATCH: 0311597

| COMPOUND          | SPIKE<br>ADDED<br>(mg/L ) | SAMPLE<br>CONCENT.<br>(mg/L ) | %<br>REC | QC<br>LIMITS<br>REC | QUAL |
|-------------------|---------------------------|-------------------------------|----------|---------------------|------|
| 2,4-D             | 0.160                     | 0.107                         | 67       | 28 - 136            |      |
| 2,4,5-TP (Silvex) | 0.0400                    | 0.0287                        | 72       | 50 - 128            |      |

NOTES(S) :

\* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

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SWR46\_8151A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0304/CSV/008

Lot #: C0J310200

WO #: DN4P61CL.

BATCH: 0311597

| COMPOUND          | SPIKE<br>ADDED<br>(mg/L ) | SAMPLE<br>CONCENT.<br>(mg/L ) | MS<br>CONCENT.<br>(mg/L ) | MS<br>%<br>REC | LIMITS<br>REC | QUAL |
|-------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|------|
| 2,4,5-TP (Silvex) | 0.0400                    | ND                            | 0.0304                    | 76             | 50 - 131      |      |
| 2,4-D             | 0.160                     | ND                            | 0.118                     | 74             | 35 - 133      |      |

NOTES(S):

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

RPD: 0 out of 0 outside limits  
 Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

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Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0304/CVS/008

Lot #: C0J310200

WO #: DN4P61CM

BATCH: 0311597

| COMPOUND          | SPIKE            | MSD                 | MSD      | QC LIMITS |             | QUAL |
|-------------------|------------------|---------------------|----------|-----------|-------------|------|
|                   | ADDED<br>(mg/L ) | CONCENT.<br>(mg/L ) | %<br>REC | %<br>RPD  | RPD REC     |      |
| 2,4-D             | 0.160            | 0.125               | 78       | 5.1       | 20 35 - 133 |      |
| 2,4,5-TP (Silvex) | 0.0400           | 0.0319              | 80       | 4.6       | 20 50 - 131 |      |

## NOTES (S) :

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 2 outside limitsSpike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

674 64

SW846 8151A METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DPFF01AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

Lab File ID: A-B80019.

Matrix: SOLID

SDG Number:

Lot Number: C0J310200

Extraction Method:

Date Extracted: 11/06/00

Date Analyzed(1): 11/08/00

Date Analyzed(2): N/A

Time Analyzed(1): 12:19

Time Analyzed(2): N/A

Instrument ID(1): A/B

Instrument ID(2): N/A

GC Column(1). DB5/DB1701 ID: 053 GC Column(2): N/A ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

|    | CLIENT ID.           | SAMPLE<br>WORK ORDER # | DATE<br>ANALYZED (1) | DATE<br>ANALYZED (2) |
|----|----------------------|------------------------|----------------------|----------------------|
| 01 | DF/24-A/0304/CVS/008 | DN4P61AF               | 11/08/00             | N/A                  |
| 02 | DF/24-A/0304/CVS/008 | DN4P61CL S             | 11/08/00             | N/A                  |
| 03 | DF/24-A/0304/CVS/008 | DN4P61CM D             | 11/08/00             | N/A                  |
| 04 | DF/24-A/0304/CVS/010 | DN4QJ1AF               | 11/08/00             | N/A                  |
| 05 | DF/24-A/0304/CVS/012 | DN4QK1AF               | 11/08/00             | N/A                  |
| 06 | CHECK SAMPLE         | DPFF01AC C             | 11/08/00             | N/A                  |
| 07 |                      |                        |                      |                      |
| 08 |                      |                        |                      |                      |
| 09 |                      |                        |                      |                      |
| 10 |                      |                        |                      |                      |
| 11 |                      |                        |                      |                      |
| 12 |                      |                        |                      |                      |
| 13 |                      |                        |                      |                      |
| 14 |                      |                        |                      |                      |
| 15 |                      |                        |                      |                      |
| 16 |                      |                        |                      |                      |
| 17 |                      |                        |                      |                      |
| 18 |                      |                        |                      |                      |
| 19 |                      |                        |                      |                      |
| 20 |                      |                        |                      |                      |

COMMENTS:

FORM IV

UXB INTERNATIONAL  
METHOD BLANK COMPOUNDS

674

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Lab Name: Severn Trent Laboratories, Inc. ; SDG Number:

Matrix: (soil/water) SOLID  
Method: SW846 8151A  
Herbicides (8151A)

Lab Sample ID: COK060000 597

Sample WT/Vol: 100 / mL  
Work Order: DPFF01AA  
Dilution factor: 1  
Moisture %: NA

Date Received: 10/31/00  
Date Extracted: 11/06/00  
Date Analyzed: 11/08/00

QC Batch: 0311597

Client Sample Id: INTRA-LAB BLANK

| CAS NO. | COMPOUND          | CONCENTRATION UNITS: |   |
|---------|-------------------|----------------------|---|
|         |                   | (ug/L or ug/kg) mg/L | Q |
| 94-75-7 | 2,4-D             | 0.040                | U |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.010                | U |

FORM I

**METALS SUMMARY**

STL-Pittsburgh  
Metals Data Reporting Form

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Sample Results

Lab Sample ID: DN4P6 Client ID: DF/24-A/0304/CVS/008  
Matrix: Soil Units: mg/kg Prep Date: 11/6/00 Prep Batch: 0311161  
Weight: 0.50 Volume: 50 Percent Moisture: 15.95

| Element | WL/<br>Mass | MDL  | Report<br>Limit | Conc | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|------|-----------------|------|---|----|-------|--------------|--------------|
| Arsenic | 189.04      | 0.31 | 1.2             | 12.5 |   | 1  | ICPST | 11/8/00      | 16:54        |

Comments: Lot #: C0J310200 Sample #: 1

Version 4.10.3

U Result is less than the MDL  
B Result is between MDL and RL

Form 1 Equivalent



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STL-Pittsburgh

## Metals Data Reporting Form

Sample ResultsLab Sample ID: DN4QJClient ID: DF/24-A/0304/CVS/010Matrix: SoilUnits: mg/kgPrep Date: 11/6/00Prep Batch: 0311161Weight: 0.50Volume: 50Percent Moisture: 12.53

| Element | WL/<br>Mass | MDL  | Report<br>Limit | Conc | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|------|-----------------|------|---|----|-------|--------------|--------------|
| Arsenic | 189.04      | 0.29 | 1.1             | 12.7 |   | 1  | ICPST | 11/8/00      | 17:10        |

Comments: Lot #: C0J310200 Sample #: 2

Version 4.10.3

U Result is less than the MDL

B Result is between MDL and RL

*Form 1 Equivalent*

## Metals Data Reporting Form

Sample Results

Lab Sample ID: DN4QK Client ID: DF/24-A/0304/CVS/012  
Matrix: Soil Units: mg/kg Prep Date: 11/6/00 Prep Batch: 0311161  
Weight: 0.50 Volume: 50 Percent Moisture: 16.64

| Element | WL/<br>Mass | MDL  | Report<br>Limit | Conc | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|------|-----------------|------|---|----|-------|--------------|--------------|
| Arsenic | 189.04      | 0.31 | 1.2             | 12.5 |   | 1  | ICPST | 11/8/00      | 17:14        |

Comments: Lot #: C0J310200 Sample #: 3

Version 4.10.3

U Result is less than the MDL  
B Result is between MDL and RL

Form 1 Equivalent

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STL-Pittsburgh

## Metals Data Reporting Form

## Initial Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T01108A.ARC

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

| Element | WL/<br>Mass | Report<br>Limit | ICB1<br>11/8/00<br>9:26 AM |   |       |   |       |   |       |   |
|---------|-------------|-----------------|----------------------------|---|-------|---|-------|---|-------|---|
|         |             |                 | Found                      | Q | Found | Q | Found | Q | Found | Q |
| Arsenic | 189.042     | 10              | 2.6                        | U |       |   |       |   |       |   |

## Metals Data Reporting Form

## Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T01108A.ARC

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

| Element | WL/<br>Mass | Report<br>Limit | CCB1<br>11/8/00<br>10:14 AM | CCB2<br>11/8/00<br>11:04 AM | CCB3<br>11/8/00<br>11:53 AM | CCB4<br>11/8/00<br>12:47 PM | CCB5<br>11/8/00<br>1:37 PM |
|---------|-------------|-----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|
|         |             |                 | Found    Q                  | Found    Q                  | Found    Q                  | Found    Q                  | Found    Q                 |
| Arsenic | 189.042     | 10              | 2.6    U                    | 2.6    U                    | 2.6    U                    | 2.6    U                    | 2.6    U                   |

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STL-Pittsburgh

## Metals Data Reporting Form

## Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T01108A.ARC

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

| Element | WL/<br>Mass | Report<br>Limit | CCB6<br>11/8/00<br>2:27 PM | CCB7<br>11/8/00<br>3:07 PM | CCB8<br>11/8/00<br>4:04 PM | CCB9<br>11/8/00<br>4:41 PM | CCB10<br>11/8/00<br>5:31 PM |
|---------|-------------|-----------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|
|         |             |                 | Found    Q                 | Found    Q                 | Found    Q                 | Found    Q                 | Found    Q                  |
| Arsenic | 189.042     | 10              | 2.6    U                   | 2.6    U                   | 2.6    U                   | 2.6    U                   | 2.6    U                    |

## Metals Data Reporting Form

## Preparation Blank Results

Lab Sample ID: DPD8KBMatrix: Soil Units: mg/kg Prep Date: 11/6/00 Prep Batch: 0311161Weight: 0.50 Volume: 50 Percent Moisture: NA

| Element | WL/<br>Mass | MDL  | Report<br>Limit | Conc | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|------|-----------------|------|---|----|-------|--------------|--------------|
| Arsenic | 189.042     | 0.26 | 1.0             | 0.26 | U | 1  | ICPST | 11/8/00      | 16:45        |

Comments: Lot #: C0J310200

Version 4.10 3

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

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STL-Pittsburgh

## Metals Data Reporting Form

## Matrix Spike Sample Results

Spike Sample ID: DN4P6SOriginal Sample ID: DN4P6Client ID: DF/24-A/0304/CVS/008SMatrix: Soil Units: mg/kg Prep Date: 11/6/00 Prep Batch: 0311161Weight: 0.50 Volume: 50 Percent Moisture: 15.95

| Element | WL/<br>Mass | OS<br>Conc | Q | MS<br>Conc | Q | Spike<br>Level | %<br>Rec | OS<br>DF | MS<br>DF | Instr | OS<br>Anal<br>Date | OS<br>Anal<br>Time | MS<br>Anal<br>Date | MS<br>Anal<br>Time |
|---------|-------------|------------|---|------------|---|----------------|----------|----------|----------|-------|--------------------|--------------------|--------------------|--------------------|
| Arsenic | 189.0       | 12.5       |   | 223        |   | 237.95         | 88.2     | 1        | 1        | ICPST | 11/8/00            | 16:54              | 11/8/00            | 17:02              |

Comments: Lot #. C0J310200 Sample #: 1

Version 4.10.3

U Result is less than the MDL

Form 5A Equivalent

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

\* Duplicate analysis RPD was not within limits

**STL-Pittsburgh**  
Metals Data Reporting Form

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**Matrix Spike Duplicate Sample Results**

**Spike Sample ID:** DN4P6D  
**Original Sample ID:** DN4P6 **Client ID:** DF/24-A/0304/CVS/008D  
**Matrix:** Soil **Units:** mg/kg **Prep Date:** 11/6/00 **Prep Batch:** 0311161  
**Weight:** 0.50 **Volume:** 50 **Percent Moisture:** 15.95

| Element | WL/<br>Mass | OS<br>Conc | Q | MSD<br>Conc | Q | Spike<br>Level | %<br>Rec | OS<br>DF | MSD<br>DF | Instr | OS<br>Anal<br>Date | OS<br>Anal<br>Time | MSD<br>Anal<br>Date | MSD<br>Anal<br>Time |
|---------|-------------|------------|---|-------------|---|----------------|----------|----------|-----------|-------|--------------------|--------------------|---------------------|---------------------|
| Arsenic | 189.0       | 12.5       |   | 221         |   | 237.95         | 87.8     | 1        | 1         | ICPST | 11/8/00            | 16:54              | 11/8/00             | 17:06               |

Comments: Lot #: C0J310200 Sample #: 1

Version 4.10.3

- U Result is less than the MDL
- B Result is between MDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- \* Duplicate analysis RPD was not within limits

*Form 5A Equivalent*



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STL-Pittsburgh

## Metals Data Reporting Form

## Laboratory Control Sample Results

Lab Sample ID: DPD8KCMatrix: Soil Units: mg/kg Prep Date: 11/6/00 Prep Batch: 0311161Weight: 0.50 Volume: 50 Percent Moisture: NA

| Element | WL/<br>Mass | Spike<br>Level | Conc | Percent<br>Recovery | Q | Range  | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|----------------|------|---------------------|---|--------|----|-------|--------------|--------------|
| Arsenic | 189.042     | 200            | 201  | 100.7               |   | 80-120 | 1  | ICPST | 11/8/00      | 16:49        |

Comments: Lot #: C0J310200

Version 4.10.3

U Result is less than the MDL  
B Result is between MDL and RL

Form 7 Equivalent

## **TCLP METALS SUMMARY**

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STL-Pittsburgh

## Metals Data Reporting Form

Sample ResultsLab Sample ID: DN4P6TClient ID: DF/24-A/0304/CVS/008Matrix: Water Units: mg/LPrep Date: 11/4/00 Prep Batch: 0309113Weight: NA Volume: 50Percent Moisture: NA

| Element  | WL/<br>Mass | MDL     | Report<br>Limit | Conc   | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|----------|-------------|---------|-----------------|--------|---|----|-------|--------------|--------------|
| Arsenic  | 193.7       | 0.030   | 0.50            | 0.20   | B | 1  | ICP   | 11/5/00      | 9:16         |
| Barium   | 493.41      | 0.00041 | 10.0            | 0.28   | B | 1  | ICP   | 11/5/00      | 9:16         |
| Cadmium  | 228.80      | 0.0028  | 0.10            | 0.0028 | U | 1  | ICP   | 11/5/00      | 9:16         |
| Chromium | 267.72      | 0.0038  | 0.50            | 0.0038 | U | 1  | ICP   | 11/5/00      | 9:16         |
| Lead     | 220.35      | 0.025   | 0.50            | 0.025  | U | 1  | ICP   | 11/5/00      | 9:16         |
| Selenium | 196.03      | 0.067   | 0.25            | 0.067  | U | 1  | ICP   | 11/5/00      | 9:16         |
| Silver   | 328.07      | 0.0031  | 0.50            | 0.0031 | U | 1  | ICP   | 11/5/00      | 9:16         |

Comments: Lot#: C0J310200 Sample#: 1 TCLP ANALYSIS

Version 4.10.2

U Result is less than the MDL

Form 1 Equivalent

B Result is between MDL and RL

## Metals Data Reporting Form

Sample Results

Lab Sample ID: DN4QJT Client ID: DF/24-A/0304/CVS/010  
Matrix: Water Units: mg/L Prep Date: 11/4/00 Prep Batch: 0309113  
Weight: NA Volume: 50 Percent Moisture: NA

| Element  | WL/<br>Mass | MDL     | Report<br>Limit | Conc   | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|----------|-------------|---------|-----------------|--------|---|----|-------|--------------|--------------|
| Arsenic  | 193.7       | 0.030   | 0.50            | 0.17   | B | 1  | ICP   | 11/5/00      | 9:28         |
| Barium   | 493.41      | 0.00041 | 10.0            | 1.0    | B | 1  | ICP   | 11/5/00      | 9:28         |
| Cadmium  | 228.80      | 0.0028  | 0.10            | 0.0039 | B | 1  | ICP   | 11/5/00      | 9:28         |
| Chromium | 267.72      | 0.0038  | 0.50            | 0.0059 | B | 1  | ICP   | 11/5/00      | 9:28         |
| Lead     | 220.35      | 0.025   | 0.50            | 0.025  | U | 1  | ICP   | 11/5/00      | 9:28         |
| Selenium | 196.03      | 0.067   | 0.25            | 0.067  | U | 1  | ICP   | 11/5/00      | 9:28         |
| Silver   | 328.07      | 0.0031  | 0.50            | 0.0031 | U | 1  | ICP   | 11/5/00      | 9:28         |

Comments: Lot#: C0J310200 Sample#: 2 TCLP ANALYSIS

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 1 Equivalent

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## Metals Data Reporting Form

Sample ResultsLab Sample ID: DN4QKTClient ID: DF/24-A/0304/CVS/012Matrix: WaterUnits: mg/LPrep Date: 11/4/00Prep Batch: 0309113Weight: NAVolume: 50Percent Moisture: NA

| Element  | WL/<br>Mass | MDL     | Report<br>Limit | Conc   | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|----------|-------------|---------|-----------------|--------|---|----|-------|--------------|--------------|
| Arsenic  | 193.7       | 0.030   | 0.50            | 0.21   | B | 1  | ICP   | 11/5/00      | 9:38         |
| Barium   | 493.41      | 0.00041 | 10.0            | 0.66   | B | 1  | ICP   | 11/5/00      | 9:38         |
| Cadmium  | 228.80      | 0.0028  | 0.10            | 0.0028 | U | 1  | ICP   | 11/5/00      | 9:38         |
| Chromium | 267.72      | 0.0038  | 0.50            | 0.0038 | U | 1  | ICP   | 11/5/00      | 9:38         |
| Lead     | 220.35      | 0.025   | 0.50            | 0.025  | U | 1  | ICP   | 11/5/00      | 9:38         |
| Selenium | 196.03      | 0.067   | 0.25            | 0.067  | U | 1  | ICP   | 11/5/00      | 9:38         |
| Silver   | 328.07      | 0.0031  | 0.50            | 0.0031 | U | 1  | ICP   | 11/5/00      | 9:38         |

Comments: Lot#: C0J310200 Sample#: 3 TCLP ANALYSIS

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 1 Equivalent

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: DN4P6T Client ID: DF/24-A/0304/CVS/008  
Matrix: Water Units: mg/L Prep Date: 11/6/00 Prep Batch: 0310101  
Weight: NA Volume: 100 Percent Moisture: NA

| Element | WL/<br>Mass | MDL      | Report<br>Limit | Conc     | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|----------|-----------------|----------|---|----|-------|--------------|--------------|
| Mercury | 253.7       | 0.000045 | 0.00020         | 0.000084 | B | 1  | CVAA  | 11/6/00      | 9:02         |

Comments: Lot#: C0J310200 Sample#: 1 TCLP ANALYSIS

Version 4.10.2

U Result is less than the MDL

Form 1 Equivalent

B Result is between MDL and RL

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## Metals Data Reporting Form

## Sample Results

Lab Sample ID: DN4QJT Client ID: DF/24-A/0304/CVS/010  
Matrix: Water Units: mg/L Prep Date: 11/6/00 Prep Batch: 0310101  
Weight: NA Volume: 100 Percent Moisture: NA

| Element | WL/<br>Mass | MDL      | Report<br>Limit | Conc     | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|----------|-----------------|----------|---|----|-------|--------------|--------------|
| Mercury | 253.7       | 0.000045 | 0.00020         | 0.000064 | B | 1  | CVAA  | 11/6/00      | 9:07         |

Comments Lot#: C0J310200 Sample#. 2 TCLP ANALYSIS

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 1 Equivalent

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: DN4QKT Client ID: DF/24-A/0304/CVS/012  
Matrix: Water Units: mg/L Prep Date: 11/6/00 Prep Batch: 0310101  
Weight: NA Volume: 100 Percent Moisture: NA

| Element | WL/<br>Mass | MDL      | Report<br>Limit | Conc     | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|----------|-----------------|----------|---|----|-------|--------------|--------------|
| Mercury | 253.7       | 0.000045 | 0.00020         | 0.000045 | U | 1  | CVAA  | 11/6/00      | 9:09         |

Comments: Lot#: C0J310200 Sample#: 3 TCLP ANALYSIS

Version 4.10.2

U Result is less than the MDL  
B Result is between MDL and RL

Form 1 Equivalent



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## Metals Data Reporting Form

## Initial Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 1106HGA.PRN

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

| Element | WL/<br>Mass | Report<br>Limit | ICB1<br>11/6/00<br>8.46 AM |   |       |   |       |   |       |   |
|---------|-------------|-----------------|----------------------------|---|-------|---|-------|---|-------|---|
|         |             |                 | Found                      | Q | Found | Q | Found | Q | Found | Q |
| Mercury | 253.7       | 0.2             | 0.1                        | B |       |   |       |   |       |   |

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Metals Data Reporting Form

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Initial Calibration Blank Results

Instrument: ICP

Units: ug/L

Chart Number: J01105A.ARC

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

| Element  | WL/<br>Mass | Report<br>Limit | ICB1<br>11/5/00<br>8:55 AM |   | Found | Q | Found | Q | Found | Q | Found | Q | Found | Q |
|----------|-------------|-----------------|----------------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|
|          |             |                 | Found                      | Q |       |   |       |   |       |   |       |   |       |   |
| Arsenic  | 193.696     | 500             | 33.6                       | B |       |   |       |   |       |   |       |   |       |   |
| Barium   | 493.409     | 10000           | 0.4                        | U |       |   |       |   |       |   |       |   |       |   |
| Cadmium  | 228.802     | 100             | 2.8                        | U |       |   |       |   |       |   |       |   |       |   |
| Chromium | 267.716     | 500             | 3.8                        | U |       |   |       |   |       |   |       |   |       |   |
| Lead     | 220.353     | 500             | 24.6                       | U |       |   |       |   |       |   |       |   |       |   |
| Selenium | 196.026     | 250             | 67.4                       | U |       |   |       |   |       |   |       |   |       |   |
| Silver   | 328.068     | 500             | 3.2                        | B |       |   |       |   |       |   |       |   |       |   |

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## Metals Data Reporting Form

## Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 1106HGA.PRN

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

| Element | WL/<br>Mass | Report<br>Limit | CCB1<br>11/6/00<br>8:51 AM | CCB2<br>11/6/00<br>9:12 AM |            |            |            |
|---------|-------------|-----------------|----------------------------|----------------------------|------------|------------|------------|
|         |             |                 | Found    Q                 | Found    Q                 | Found    Q | Found    Q | Found    Q |
| Mercury | 253.7       | 0.2             | 0.1    B                   | 0.1    B                   |            |            |            |

## Metals Data Reporting Form

## Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J01105A.ARC

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

| Element  | WL/<br>Mass | Report<br>Limit | CCB1<br>11/5/00<br>9:35 AM |   | CCB2<br>11/5/00<br>10:07 AM |   |       |   |       |   |
|----------|-------------|-----------------|----------------------------|---|-----------------------------|---|-------|---|-------|---|
|          |             |                 | Found                      | Q | Found                       | Q | Found | Q | Found | Q |
| Arsenic  | 193.696     | 500             | 45.8                       | B | 53.0                        | B |       |   |       |   |
| Barium   | 493.409     | 10000           | 0.4                        | U | 0.4                         | U |       |   |       |   |
| Cadmium  | 228.802     | 100             | 2.8                        | U | 2.8                         | U |       |   |       |   |
| Chromium | 267.716     | 500             | 3.8                        | U | 3.8                         | U |       |   |       |   |
| Lead     | 220.353     | 500             | 24.6                       | U | 24.6                        | U |       |   |       |   |
| Selenium | 196.026     | 250             | 67.4                       | U | 67.4                        | U |       |   |       |   |
| Silver   | 328.068     | 500             | 3.1                        | U | 3.1                         | U |       |   |       |   |

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## Metals Data Reporting Form

## Preparation Blank Results

Lab Sample ID: DPAMLBTMatrix: Water Units: mg/L Prep Date: 11/4/00 Prep Batch: 0309113Weight: NA Volume: 50 Percent Moisture: NA

| Element  | WL/<br>Mass | MDL     | Report<br>Limit | Conc   | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|----------|-------------|---------|-----------------|--------|---|----|-------|--------------|--------------|
| Arsenic  | 193.696     | 0.030   | 0.50            | 0.16   | B | 1  | ICP   | 11/5/00      | 9:06         |
| Barium   | 493.409     | 0.00041 | 10.0            | 0.0010 | B | 1  | ICP   | 11/5/00      | 9:06         |
| Cadmium  | 228.802     | 0.0028  | 0.10            | 0.0028 | U | 1  | ICP   | 11/5/00      | 9:06         |
| Chromium | 267.716     | 0.0038  | 0.50            | 0.0038 | U | 1  | ICP   | 11/5/00      | 9:06         |
| Lead     | 220.353     | 0.025   | 0.50            | 0.040  | B | 1  | ICP   | 11/5/00      | 9:06         |
| Selenium | 196.026     | 0.067   | 0.25            | 0.067  | U | 1  | ICP   | 11/5/00      | 9:06         |
| Silver   | 328.068     | 0.0031  | 0.50            | 0.0031 | U | 1  | ICP   | 11/5/00      | 9:06         |

Comments: \_\_\_\_\_

Version 4 10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

## Metals Data Reporting Form

## Preparation Blank Results

Lab Sample ID: DPC5HBTMatrix: Water Units: mg/L Prep Date: 11/4/00 Prep Batch: 0309113Weight: NA Volume: 50 Percent Moisture: NA

| Element  | WL/<br>Mass | MDL     | Report<br>Limit | Conc    | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|----------|-------------|---------|-----------------|---------|---|----|-------|--------------|--------------|
| Arsenic  | 193.696     | 0.030   | 0.50            | 0.039   | B | 1  | ICP   | 11/5/00      | 9:10         |
| Barium   | 493.409     | 0.00041 | 10.0            | 0.00041 | U | 1  | ICP   | 11/5/00      | 9:10         |
| Cadmium  | 228.802     | 0.0028  | 0.10            | 0.0028  | U | 1  | ICP   | 11/5/00      | 9:10         |
| Chromium | 267.716     | 0.0038  | 0.50            | 0.0038  | U | 1  | ICP   | 11/5/00      | 9:10         |
| Lead     | 220.353     | 0.025   | 0.50            | 0.025   | U | 1  | ICP   | 11/5/00      | 9:10         |
| Selenium | 196.026     | 0.067   | 0.25            | 0.067   | U | 1  | ICP   | 11/5/00      | 9:10         |
| Silver   | 328.068     | 0.0031  | 0.50            | 0.0031  | U | 1  | ICP   | 11/5/00      | 9:10         |

Comments: \_\_\_\_\_

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

## Metals Data Reporting Form

## Preparation Blank Results

Lab Sample ID: DPAMLBTMatrix: Water Units: mg/L Prep Date: 11/6/00 Prep Batch: 0310101Weight: NA Volume: 100 Percent Moisture: NA

| Element | WL/<br>Mass | MDL      | Report<br>Limit | Conc     | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|----------|-----------------|----------|---|----|-------|--------------|--------------|
| Mercury | 253.7       | 0.000045 | 0.00020         | 0.000093 | B | 1  | CVAA  | 11/6/00      | 8:57         |

Comments: \_\_\_\_\_

## Metals Data Reporting Form

## Preparation Blank Results

Lab Sample ID: DPD32BTMatrix: Water Units: mg/L Prep Date: 11/6/00 Prep Batch: 0310101Weight: NA Volume: 100 Percent Moisture: NA

| Element | WL/<br>Mass | MDL      | Report<br>Limit | Conc    | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|----------|-----------------|---------|---|----|-------|--------------|--------------|
| Mercury | 253.7       | 0.000045 | 0.00020         | 0.00016 | B | 1  | CVAA  | 11/6/00      | 8:53         |

Comments: \_\_\_\_\_



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## Metals Data Reporting Form

## Matrix Spike Sample Results

Spike Sample ID: DN4P6ST

Original Sample ID: DN4P6T

Client ID: DF/24-A/0304/CVS/008S

Matrix: Water Units: mg/L Prep Date: 11/4/00 Prep Batch: 0309113

Weight: NA Volume: 50 Percent Moisture: NA

| Element  | WL/<br>Mass | OS<br>Conc | Q | MS<br>Conc | Q | Spike<br>Level | %<br>Rec | OS<br>DF | MS<br>DF | Instr | OS<br>Anal<br>Date | OS<br>Anal<br>Time | MS<br>Anal<br>Date | MS<br>Anal<br>Time |
|----------|-------------|------------|---|------------|---|----------------|----------|----------|----------|-------|--------------------|--------------------|--------------------|--------------------|
| Arsenic  | 193.7       | 0.20       | B | 5.2        |   | 5              | 100.1    | 1        | 1        | ICP   | 11/5/00            | 9:16               | 11/5/00            | 9:22               |
| Barium   | 493.4       | 0.28       | B | 45.4       |   | 50             | 90.3     | 1        | 1        | ICP   | 11/5/00            | 9:16               | 11/5/00            | 9:22               |
| Cadmium  | 228.8       | 0.0028     | U | 0.96       |   | 1              | 95.5     | 1        | 1        | ICP   | 11/5/00            | 9:16               | 11/5/00            | 9:22               |
| Chromium | 267.7       | 0.0038     | U | 4.6        |   | 5              | 91.8     | 1        | 1        | ICP   | 11/5/00            | 9:16               | 11/5/00            | 9:22               |
| Lead     | 220.4       | 0.025      | U | 4.7        |   | 5              | 93.5     | 1        | 1        | ICP   | 11/5/00            | 9:16               | 11/5/00            | 9:22               |
| Selenium | 196.0       | 0.067      | U | 1.1        |   | 1              | 105.7    | 1        | 1        | ICP   | 11/5/00            | 9:16               | 11/5/00            | 9:22               |
| Silver   | 328.1       | 0.0031     | U | 0.93       |   | 1              | 93.4     | 1        | 1        | ICP   | 11/5/00            | 9:16               | 11/5/00            | 9:22               |

Comments:

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

\* Duplicate analysis RPD was not within limits

Form 5A Equivalent

## Metals Data Reporting Form

## Matrix Spike Duplicate Sample Results

Spike Sample ID: DN4P6DTOriginal Sample ID: DN4P6T Client ID: DF/24-A/0304/CVS/008DMatrix: Water Units: mg/L Prep Date: 11/4/00 Prep Batch: 0309113Weight: NA Volume: 50 Percent Moisture: NA

| Element  | WL/<br>Mass | OS<br>Conc | Q | MSD<br>Conc | Q | Spike<br>Level | %<br>Rec | OS<br>DF | MSD<br>DF | Instr | OS<br>Anal<br>Date | OS<br>Anal<br>Time | MSD<br>Anal<br>Date | MSD<br>Anal<br>Time |
|----------|-------------|------------|---|-------------|---|----------------|----------|----------|-----------|-------|--------------------|--------------------|---------------------|---------------------|
| Arsenic  | 193.7       | 0.20       | B | 5.2         |   | 5              | 99.5     | 1        | 1         | ICP   | 11/5/00            | 9:16               | 11/5/00             | 9:25                |
| Barium   | 493.4       | 0.28       | B | 45.5        |   | 50             | 90.4     | 1        | 1         | ICP   | 11/5/00            | 9:16               | 11/5/00             | 9:25                |
| Cadmium  | 228.8       | 0.0028     | U | 0.96        |   | 1              | 96.4     | 1        | 1         | ICP   | 11/5/00            | 9:16               | 11/5/00             | 9:25                |
| Chromium | 267.7       | 0.0038     | U | 4.6         |   | 5              | 92.7     | 1        | 1         | ICP   | 11/5/00            | 9:16               | 11/5/00             | 9:25                |
| Lead     | 220.4       | 0.025      | U | 4.7         |   | 5              | 94.3     | 1        | 1         | ICP   | 11/5/00            | 9:16               | 11/5/00             | 9:25                |
| Selenium | 196.0       | 0.067      | U | 1.1         |   | 1              | 108.4    | 1        | 1         | ICP   | 11/5/00            | 9:16               | 11/5/00             | 9:25                |
| Silver   | 328.1       | 0.0031     | U | 0.95        |   | 1              | 94.5     | 1        | 1         | ICP   | 11/5/00            | 9:16               | 11/5/00             | 9:25                |

Comments: \_\_\_\_\_

Version 4.10.2

U Result is less than the MDL

Form 5A Equivalent

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

\* Duplicate analysis RPD was not within limits

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## Metals Data Reporting Form

## Matrix Spike Sample Results

Spike Sample ID: DN4P6ST

Original Sample ID: DN4P6T

Client ID: DF/24-A/0304/CVS/008S

Matrix: Water

Units: mg/L

Prep Date: 11/6/00

Prep Batch: 0310101

Weight: NA

Volume: 100

Percent Moisture: NA

| Element | WL/<br>Mass | OS<br>Conc | Q | MS<br>Conc | Q | Spike<br>Level | %<br>Rec | OS<br>DF | MS<br>DF | Instr | OS<br>Anal<br>Date | OS<br>Anal<br>Time | MS<br>Anal<br>Date | MS<br>Anal<br>Time |
|---------|-------------|------------|---|------------|---|----------------|----------|----------|----------|-------|--------------------|--------------------|--------------------|--------------------|
| Mercury | 253.7       | 0.000084   | B | 0.0052     |   | 0.005          | 102.7    | 1        | 1        | CVAA  | 11/6/00            | 9:02               | 11/6/00            | 9:03               |

Comments:

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

\* Duplicate analysis RPD was not within limits

Form SA Equivalent

## Metals Data Reporting Form

## Matrix Spike Duplicate Sample Results

Spike Sample ID: DN4P6DTOriginal Sample ID: DN4P6T Client ID: DF/24-A/0304/CVS/008DMatrix: Water Units: mg/L Prep Date: 11/6/00 Prep Batch: 0310101Weight: NA Volume: 100 Percent Moisture: NA

| Element | WL/<br>Mass | OS<br>Conc | Q | MSD<br>Conc | Q | Spike<br>Level | %<br>Rec | OS<br>DF | MSD<br>DF | Instr | OS<br>Anal<br>Date | OS<br>Anal<br>Time | MSD<br>Anal<br>Date | MSD<br>Anal<br>Time |
|---------|-------------|------------|---|-------------|---|----------------|----------|----------|-----------|-------|--------------------|--------------------|---------------------|---------------------|
| Mercury | 253.7       | 0.000084   | B | 0.0053      |   | 0.005          | 104.1    | 1        | 1         | CVAA  | 11/6/00            | 9:02               | 11/6/00             | 9:05                |

Comments: \_\_\_\_\_

Version 4.10.2

U Result is less than the MDL

Form 5A Equivalent

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

• Duplicate analysis RPD was not within limits

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## Metals Data Reporting Form

## Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DN4P6DTMatrix Spike Sample ID: DN4P6ST Client ID: DF/24-A/0304/CVS/008DMatrix: Water Units: mg/L Prep Date: 11/4/00 Prep Batch: 0309113Weight: NA Volume: 50 Percent Moisture: NA

| Element  | WL/<br>Mass | MS<br>Conc | Q | MSD<br>Conc | Q | RPD   | MS<br>DF | MSD<br>DF | Instr | MS<br>Anal<br>Date | MS<br>Anal<br>Time | MSD<br>Anal<br>Date | MSD<br>Anal<br>Time |
|----------|-------------|------------|---|-------------|---|-------|----------|-----------|-------|--------------------|--------------------|---------------------|---------------------|
| Arsenic  | 193.696     | 5.2        |   | 5.2         |   | 0.6 % | 1        | 1         | ICP   | 11/5/00            | 9:22               | 11/5/00             | 9:25                |
| Barium   | 493.409     | 45.4       |   | 45.5        |   | 0.1 % | 1        | 1         | ICP   | 11/5/00            | 9:22               | 11/5/00             | 9:25                |
| Cadmium  | 228.802     | 0.96       |   | 0.96        |   | 1.0 % | 1        | 1         | ICP   | 11/5/00            | 9:22               | 11/5/00             | 9:25                |
| Chromium | 267.716     | 4.6        |   | 4.6         |   | 0.9 % | 1        | 1         | ICP   | 11/5/00            | 9:22               | 11/5/00             | 9:25                |
| Lead     | 220.353     | 4.7        |   | 4.7         |   | 0.9 % | 1        | 1         | ICP   | 11/5/00            | 9:22               | 11/5/00             | 9:25                |
| Selenium | 196.026     | 1.1        |   | 1.1         |   | 2.5 % | 1        | 1         | ICP   | 11/5/00            | 9:22               | 11/5/00             | 9:25                |
| Silver   | 328.068     | 0.93       |   | 0.95        |   | 1.1 % | 1        | 1         | ICP   | 11/5/00            | 9:22               | 11/5/00             | 9:25                |

Comments: \_\_\_\_\_

Version 4.10.2

U Result is less than the MDL

Form 6 Equivalent

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

\* Duplicate analysis RPD was not within limits

## Metals Data Reporting Form

## Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DN4P6DTMatrix Spike Sample ID: DN4P6ST Client ID: DF/24-A/0304/CVS/008DMatrix: Water Units: mg/L Prep Date: 11/6/00 Prep Batch: 0310101Weight: NA Volume: 100 Percent Moisture: NA

| Element | WL/<br>Mass | MS<br>Conc | Q | MSD<br>Conc | Q | RPD   | MS<br>DF | MSD<br>DF | Instr | MS<br>Anal<br>Date | MS<br>Anal<br>Time | MSD<br>Anal<br>Date | MSD<br>Anal<br>Time |
|---------|-------------|------------|---|-------------|---|-------|----------|-----------|-------|--------------------|--------------------|---------------------|---------------------|
| Mercury | 253.7       | 0.0052     |   | 0.0053      |   | 1.4 % | 1        | 1         | CVAA  | 11/6/00            | 9:03               | 11/6/00             | 9:05                |

Comments: \_\_\_\_\_

Version 4.10.2

U Result is less than the MDL

Form 6 Equivalent

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

\* Duplicate analysis RPD was not within limits

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## STL-Pittsburgh

## Metals Data Reporting Form

## Laboratory Control Sample Results

Lab Sample ID: DPC5HCTMatrix: Water Units: mg/L Prep Date: 11/4/00 Prep Batch: 0309113Weight: NA Volume: 50 Percent Moisture: NA

| Element  | WL/<br>Mass | Spike<br>Level | Conc  | Percent<br>Recovery | Q | Range  | DF | Instr | Anal<br>Date | Anal<br>Time |
|----------|-------------|----------------|-------|---------------------|---|--------|----|-------|--------------|--------------|
| Arsenic  | 193.696     | 2.0            | 2.3   | 114.1               |   | 80-120 | 1  | ICP   | 11/5/00      | 9:13         |
| Barium   | 493.409     | 2.0            | 1.9   | 95.3                | B | 80-120 | 1  | ICP   | 11/5/00      | 9:13         |
| Cadmium  | 228.802     | 0.050          | 0.048 | 95.1                | B | 80-120 | 1  | ICP   | 11/5/00      | 9:13         |
| Chromium | 267.716     | 0.20           | 0.20  | 97.6                | B | 80-120 | 1  | ICP   | 11/5/00      | 9:13         |
| Lead     | 220.353     | 0.50           | 0.48  | 96.0                | B | 80-120 | 1  | ICP   | 11/5/00      | 9:13         |
| Selenium | 196.026     | 2.0            | 2.2   | 110.2               |   | 80-120 | 1  | ICP   | 11/5/00      | 9:13         |
| Silver   | 328.068     | 0.050          | 0.051 | 102.4               | B | 80-120 | 1  | ICP   | 11/5/00      | 9:13         |

Comments: \_\_\_\_\_

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 7 Equivalent

## Metals Data Reporting Form

## Laboratory Control Sample Results

Lab Sample ID: DPD32CTMatrix: Water Units: mg/L Prep Date: 11/6/00 Prep Batch: 0310101Weight: NA Volume: 100 Percent Moisture: NA

| Element | WL/<br>Mass | Spike<br>Level | Conc   | Percent<br>Recovery | Q | Range  | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|----------------|--------|---------------------|---|--------|----|-------|--------------|--------------|
| Mercury | 253.7       | 0.0025         | 0.0027 | 107.6               |   | 80-120 | 1  | CVAA  | 11/6/00      | 8:55         |

Comments: \_\_\_\_\_

Version 4.10.2

U Result is less than the MDL  
B Result is between MDL and RL

Form 7 Equivalent



674 100

## GENERAL CHEMISTRY SUMMARY

## UXB INTERNATIONAL

Client Sample ID: DF/24-A/0304/CVS/008

## General Chemistry

Lot-Sample #....: C0J310200-001      Work Order #....: DN4P6      Matrix.....: SOLID  
 Date Sampled....: 10/30/00      Date Received...: 10/31/00  
 % Moisture.....: 16

| PARAMETER        | RESULT | RL  | UNITS    | METHOD             | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|------------------|--------|-----|----------|--------------------|-------------------------------|-----------------|
| pH               | 4.6    |     | No Units | SW846 9045C        | 10/31/00                      | 0305422         |
|                  |        |     |          | Dilution Factor: 1 | MS Run #.....: 0305232        |                 |
| Ignitability     | NO     | --  | No Units | SW846 SECTION 7.1  | 11/01/00                      | 0306114         |
|                  |        |     |          | Dilution Factor: 1 | MS Run #.....: 0306017        |                 |
| Percent Solids   | 84.1   |     | %        | MCAWW 160.3 MOD    | 11/01-11/02/00                | 0306187         |
|                  |        |     |          | Dilution Factor: 1 | MS Run #.....: 0307054        |                 |
| Reactive Cyanide | ND     | 200 | mg/kg    | SW846 7.3.3        | 11/06-11/07/00                | 0312296         |
|                  |        |     |          | Dilution Factor: 1 | MS Run #.....: 0312124        |                 |
| Reactive Sulfide | ND     | 200 | mg/kg    | SW846 7.3.4        | 11/06/00                      | 0311442         |
|                  |        |     |          | Dilution Factor: 1 | MS Run #.....: 0312010        |                 |

## UXB INTERNATIONAL

Client Sample ID: DF/24-A/0304/CVS/010

## General Chemistry

Lot-Sample #...: C0J310200-002    Work Order #...: DN4QJ    Matrix.....: SOLID  
 Date Sampled...: 10/30/00    Date Received...: 10/31/00  
 % Moisture.....: 13

| PARAMETER        | RESULT | RL  | UNITS              | METHOD                 | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|------------------|--------|-----|--------------------|------------------------|-------------------------------|-----------------|
| pH               | 6.7    |     | No Units           | SW846 9045C            | 10/31/00                      | 0305422         |
|                  |        |     | Dilution Factor: 1 | MS Run #.....: 0305232 |                               |                 |
| Ignitability     | NO     | --  | No Units           | SW846 SECTION 7.1      | 11/01/00                      | 0306114         |
|                  |        |     | Dilution Factor: 1 | MS Run #.....: 0306017 |                               |                 |
| Percent Solids   | 87.5   |     | %                  | MCAWW 160.3 MOD        | 11/01-11/02/00                | 0306187         |
|                  |        |     | Dilution Factor: 1 | MS Run #.....: 0307054 |                               |                 |
| Reactive Cyanide | ND     | 200 | mg/kg              | SW846 7.3.3            | 11/06-11/07/00                | 0312296         |
|                  |        |     | Dilution Factor: 1 | MS Run #.....: 0312124 |                               |                 |
| Reactive Sulfide | ND     | 200 | mg/kg              | SW846 7.3.4            | 11/06/00                      | 0311442         |
|                  |        |     | Dilution Factor: 1 | MS Run #... .: 0312010 |                               |                 |

## UXB INTERNATIONAL

Client Sample ID: DF/24-A/0304/CVS/012

## General Chemistry

Lot-Sample #...: C0J310200-003    Work Order #...: DN4QK    Matrix.....: SOLID  
 Date Sampled...: 10/30/00    Date Received...: 10/31/00  
 % Moisture.....: 17

| PARAMETER        | RESULT | RL  | UNITS              | METHOD                    | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|------------------|--------|-----|--------------------|---------------------------|-------------------------------|-----------------|
| pH               | 6.9    |     | No Units           | SW846 9045C               | 10/31/00                      | 0305422         |
|                  |        |     | Dilution Factor: 1 | MS Run #. . . . : 0305232 |                               |                 |
| Ignitability     | NO     | --  | No Units           | SW846 SECTION 7.1         | 11/01/00                      | 0306114         |
|                  |        |     | Dilution Factor: 1 | MS Run #.....: 0306017    |                               |                 |
| Percent Solids   | 83.4   |     | %                  | MCAWW 160.3 MOD           | 11/01-11/02/00                | 0306187         |
|                  |        |     | Dilution Factor: 1 | MS Run #.....: 0307054    |                               |                 |
| Reactive Cyanide | ND     | 200 | mg/kg              | SW846 7.3.3               | 11/06-11/07/00                | 0312296         |
|                  |        |     | Dilution Factor: 1 | MS Run #.....: 0312124    |                               |                 |
| Reactive Sulfide | ND     | 200 | mg/kg              | SW846 7.3.4               | 11/06/00                      | 0311442         |
|                  |        |     | Dilution Factor: 1 | MS Run #.....: 0312010    |                               |                 |

674 104

METHOD BLANK REPORT

General Chemistry

Client Lot #....: C0J310200

Matrix.....: SOLID

| PARAMETER        | RESULT | REPORTING<br>LIMIT            | UNITS | METHOD                          | PREPARATION-<br>ANALYSIS DATE   | PREP<br>BATCH # |
|------------------|--------|-------------------------------|-------|---------------------------------|---------------------------------|-----------------|
| Reactive Cyanide | ND     | Work Order #: DPF601AA<br>200 | mg/kg | MB Lot-Sample #:<br>SW846 7.3.3 | A0K070000-296<br>11/06-11/07/00 | 0312296         |
|                  |        | Dilution Factor: 1            |       |                                 |                                 |                 |
| Reactive Sulfide | ND     | Work Order #: DPE0D1AA<br>200 | mg/kg | MB Lot-Sample #:<br>SW846 7.3.4 | A0K060000-442<br>11/06/00       | 0311442         |
|                  |        | Dilution Factor: 1            |       |                                 |                                 |                 |

NOTE(S) :

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

## METHOD BLANK REPORT

## General Chemistry

Client Lot #....: C0J310200

Matrix.....: WATER

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u>    | <u>PREPARATION-</u><br><u>ANALYSIS DATE</u> | <u>PREP</u><br><u>BATCH #</u> |
|------------------|---------------|----------------------------------|--------------|------------------|---------------------------------------------|-------------------------------|
| Reactive Sulfide | ND            | Work Order #: DPE0D1AD           |              | MB Lot-Sample #: | A0K060000-442                               |                               |
|                  |               | 200                              | mg/kg        | SW846 7.3.4      | 11/06/00                                    | 0311442                       |
|                  |               | Dilution Factor: 1               |              |                  |                                             |                               |

**NOTE(S) :**

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

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## General Chemistry

Client Lot #....: C0J310200

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u>                                 | <u>METHOD</u>                                 | <u>PREPARATION-<br/>ANALYSIS DATE</u> | <u>PREP<br/>BATCH #</u> |
|------------------|-----------------------------|------------------------------------------------------------|-----------------------------------------------|---------------------------------------|-------------------------|
| pH               | 100                         | Work Order #: DN48E1AA<br>(85 - 115)<br>Dilution Factor: 1 | LCS Lot-Sample#: C0J310000-422<br>SW846 9045C | 10/31/00                              | 0305422                 |

NOTE(S) :

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

# SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

Client Lot #...: C0J310200

Work Order #...: DN4P6-SMP  
DN4P6-DUP

Matrix.....: SOLID

Date Sampled...: 10/30/00

Date Received..: 10/31/00

% Moisture.....: 16

| PARAM          | RESULT | DUPLICATE<br>RESULT | UNITS | RPD  | RPD<br>LIMIT | METHOD                              | PREPARATION-<br>ANALYSIS DATE   | PREP<br>BATCH # |
|----------------|--------|---------------------|-------|------|--------------|-------------------------------------|---------------------------------|-----------------|
| Percent Solids | 84.1   | 83.7                | %     | 0.47 | (0-20)       | SD Lot-Sample #:<br>MCAWW 160.3 MOD | C0J310200-001<br>11/01-11/02/00 | 0306187         |

Dilution Factor: 1

Prep Date... : 0307054 Analysis Date...: Prep Batch #...:

pH

|     |     |              |        |             |          |         |
|-----|-----|--------------|--------|-------------|----------|---------|
| 4.6 | 4.8 | No Units 4.3 | (0-20) | SW846 9045C | 10/31/00 | 0305422 |
|-----|-----|--------------|--------|-------------|----------|---------|

Dilution Factor: 1

Prep Date.. . . .: 030523Z    Analysis Date..                    Prep Batch #. . . :

## Ignitability

No Units 0 (0-0.0) SD Lot-Sample #: C0J310200-001  
SW846 SECTION 7.1 11/01/00 0306114

Dilution Factor: 1

Prep Date.....: 0306017    Analysis Date...:                    Prep Batch # ..





674 109

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: C0J310200      Work Order #....: DN51C-SMP      Matrix.....: SOLID

DN51C-DUP

Date Sampled....: 10/30/00

Date Received...: 10/31/00

% Moisture.....: 100

| PARAM            | RESULT | DUPLICATE<br>RESULT | UNITS | RPD | RPD<br>LIMIT | METHOD      | PREPARATION-<br>ANALYSIS DATE                    | PREP<br>BATCH # |
|------------------|--------|---------------------|-------|-----|--------------|-------------|--------------------------------------------------|-----------------|
| Reactive Cyanide | ND     | ND                  | mg/kg | 0.0 | (0-20)       | SW846 7.3.3 | SD Lot-Sample #: A0K010128-003<br>11/06-11/07/00 | 0312296         |

Dilution Factor: 1

Prep Date.....: 0312124

Analysis Date...

Prep Batch #....:

Reactive Sulfide

SD Lot-Sample #: A0K010128-003

ND      ND

mg/kg      200      (0-20)      SW846 7.3.4

11/06/00

0311442

Dilution Factor: 1

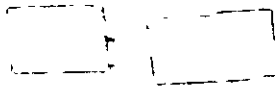
Prep Date... ..: 0312010

Analysis Date...

Prep Batch #. . :

674 110

GC/MS VOLATILE DATA



674 111

**GC/MS VOLATILE  
QC SUMMARY**

674 112

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0K060000

WO #: DPD6Q1AA

BATCH: 0311110

| COMPOUND             | SPIKE<br>ADDED<br>(mg/L ) | SAMPLE<br>CONCENT.<br>(mg/L ) | %<br>REC | QC<br>LIMITS<br>REC | QUAL  |
|----------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| =====                | =====                     | =====                         | =====    | =====               | ===== |
| Benzene              | 0.500                     | 0.438                         | 88       | 79- 116             |       |
| 2-Butanone           | 0.500                     | 0.254                         | 51       | 35- 156             |       |
| Carbon tetrachloride | 0.500                     | 0.505                         | 101      | 72- 133             |       |
| Chlorobenzene        | 0.500                     | 0.460                         | 92       | 81- 115             |       |
| Chloroform           | 0.500                     | 0.477                         | 95       | 81- 122             |       |
| 1,2-Dichloroethane   | 0.500                     | 0.421                         | 84       | 73- 127             |       |
| 1,1-Dichloroethene   | 0.500                     | 0.390                         | 78       | 65- 119             |       |
| Tetrachloroethene    | 0.500                     | 0.454                         | 91       | 78- 131             |       |
| Trichloroethene      | 0.500                     | 0.445                         | 89       | 80- 122             |       |
| Vinyl chloride       | 0.500                     | 0.339                         | 68       | 53- 134             |       |

NOTES (S) :

\* Values outside of QC limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS

FORM III

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0304/CVS/010

Level: (low/med) LOW

Lot #: C0J310200

WO #: DN4QJ1AW

BATCH: 0311110

| COMPOUND             | SPIKE<br>ADDED<br>(mg/L ) | SAMPLE<br>CONCENT.<br>(mg/L ) | MS<br>CONCENT.<br>(mg/L ) | MS<br>%<br>REC | LIMITS<br>REC | QUAL  |
|----------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| =====                | =====                     | =====                         | =====                     | =====          | =====         | ===== |
| Benzene              | 0.500                     | ND                            | 0.446                     | 89             | 73 - 123      |       |
| 2-Butanone           | 0.500                     | ND                            | 0.265                     | 53             | 10 - 151      |       |
| Carbon tetrachloride | 0.500                     | ND                            | 0.508                     | 102            | 61 - 143      |       |
| Chlorobenzene        | 0.500                     | ND                            | 0.468                     | 94             | 70 - 122      |       |
| Chloroform           | 0.500                     | ND                            | 0.487                     | 97             | 65 - 131      |       |
| 1,2-Dichloroethane   | 0.500                     | ND                            | 0.431                     | 86             | 67 - 132      |       |
| 1,1-Dichloroethene   | 0.500                     | ND                            | 0.421                     | 84             | 57 - 138      |       |
| Tetrachloroethene    | 0.500                     | ND                            | 0.463                     | 93             | 70 - 130      |       |
| Trichloroethene      | 0.500                     | ND                            | 0.452                     | 90             | 58 - 141      |       |
| Vinyl chloride       | 0.500                     | ND                            | 0.367                     | 73             | 51 - 133      |       |

NOTES (S) :

# Column to be used to flag recovery and RPD values with an asterisk  
\* Values outside of QC limits

RPD: 0 out of 0 outside limits  
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

674 114

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0304/CVS/010

Level: (low/med) LOW

Lot #: C0J310200

WO #: DN4QJ1AX

BATCH: 0311110

| COMPOUND             | SPIKE<br>ADDED<br>(mg/L ) | MSD<br>CONCENT.<br>(mg/L ) | MSD<br>%<br>REC | %<br>RPD | QC LIMITS |          | QUAL |
|----------------------|---------------------------|----------------------------|-----------------|----------|-----------|----------|------|
|                      |                           |                            |                 |          | RPD       | REC      |      |
| Benzene              | 0.500                     | 0.448                      | 90              | 0.58     | 20        | 73 - 123 |      |
| 2-Butanone           | 0.500                     | 0.252                      | 50              | 5.0      | 34        | 10 - 151 |      |
| Carbon tetrachloride | 0.500                     | 0.506                      | 101             | 0.27     | 20        | 61 - 143 |      |
| Chlorobenzene        | 0.500                     | 0.478                      | 96              | 2.1      | 20        | 70 - 122 |      |
| Chloroform           | 0.500                     | 0.488                      | 98              | 0.12     | 20        | 65 - 131 |      |
| 1,2-Dichloroethane   | 0.500                     | 0.430                      | 86              | 0.44     | 20        | 67 - 132 |      |
| 1,1-Dichloroethene   | 0.500                     | 0.395                      | 79              | 6.4      | 20        | 57 - 138 |      |
| Tetrachloroethene    | 0.500                     | 0.470                      | 94              | 1.4      | 20        | 70 - 130 |      |
| Trichloroethene      | 0.500                     | 0.453                      | 91              | 0.24     | 20        | 58 - 141 |      |
| Vinyl chloride       | 0.500                     | 0.369                      | 74              | 0.65     | 20        | 51 - 133 |      |

NOTES (S) :

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 10 outside limitsSpike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

## SW846 8260B METHOD BLANK SUMMARY

DPC441AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: WB31106.D

Lot Number: C0J310200

Date Analyzed: 11/06/00

Time Analyzed: 06:52

Matrix: SOLID

Date Extracted: 11/06/00

GC Column: ID: .00

Extraction Method: 1311/5030B

Instrument ID: HP3

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

|    | CLIENT ID.           | SAMPLE<br>WORK ORDER # | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|----|----------------------|------------------------|----------------|------------------|------------------|
| 01 | DF/24-A/0304/CVS/008 | DN4P61AC               | 3110601.D      | 11/06/00         | 07:15            |
| 02 | DF/24-A/0304/CVS/010 | DN4QJ1AC               | 3110602.D      | 11/06/00         | 07:37            |
| 03 | DF/24-A/0304/CVS/010 | DN4QJ1AW S             | 3110605.D      | 11/06/00         | 09:16            |
| 04 | DF/24-A/0304/CVS/010 | DN4QJ1AX D             | 3110606.D      | 11/06/00         | 09:39            |
| 05 | DF/24-A/0304/CVS/012 | DN4QK1AC               | 3110603.D      | 11/06/00         | 08:02            |
| 06 | CHECK SAMPLE         | DPD6Q1AA C             | 3110604.D      | 11/06/00         | 08:54            |
| 07 |                      |                        |                |                  |                  |
| 08 |                      |                        |                |                  |                  |
| 09 |                      |                        |                |                  |                  |
| 10 |                      |                        |                |                  |                  |
| 11 |                      |                        |                |                  |                  |
| 12 |                      |                        |                |                  |                  |
| 13 |                      |                        |                |                  |                  |
| 14 |                      |                        |                |                  |                  |
| 15 |                      |                        |                |                  |                  |
| 16 |                      |                        |                |                  |                  |
| 17 |                      |                        |                |                  |                  |
| 18 |                      |                        |                |                  |                  |
| 19 |                      |                        |                |                  |                  |
| 20 |                      |                        |                |                  |                  |
| 21 |                      |                        |                |                  |                  |
| 22 |                      |                        |                |                  |                  |
| 23 |                      |                        |                |                  |                  |
| 24 |                      |                        |                |                  |                  |
| 25 |                      |                        |                |                  |                  |
| 26 |                      |                        |                |                  |                  |
| 27 |                      |                        |                |                  |                  |
| 28 |                      |                        |                |                  |                  |
| 29 |                      |                        |                |                  |                  |
| 30 |                      |                        |                |                  |                  |

COMMENTS:



674 116 5A  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: 30810D

Lab File ID: BF30810

BFB Injection Date: 08/10/00

Instrument ID: HP3

BFB Injection Time: 0630

GC Column: DB624 20M ID: 0.18 (mm)

Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0% of mass 95            | 23.6                 |
| 75  | 30.0 - 60.0% of mass 95            | 44.2                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0% of mass 95              | 6.8                  |
| 173 | Less than 2.0% of mass 174         | 0.0 ( 0.0)1          |
| 174 | 50.0 - 100.0% of mass 95           | 76.4                 |
| 175 | 5.0 - 9.0% of mass 174             | 5.9 ( 7.8)1          |
| 176 | 95.0 - 101.0% of mass 174          | 74.0 ( 96.9)1        |
| 177 | 5.0 - 9.0% of mass 176             | 4.9 ( 6.7)2          |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|------------------|
| 01 | VSTD50            | VSTD50           | CC30810        | 08/10/00         | 0656             |
| 02 | VSTD5             | VSTD5            | 1A30810        | 08/10/00         | 0754             |
| 03 | VSTD20            | VSTD20           | 1B30810        | 08/10/00         | 0817             |
| 04 | VSTD100           | VSTD100          | 1D30810        | 08/10/00         | 0839             |
| 05 | VSTD200           | VSTD200          | 1E30810        | 08/10/00         | 0906             |
| 06 |                   |                  |                |                  |                  |
| 07 |                   |                  |                |                  |                  |
| 08 |                   |                  |                |                  |                  |
| 09 |                   |                  |                |                  |                  |
| 10 |                   |                  |                |                  |                  |
| 11 |                   |                  |                |                  |                  |
| 12 |                   |                  |                |                  |                  |
| 13 |                   |                  |                |                  |                  |
| 14 |                   |                  |                |                  |                  |
| 15 |                   |                  |                |                  |                  |
| 16 |                   |                  |                |                  |                  |
| 17 |                   |                  |                |                  |                  |
| 18 |                   |                  |                |                  |                  |
| 19 |                   |                  |                |                  |                  |
| 20 |                   |                  |                |                  |                  |
| 21 |                   |                  |                |                  |                  |
| 22 |                   |                  |                |                  |                  |

5A  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

674 117

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: COJ310200

Lab File ID: BF31106

BFB Injection Date: 11/06/00

Instrument ID: HP3

BFB Injection Time: 0529

GC Column: DB624 20M ID: 0.18 (mm)

Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0% of mass 95            | 20.0                 |
| 75  | 30.0 - 60.0% of mass 95            | 43.1                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0% of mass 95              | 6.6                  |
| 173 | Less than 2.0% of mass 174         | 0.0 ( 0.0)1          |
| 174 | 50.0 - 100.0% of mass 95           | 77.9                 |
| 175 | 5.0 - 9.0% of mass 174             | 5.9 ( 7.6)1          |
| 176 | 95.0 - 101.0% of mass 174          | 75.5 ( 96.9)1        |
| 177 | 5.0 - 9.0% of mass 176             | 5.0 ( 6.7)2          |

1-Value is % mass 174                      2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|------------------|
| 01 | VSTD50            | VSTD50           | 1C31106        | 11/06/00         | 0621             |
| 02 | INTRA-LAB BL      | DPC441AA         | WB31106        | 11/06/00         | 0652             |
| 03 | DF/24-A/0304      | DN4P61AC         | 3110601        | 11/06/00         | 0715             |
| 04 | DF/24-A/0304      | DN4QJ1AC         | 3110602        | 11/06/00         | 0737             |
| 05 | DF/24-A/0304      | DN4QK1AC         | 3110603        | 11/06/00         | 0802             |
| 06 | INTRA-LAB CH      | DPD6Q1AA         | 3110604        | 11/06/00         | 0854             |
| 07 | DF/24-A/0304      | DN4QJ1AW         | 3110605        | 11/06/00         | 0916             |
| 08 | DF/24-A/0304      | DN4QJ1AX         | 3110606        | 11/06/00         | 0939             |
| 09 |                   |                  |                |                  |                  |
| 10 |                   |                  |                |                  |                  |
| 11 |                   |                  |                |                  |                  |
| 12 |                   |                  |                |                  |                  |
| 13 |                   |                  |                |                  |                  |
| 14 |                   |                  |                |                  |                  |
| 15 |                   |                  |                |                  |                  |
| 16 |                   |                  |                |                  |                  |
| 17 |                   |                  |                |                  |                  |
| 18 |                   |                  |                |                  |                  |
| 19 |                   |                  |                |                  |                  |
| 20 |                   |                  |                |                  |                  |
| 21 |                   |                  |                |                  |                  |
| 22 |                   |                  |                |                  |                  |

674 118 8A

## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C0J310200

Lab File ID (Standard): 1C31106

Date Analyzed: 11/06/00

Instrument ID: HP3

Time Analyzed: 0621

GC Column: DB 624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

|                   | IS1 (CBZ) | RT #  | IS2 (DCB) | RT #  | IS3     | RT #  |
|-------------------|-----------|-------|-----------|-------|---------|-------|
|                   | AREA #    |       | AREA #    |       | AREA #  |       |
| =====             | =====     | ===== | =====     | ===== | =====   | ===== |
| 12 HOUR STD       | 218649    | 9.74  | 373504    | 12.05 | 890656  | 6.60  |
| UPPER LIMIT       | 437298    | 9.94  | 747008    | 12.25 | 1781312 | 6.80  |
| LOWER LIMIT       | 109325    | 9.54  | 186752    | 11.85 | 445328  | 6.40  |
| =====             | =====     | ===== | =====     | ===== | =====   | ===== |
| EPA SAMPLE<br>NO. |           |       |           |       |         |       |
| =====             | =====     | ===== | =====     | ===== | =====   | ===== |
| 01 INTRA-LAB BL   | 213163    | 9.73  | 359334    | 12.05 | 904658  | 6.60  |
| 02 DF/24-A/0304   | 209127    | 9.73  | 353180    | 12.05 | 863817  | 6.60  |
| 03 DF/24-A/0304   | 198770    | 9.74  | 338799    | 12.05 | 843231  | 6.60  |
| 04 DF/24-A/0304   | 209249    | 9.73  | 353677    | 12.05 | 889545  | 6.61  |
| 05 INTRA-LAB CH   | 214796    | 9.74  | 363392    | 12.06 | 876755  | 6.60  |
| 06 DF/24-A/0304   | 214604    | 9.74  | 372969    | 12.05 | 876328  | 6.60  |
| 07 DF/24-A/0304   | 225151    | 9.73  | 373024    | 12.05 | 929416  | 6.61  |
| 08                |           |       |           |       |         |       |
| 09                |           |       |           |       |         |       |
| 10                |           |       |           |       |         |       |
| 11                |           |       |           |       |         |       |
| 12                |           |       |           |       |         |       |
| 13                |           |       |           |       |         |       |
| 14                |           |       |           |       |         |       |
| 15                |           |       |           |       |         |       |
| 16                |           |       |           |       |         |       |
| 17                |           |       |           |       |         |       |
| 18                |           |       |           |       |         |       |
| 19                |           |       |           |       |         |       |
| 20                |           |       |           |       |         |       |
| 21                |           |       |           |       |         |       |
| 22                |           |       |           |       |         |       |

IS1 (CBZ) = Chlorobenzene-d5

IS2 (DCB) = 1,4-Dichlorobenzene-d4

IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.20 minutes of internal standard RT

RT LOWER LIMIT = - 0.20 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

674 119

**GC/MS VOLATILE  
SAMPLE DATA**

674 120

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 10/31/00

Work Order: DN4P61AC

Date Extracted: 11/06/00

Dilution factor: 1

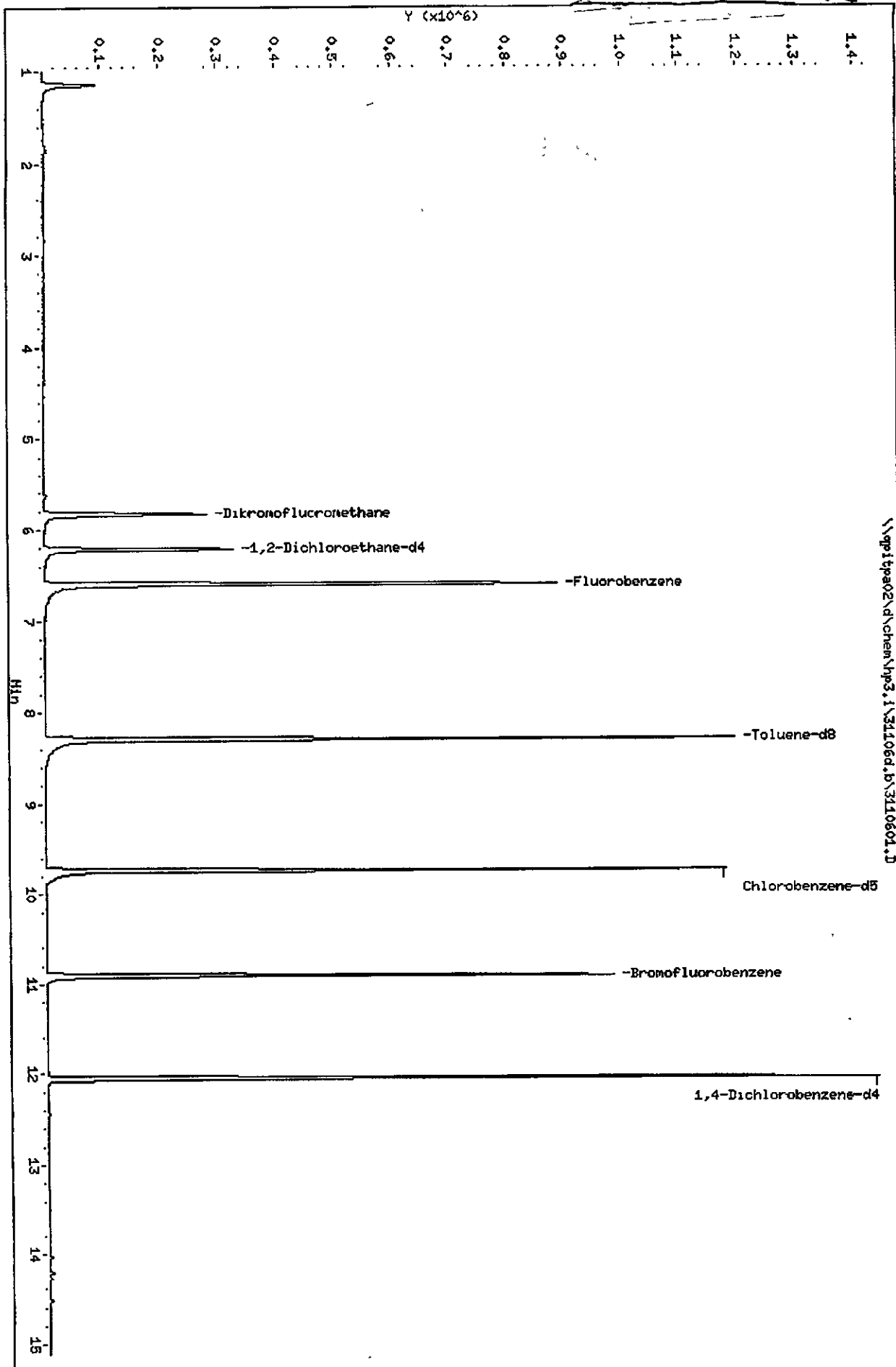
Date Analyzed: 11/06/00

Moisture %: 16

QC Batch: 0311110

Client Sample Id: DF/24-A/0304/CVS/008

| CAS NO.  | COMPOUND             | CONCENTRATION UNITS: |   |
|----------|----------------------|----------------------|---|
|          |                      | (ug/L or ug/kg) mg/L | Q |
| 71-43-2  | Benzene              | 0.050                | U |
| 78-93-3  | 2-Butanone           | 0.050                | U |
| 56-23-5  | Carbon tetrachloride | 0.050                | U |
| 108-90-7 | Chlorobenzene        | 0.050                | U |
| 67-66-3  | Chloroform           | 0.050                | U |
| 107-06-2 | 1,2-Dichloroethane   | 0.050                | U |
| 75-35-4  | 1,1-Dichloroethene   | 0.050                | U |
| 127-18-4 | Tetrachloroethene    | 0.050                | U |
| 79-01-6  | Trichloroethene      | 0.050                | U |
| 75-01-4  | Vinyl chloride       | 0.050                | U |



Data File: \\p1tpa02\chem\hp3.1\31106d.b\3110601.D  
Date: 06-NOV-2000 07:15  
Client ID: MF/24-A/0304/CVS/00  
Sample Info: C0J310200-001 (1ML/10ML)/5HL  
Purge Volume: 5.0  
Column phase: DB 624

Instrument: hp3.1  
Operator: 10099  
Column diameter: 0.18

674 122

Data File: \\qpitpa02\d\chem\hp3.i\31106d.b\3110601.D  
Report Date: 06-Nov-2000 07:58

Page 1

## STL-Pittsburgh

## VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp3.i\31106d.b\3110601.D  
Lab Smp Id: DN4P61AC Client Smp ID: DF/24-A/0304/CSV/00  
Inj Date : 06-NOV-2000 07:15 MS Autotune Date: 08-AUG-2000 16:28  
Operator : 10099 Inst ID: hp3.i  
Smp Info : C0J310200-001 (1ML/10ML)/5ML  
Misc Info : dn4p61ac,31106d.b,8260bh2o.m,tclp.sub  
Comment :  
Method : \\qpitpa02\d\chem\hp3.i\31106d.b\8260bh2o.m  
Meth Date : 06-Nov-2000 06:57 gordonk Quant Type: ISTD  
Cal Date : 10-AUG-2000 06:56 Cal File: CC30810.D  
Als bottle: 4  
Dil Factor: 1.00000  
Integrator: HP RTE  
Target Version: 4.04  
Processing Host: PITPC063

Compound Sublist: tclp.sub

KLG  
11/6/00

Concentration Formula: Amt \* DF \* 1/Vo\*Vt

| Name | Value | Description                            |
|------|-------|----------------------------------------|
| DF   | 1.000 | Dilution Factor                        |
| Vo   | 5.000 | Sample Volume                          |
| Vt   | 1.000 | mg/L conversion (1.0 if no conversion) |

| Compounds                   | QUANT SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS     |                  |
|-----------------------------|-----------|------------------------|--------|---------|----------|--------------------|------------------|
|                             |           |                        |        |         |          | ON-COLUMN<br>( ng) | FINAL<br>( UG/L) |
| * 46 Fluorobenzene          | 96        | 6.603                  | 6.596  | (1.000) | 863817   | 250.000            |                  |
| * 69 Chlorobenzene-d5       | 119       | 9.730                  | 9.735  | (1.000) | 209127   | 250.000            |                  |
| * 92 1,4-Dichlorobenzene-d4 | 152       | 12.048                 | 12.053 | (1.000) | 353180   | 250.000            |                  |
| \$ 39 Dibromofluoromethane  | 113       | 5.831                  | 5.830  | (0.883) | 185996   | 230.876            | 46.18            |
| \$ 43 1,2-Dichloroethane-d4 | 65        | 6.208                  | 6.207  | (0.940) | 233168   | 251.052            | 50.21            |
| \$ 59 Toluene-d8            | 98        | 8.288                  | 8.287  | (0.852) | 816857   | 259.757            | 51.95            |
| \$ 80 Bromofluorobenzene    | 95        | 10.904                 | 10.903 | (1.121) | 323729   | 247.669            | 49.53            |
| 3 Vinyl Chloride            | 62        | Compound Not Detected. |        |         |          |                    |                  |
| 12 1,1-Dichloroethene       | 96        | Compound Not Detected  |        |         |          |                    |                  |
| 31 2-Butanone               | 43        | Compound Not Detected. |        |         |          |                    |                  |
| 37 Chloroform               | 83        | Compound Not Detected. |        |         |          |                    |                  |
| 41 Carbon Tetrachloride     | 117       | Compound Not Detected. |        |         |          |                    |                  |
| 42 Benzene                  | 78        | Compound Not Detected. |        |         |          |                    |                  |
| 45 1,2-Dichloroethane       | 62        | Compound Not Detected. |        |         |          |                    |                  |
| 47 Trichloroethene          | 130       | Compound Not Detected. |        |         |          |                    |                  |
| 65 Tetrachloroethene        | 164       | Compound Not Detected. |        |         |          |                    |                  |

Data File: \\ppitpa02\d\chem\hp3.i\31106d:b\3110601.D  
Report Date: 06-Nov-2000 07:58

Page 2

| Compounds        | QUANT SIG |                        |        |        |          | CONCENTRATIONS     |                  |
|------------------|-----------|------------------------|--------|--------|----------|--------------------|------------------|
|                  |           | RT                     | EXP RT | REL RT | RESPONSE | ON-COLUMN<br>( ng) | FINAL<br>( UG/L) |
| -----            | ----      | --                     | -----  | -----  | -----    | -----              | -----            |
| 70 Chlorobenzene | 112       | Compound Not Detected. |        |        |          |                    |                  |



674 124

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 10/31/00

Work Order: DN4QJ1AC

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/06/00

Moisture %: 13

QC Batch: 0311110

Client Sample Id: DF/24-A/0304/CVS/010

|          |                      | CONCENTRATION UNITS: |   |
|----------|----------------------|----------------------|---|
| CAS NO.  | COMPOUND             | (ug/L or ug/kg) mg/L | Q |
| 71-43-2  | Benzene              | 0.050                | U |
| 78-93-3  | 2-Butanone           | 0.050                | U |
| 56-23-5  | Carbon tetrachloride | 0.050                | U |
| 108-90-7 | Chlorobenzene        | 0.050                | U |
| 67-66-3  | Chloroform           | 0.050                | U |
| 107-06-2 | 1,2-Dichloroethane   | 0.050                | U |
| 75-35-4  | 1,1-Dichloroethene   | 0.050                | U |
| 127-18-4 | Tetrachloroethene    | 0.050                | U |
| 79-01-6  | Trichloroethene      | 0.050                | U |
| 75-01-4  | Vinyl chloride       | 0.050                | U |

FORM I

Data File: \\pittpa02\chem\hp3.1\31106d.b\3110602.D

Date: 06-NOV-2000 07:37

Client ID: DF/24-A/0304/CVS/01

Sample Info: C03310200-002 (1HL/10HL)/5HL

Purge Volume: 5.0

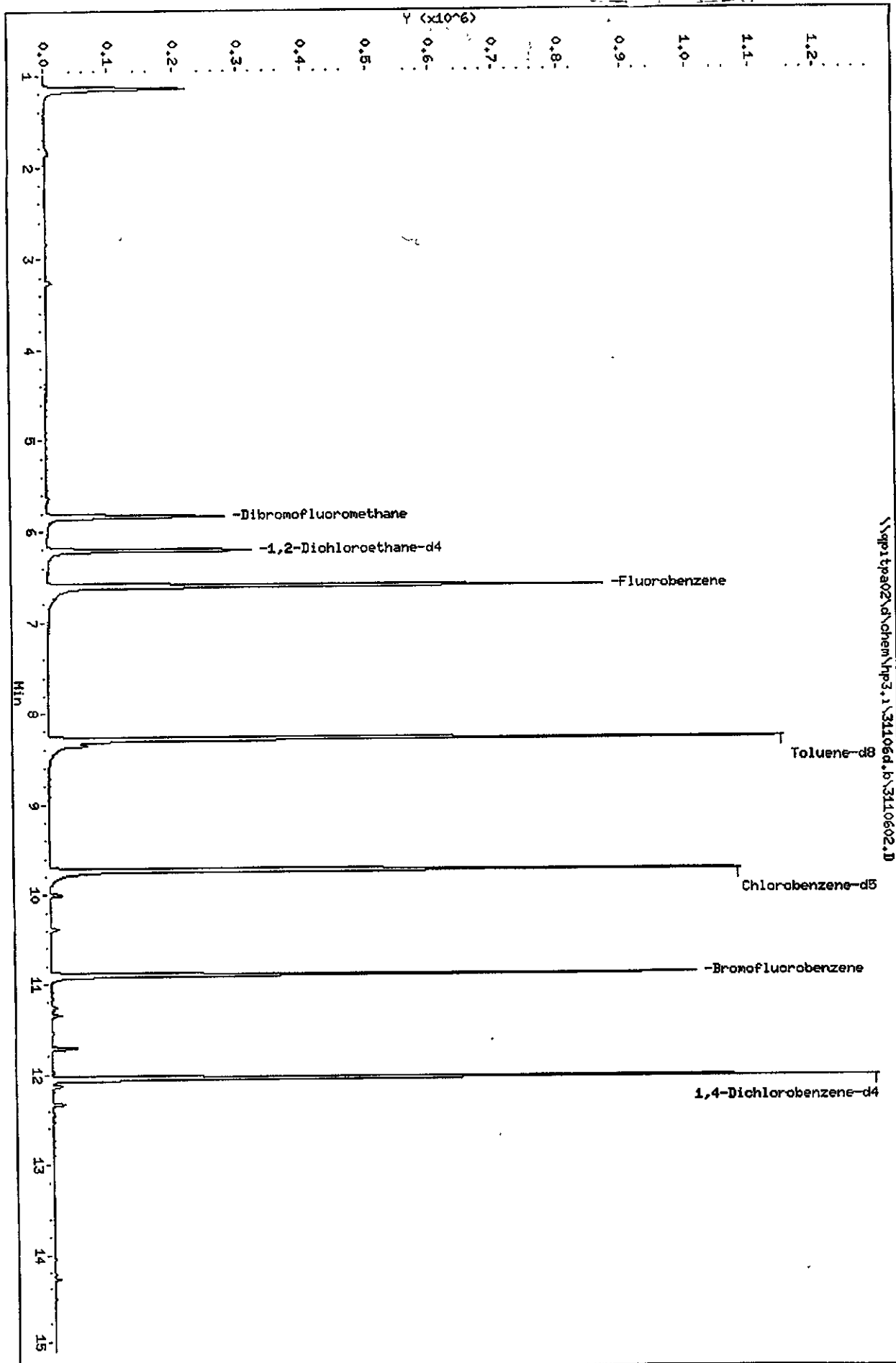
Column phase: DB 624

Instrument: hp3.1

Operator: 10099

Column diameter: 0.18

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## STL-Pittsburgh

## VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp3.i\31106d.b\3110602.D  
 Lab Smp Id: DN4QJ1AC Client Smp ID: DF/24-A/0304/CVS/01  
 Inj Date : 06-NOV-2000 07:37 MS Autotune Date: 08-AUG-2000 16:28  
 Operator : 10099 Inst ID: hp3.i  
 Smp Info : C0J310200-002 (1ML/10ML)/5ML  
 Misc Info : dn4qj1ac,31106d.b,8260bh2o.m,tclp.sub  
 Comment :  
 Method : \\qpitpa02\d\chem\hp3.i\31106d.b\8260bh2o.m  
 Meth Date : 06-Nov-2000 06:57 gordonk Quant Type: ISTD  
 Cal Date : 10-AUG-2000 06:56 Cal File: CC30810.D  
 Als bottle: 5  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.04  
 Processing Host: PITPC063

*KLG 11/6/00* Compound Sublist: tclp.sub

Concentration Formula: Amt \* DF \* 1/Vo\*Vt

| Name | Value | Description                            |
|------|-------|----------------------------------------|
| DF   | 1.000 | Dilution Factor                        |
| Vo   | 5.000 | Sample Volume                          |
| Vt   | 1.000 | mg/L conversion (1.0 if no conversion) |

| Compounds                   | QUANT SIG<br>MASS | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS     |                  |
|-----------------------------|-------------------|------------------------|--------|---------|----------|--------------------|------------------|
|                             |                   |                        |        |         |          | ON-COLUMN<br>( ng) | FINAL<br>( UG/L) |
| * 46 Fluorobenzene          | 96                | 6.602                  | 6.596  | (1.000) | 843231   | 250.000            |                  |
| * 69 Chlorobenzene-d5       | 119               | 9.735                  | 9.735  | (1.000) | 198770   | 250.000            |                  |
| * 92 1,4-Dichlorobenzene-d4 | 152               | 12.053                 | 12.053 | (1.000) | 338799   | 250.000            |                  |
| \$ 39 Dibromofluoromethane  | 113               | 5.835                  | 5.830  | (0.884) | 181469   | 230.756            | 46.15            |
| \$ 43 1,2-Dichloroethane-d4 | 65                | 6.213                  | 6.207  | (0.941) | 228287   | 251.798            | 50.36            |
| \$ 59 Toluene-d8            | 98                | 8.287                  | 8.287  | (0.851) | 824900   | 275.982            | 55.20            |
| \$ 80 Bromofluorobenzene    | 95                | 10.903                 | 10.903 | (1.120) | 324601   | 261.276            | 52.26            |
| 3 Vinyl Chloride            | 62                | Compound Not Detected. |        |         |          |                    |                  |
| 12 1,1-Dichloroethene       | 96                | Compound Not Detected. |        |         |          |                    |                  |
| 31 2-Butanone               | 43                | Compound Not Detected. |        |         |          |                    |                  |
| 37 Chloroform               | 83                | Compound Not Detected. |        |         |          |                    |                  |
| 41 Carbon Tetrachloride     | 117               | Compound Not Detected. |        |         |          |                    |                  |
| 42 Benzene                  | 78                | Compound Not Detected. |        |         |          |                    |                  |
| 45 1,2-Dichloroethane       | 62                | Compound Not Detected. |        |         |          |                    |                  |
| 47 Trichloroethene          | 130               | Compound Not Detected. |        |         |          |                    |                  |
| 65 Tetrachloroethene        | 164               | Compound Not Detected. |        |         |          |                    |                  |

Data File: \\qpitpa02\d\chem\hp3.i\31106d.b\3110602.D  
Report Date: 06-Nov-2000 08:04

674

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| Compounds        | QUANT SIG | RT | EXP RT | REL RT | RESPONSE              | CONCENTRATIONS     |                  |
|------------------|-----------|----|--------|--------|-----------------------|--------------------|------------------|
|                  |           |    |        |        |                       | ON-COLUMN<br>( ng) | FINAL<br>( UG/L) |
| -----            | ----      | -- | -----  | -----  | -----                 | -----              | -----            |
| 70 Chlorobenzene | 112       |    |        |        | Compound Not Detected |                    |                  |

674 128

## UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 10/31/00

Work Order: DN4QK1AC

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/06/00

Moisture %: 17

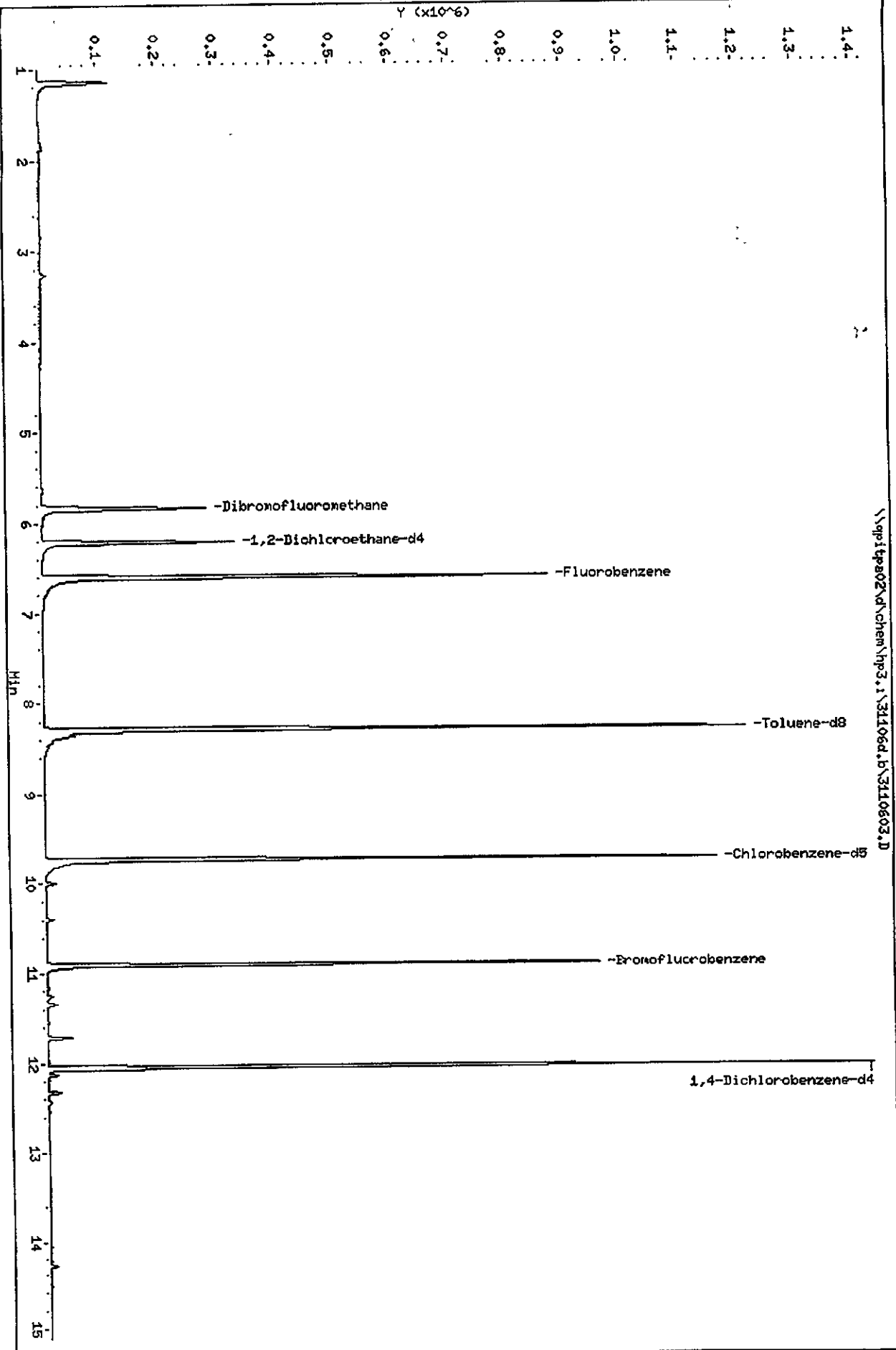
QC Batch: 0311110

Client Sample Id: DF/24-A/0304/CVS/012

|          |                      | CONCENTRATION UNITS: |   |
|----------|----------------------|----------------------|---|
| CAS NO.  | COMPOUND             | (ug/L or ug/kg) mg/L | Q |
| 71-43-2  | Benzene              | 0.050                | U |
| 78-93-3  | 2-Butanone           | 0.050                | U |
| 56-23-5  | Carbon tetrachloride | 0.050                | U |
| 108-90-7 | Chlorobenzene        | 0.050                | U |
| 67-66-3  | Chloroform           | 0.050                | U |
| 107-06-2 | 1,2-Dichloroethane   | 0.050                | U |
| 75-35-4  | 1,1-Dichloroethene   | 0.050                | U |
| 127-18-4 | Tetrachloroethene    | 0.050                | U |
| 79-01-6  | Trichloroethene      | 0.050                | U |
| 75-01-4  | Vinyl chloride       | 0.050                | U |

Data File: \\pittpa02\chem\hp3.i\31106d.b\3110603.D  
Date: 06-NOV-2000 08:02  
Client ID: JF/24-R/0304/CVS/04  
Sample Info: C0J310200-003 (4HL/10HL)/5HL  
Purge Volume: 5.0  
Column phase: JIB 624

Instrument: hp3.i  
Operator: 10099  
Column diameter: 0.18



674 130

Data File: \\qpitpa02\d\chem\hp3.i\31106d.b\3110603.D  
Report Date: 06-Nov-2000 08:30

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| Compounds        | QUANT SIG | CONCENTRATIONS         |        |        |          |                    |                  |
|------------------|-----------|------------------------|--------|--------|----------|--------------------|------------------|
|                  |           | RT                     | EXP RT | REL RT | RESPONSE | ON-COLUMN<br>( ng) | FINAL<br>( UG/L) |
| 70 Chlorobenzene | 112       | Compound Not Detected. |        |        |          |                    |                  |

GC/MS VOLATILE  
CALIBRATION DATA



6A  
VOLATILE ORGANICS INITIAL CALIBRATION DATA

674 132

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: 30810D

Instrument ID: HP3

Calibration Date(s): 08/10/00 08/10/00

Heated Purge: (Y/N) N

Calibration Time(s): 0656 0906

GC Column: DB 624 ID: 0.18 (mm)

| LAB FILE ID:              |         | RRF5 =1A30810  |       | RRF20 =1B30810 |        |       |          |
|---------------------------|---------|----------------|-------|----------------|--------|-------|----------|
| RRF50 =CC30810            |         | RRF100=1D30810 |       | RRF200=1E30810 |        |       |          |
| COMPOUND                  | RRF5    | RRF20          | RRF50 | RRF100         | RRF200 | RRF   | %<br>RSD |
| Dichlorodifluoromethane   | 0.320   | 0.270          | 0.221 | 0.242          | 0.235  | 0.258 | 15.2     |
| Chloromethane             | * 0.595 | 0.494          | 0.417 | 0.442          | 0.430  | 0.476 | 15.3*    |
| Vinyl Chloride            | 0.435   | 0.371          | 0.320 | 0.331          | 0.324  | 0.356 | 13.6     |
| Bromomethane              | 0.084   | 0.062          | 0.042 | 0.048          | 0.045  | 0.056 | 30.4     |
| Chloroethane              | 0.082   | 0.069          | 0.058 | 0.061          | 0.059  | 0.066 | 15.5     |
| Trichlorofluoromethane    | 0.379   | 0.297          | 0.109 | 0.118          | 0.119  | 0.204 | 61.4     |
| 1,1-Dichloroethene        | 0.198   | 0.163          | 0.144 | 0.150          | 0.153  | 0.162 | 13.3     |
| Methylene Chloride        | 0.237   | 0.194          | 0.166 | 0.175          | 0.176  | 0.190 | 15.0     |
| trans-1,2-Dichloroethene  | 0.206   | 0.175          | 0.160 | 0.164          | 0.166  | 0.174 | 10.8     |
| 1,1-Dichloroethane        | * 0.452 | 0.386          | 0.351 | 0.362          | 0.362  | 0.383 | 10.7*    |
| cis-1,2-dichloroethene    | 0.304   | 0.274          | 0.246 | 0.253          | 0.244  | 0.264 | 9.5      |
| Chloroform                | 0.472   | 0.408          | 0.364 | 0.371          | 0.360  | 0.395 | 12.0     |
| Bromochloromethane        | 0.152   | 0.135          | 0.120 | 0.124          | 0.122  | 0.131 | 10.2     |
| 1,1,1-Trichloroethane     | 0.356   | 0.306          | 0.294 | 0.307          | 0.305  | 0.314 | 7.7      |
| Carbon Tetrachloride      | 0.313   | 0.258          | 0.264 | 0.275          | 0.276  | 0.277 | 7.7      |
| 1,2-Dichloroethane        | 0.449   | 0.382          | 0.344 | 0.350          | 0.342  | 0.373 | 12.2     |
| Benzene                   | 1.272   | 1.100          | 0.972 | 0.990          | 0.950  | 1.057 | 12.6     |
| Trichloroethene           | 0.322   | 0.283          | 0.253 | 0.265          | 0.264  | 0.277 | 9.8      |
| 1,2-Dichloropropane       | 0.361   | 0.322          | 0.290 | 0.297          | 0.295  | 0.313 | 9.4      |
| Bromodichloromethane      | 0.340   | 0.307          | 0.287 | 0.294          | 0.286  | 0.303 | 7.3      |
| cis-1,3-Dichloropropene   | 0.395   | 0.382          | 0.355 | 0.374          | 0.364  | 0.374 | 4.1      |
| Toluene                   | 5.290   | 4.626          | 4.185 | 4.363          | 4.272  | 4.547 | 9.8      |
| trans-1,3-Dichloropropene | 1.508   | 1.403          | 1.332 | 1.454          | 1.484  | 1.436 | 4.9      |
| 1,1,2-Trichloroethane     | 1.078   | 0.940          | 0.828 | 0.860          | 0.857  | 0.913 | 11.1     |
| Tetrachloroethene         | 1.397   | 0.950          | 0.832 | 0.854          | 0.857  | 0.978 | 24.4     |
| Dibromochloromethane      | 0.962   | 0.935          | 0.885 | 0.945          | 0.976  | 0.941 | 3.7      |
| Chlorobenzene             | * 4.034 | 3.352          | 2.949 | 3.030          | 2.939  | 3.261 | 14.2*    |
| Ethylbenzene              | 2.061   | 1.801          | 1.624 | 1.679          | 1.607  | 1.754 | 10.7     |
| Styrene                   | 4.357   | 3.821          | 3.339 | 3.427          | 3.201  | 3.629 | 12.9     |
| Bromoform                 | * 0.628 | 0.604          | 0.597 | 0.644          | 0.671  | 0.629 | 4.8*     |
| 1,1,2,2-Tetrachloroethane | * 0.866 | 0.703          | 0.615 | 0.638          | 0.611  | 0.687 | 15.5*    |
| 1,3-Dichlorobenzene       | 1.902   | 1.517          | 1.374 | 1.459          | 1.447  | 1.540 | 13.6     |
| 1,4-Dichlorobenzene       | 2.003   | 1.562          | 1.413 | 1.486          | 1.479  | 1.589 | 15.0     |
| 1,2-Dichlorobenzene       | 1.827   | 1.410          | 1.247 | 1.277          | 1.230  | 1.398 | 17.9     |
| Dibromomethane            | 0.173   | 0.157          | 0.139 | 0.141          | 0.135  | 0.149 | 10.5     |
| 1,2-Dibromoethane         | 1.134   | 0.971          | 0.861 | 0.926          | 0.934  | 0.965 | 10.6     |
| 1,1,1,2-Tetrachloroethane | 1.208   | 1.068          | 0.977 | 1.024          | 1.019  | 1.059 | 8.4      |

\* Compounds with required minimum RRF and maximum %RSD values.  
All other compounds must meet a minimum RRF of 0.010.

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GC Column: DB 624 ID: 0.18 (mm)

\* Compounds with required minimum RRF and maximum %RSD values.  
All other compounds must meet a minimum RRF of 0.010.

674 134

INITIAL CALIBRATION REPORT

Instrument ID: hp3.i  
 Lab File ID: 1E30810.D  
 Analysis Type: WATER

Injection Date: 10-AUG-2000 09:06  
 Lab Sample ID: VSTD200  
 Method File: \\QPITPA02\D\chem\hp3.i\30810d.b

| COMPOUND                   | %RSD  |
|----------------------------|-------|
| -----                      | ----- |
| Xylenes (total)            | 10.3  |
| 1,2-Dichloroethene (total) | 9.9   |
| Dichlorodifluoromethane    | 15.2  |
| Chloromethane              | 15.3  |
| Vinyl Chloride             | 13.6  |
| Bromomethane               | 30.4  |
| Chloroethane               | 15.5  |
| Trichlorofluoromethane     | 61.4  |
| 1,1-Dichloroethene         | 13.3  |
| Carbon Disulfide           | 6.4   |
| Acetone                    | 34.2  |
| Methylene Chloride         | 15.0  |
| trans-1,2-Dichloroethene   | 10.8  |
| Methyl tert-butyl ether    | 5.8   |
| 1,1-Dichloroethane         | 10.7  |
| 2,2-Dichloropropane        | 5.6   |
| cis-1,2-dichloroethene     | 9.5   |
| 2-Butanone                 | 19.8  |
| Bromochloromethane         | 10.2  |
| Chloroform                 | 12.0  |
| 1,1,1-Trichloroethane      | 7.7   |
| Dibromofluoromethane       | 5.8   |
| Carbon Tetrachloride       | 7.7   |
| 1,1-Dichloropropene        | 9.9   |
| 1,2-Dichloroethane-d4      | 6.6   |
| Benzene                    | 12.6  |
| 1,2-Dichloroethane         | 12.2  |
| Trichloroethene            | 9.8   |
| 1,2-Dichloropropane        | 9.4   |
| Dibromomethane             | 10.5  |
| Bromodichloromethane       | 7.3   |
| cis-1,3-Dichloropropene    | 4.1   |
| 4-Methyl-2-Pentanone       | 9.5   |
| Toluene-d8                 | 3.9   |
| Toluene                    | 9.8   |
| trans-1,3-Dichloropropene  | 4.9   |
| 1,1,2-Trichloroethane      | 11.1  |
| Tetrachloroethene          | 24.4  |
| 1,3-Dichloropropane        | 11.9  |

INITIAL CALIBRATION REPORT

Instrument ID: hp3.i  
Lab File ID: 1E30810.D  
Analysis Type: WATER

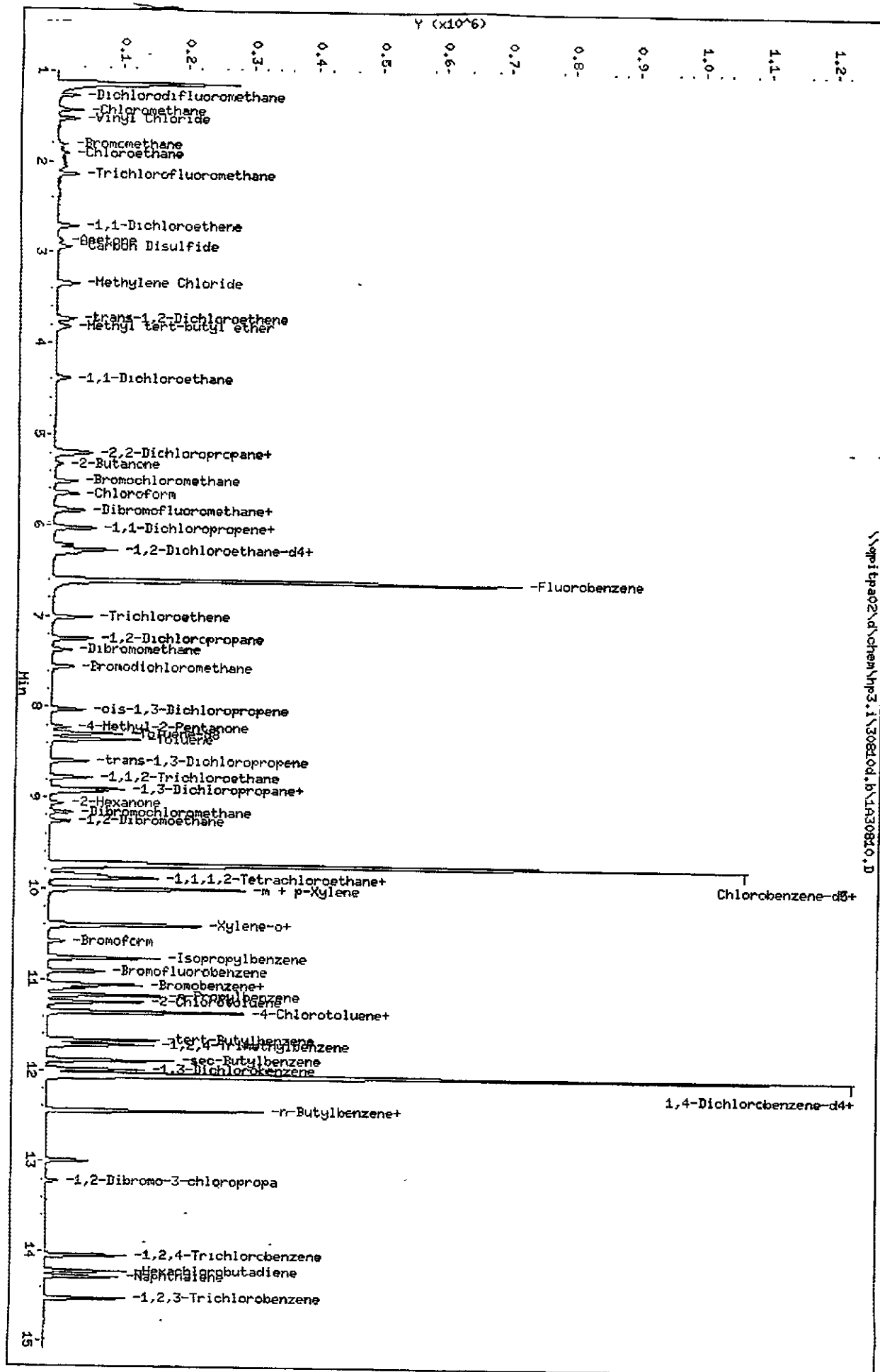
Injection Date: 10-AUG-2000 09:06  
Lab Sample ID: VSTD200  
Method File: \\QPITPA02\D\chem\hp3.i\30810d.b

| COMPOUND                    | %RSD  |
|-----------------------------|-------|
| -----                       | ----- |
| 2-Hexanone                  | 9.5   |
| Dibromochloromethane        | 3.7   |
| 1,2-Dibromoethane           | 10.6  |
| Chlorobenzene               | 14.2  |
| 1,1,1,2-Tetrachloroethane   | 8.4   |
| Ethylbenzene                | 10.7  |
| m + p-Xylene                | 15.2  |
| Xylene-o                    | 10.3  |
| Styrene                     | 12.9  |
| Bromoform                   | 4.8   |
| Isopropylbenzene            | 9.4   |
| Bromofluorobenzene          | 5.9   |
| Bromobenzene                | 11.3  |
| 1,1,2,2-Tetrachloroethane   | 15.5  |
| 1,2,3-Trichloropropane      | 12.9  |
| n-Propylbenzene             | 8.8   |
| 2-Chlorotoluene             | 11.4  |
| 1,3,5-Trimethylbenzene      | 12.5  |
| 4-Chlorotoluene             | 14.8  |
| tert-Butylbenzene           | 9.1   |
| 1,2,4-Trimethylbenzene      | 10.5  |
| sec-Butylbenzene            | 13.3  |
| 1,3-Dichlorobenzene         | 13.6  |
| 4-Isopropyltoluene          | 12.1  |
| 1,4-Dichlorobenzene         | 15.0  |
| n-Butylbenzene              | 16.4  |
| 1,2-Dichlorobenzene         | 17.9  |
| 1,2-Dibromo-3-chloropropane | 8.3   |
| 1,2,4-Trichlorobenzene      | 17.3  |
| Hexachlorobutadiene         | 27.0  |
| Naphthalene                 | 24.3  |
| 1,2,3-Trichlorobenzene      | 26.0  |

The average of all %RSD's in the initial calibration is 12.9

Data File: \\pptp02\volchem\hps3.i\30810d.b\1A30810.D  
 Date: 10-AUG-2000 07:54  
 Client ID: VSTD5  
 Sample Info: VSTD5 SHL  
 Purge Volume: 5.0  
 Column Phase: DB 624

Instrument: hps3.i  
 Operator: 10099  
 Column diameter: 0.18



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VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp3.i\30810d.b\1A30810.D  
Lab Smp Id: VSTD5 Client Smp ID: VSTD5  
Inj Date : 10-AUG-2000 07:54 MS Autotune Date: 08-AUG-2000 16:28  
Operator : 10099 Inst ID: hp3.i  
Smp Info : VSTD5 5ML  
Misc Info : ,30810d.b,8260bh2o.m,4-dwh20.sub  
Comment :  
Method : \\QPITPA02\D\chem\hp3.i\30810d.b\8260bh2o.m  
Meth Date : 10-Aug-2000 08:24 gordonk Quant Type: ISTD  
Cal Date : 10-AUG-2000 07:54 Cal File: 1A30810.D  
Als bottle: 4 Calibration Sample, Level: 1  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 4-dwh20.sub  
Target Version: 4.04  
Processing Host: PITPC073

KLG  
8/10/00

Concentration Formula: Amt \* DF \* 1/Vo\*Vt

| Name | Value | Description                            |
|------|-------|----------------------------------------|
| DF   | 1.000 | Dilution Factor                        |
| Vo   | 5.000 | Sample Volume                          |
| Vt   | 1.000 | mg/L conversion (1.0 if no conversion) |

| Compounds                   | QUANT SIG |        |        |         | AMOUNTS  |                  |
|-----------------------------|-----------|--------|--------|---------|----------|------------------|
|                             | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>( ng) |
|                             |           |        |        |         |          | ON-COL<br>( ng)  |
| * 46 Fluorobenzene          | 96        | 6.603  | 6.603  | (1.000) | 666943   | 250.000          |
| * 69 Chlorobenzene-d5       | 119       | 9.736  | 9.736  | (1.000) | 184162   | 250.000          |
| * 92 1,4-Dichlorobenzene-d4 | 152       | 12.054 | 12.054 | (1.000) | 320253   | 250.000          |
| \$ 39 Dibromofluoromethane  | 113       | 5.843  | 5.843  | (0.885) | 15915    | 25.0000 25.28    |
| \$ 43 1,2-Dichloroethane-d4 | 65        | 6.214  | 6.214  | (0.941) | 19395    | 25.0000 26.27    |
| \$ 59 Toluene-d8            | 98        | 8.288  | 8.288  | (0.851) | 70952    | 25.0000 25.67    |
| \$ 80 Bromofluorobenzene    | 95        | 10.904 | 10.904 | (1.120) | 30401    | 25.0000 26.18    |
| 1 Dichlorodifluoromethane   | 85        | 1.268  | 1.268  | (0.192) | 21320    | 25.0000 29.56    |
| 2 Chloromethane             | 50        | 1.426  | 1.426  | (0.216) | 39689    | 25.0000 29.40    |
| 3 Vinyl Chloride            | 62        | 1.529  | 1.529  | (0.232) | 29044    | 25.0000 28.81    |
| 4 Bromomethane              | 94        | 1.815  | 1.815  | (0.275) | 5574     | 25.0000 33.31    |
| 5 Chloroethane              | 64        | 1.900  | 1.900  | (0.288) | 5502     | 25.0000 29.32    |
| 6 Trichlorofluoromethane    | 101       | 2.138  | 2.138  | (0.324) | 25292    | 25.0000 38.82    |
| 12 1,1-Dichloroethene       | 96        | 2.716  | 2.716  | (0.411) | 13236    | 25.0000 28.97    |
| 15 Carbon Disulfide         | 76        | 2.941  | 2.941  | (0.445) | 29703    | 25.0000 24.95    |
| 13 Acetone                  | 43        | 2.874  | 2.874  | (0.435) | 13007    | 25.0000 32.12    |

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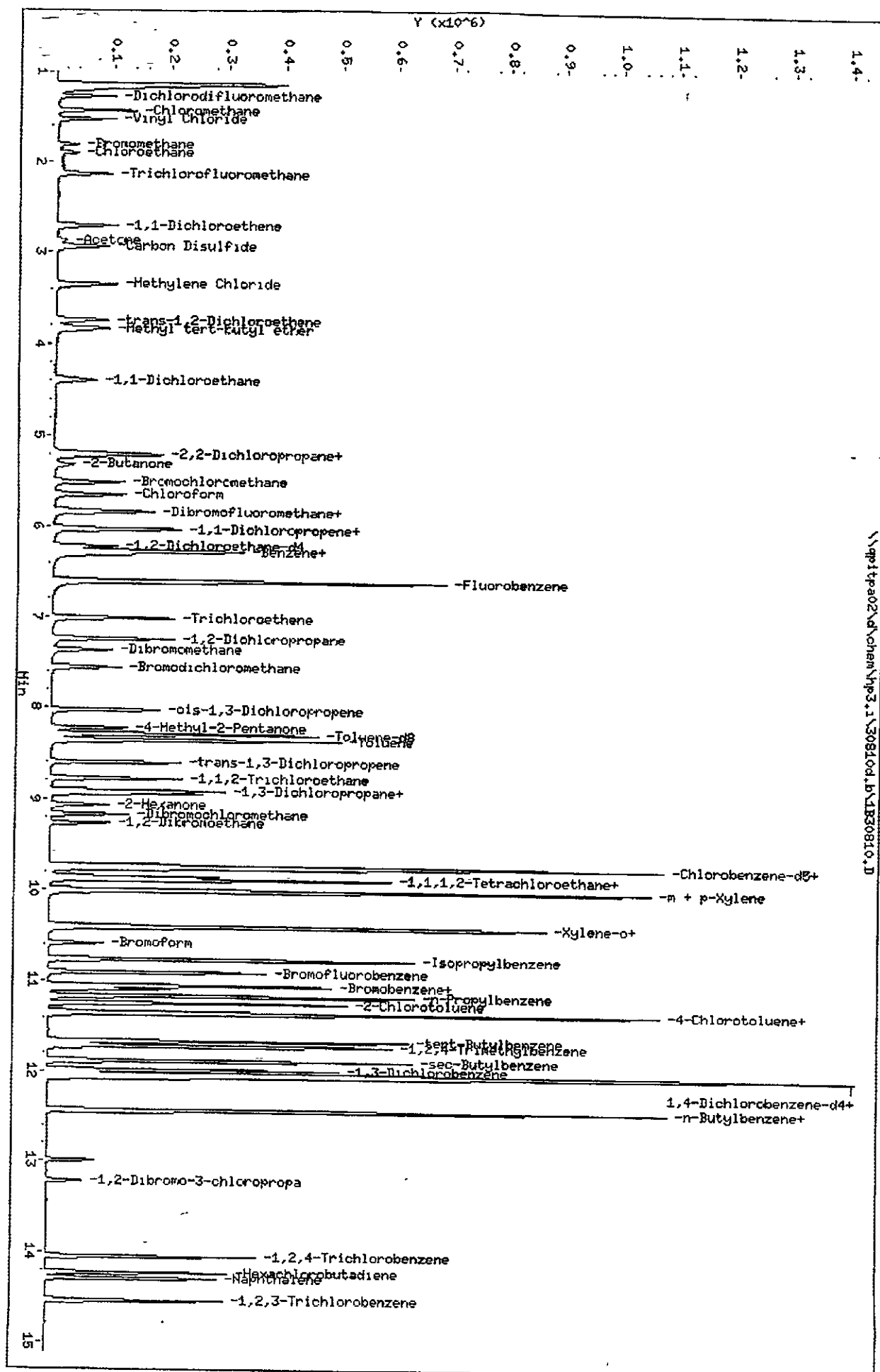
| Compounds                       | QUANT SIG |        |        |         | RESPONSE | AMOUNTS          |                 |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                 | MASS      | RT     | EXP RT | REL RT  |          | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| 18 Methylene Chloride           | 84        | 3.348  | 3.348  | (0.507) | 15822    | 25.0000          | 29.40           |
| 19 trans-1,2-Dichloroethene     | 96        | 3.738  | 3.738  | (0.566) | 13769    | 25.0000          | 28.19           |
| 20 Methyl tert-butyl ether      | 73        | 3.823  | 3.823  | (0.579) | 26448    | 25.0000          | 24.77           |
| 24 1,1-Dichloroethane           | 63        | 4.389  | 4.389  | (0.665) | 30170    | 25.0000          | 28.15           |
| 27 2,2-Dichloropropane          | 77        | 5.192  | 5.192  | (0.786) | 21538    | 25.0000          | 26.63           |
| 28 cis-1,2-dichloroethene       | 96        | 5.216  | 5.216  | (0.790) | 20263    | 25.0000          | 27.62           |
| M 29 1,2-Dichloroethene (total) | 96        |        |        |         | 34032    | 50.0000          | 55.70           |
| 30 Bromochloromethane           | 128       | 5.514  | 5.514  | (0.835) | 10149    | 25.0000          | 27.92           |
| 31 2-Butanone                   | 43        | 5.319  | 5.319  | (0.806) | 21513    | 25.0000          | 29.92           |
| 37 Chloroform                   | 83        | 5.648  | 5.648  | (0.855) | 31483    | 25.0000          | 28.24           |
| 38 1,1,1-Trichloroethane        | 97        | 5.824  | 5.824  | (0.882) | 23741    | 25.0000          | 27.37           |
| 40 1,1-Dichloropropene          | 75        | 6.031  | 6.031  | (0.913) | 20794    | 25.0000          | 28.17           |
| 41 Carbon Tetrachloride         | 117       | 6.019  | 6.019  | (0.912) | 20901    | 25.0000          | 27.12           |
| 42 Benzene                      | 78        | 6.268  | 6.268  | (0.949) | 84853    | 25.0000          | 28.35           |
| 45 1,2-Dichloroethane           | 62        | 6.305  | 6.305  | (0.955) | 29973    | 25.0000          | 28.33           |
| 47 Trichloroethene              | 130       | 7.017  | 7.017  | (1.063) | 21491    | 25.0000          | 28.01           |
| 49 1,2-Dichloropropane          | 63        | 7.242  | 7.242  | (1.097) | 24059    | 25.0000          | 27.73           |
| 50 Dibromomethane               | 93        | 7.370  | 7.370  | (1.116) | 11516    | 25.0000          | 27.73           |
| 53 Bromodichloromethane         | 83        | 7.558  | 7.558  | (1.145) | 22681    | 25.0000          | 27.10           |
| 57 cis-1,3-Dichloropropene      | 75        | 8.027  | 8.027  | (1.216) | 26339    | 25.0000          | 26.32           |
| 58 4-Methyl-2-Pentanone         | 43        | 8.221  | 8.221  | (0.844) | 23486    | 25.0000          | 23.84           |
| 60 Toluene                      | 91        | 8.355  | 8.355  | (0.858) | 97415    | 25.0000          | 27.92           |
| 61 trans-1,3-Dichloropropene    | 75        | 8.598  | 8.598  | (0.883) | 27782    | 25.0000          | 26.55           |
| 63 1,3-Dichloropropane          | 76        | 8.939  | 8.939  | (0.918) | 37123    | 25.0000          | 28.46           |
| 64 1,1,2-Trichloroethane        | 97        | 8.781  | 8.781  | (0.902) | 19851    | 25.0000          | 28.27           |
| 65 Tetrachloroethene            | 164       | 8.909  | 8.909  | (0.915) | 25724    | 25.0000          | 31.33           |
| 66 2-Hexanone                   | 43        | 9.061  | 9.061  | (0.931) | 17428    | 25.0000          | 24.21           |
| 67 Dibromochloromethane         | 129       | 9.170  | 9.170  | (0.942) | 17727    | 25.0000          | 26.06           |
| 68 1,2-Dibromoethane            | 107       | 9.261  | 9.261  | (0.951) | 20891    | 25.0000          | 28.42           |
| 70 Chlorobenzene                | 112       | 9.766  | 9.766  | (1.003) | 74297    | 25.0000          | 28.88           |
| 71 1,1,1,2-Tetrachloroethane    | 131       | 9.852  | 9.852  | (1.012) | 22254    | 25.0000          | 27.64           |
| 72 Ethylbenzene                 | 106       | 9.882  | 9.882  | (1.015) | 37956    | 25.0000          | 27.96           |
| 73 m + p-Xylene                 | 106       | 10.004 | 10.004 | (1.027) | 97582    | 50.0000          | 57.49           |
| 74 Xylene-o                     | 106       | 10.393 | 10.393 | (1.067) | 43072    | 25.0000          | 27.65           |
| M 75 Xylenes (total)            | 106       |        |        |         | 140654   | 25.0000          | 90.29           |
| 76 Styrene                      | 104       | 10.405 | 10.405 | (1.069) | 80235    | 25.0000          | 28.30           |
| 77 Bromoform                    | 173       | 10.582 | 10.582 | (1.087) | 11560    | 25.0000          | 25.63           |
| 78 Isopropylbenzene             | 105       | 10.758 | 10.758 | (1.105) | 111354   | 25.0000          | 27.63           |
| 79 Bromobenzene                 | 156       | 11.050 | 11.050 | (0.917) | 29592    | 25.0000          | 28.39           |
| 81 n-Propylbenzene              | 120       | 11.172 | 11.172 | (0.927) | 32422    | 25.0000          | 27.75           |
| 82 2-Chlorotoluene              | 126       | 11.245 | 11.245 | (0.933) | 29526    | 25.0000          | 28.40           |
| 83 1,1,2,2-Tetrachloroethane    | 83        | 11.062 | 11.062 | (0.918) | 27727    | 25.0000          | 29.23           |
| 84 1,2,3-Trichloropropane       | 110       | 11.093 | 11.093 | (0.920) | 9057     | 25.0000          | 29.05           |
| 85 4-Chlorotoluene              | 126       | 11.354 | 11.354 | (0.942) | 30988    | 25.0000          | 28.88           |
| 86 1,3,5-Trimethylbenzene       | 105       | 11.348 | 11.348 | (0.941) | 96934    | 25.0000          | 28.45           |
| 87 tert-Butylbenzene            | 119       | 11.671 | 11.671 | (0.968) | 81409    | 25.0000          | 27.77           |
| 88 1,2,4-Trimethylbenzene       | 105       | 11.719 | 11.719 | (0.972) | 97387    | 25.0000          | 28.16           |

| Compounds                      | QUANT SIG |        |        |         |          |  | AMOUNTS          |                 |
|--------------------------------|-----------|--------|--------|---------|----------|--|------------------|-----------------|
|                                | MASS      | RT     | EXP RT | REL RT  | RESPONSE |  | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                          | ====      | ==     | =====  | =====   | =====    |  | =====            | =====           |
| 89 sec-Butylbenzene            | 105       | 11.883 | 11.883 | (0.986) | 133239   |  | 25.0000          | 28.71           |
| 90 4-Isopropyltoluene          | 119       | 12.036 | 12.036 | (0.998) | 109629   |  | 25.0000          | 28.49           |
| 91 1,3-Dichlorobenzene         | 146       | 11.987 | 11.987 | (0.994) | 60930    |  | 25.0000          | 29.03           |
| 93 1,4-Dichlorobenzene         | 146       | 12.078 | 12.078 | (1.002) | 64153    |  | 25.0000          | 29.32           |
| 94 n-Butylbenzene              | 91        | 12.443 | 12.443 | (1.032) | 100128   |  | 25.0000          | 29.25           |
| 95 1,2-Dichlorobenzene         | 146       | 12.443 | 12.443 | (1.032) | 58504    |  | 25.0000          | 29.72           |
| 96 1,2-Dibromo-3-chloropropane | 157       | 13.216 | 13.216 | (1.096) | 4483     |  | 25.0000          | 27.49           |
| 97 1,2,4-Trichlorobenzene      | 180       | 14.049 | 14.049 | (1.166) | 36980    |  | 25.0000          | 29.97           |
| 98 Hexachlorobutadiene         | 225       | 14.226 | 14.226 | (1.180) | 22187    |  | 25.0000          | 31.55           |
| 99 Naphthalene                 | 128       | 14.286 | 14.286 | (1.185) | 77372    |  | 25.0000          | 32.01           |
| 100 1,2,3-Trichlorobenzene     | 180       | 14.530 | 14.530 | (1.205) | 36176    |  | 25.0000          | 31.80           |



Data File: \\pittpa02\chem\hp3.1\308104.b\1B30810.D  
 Date: 10-AUG-2000 08:17  
 Client ID: VSTD20  
 Sample Info: VSTD20 BHL  
 Purge Volume: 5.0  
 Column phase: DB 624

Instrument: hp3.1  
 Operator: 10099  
 Column diameter: 0.18



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VOLATILE REPORT SW-846 Method  
Data file : \\qpitpa02\d\chem\hp3.i\30810d.b\1B30810.D  
Lab Smp Id: VSTD20 Client Smp ID: VSTD20  
Inj Date : 10-AUG-2000 08:17 MS Autotune Date: 08-AUG-2000 16:28  
Operator : 10099 Inst ID: hp3.i  
Smp Info : VSTD20 5ML  
Misc Info : ,30810d.b,8260bh2o.m,4-dwh20.sub  
Comment :  
Method : \\QPITPA02\D\chem\hp3.i\30810d.b\8260bh2o.m  
Meth Date : 10-Aug-2000 08:47 gordonk Quant Type: ISTD  
Cal Date : 10-AUG-2000 08:17 Cal File: 1B30810.D  
Als bottle: 5 Calibration Sample, Level: 2  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 4-dwh20.sub  
Target Version: 4.04  
Processing Host: PITPC073

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8/10/00

Concentration Formula: Amt \* DF \* 1/Vo\*Vt

| Name | Value | Description                            |
|------|-------|----------------------------------------|
| DF   | 1.000 | Dilution Factor                        |
| Vo   | 5.000 | Sample Volume                          |
| Vt   | 1.000 | mg/L conversion (1.0 if no conversion) |

| Compounds                   | QUANT SIG |        |        |         | AMOUNTS  |                  |                 |
|-----------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                             | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| * 46 Fluorobenzene          | 96        | 6.606  | 6.606  | (1.000) | 658264   | 250.000          |                 |
| * 69 Chlorobenzene-d5       | 119       | 9.739  | 9.739  | (1.000) | 189756   | 250.000          |                 |
| * 92 1,4-Dichlorobenzene-d4 | 152       | 12.057 | 12.057 | (1.000) | 342121   | 250.000          |                 |
| \$ 39 Dibromofluoromethane  | 113       | 5.839  | 5.839  | (0.884) | 65981    | 100.000          | 104.0           |
| \$ 43 1,2-Dichloroethane-d4 | 65        | 6.216  | 6.216  | (0.941) | 74405    | 100.000          | 101.4           |
| \$ 59 Toluene-d8            | 98        | 8.291  | 8.291  | (0.851) | 298821   | 100.000          | 103.2           |
| \$ 80 Bromofluorobenzene    | 95        | 10.907 | 10.907 | (1.120) | 125375   | 100.000          | 103.7           |
| 1 Dichlorodifluoromethane   | 85        | 1.271  | 1.271  | (0.192) | 71227    | 100.000          | 100.0           |
| 2 Chloromethane             | 50        | 1.429  | 1.429  | (0.216) | 130008   | 100.000          | 98.38           |
| 3 Vinyl Chloride            | 62        | 1.526  | 1.526  | (0.231) | 97753    | 100.000          | 98.83           |
| 4 Bromomethane              | 94        | 1.812  | 1.812  | (0.274) | 16322    | 100.000          | 99.21           |
| 5 Chloroethane              | 64        | 1.903  | 1.903  | (0.288) | 18205    | 100.000          | 98.86           |
| 6 Trichlorofluoromethane    | 101       | 2.134  | 2.134  | (0.323) | 78313    | 100.000          | 113.6           |
| 12 1,1-Dichloroethane       | 96        | 2.712  | 2.712  | (0.411) | 42885    | 100.000          | 96.68           |
| 15 Carbon Disulfide         | 76        | 2.937  | 2.937  | (0.445) | 134853   | 100.000          | 109.4           |
| 13 Acetone                  | 43        | 2.877  | 2.877  | (0.436) | 28607    | 100.000          | 79.07           |

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| Compounds                       | QUANT SIG |        |        |         | RESPONSE | AMOUNTS          |                 |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                 | MASS      | RT     | EXP RT | REL RT  |          | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                           | =====     | ==     | =====  | =====   | =====    | =====            | =====           |
| 18 Methylene Chloride           | 84        | 3.345  | 3.345  | (0.506) | 50999    | 100.000          | 97.30           |
| 19 trans-1,2-Dichloroethene     | 96        | 3.734  | 3.734  | (0.565) | 46123    | 100.000          | 97.07           |
| 20 Methyl tert-butyl ether      | 73        | 3.826  | 3.826  | (0.579) | 111059   | 100.000          | 103.5           |
| 24 1,1-Dichloroethane           | 63        | 4.385  | 4.385  | (0.664) | 101708   | 100.000          | 97.40           |
| 27 2,2-Dichloropropane          | 77        | 5.194  | 5.194  | (0.786) | 74132    | 100.000          | 95.13           |
| 28 cis-1,2-dichloroethene       | 96        | 5.213  | 5.213  | (0.789) | 72069    | 100.000          | 99.70           |
| M 29 1,2-Dichloroethene (total) | 96        |        |        |         | 118193   | 200.000          | 197.3           |
| 30 Bromochloromethane           | 128       | 5.511  | 5.511  | (0.834) | 35496    | 100.000          | 99.29           |
| 31 2-Butanone                   | 43        | 5.316  | 5.316  | (0.805) | 62735    | 100.000          | 91.96           |
| 37 Chloroform                   | 83        | 5.645  | 5.645  | (0.855) | 107548   | 100.000          | 98.49           |
| 38 1,1,1-Trichloroethane        | 97        | 5.827  | 5.827  | (0.882) | 80700    | 100.000          | 96.10           |
| 40 1,1-Dichloropropene          | 75        | 6.034  | 6.034  | (0.913) | 71646    | 100.000          | 98.88           |
| 41 Carbon Tetrachloride         | 117       | 6.022  | 6.022  | (0.912) | 68057    | 100.000          | 92.74           |
| 42 Benzene                      | 78        | 6.271  | 6.271  | (0.949) | 289691   | 100.000          | 98.69           |
| 45 1,2-Dichloroethane           | 62        | 6.302  | 6.302  | (0.954) | 100632   | 100.000          | 97.54           |
| 47 Trichloroethene              | 130       | 7.013  | 7.013  | (1.062) | 74547    | 100.000          | 98.95           |
| 49 1,2-Dichloropropane          | 63        | 7.245  | 7.245  | (1.097) | 84794    | 100.000          | 99.34           |
| 50 Dibromomethane               | 93        | 7.372  | 7.372  | (1.116) | 41274    | 100.000          | 100.5           |
| 53 Bromodichloromethane         | 83        | 7.561  | 7.561  | (1.145) | 80804    | 100.000          | 98.53           |
| 57 cis-1,3-Dichloropropene      | 75        | 8.029  | 8.029  | (1.215) | 100547   | 100.000          | 101.2           |
| 58 4-Methyl-2-Pentanone         | 43        | 8.224  | 8.224  | (0.844) | 105986   | 100.000          | 102.9           |
| 60 Toluene                      | 91        | 8.358  | 8.358  | (0.858) | 351110   | 100.000          | 98.42           |
| 61 trans-1,3-Dichloropropene    | 75        | 8.601  | 8.601  | (0.883) | 106466   | 100.000          | 99.17           |
| 63 1,3-Dichloropropane          | 76        | 8.942  | 8.942  | (0.918) | 128319   | 100.000          | 96.94           |
| 64 1,1,2-Trichloroethane        | 97        | 8.784  | 8.784  | (0.902) | 71377    | 100.000          | 99.10           |
| 65 Tetrachloroethene            | 164       | 8.911  | 8.911  | (0.915) | 72072    | 100.000          | 89.62           |
| 66 2-Hexanone                   | 43        | 9.064  | 9.064  | (0.931) | 72423    | 100.000          | 98.41           |
| 67 Dibromochloromethane         | 129       | 9.167  | 9.167  | (0.941) | 70939    | 100.000          | 100.8           |
| 68 1,2-Dibromoethane            | 107       | 9.264  | 9.264  | (0.951) | 73682    | 100.000          | 98.17           |
| 70 Chlorobenzene                | 112       | 9.763  | 9.763  | (1.002) | 254395   | 100.000          | 97.28           |
| 71 1,1,1,2-Tetrachloroethane    | 131       | 9.854  | 9.854  | (1.012) | 81066    | 100.000          | 98.47           |
| 72 Ethylbenzene                 | 106       | 9.885  | 9.885  | (1.015) | 136684   | 100.000          | 98.47           |
| 73 m + p-Xylene                 | 106       | 10.000 | 10.000 | (1.027) | 343712   | 200.000          | 197.7           |
| 74 Xylene-o                     | 106       | 10.390 | 10.390 | (1.067) | 162640   | 100.000          | 100.9           |
| M 75 Xylenes (total)            | 106       |        |        |         | 506353   | 100.000          | 314.1           |
| 76 Styrene                      | 104       | 10.408 | 10.408 | (1.069) | 290013   | 100.000          | 99.53           |
| 77 Bromoform                    | 173       | 10.584 | 10.584 | (1.087) | 45824    | 100.000          | 99.06           |
| 78 Isopropylbenzene             | 105       | 10.761 | 10.761 | (1.105) | 412352   | 100.000          | 99.53           |
| 79 Bromobenzene                 | 156       | 11.053 | 11.053 | (0.917) | 106140   | 100.000          | 96.82           |
| 81 n-Propylbenzene              | 120       | 11.168 | 11.168 | (0.926) | 120258   | 100.000          | 97.54           |
| 82 2-Chlorotoluene              | 126       | 11.247 | 11.247 | (0.933) | 103950   | 100.000          | 95.63           |
| 83 1,1,2,2-Tetrachloroethane    | 83        | 11.059 | 11.059 | (0.917) | 96268    | 100.000          | 96.61           |
| 84 1,2,3-Trichloropropane       | 110       | 11.095 | 11.095 | (0.920) | 31423    | 100.000          | 96.15           |
| 85 4-Chlorotoluene              | 126       | 11.357 | 11.357 | (0.942) | 108946   | 100.000          | 96.65           |
| 86 1,3,5-Trimethylbenzene       | 105       | 11.351 | 11.351 | (0.941) | 346332   | 100.000          | 96.71           |
| 87 tert-Butylbenzene            | 119       | 11.667 | 11.667 | (0.968) | 294575   | 100.000          | 95.97           |
| 88 1,2,4-Trimethylbenzene       | 105       | 11.716 | 11.716 | (0.972) | 352022   | 100.000          | 96.80           |

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| Compounds                      | QUANT SIG |        |        |         | RESPONSE | AMOUNTS          |                 |
|--------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                | MASS      | RT     | EXP RT | REL RT  |          | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                          | =====     | ==     | =====  | =====   | =====    | =====            | =====           |
| 89 sec-Butylbenzene            | 105       | 11.886 | 11.886 | (0.986) | 453305   | 100.000          | 94.13           |
| 90 4-Isopropyltoluene          | 119       | 12.032 | 12.032 | (0.998) | 379894   | 100.000          | 94.80           |
| 91 1,3-Dichlorobenzene         | 146       | 11.990 | 11.990 | (0.994) | 207610   | 100.000          | 94.94           |
| 93 1,4-Dichlorobenzene         | 146       | 12.081 | 12.081 | (1.002) | 213730   | 100.000          | 94.12           |
| 94 n-Butylbenzene              | 91        | 12.440 | 12.440 | (1.032) | 332186   | 100.000          | 93.70           |
| 95 1,2-Dichlorobenzene         | 146       | 12.446 | 12.446 | (1.032) | 192939   | 100.000          | 94.34           |
| 96 1,2-Dibromo-3-chloropropane | 157       | 13.219 | 13.219 | (1.096) | 16511    | 100.000          | 96.44           |
| 97 1,2,4-Trichlorobenzene      | 180       | 14.046 | 14.046 | (1.165) | 113873   | 100.000          | 90.49           |
| 98 Hexachlorobutadiene         | 225       | 14.228 | 14.228 | (1.180) | 57267    | 100.000          | 82.80           |
| 99 Naphthalene                 | 128       | 14.289 | 14.289 | (1.185) | 212159   | 100.000          | 87.37           |
| 100 1,2,3-Trichlorobenzene     | 180       | 14.533 | 14.533 | (1.205) | 96625    | 100.000          | 85.35           |



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STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp3.i\30810d.b\CC30810.D  
Lab Smp Id: VSTD50 Client Smp ID: VSTD50  
Inj Date : 10-AUG-2000 06:56 MS Autotune Date: 08-AUG-2000 16:28  
Operator : 10099 Inst ID: hp3.i  
Smp Info : VSTD50 5ML  
Misc Info : vstd50,30810d.b,8260bh2o.m,1-tcl.sub  
Comment :  
Method : \\QPITPA02\D\chem\hp3.i\30810d.b\8260bh2o.m  
Meth Date : 10-Aug-2000 08:13 gordonk Quant Type: ISTD  
Cal Date : 10-AUG-2000 06:56 Cal File: CC30810.D  
Als bottle: 2 Calibration Sample, Level: 3  
Dil Factor: 1.00000  
Integrator: HP RTE  
Target Version: 4.04  
Processing Host: PITPC073

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8/10/00

Compound Sublist: 4-dwh20.sub

Concentration Formula: Amt \* DF \* 1/Vo\*Vt

| Name | Value | Description                            |
|------|-------|----------------------------------------|
| DF   | 1.000 | Dilution Factor                        |
| Vo   | 5.000 | Sample Volume                          |
| Vt   | 1.000 | mg/L conversion (1.0 if no conversion) |

| Compounds                   | QUANT SIG |        |        |         | AMOUNTS  |                  |                 |
|-----------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                             | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                       | ----      | ==     | =====  | =====   | =====    | =====            | =====           |
| * 46 Fluorobenzene          | 96        | 6.605  | 6.605  | (1.000) | 679255   | 250.000          |                 |
| * 69 Chlorobenzene-d5       | 119       | 9.738  | 9.738  | (1.000) | 188996   | 250.000          |                 |
| * 92 1,4-Dichlorobenzene-d4 | 152       | 12.056 | 12.056 | (1.000) | 329346   | 250.000          |                 |
| \$ 39 Dibromofluoromethane  | 113       | 5.844  | 5.844  | (0.885) | 158484   | 250.000          | 250.0           |
| \$ 43 1,2-Dichloroethane-d4 | 65        | 6.216  | 6.216  | (0.941) | 178389   | 250.000          | 250.0           |
| \$ 59 Toluene-d8            | 98        | 8.290  | 8.290  | (0.851) | 690016   | 250.000          | 250.0           |
| \$ 80 Bromofluorobenzene    | 95        | 10.912 | 10.912 | (1.121) | 283892   | 250.000          | 250.0           |
| 1 Dichlorodifluoromethane   | 85        | 1.276  | 1.276  | (0.193) | 150174   | 250.000          | 250.0           |
| 2 Chloromethane             | 50        | 1.434  | 1.434  | (0.217) | 283147   | 250.000          | 250.0           |
| 3 Vinyl Chloride            | 62        | 1.531  | 1.531  | (0.232) | 217488   | 250.000          | 250.0           |
| 4 Bromomethane              | 94        | 1.817  | 1.817  | (0.275) | 28455    | 250.000          | 250.0           |
| 5 Chloroethane              | 64        | 1.908  | 1.908  | (0.289) | 39523    | 250.000          | 250.0           |
| 6 Trichlorofluoromethane    | 101       | 2.134  | 2.134  | (0.323) | 74139    | 250.000          | 250.0           |
| 12 1,1-Dichloroethene       | 96        | 2.705  | 2.705  | (0.410) | 97849    | 250.000          | 250.0           |
| 15 Carbon Disulfide         | 76        | 2.924  | 2.924  | (0.443) | 303814   | 250.000          | 250.0           |
| 13 Acetone                  | 43        | 2.894  | 2.894  | (0.438) | 73740    | 250.000          | 250.0           |

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| Compounds                       | QUANT SIG |        |        |         | RESPONSE | AMOUNTS          |                 |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                 | MASS      | RT     | EXP RT | REL RT  |          | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                           | =====     | ==     | =====  | =====   | =====    | =====            | =====           |
| 18 Methylene Chloride           | 84        | 3.350  | 3.350  | (0.507) | 112943   | 250.000          | 250.0           |
| 19 trans-1,2-Dichloroethene     | 96        | 3.733  | 3.733  | (0.565) | 108511   | 250.000          | 250.0           |
| 20 Methyl tert-butyl ether      | 73        | 3.843  | 3.843  | (0.582) | 274276   | 250.000          | 250.0           |
| 24 1,1-Dichloroethane           | 63        | 4.391  | 4.391  | (0.665) | 238453   | 250.000          | 250.0           |
| 27 2,2-Dichloropropane          | 77        | 5.187  | 5.187  | (0.785) | 192518   | 250.000          | 250.0           |
| 28 cis-1,2-dichloroethene       | 96        | 5.212  | 5.212  | (0.789) | 167159   | 250.000          | 250.0           |
| M 29 1,2-Dichloroethene (total) | 96        |        |        |         | 275671   | 500.000          | 500.0           |
| 30 Bromochloromethane           | 128       | 5.510  | 5.510  | (0.834) | 81727    | 250.000          | 250.0           |
| 31 2-Butanone                   | 43        | 5.333  | 5.333  | (0.808) | 147042   | 250.000          | 250.0           |
| 37 Chloroform                   | 83        | 5.650  | 5.650  | (0.855) | 246972   | 250.000          | 250.0           |
| 38 1,1,1-Trichloroethane        | 97        | 5.826  | 5.826  | (0.882) | 199912   | 250.000          | 250.0           |
| 40 1,1-Dichloropropene          | 75        | 6.033  | 6.033  | (0.913) | 164133   | 250.000          | 250.0           |
| 41 Carbon Tetrachloride         | 117       | 6.021  | 6.021  | (0.912) | 179513   | 250.000          | 250.0           |
| 42 Benzene                      | 78        | 6.270  | 6.270  | (0.949) | 660134   | 250.000          | 250.0           |
| 45 1,2-Dichloroethane           | 62        | 6.307  | 6.307  | (0.955) | 233554   | 250.000          | 250.0           |
| 47 Trichloroethene              | 130       | 7.012  | 7.012  | (1.062) | 171870   | 250.000          | 250.0           |
| 49 1,2-Dichloropropane          | 63        | 7.244  | 7.244  | (1.097) | 196795   | 250.000          | 250.0           |
| 50 Dibromomethane               | 93        | 7.371  | 7.371  | (1.116) | 94163    | 250.000          | 250.0           |
| 53 Bromodichloromethane         | 83        | 7.560  | 7.560  | (1.145) | 195238   | 250.000          | 250.0           |
| 57 cis-1,3-Dichloropropene      | 75        | 8.028  | 8.028  | (1.216) | 241304   | 250.000          | 250.0           |
| 58 4-Methyl-2-Pentanone         | 43        | 8.229  | 8.229  | (0.845) | 264577   | 250.000          | 250.0           |
| 60 Toluene                      | 91        | 8.363  | 8.363  | (0.859) | 790936   | 250.000          | 250.0           |
| 61 trans-1,3-Dichloropropene    | 75        | 8.600  | 8.600  | (0.883) | 251733   | 250.000          | 250.0           |
| 63 1,3-Dichloropropane          | 76        | 8.941  | 8.941  | (0.918) | 288356   | 250.000          | 250.0           |
| 64 1,1,2-Trichloroethane        | 97        | 8.783  | 8.783  | (0.902) | 156587   | 250.000          | 250.0           |
| 65 Tetrachloroethene            | 164       | 8.911  | 8.911  | (0.915) | 157289   | 250.000          | 250.0           |
| 66 2-Hexanone                   | 43        | 9.069  | 9.069  | (0.931) | 190567   | 250.000          | 250.0           |
| 67 Dibromochloromethane         | 129       | 9.172  | 9.172  | (0.942) | 167195   | 250.000          | 250.0           |
| 68 1,2-Dibromoethane            | 107       | 9.269  | 9.269  | (0.952) | 162779   | 250.000          | 250.0           |
| 70 Chlorobenzene                | 112       | 9.768  | 9.768  | (1.003) | 557424   | 250.000          | 250.0           |
| 71 1,1,1,2-Tetrachloroethane    | 131       | 9.853  | 9.853  | (1.012) | 184727   | 250.000          | 250.0           |
| 72 Ethylbenzene                 | 106       | 9.884  | 9.884  | (1.015) | 307013   | 250.000          | 250.0           |
| 73 m + p-Xylene                 | 106       | 10.006 | 10.006 | (1.027) | 740583   | 500.000          | 500.0           |
| 74 Xylene-o                     | 106       | 10.395 | 10.395 | (1.067) | 357319   | 250.000          | 250.0           |
| M 75 Xylenes (total)            | 106       |        |        |         | 1097903  | 250.000          | 768.2           |
| 76 Styrene                      | 104       | 10.407 | 10.407 | (1.069) | 631084   | 250.000          | 250.0           |
| 77 Bromoform                    | 173       | 10.583 | 10.583 | (1.087) | 112821   | 250.000          | 250.0           |
| 78 Isopropylbenzene             | 105       | 10.760 | 10.760 | (1.105) | 925314   | 250.000          | 250.0           |
| 79 Bromobenzene                 | 156       | 11.052 | 11.052 | (0.917) | 231711   | 250.000          | 250.0           |
| 81 n-Propylbenzene              | 120       | 11.174 | 11.174 | (0.927) | 267334   | 250.000          | 250.0           |
| 82 2-Chlorotoluene              | 126       | 11.253 | 11.253 | (0.933) | 230986   | 250.000          | 250.0           |
| 83 1,1,2,2-Tetrachloroethane    | 83        | 11.064 | 11.064 | (0.918) | 202581   | 250.000          | 250.0           |
| 84 1,2,3-Trichloropropane       | 110       | 11.094 | 11.094 | (0.920) | 67194    | 250.000          | 250.0           |
| 85 4-Chlorotoluene              | 126       | 11.356 | 11.356 | (0.942) | 232937   | 250.000          | 250.0           |
| 86 1,3,5-Trimethylbenzene       | 105       | 11.350 | 11.350 | (0.941) | 755277   | 250.000          | 250.0           |
| 87 tert-Butylbenzene            | 119       | 11.666 | 11.666 | (0.968) | 670044   | 250.000          | 250.0           |
| 88 1,2,4-Trimethylbenzene       | 105       | 11.721 | 11.721 | (0.972) | 776756   | 250.000          | 250.0           |

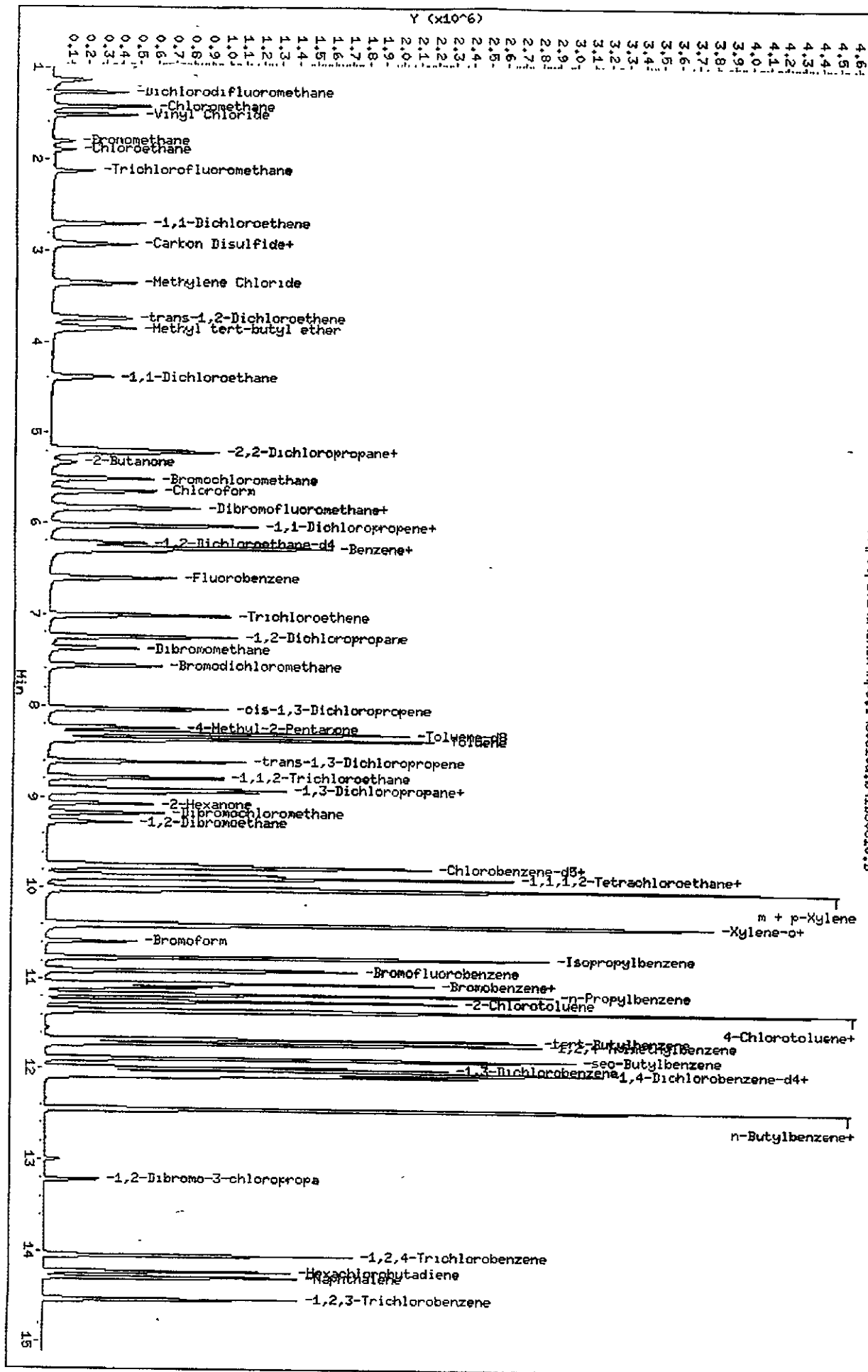
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| Compounds                      | QUANT SIG |        |        | REL RT  | RESPONSE | AMOUNTS          |                 |
|--------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                | MASS      | RT     | EXP RT |         |          | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                          | ----      | --     | -----  | -----   | -----    | -----            | -----           |
| 89 sec-Butylbenzene            | 105       | 11.885 | 11.885 | (0.986) | 1015719  | 250.000          | 250.0           |
| 90 4-Isopropyltoluene          | 119       | 12.037 | 12.037 | (0.998) | 851469   | 250.000          | 250.0           |
| 91 1,3-Dichlorobenzene         | 146       | 11.989 | 11.989 | (0.994) | 452500   | 250.000          | 250.0           |
| 93 1,4-Dichlorobenzene         | 146       | 12.080 | 12.080 | (1.002) | 465482   | 250.000          | 250.0           |
| 94 n-Butylbenzene              | 91        | 12.439 | 12.439 | (1.032) | 730592   | 250.000          | 250.0           |
| 95 1,2-Dichlorobenzene         | 146       | 12.445 | 12.445 | (1.032) | 410608   | 250.000          | 250.0           |
| 96 1,2-Dibromo-3-chloropropane | 157       | 13.218 | 13.218 | (1.096) | 37768    | 250.000          | 250.0           |
| 97 1,2,4-Trichlorobenzene      | 180       | 14.051 | 14.051 | (1.166) | 254186   | 250.000          | 250.0           |
| 98 Hexachlorobutadiene         | 225       | 14.227 | 14.227 | (1.180) | 133386   | 250.000          | 250.0           |
| 99 Naphthalene                 | 128       | 14.288 | 14.288 | (1.185) | 447002   | 250.000          | 250.0           |
| 100 1,2,3-Trichlorobenzene     | 180       | 14.532 | 14.532 | (1.205) | 212827   | 250.000          | 250.0           |



Data File: \\pp1tpa02\chem\hp3.1\30810d.b\1D30810.D  
 Date: 10-AUG-2000 08:39  
 Client ID: VSTD100  
 Sample Info: VSTD100 5M  
 Purge Volume: 5.0  
 Column phase: DB 624

Instrument: hp3.1  
 Operator: 10099  
 Column diameter: 0.18



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STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp3.i\30810d.b\1D30810.D  
Lab Smp Id: VSTD100 Client Smp ID: VSTD100  
Inj Date : 10-AUG-2000 08:39 MS Autotune Date: 08-AUG-2000 16:28  
Operator : 10099 Inst ID: hp3.i  
Smp Info : VSTD100 5ML  
Misc Info : ,30810d.b,8260bh2o.m,4-dwh20.sub  
Comment :  
Method : \\QPITPA02\D\chem\hp3.i\30810d.b\8260bh2o.m  
Meth Date : 10-Aug-2000 09:12 gordonk Quant Type: ISTD  
Cal Date : 10-AUG-2000 08:39 Cal File: 1D30810.D  
Als bottle: 6 Calibration Sample, Level: 4  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 4-dwh20.sub  
Target Version: 4.04  
Processing Host: PITPC073

Concentration Formula: Amt \* DF \* 1/Vo\*Vt

| Name | Value | Description                            |
|------|-------|----------------------------------------|
| DF   | 1.000 | Dilution Factor                        |
| Vo   | 5.000 | Sample Volume                          |
| Vt   | 1.000 | mg/L conversion (1.0 if no conversion) |

| Compounds                   | QUANT SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS          |                 |
|-----------------------------|-------------------|--------|--------|---------|----------|------------------|-----------------|
|                             |                   |        |        |         |          | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| * 46 Fluorobenzene          | 96                | 6.609  | 6.609  | (1.000) | 711482   | 250.000          |                 |
| * 69 Chlorobenzene-d5       | 119               | 9.742  | 9.742  | (1.000) | 190206   | 250.000          |                 |
| * 92 1,4-Dichlorobenzene-d4 | 152               | 12.059 | 12.059 | (1.000) | 324912   | 250.000          |                 |
| \$ 39 Dibromofluoromethane  | 113               | 5.842  | 5.842  | (0.884) | 326647   | 500.000          | 482.2           |
| \$ 43 1,2-Dichloroethane-d4 | 65                | 6.219  | 6.219  | (0.941) | 371065   | 500.000          | 475.5           |
| \$ 59 Toluene-d8            | 98                | 8.294  | 8.294  | (0.851) | 1437506  | 500.000          | 496.6           |
| \$ 80 Bromofluorobenzene    | 95                | 10.910 | 10.910 | (1.120) | 586218   | 500.000          | 484.7           |
| 1 Dichlorodifluoromethane   | 85                | 1.273  | 1.273  | (0.193) | 344299   | 500.000          | 459.5           |
| 2 Chloromethane             | 50                | 1.432  | 1.432  | (0.217) | 629599   | 500.000          | 454.2           |
| 3 Vinyl Chloride            | 62                | 1.529  | 1.529  | (0.231) | 471321   | 500.000          | 454.3           |
| 4 Bromomethane              | 94                | 1.815  | 1.815  | (0.275) | 68308    | 500.000          | 407.7           |
| 5 Chloroethane              | 64                | 1.906  | 1.906  | (0.288) | 86716    | 500.000          | 450.1           |
| 6 Trichlorofluoromethane    | 101               | 2.131  | 2.131  | (0.323) | 167581   | 500.000          | 260.7           |
| 12 1,1-Dichloroethene       | 96                | 2.703  | 2.703  | (0.409) | 213964   | 500.000          | 458.6           |
| 15 Carbon Disulfide         | 76                | 2.928  | 2.928  | (0.443) | 710554   | 500.000          | 524.5           |
| 13 Acetone                  | 43                | 2.898  | 2.898  | (0.439) | 145702   | 500.000          | 397.9           |

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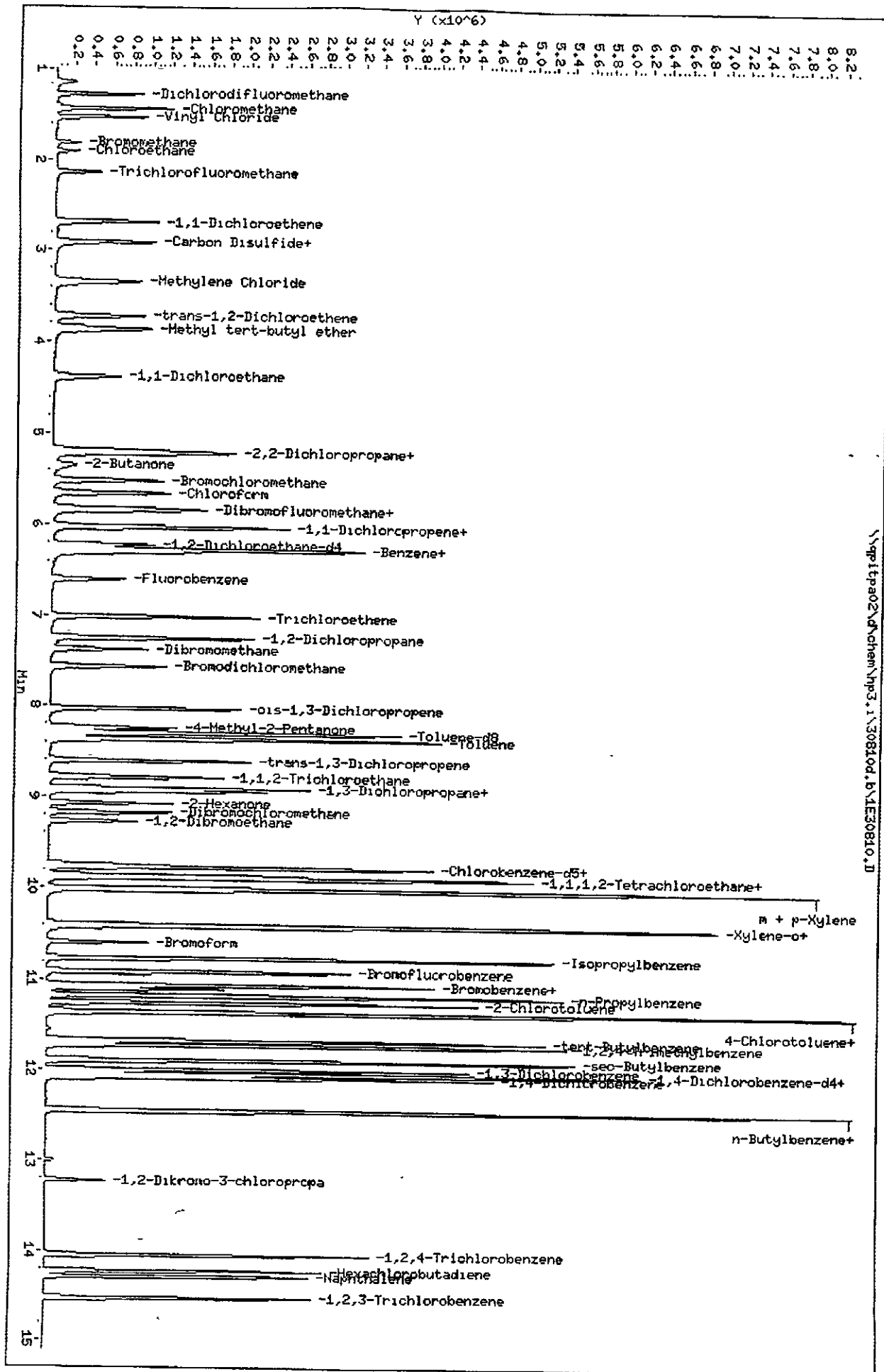
| Compounds                       | QUANT SIG |        |        |         |          | AMOUNTS          |                 |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                 | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                           | =====     | ==     | =====  | =====   | =====    | =====            | =====           |
| 18 Methylene Chloride           | 84        | 3 348  | 3 348  | (0.507) | 248862   | 500 000          | 453.0           |
| 19 trans-1,2-Dichloroethene     | 96        | 3 731  | 3 731  | (0.565) | 234099   | 500.000          | 466 1           |
| 20 Methyl tert-butyl ether      | 73        | 3.847  | 3 847  | (0.582) | 622172   | 500.000          | 527 0           |
| 24 1,1-Dichloroethane           | 63        | 4.388  | 4.388  | (0 664) | 514829   | 500.000          | 466 4           |
| 27 2,2-Dichloropropane          | 77        | 5.191  | 5.191  | (0.786) | 428895   | 500.000          | 506.9           |
| 28 cis-1,2-dichloroethene       | 96        | 5.215  | 5 215  | (0 789) | 360358   | 500.000          | 470.3           |
| M 29 1,2-Dichloroethene (total) | 96        |        |        |         | 594457   | 1000.00          | 937.3           |
| 30 Bromochloromethane           | 128       | 5 514  | 5.514  | (0 834) | 175900   | 500.000          | 465.7           |
| 31 2-Butanone                   | 43        | 5.331  | 5.331  | (0.807) | 306205   | 500.000          | 433.6           |
| 37 Chloroform                   | 83        | 5.647  | 5.647  | (0.855) | 528438   | 500.000          | 459 8           |
| 38 1,1,1-Trichloroethane        | 97        | 5.824  | 5.824  | (0 881) | 436982   | 500 000          | 486.0           |
| 40 1,1-Dichloropropene          | 75        | 6.031  | 6.031  | (0.913) | 369282   | 500.000          | 478 4           |
| 41 Carbon Tetrachloride         | 117       | 6.025  | 6.025  | (0.912) | 391219   | 500 000          | 494.9           |
| 42 Benzene                      | 78        | 6.268  | 6.268  | (0 948) | 1409231  | 500 000          | 456.9           |
| 45 1,2-Dichloroethane           | 62        | 6.304  | 6.304  | (0.954) | 498198   | 500 000          | 459.0           |
| 47 Trichloroethene              | 130       | 7.016  | 7.016  | (1.062) | 376582   | 500.000          | 471 3           |
| 49 1,2-Dichloropropane          | 63        | 7.247  | 7.247  | (1.097) | 422754   | 500 000          | 468.0           |
| 50 Dibromomethane               | 93        | 7 369  | 7 369  | (1.115) | 201027   | 500.000          | 463.7           |
| 53 Bromodichloromethane         | 83        | 7.564  | 7.564  | (1.145) | 418708   | 500.000          | 479.0           |
| 57 cis-1,3-Dichloropropene      | 75        | 8.026  | 8 026  | (1.214) | 531821   | 500.000          | 496.4           |
| 58 4-Methyl-2-Pentanone         | 43        | 8.233  | 8.233  | (0 845) | 598883   | 500.000          | 557.7           |
| 60 Toluene                      | 91        | 8 361  | 8.361  | (0.858) | 1659903  | 500.000          | 472 6           |
| 61 trans-1,3-Dichloropropene    | 75        | 8.604  | 8.604  | (0.883) | 553197   | 500.000          | 510 5           |
| 63 1,3-Dichloropropane          | 76        | 8.945  | 8.945  | (0.918) | 600250   | 500 000          | 463.4           |
| 64 1,1,2-Trichloroethane        | 97        | 8 786  | 8.786  | (0 902) | 327040   | 500 000          | 463.9           |
| 65 Tetrachloroethene            | 164       | 8 914  | 8.914  | (0.915) | 325094   | 500 000          | 423 8           |
| 66 2-Hexanone                   | 43        | 9.066  | 9.066  | (0 931) | 428549   | 500.000          | 558.3           |
| 67 Dibromochloromethane         | 129       | 9.170  | 9.170  | (0 941) | 359659   | 500.000          | 507.3           |
| 68 1,2-Dibromoethane            | 107       | 9.267  | 9.267  | (0.951) | 352448   | 500.000          | 476.0           |
| 70 Chlorobenzene                | 112       | 9.766  | 9.766  | (1.002) | 1152548  | 500.000          | 453.4           |
| 71 1,1,1,2-Tetrachloroethane    | 131       | 9.857  | 9 857  | (1 012) | 389478   | 500.000          | 478.7           |
| 72 Ethylbenzene                 | 106       | 9.888  | 9.888  | (1.015) | 638597   | 500.000          | 468 6           |
| 73 m + p-Xylene                 | 106       | 10.003 | 10 003 | (1.027) | 1501359  | 1000.00          | 892 3           |
| 74 Xylene-o                     | 106       | 10.392 | 10 392 | (1.067) | 736406   | 500 000          | 466.0           |
| M 75 Xylenes (total)            | 106       |        |        |         | 2237766  | 500 000          | 1416            |
| 76 Styrene                      | 104       | 10.411 | 10.411 | (1.069) | 1303528  | 500.000          | 458.6           |
| 77 Bromoform                    | 173       | 10.587 | 10 587 | (1 087) | 245169   | 500.000          | 521.2           |
| 78 Isopropylbenzene             | 105       | 10 764 | 10.764 | (1 105) | 1921199  | 500 000          | 471.4           |
| 79 Bromobenzene                 | 156       | 11.056 | 11.056 | (0 917) | 481958   | 500 000          | 471.7           |
| 81 n-Propylbenzene              | 120       | 11.171 | 11.171 | (0 926) | 559378   | 500.000          | 483.1           |
| 82 2-Chlorotoluene              | 126       | 11 250 | 11 250 | (0 933) | 477776   | 500.000          | 471 6           |
| 83 1,1,2,2-Tetrachloroethane    | 83        | 11 062 | 11 062 | (0.917) | 414872   | 500.000          | 452.3           |
| 84 1,2,3-Trichloropropane       | 110       | 11.098 | 11.098 | (0.920) | 144197   | 500 000          | 473.0           |
| 85 4-Chlorotoluene              | 126       | 11.360 | 11 360 | (0 942) | 466107   | 500.000          | 450.0           |
| 86 1,3,5-Trimethylbenzene       | 105       | 11.348 | 11 348 | (0 941) | 1533786  | 500 000          | 462 3           |
| 87 tert-Butylbenzene            | 119       | 11.670 | 11 670 | (0.968) | 1377372  | 500 000          | 479.1           |
| 88 1,2,4-Trimethylbenzene       | 105       | 11.719 | 11 719 | (0.972) | 1606479  | 500 000          | 473.4           |

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| Compounds                      | QUANT SIG |        |        |         | RESPONSE | AMOUNTS          |                 |
|--------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                | MASS      | RT     | EXP RT | REL RT  |          | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| 89 sec-Butylbenzene            | 105       | 11.889 | 11.889 | (0.986) | 2055819  | 500.000          | 461.2           |
| 90 4-Isopropyltoluene          | 119       | 12.035 | 12.035 | (0.998) | 1736964  | 500.000          | 466.6           |
| 91 1,3-Dichlorobenzene         | 146       | 11.992 | 11.992 | (0.994) | 948125   | 500.000          | 466.7           |
| 93 1,4-Dichlorobenzene         | 146       | 12.078 | 12.078 | (1.002) | 965415   | 500.000          | 459.7           |
| 94 n-Butylbenzene              | 91        | 12.443 | 12.443 | (1.032) | 1449536  | 500.000          | 446.0           |
| 95 1,2-Dichlorobenzene         | 146       | 12.449 | 12.449 | (1.032) | 830120   | 500.000          | 443.5           |
| 96 1,2-Dibromo-3-chloropropane | 157       | 13.221 | 13.221 | (1.096) | 82967    | 500.000          | 507.7           |
| 97 1,2,4-Trichlorobenzene      | 180       | 14.049 | 14.049 | (1.165) | 536596   | 500.000          | 460.8           |
| 98 Hexachlorobutadiene         | 225       | 14.231 | 14.231 | (1.180) | 259677   | 500.000          | 417.2           |
| 99 Naphthalene                 | 128       | 14.286 | 14.286 | (1.185) | 1012612  | 500.000          | 452.9           |
| 100 1,2,3-Trichlorobenzene     | 180       | 14.529 | 14.529 | (1.205) | 439814   | 500.000          | 428.5           |

Data File: \\spitpa02\chem\hp3.1\30810d.b\1E30810.D  
 Date: 10-AUG-2000 09:06  
 Client ID: VSTD200  
 Sample Info: VSTD200 SHL  
 Purge Volume: 5.0  
 Column Phase: DB 624

Instrument: hp3.1  
 Operator: 10099  
 Column diameter: 0.18



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STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\gpitpa02\d\chem\hp3.i\30810d.b\1E30810.D  
Lab Smp Id: VSTD200 Client Smp ID: VSTD200  
Inj Date : 10-AUG-2000 09:06 MS Autotune Date: 08-AUG-2000 16:28  
Operator : 10099 Inst ID: hp3.i  
Smp Info : VSTD200 5ML  
Misc Info : ,30810d.b,8260bh2o.m,4-dwh20.sub  
Comment :  
Method : \\QPITPA02\D\chem\hp3.i\30810d.b\8260bh2o.m  
Meth Date : 10-Aug-2000 09:39 gordonk Quant Type: ISTD  
Cal Date : 10-AUG-2000 09:06 Cal File: 1E30810.D  
Als bottle: 7 Calibration Sample, Level: 5  
Dil Factor: 1.00000  
Integrator: HP RTE  
Target Version: 4.04  
Processing Host: PITPC073

KEG  
8/14/00

Compound Sublist: 4-dwh20.sub

Concentration Formula: Amt \* DF \* 1/Vo\*Vt

| Name | Value | Description                            |
|------|-------|----------------------------------------|
| DF   | 1.000 | Dilution Factor                        |
| Vo   | 5.000 | Sample Volume                          |
| Vt   | 1.000 | mg/L conversion (1.0 if no conversion) |

| Compounds                   | QUANT SIG |        |        |         |          |  | AMOUNTS          |                 |
|-----------------------------|-----------|--------|--------|---------|----------|--|------------------|-----------------|
|                             | MASS      | RT     | EXP RT | REL RT  | RESPONSE |  | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| * 46 Fluorobenzene          | 96        | 6.608  | 6.608  | (1.000) | 754476   |  | 250.000          |                 |
| * 69 Chlorobenzene-d5       | 119       | 9.741  | 9.741  | (1.000) | 188870   |  | 250.000          |                 |
| * 92 1,4-Dichlorobenzene-d4 | 152       | 12.059 | 12.059 | (1.000) | 317726   |  | 250.000          |                 |
| \$ 39 Dibromofluoromethane  | 113       | 5.848  | 5.848  | (0.885) | 644875   |  | 1000.00          | 916.5           |
| \$ 43 1,2-Dichloroethane-d4 | 65        | 6.219  | 6.219  | (0.941) | 746031   |  | 1000.00          | 919.7           |
| \$ 59 Toluene-d8            | 98        | 8.299  | 8.299  | (0.852) | 2702534  |  | 1000.00          | 951.6           |
| \$ 80 Bromofluorobenzene    | 95        | 10.915 | 10.915 | (1.121) | 1098458  |  | 1000.00          | 930.5           |
| 1 Dichlorodifluoromethane   | 85        | 1.273  | 1.273  | (0.193) | 708809   |  | 1000.00          | 911.7           |
| 2 Chloromethane             | 50        | 1.431  | 1.431  | (0.217) | 1297323  |  | 1000.00          | 903.8           |
| 3 Vinyl Chloride            | 62        | 1.529  | 1.529  | (0.231) | 979406   |  | 1000.00          | 910.2           |
| 4 Bromomethane              | 94        | 1.814  | 1.814  | (0.275) | 137216   |  | 1000.00          | 809.2           |
| 5 Chloroethane              | 64        | 1.906  | 1.906  | (0.288) | 178162   |  | 1000.00          | 895.0           |
| 6 Trichlorofluoromethane    | 101       | 2.137  | 2.137  | (0.323) | 359254   |  | 1000.00          | 582.0           |
| 12 1,1-Dichloroethene       | 96        | 2.691  | 2.691  | (0.407) | 462484   |  | 1000.00          | 947.1           |
| 15 Carbon Disulfide         | 76        | 2.910  | 2.910  | (0.440) | 1481307  |  | 1000.00          | 1025            |
| 13 Acetone                  | 43        | 2.922  | 2.922  | (0.442) | 281416   |  | 1000.00          | 767.0           |

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| Compounds                       | QUANT SIG |        |        | REL RT  | RESPONSE | AMOUNTS          |                 |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                 | MASS      | RT     | EXP RT |         |          | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| 18 Methylene Chloride           | 84        | 3.348  | 3.348  | (0.507) | 531476   | 1000.00          | 928.6           |
| 19 trans-1,2-Dichloroethene     | 96        | 3.725  | 3.725  | (0.564) | 500648   | 1000.00          | 951.5           |
| 20 Methyl tert-butyl ether      | 73        | 3.865  | 3.865  | (0.585) | 1378947  | 1000.00          | 1080            |
| 24 1,1-Dichloroethane           | 63        | 4.388  | 4.388  | (0.664) | 1091458  | 1000.00          | 945.2           |
| 27 2,2-Dichloropropane          | 77        | 5.191  | 5.191  | (0.786) | 902799   | 1000.00          | 1005            |
| 28 cis-1,2-dichloroethene       | 96        | 5.215  | 5.215  | (0.789) | 736202   | 1000.00          | 923.5           |
| M 29 1,2-Dichloroethene (total) | 96        |        |        |         | 1236851  | 2000.00          | 1869            |
| 30 Bromochloromethane           | 128       | 5.513  | 5.513  | (0.834) | 367933   | 1000.00          | 933.8           |
| 31 2-Butanone                   | 43        | 5.349  | 5.349  | (0.809) | 627237   | 1000.00          | 865.8           |
| 37 Chloroform                   | 83        | 5.653  | 5.653  | (0.855) | 1085170  | 1000.00          | 910.3           |
| 38 1,1,1-Trichloroethane        | 97        | 5.823  | 5.823  | (0.881) | 919983   | 1000.00          | 971.6           |
| 40 1,1-Dichloropropene          | 75        | 6.030  | 6.030  | (0.913) | 777035   | 1000.00          | 958.9           |
| 41 Carbon Tetrachloride         | 117       | 6.018  | 6.018  | (0.911) | 832049   | 1000.00          | 994.0           |
| 42 Benzene                      | 78        | 6.274  | 6.274  | (0.949) | 2867219  | 1000.00          | 898.9           |
| 45 1,2-Dichloroethane           | 62        | 6.310  | 6.310  | (0.955) | 1031865  | 1000.00          | 915.4           |
| 47 Trichloroethene              | 130       | 7.016  | 7.016  | (1.062) | 798383   | 1000.00          | 953.3           |
| 49 1,2-Dichloropropane          | 63        | 7.253  | 7.253  | (1.098) | 890388   | 1000.00          | 942.8           |
| 50 Dibromomethane               | 93        | 7.375  | 7.375  | (1.116) | 408776   | 1000.00          | 909.3           |
| 53 Bromodichloromethane         | 83        | 7.569  | 7.569  | (1.145) | 864767   | 1000.00          | 945.6           |
| 57 cis-1,3-Dichloropropene      | 75        | 8.032  | 8.032  | (1.215) | 1097100  | 1000.00          | 972.4           |
| 58 4-Methyl-2-Pentanone         | 43        | 8.245  | 8.245  | (0.846) | 1212966  | 1000.00          | 1107            |
| 60 Toluene                      | 91        | 8.366  | 8.366  | (0.859) | 3227156  | 1000.00          | 939.4           |
| 61 trans-1,3-Dichloropropene    | 75        | 8.610  | 8.610  | (0.884) | 1121070  | 1000.00          | 1033            |
| 63 1,3-Dichloropropane          | 76        | 8.944  | 8.944  | (0.918) | 1183371  | 1000.00          | 935.0           |
| 64 1,1,2-Trichloroethane        | 97        | 8.792  | 8.792  | (0.903) | 647769   | 1000.00          | 939.3           |
| 65 Tetrachloroethene            | 164       | 8.914  | 8.914  | (0.915) | 647408   | 1000.00          | 876.2           |
| 66 2-Hexanone                   | 43        | 9.078  | 9.078  | (0.932) | 876513   | 1000.00          | 1116            |
| 67 Dibromochloromethane         | 129       | 9.175  | 9.175  | (0.942) | 737424   | 1000.00          | 1038            |
| 68 1,2-Dibromoethane            | 107       | 9.273  | 9.273  | (0.952) | 705862   | 1000.00          | 967.8           |
| 70 Chlorobenzene                | 112       | 9.772  | 9.772  | (1.003) | 2220058  | 1000.00          | 901.2           |
| 71 1,1,1,2-Tetrachloroethane    | 131       | 9.857  | 9.857  | (1.012) | 769600   | 1000.00          | 961.7           |
| 72 Ethylbenzene                 | 106       | 9.887  | 9.887  | (1.015) | 1213953  | 1000.00          | 915.9           |
| 73 m + p-Xylene                 | 106       | 10.009 | 10.009 | (1.027) | 2784665  | 2000.00          | 1724            |
| 74 Xylene-o                     | 106       | 10.398 | 10.398 | (1.067) | 1386166  | 1000.00          | 904.5           |
| M 75 Xylenes (total)            | 106       |        |        |         | 4170832  | 1000.00          | 2722            |
| 76 Styrene                      | 104       | 10.417 | 10.417 | (1.069) | 2418033  | 1000.00          | 882.0           |
| 77 Bromoform                    | 173       | 10.593 | 10.593 | (1.087) | 506707   | 1000.00          | 1067            |
| 78 Isopropylbenzene             | 105       | 10.769 | 10.769 | (1.106) | 3672597  | 1000.00          | 924.7           |
| 79 Bromobenzene                 | 156       | 11.055 | 11.055 | (0.917) | 927408   | 1000.00          | 941.7           |
| 81 n-Propylbenzene              | 120       | 11.177 | 11.177 | (0.927) | 1072910  | 1000.00          | 957.6           |
| 82 2-Chlorotoluene              | 126       | 11.256 | 11.256 | (0.933) | 929318   | 1000.00          | 949.8           |
| 83 1,1,2,2-Tetrachloroethane    | 83        | 11.067 | 11.067 | (0.918) | 776216   | 1000.00          | 889.4           |
| 84 1,2,3-Trichloropropane       | 110       | 11.104 | 11.104 | (0.921) | 282476   | 1000.00          | 957.5           |
| 85 4-Chlorotoluene              | 126       | 11.366 | 11.366 | (0.942) | 875935   | 1000.00          | 888.7           |
| 86 1,3,5-Trimethylbenzene       | 105       | 11.353 | 11.353 | (0.941) | 2887485  | 1000.00          | 910.0           |
| 87 tert-Butylbenzene            | 119       | 11.676 | 11.676 | (0.968) | 2693202  | 1000.00          | 966.1           |
| 88 1,2,4-Trimethylbenzene       | 105       | 11.724 | 11.724 | (0.972) | 3095410  | 1000.00          | 945.5           |

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| Compounds                      | QUANT SIG |        |        |         | RESPONSE | AMOUNTS          |                 |
|--------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                | MASS      | RT     | EXP RT | REL RT  |          | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| *****                          | ***       | **     | *****  | *****   | *****    | *****            | *****           |
| 89 sec-Butylbenzene            | 105       | 11.889 | 11.889 | (0.986) | 3998500  | 1000.00          | 932.6           |
| 90 4-Isopropyltoluene          | 119       | 12.041 | 12.041 | (0.998) | 3389482  | 1000.00          | 944.1           |
| 91 1,3-Dichlorobenzene         | 146       | 11.992 | 11.992 | (0.994) | 1838978  | 1000.00          | 939.6           |
| 93 1,4-Dichlorobenzene         | 146       | 12.083 | 12.083 | (1.002) | 1879174  | 1000.00          | 930.8           |
| 94 n-Butylbenzene              | 91        | 12.442 | 12.442 | (1.032) | 2752177  | 1000.00          | 889.8           |
| 95 1,2-Dichlorobenzene         | 146       | 12.448 | 12.448 | (1.032) | 1563416  | 1000.00          | 879.8           |
| 96 1,2-Dibromo-3-chloropropane | 157       | 13.221 | 13.221 | (1.096) | 173318   | 1000.00          | 1066            |
| 97 1,2,4-Trichlorobenzene      | 180       | 14.048 | 14.048 | (1.165) | 1073031  | 1000.00          | 953.2           |
| 98 Hexachlorobutadiene         | 225       | 14.231 | 14.231 | (1.180) | 536864   | 1000.00          | 903.3           |
| 99 Naphthalene                 | 128       | 14.292 | 14.292 | (1.185) | 2050999  | 1000.00          | 949.8           |
| 100 1,2,3-Trichlorobenzene     | 180       | 14.535 | 14.535 | (1.205) | 894194   | 1000.00          | 910.8           |



FORM 7  
VOLATILE CONTINUING CALIBRATION CHECK

674 156

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: 31106D

Instrument ID: HP3

Calibration Date: 11/06/00

Time: 0621

Lab File ID: 1C31106

Init. Calib. Date(s): 08/10/00

08/10/00

Heated Purge: (Y/N) N

Init. Calib. Times: 0656

0906

GC Column: DB 624 ID: 0.18 (mm)

| COMPOUND                  | RRF   | RRF50 | MIN<br>RRF | %D   | MAX<br>%D |
|---------------------------|-------|-------|------------|------|-----------|
| Dichlorodifluoromethane   | 0.258 | 0.158 | 0.01       | 38.8 | 50.0      |
| Chloromethane             | 0.476 | 0.370 | 0.1        | 22.3 | 50.0      |
| Vinyl Chloride            | 0.356 | 0.333 | 0.01       | 6.5  | 20.0      |
| Bromomethane              | 0.056 | 0.075 | 0.01       | 33.9 | 50.0      |
| Chloroethane              | 0.066 | 0.063 | 0.01       | 4.5  | 50.0      |
| Trichlorofluoromethane    | 0.204 | 0.336 | 0.01       | 64.7 | 50.0      |
| 1,1-Dichloroethene        | 0.162 | 0.150 | 0.01       | 7.4  | 20.0      |
| Methylene Chloride        | 0.190 | 0.179 | 0.01       | 5.8  | 50.0      |
| trans-1,2-Dichloroethene  | 0.174 | 0.178 | 0.01       | 2.3  | 50.0      |
| 1,1-Dichloroethane        | 0.383 | 0.378 | 0.1        | 1.3  | 50.0      |
| cis-1,2-dichloroethene    | 0.264 | 0.248 | 0.01       | 6.1  | 50.0      |
| Chloroform                | 0.395 | 0.380 | 0.01       | 3.8  | 20.0      |
| Bromochloromethane        | 0.131 | 0.116 | 0.01       | 11.4 | 50.0      |
| 1,1,1-Trichloroethane     | 0.314 | 0.323 | 0.01       | 2.9  | 50.0      |
| Carbon Tetrachloride      | 0.277 | 0.277 | 0.01       | 0.0  | 50.0      |
| 1,2-Dichloroethane        | 0.373 | 0.301 | 0.01       | 19.3 | 50.0      |
| Benzene                   | 1.057 | 0.897 | 0.01       | 15.1 | 50.0      |
| Trichloroethene           | 0.277 | 0.249 | 0.01       | 10.1 | 50.0      |
| 1,2-Dichloropropane       | 0.313 | 0.251 | 0.01       | 19.8 | 20.0      |
| Bromodichloromethane      | 0.303 | 0.280 | 0.01       | 7.6  | 50.0      |
| cis-1,3-Dichloropropene   | 0.374 | 0.341 | 0.01       | 8.8  | 50.0      |
| Toluene                   | 4.547 | 4.468 | 0.01       | 1.7  | 20.0      |
| trans-1,3-Dichloropropene | 1.436 | 1.223 | 0.01       | 14.8 | 50.0      |
| 1,1,2-Trichloroethane     | 0.913 | 0.840 | 0.01       | 8.0  | 50.0      |
| Tetrachloroethene         | 0.978 | 0.903 | 0.01       | 7.7  | 50.0      |
| Dibromochloromethane      | 0.941 | 0.900 | 0.01       | 4.4  | 50.0      |
| Chlorobenzene             | 3.261 | 2.980 | 0.3        | 8.6  | 50.0      |
| Ethylbenzene              | 1.754 | 1.619 | 0.01       | 7.7  | 20.0      |
| Styrene                   | 3.629 | 3.318 | 0.01       | 8.6  | 50.0      |
| Bromoform                 | 0.629 | 0.500 | 0.1        | 20.5 | 50.0      |
| 1,1,2,2-Tetrachloroethane | 0.687 | 0.550 | 0.3        | 19.9 | 50.0      |
| 1,3-Dichlorobenzene       | 1.540 | 1.456 | 0.01       | 5.4  | 50.0      |
| 1,4-Dichlorobenzene       | 1.589 | 1.478 | 0.01       | 7.0  | 50.0      |
| 1,2-Dichlorobenzene       | 1.398 | 1.264 | 0.01       | 9.6  | 50.0      |
| Dibromomethane            | 0.149 | 0.126 | 0.01       | 15.4 | 50.0      |
| 1,2-Dibromoethane         | 0.965 | 0.810 | 0.01       | 16.1 | 50.0      |
| 1,1,1,2-Tetrachloroethane | 1.059 | 0.982 | 0.01       | 7.3  | 50.0      |

<-

FORM 7  
VOLATILE CONTINUING CALIBRATION CHECK

674 157

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: 31106D

Instrument ID: HP3

Calibration Date: 11/06/00 Time: 0621

Lab File ID: 1C31106

Init. Calib. Date(s): 08/10/00 08/10/00

Heated Purge: (Y/N) N

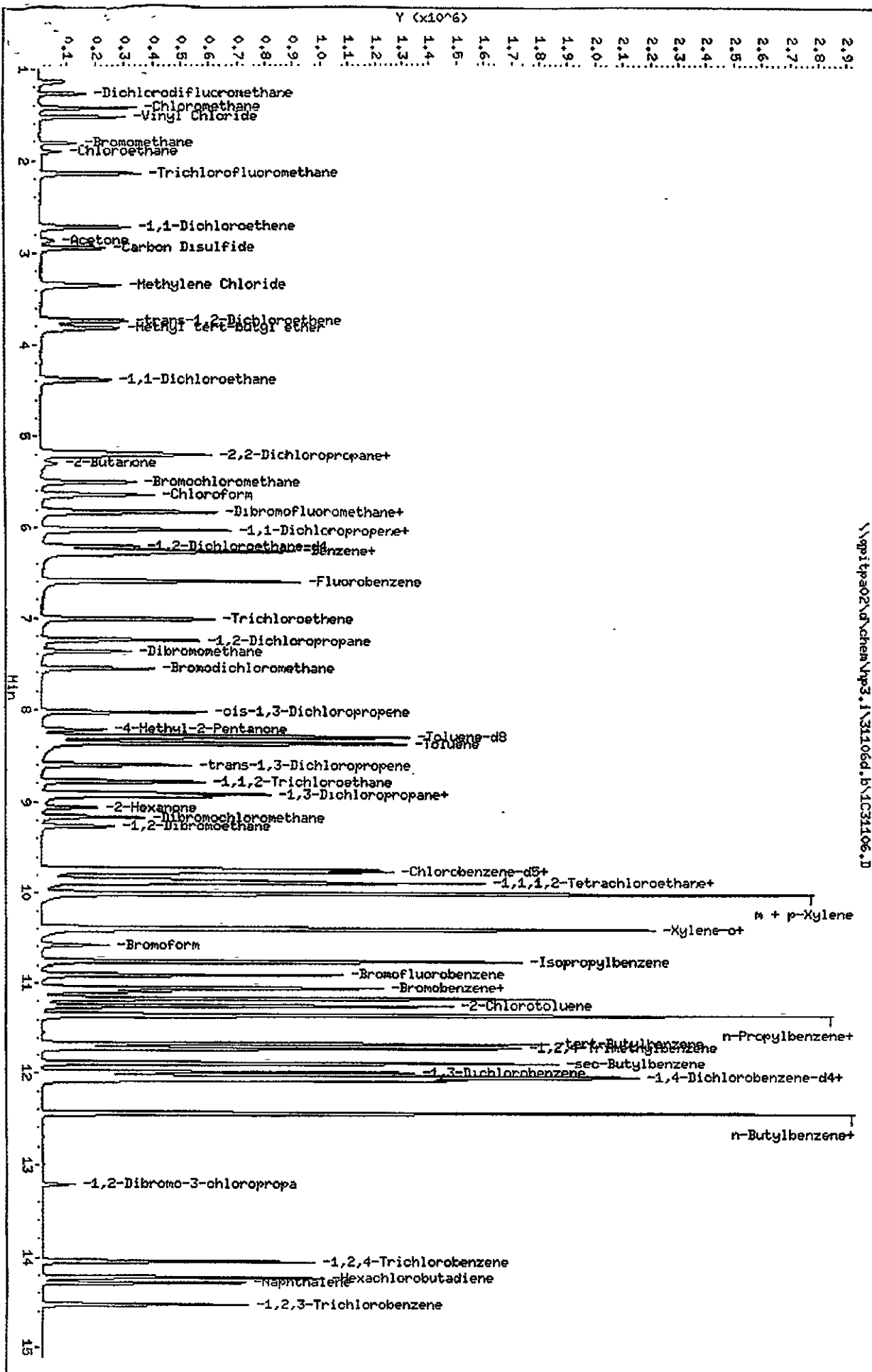
Init. Calib. Times: 0656 0906

GC Column: DB 624 ID: 0.18 (mm)

| COMPOUND                    | RRF   | RRF50 | MIN<br>RRF | %D    | MAX<br>%D |
|-----------------------------|-------|-------|------------|-------|-----------|
| =====                       | ===== | ===== | =====      | ===== | =====     |
| 1,2,3-Trichloropropane      | 0.232 | 0.184 | 0.01       | 20.7  | 50.0      |
| 1,2-Dibromo-3-chloropropane | 0.128 | 0.074 | 0.01       | 42.2  | 50.0      |
| 2,2-Dichloropropane         | 0.298 | 0.274 | 0.01       | 8.0   | 50.0      |
| 1,1-Dichloropropene         | 0.269 | 0.207 | 0.01       | 23.0  | 50.0      |
| 1,3-Dichloropropane         | 1.675 | 1.443 | 0.01       | 13.8  | 50.0      |
| n-Propylbenzene             | 1.274 | 1.260 | 0.01       | 1.1   | 50.0      |
| Bromobenzene                | 0.775 | 0.734 | 0.01       | 5.3   | 50.0      |
| 1,3,5-Trimethylbenzene      | 2.497 | 2.496 | 0.01       | 0.0   | 50.0      |
| 2-Chlorotoluene             | 0.770 | 0.732 | 0.01       | 4.9   | 50.0      |
| 4-Chlorotoluene             | 0.775 | 0.732 | 0.01       | 5.5   | 50.0      |
| tert-Butylbenzene           | 2.193 | 2.237 | 0.01       | 2.0   | 50.0      |
| 1,2,4-Trimethylbenzene      | 2.576 | 2.568 | 0.01       | 0.3   | 50.0      |
| sec-Butylbenzene            | 3.373 | 3.277 | 0.01       | 2.8   | 50.0      |
| 4-Isopropyltoluene          | 2.825 | 2.825 | 0.01       | 0.0   | 50.0      |
| n-Butylbenzene              | 2.434 | 2.613 | 0.01       | 7.4   | 50.0      |
| 1,2,4-Trichlorobenzene      | 0.886 | 0.755 | 0.01       | 14.8  | 50.0      |
| Hexachlorobutadiene         | 0.468 | 0.492 | 0.01       | 5.1   | 50.0      |
| Naphthalene                 | 1.699 | 1.410 | 0.01       | 17.0  | 50.0      |
| 1,2,3-Trichlorobenzene      | 0.773 | 0.586 | 0.01       | 24.2  | 50.0      |
| Acetone                     | 0.121 | 0.086 | 0.01       | 28.9  | 50.0      |
| Carbon Disulfide            | 0.479 | 0.413 | 0.01       | 13.8  | 50.0      |
| 2-Butanone                  | 0.240 | 0.104 | 0.01       | 56.7  | 50.0      |
| 4-Methyl-2-Pentanone        | 1.450 | 0.753 | 0.01       | 48.1  | 50.0      |
| 2-Hexanone                  | 1.039 | 0.611 | 0.01       | 41.2  | 50.0      |
| Methyl tert-butyl ether     | 0.423 | 0.405 | 0.01       | 4.2   | 50.0      |
| Isopropylbenzene            | 5.257 | 5.093 | 0.01       | 3.1   | 50.0      |
| 1,2-Dichloroethene (total)  | 0.219 | 0.213 | 0.01       | 2.7   | 50.0      |
| Xylenes (total)             | 2.029 | 1.915 | 0.01       | 5.6   | 50.0      |
| =====                       | ===== | ===== | =====      | ===== | =====     |
| Dibromofluoromethane        | 0.233 | 0.224 | 0.01       | 3.9   | 50.0      |
| 1,2-Dichloroethane-d4       | 0.269 | 0.263 | 0.01       | 2.2   | 50.0      |
| Toluene-d8                  | 3.759 | 4.133 | 0.01       | 9.9   | 50.0      |
| Bromofluorobenzene          | 1.563 | 1.692 | 0.01       | 8.2   | 50.0      |

Data File: \\ppitpa02\chem\p3.1\31106d.b\1031106.D  
 Date: 06-NOV-2000 06:24  
 Client ID: vstd50  
 Sample Info: VSTD50 SHL  
 Purge Volume: 5.0  
 Column Phase: DB 624

Instrument: hp3.1  
 Operator: 10059  
 Column diameter: 0.18



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STL-Pittsburgh

VOLATILE REPORT SW-846 Method  
Data file : \\qpitpa02\d\chem\hp3.i\31106d.b\1C31106.D  
Lab Smp Id: vstd50 Client Smp ID: vstd50  
Inj Date : 06-NOV-2000 06:21 MS Autotune Date: 08-AUG-2000 16:28  
Operator : 10099 Inst ID: hp3.i  
Smp Info : VSTD50 5ML  
Misc Info : ,31106d.b,8260bh2o.m,4-dwh20.sub  
Comment :  
Method : \\QPITPA02\D\chem\hp3.i\31106d.b\8260bh2o.m  
Meth Date : 06-Nov-2000 06:57 gordonk Quant Type: ISTD  
Cal Date : 10-AUG-2000 06:56 Cal File: CC30810.D  
Als bottle: 2 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 4-dwh20.sub  
Target Version: 4.04  
Processing Host: PITPC063

Concentration Formula: Amt \* DF \* 1/Vo\*Vt

| Name | Value | Description                            |
|------|-------|----------------------------------------|
| DF   | 1.000 | Dilution Factor                        |
| Vo   | 5.000 | Sample Volume                          |
| Vt   | 1.000 | mg/L conversion (1.0 if no conversion) |

| Compounds                   | QUANT SIG | MASS   | RT     | EXP RT  | REL RT | RESPONSE | AMOUNTS |        |
|-----------------------------|-----------|--------|--------|---------|--------|----------|---------|--------|
|                             |           |        |        |         |        |          | CAL-AMT | ON-COL |
|                             |           |        |        |         |        |          | ( ng)   | ( ng)  |
| * 46 Fluorobenzene          | 96        | 6.596  | 6.596  | (1.000) | 890656 | 250.000  |         |        |
| * 69 Chlorobenzene-d5       | 119       | 9.735  | 9.735  | (1.000) | 218649 | 250.000  |         |        |
| * 92 1,4-Dichlorobenzene-d4 | 152       | 12.053 | 12.053 | (1.000) | 373504 | 250.000  |         |        |
| \$ 39 Dibromofluoromethane  | 113       | 5.830  | 5.830  | (0.884) | 199483 | 250.000  |         | 240.2  |
| \$ 43 1,2-Dichloroethane-d4 | 65        | 6.207  | 6.207  | (0.941) | 234233 | 250.000  |         | 244.6  |
| \$ 59 Toluene-d8            | 98        | 8.287  | 8.287  | (0.851) | 903719 | 250.000  |         | 274.9  |
| \$ 80 Bromofluorobenzene    | 95        | 10.903 | 10.903 | (1.120) | 369973 | 250.000  |         | 270.7  |
| 1 Dichlorodifluoromethane   | 85        | 1.273  | 1.273  | (0.193) | 140646 | 250.000  |         | 153.2  |
| 2 Chloromethane             | 50        | 1.425  | 1.425  | (0.216) | 329127 | 250.000  |         | 194.2  |
| 3 Vinyl Chloride            | 62        | 1.529  | 1.529  | (0.232) | 296927 | 250.000  |         | 233.8  |
| 4 Bromomethane              | 94        | 1.815  | 1.815  | (0.275) | 66892  | 250.000  |         | 334.2  |
| 5 Chloroethane              | 64        | 1.900  | 1.900  | (0.288) | 56416  | 250.000  |         | 240.1  |
| 6 Trichlorofluoromethane    | 101       | 2.137  | 2.137  | (0.324) | 299467 | 250.000  |         | 411.0  |
| 12 1,1-Dichloroethene       | 96        | 2.715  | 2.715  | (0.412) | 133735 | 250.000  |         | 232.0  |
| 15 Carbon Disulfide         | 76        | 2.940  | 2.940  | (0.446) | 368101 | 250.000  |         | 215.7  |
| 13 Acetone                  | 43        | 2.855  | 2.855  | (0.433) | 76208  | 250.000  |         | 176.0  |

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| Compounds                       | QUANT SIG |        |        |         | RESPONSE | AMOUNTS          |                 |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                 | MASS      | RT     | EXP RT | REL RT  |          | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| *****                           | ----      | ==     | -----  | -----   | -----    | -----            | -----           |
| 18 Methylene Chloride           | 84        | 3.348  | 3.348  | (0.508) | 159179   | 250.000          | 235.6           |
| 19 trans-1,2-Dichloroethene     | 96        | 3.731  | 3.731  | (0.566) | 158724   | 250.000          | 255.5           |
| 20 Methyl tert-butyl ether      | 73        | 3.810  | 3.810  | (0.578) | 360386   | 250.000          | 239.0           |
| 24 1,1-Dichloroethane           | 63        | 4.382  | 4.382  | (0.664) | 336624   | 250.000          | 246.9           |
| 27 2,2-Dichloropropane          | 77        | 5.185  | 5.185  | (0.786) | 244264   | 250.000          | 230.3           |
| 28 cis-1,2-dichloroethene       | 96        | 5.209  | 5.209  | (0.790) | 220439   | 250.000          | 234.2           |
| M 29 1,2-Dichloroethene (total) | 96        |        |        |         | 379163   | 500.000          | 485.4           |
| 30 Bromochloromethane           | 128       | 5.507  | 5.507  | (0.835) | 103637   | 250.000          | 222.8           |
| 31 2-Butanone                   | 43        | 5.300  | 5.300  | (0.804) | 92809    | 250.000          | 108.5           |
| 37 Chloroform                   | 83        | 5.641  | 5.641  | (0.855) | 338313   | 250.000          | 240.4           |
| 38 1,1,1-Trichloroethane        | 97        | 5.817  | 5.817  | (0.882) | 287771   | 250.000          | 257.4           |
| 40 1,1-Dichloropropene          | 75        | 6.024  | 6.024  | (0.913) | 184781   | 250.000          | 193.2           |
| 41 Carbon Tetrachloride         | 117       | 6.018  | 6.018  | (0.912) | 246693   | 250.000          | 249.7           |
| 42 Benzene                      | 78        | 6.262  | 6.262  | (0.949) | 798930   | 250.000          | 212.2           |
| 45 1,2-Dichloroethane           | 62        | 6.298  | 6.298  | (0.955) | 268512   | 250.000          | 201.8           |
| 47 Trichloroethene              | 130       | 7.010  | 7.010  | (1.063) | 221730   | 250.000          | 224.3           |
| 49 1,2-Dichloropropane          | 63        | 7.241  | 7.241  | (1.098) | 223969   | 250.000          | 200.9           |
| 50 Dibromomethane               | 93        | 7.363  | 7.363  | (1.116) | 112220   | 250.000          | 211.5           |
| 53 Bromodichloromethane         | 83        | 7.551  | 7.551  | (1.145) | 249788   | 250.000          | 231.4           |
| 57 cis-1,3-Dichloropropene      | 75        | 8.020  | 8.020  | (1.216) | 303600   | 250.000          | 227.9           |
| 58 4-Methyl-2-Pentanone         | 43        | 8.214  | 8.214  | (0.844) | 164665   | 250.000          | 129.8           |
| 60 Toluene                      | 91        | 8.354  | 8.354  | (0.858) | 976952   | 250.000          | 245.6           |
| 61 trans-1,3-Dichloropropene    | 75        | 8.598  | 8.598  | (0.883) | 267438   | 250.000          | 212.9           |
| 63 1,3-Dichloropropane          | 76        | 8.932  | 8.932  | (0.918) | 315512   | 250.000          | 215.3           |
| 64 1,1,2-Trichloroethane        | 97        | 8.774  | 8.774  | (0.901) | 183685   | 250.000          | 230.1           |
| 65 Tetrachloroethene            | 164       | 8.908  | 8.908  | (0.915) | 197512   | 250.000          | 230.9           |
| 66 2-Hexanone                   | 43        | 9.060  | 9.060  | (0.931) | 133681   | 250.000          | 147.1           |
| 67 Dibromochloromethane         | 129       | 9.163  | 9.163  | (0.941) | 196772   | 250.000          | 239.2           |
| 68 1,2-Dibromoethane            | 107       | 9.261  | 9.261  | (0.951) | 177102   | 250.000          | 209.7           |
| 70 Chlorobenzene                | 112       | 9.760  | 9.760  | (1.002) | 651675   | 250.000          | 228.5           |
| 71 1,1,1,2-Tetrachloroethane    | 131       | 9.845  | 9.845  | (1.011) | 214778   | 250.000          | 231.8           |
| 72 Ethylbenzene                 | 106       | 9.881  | 9.881  | (1.015) | 353979   | 250.000          | 230.7           |
| 73 m + p-Xylene                 | 106       | 9.997  | 9.997  | (1.027) | 888848   | 500.000          | 475.4           |
| 74 Xylene-o                     | 106       | 10.386 | 10.386 | (1.067) | 418639   | 250.000          | 236.0           |
| M 75 Xylenes (total)            | 106       |        |        |         | 1307487  | 250.000          | 737.0           |
| 76 Styrene                      | 104       | 10.404 | 10.404 | (1.069) | 725471   | 250.000          | 228.6           |
| 77 Bromoform                    | 173       | 10.581 | 10.581 | (1.087) | 109300   | 250.000          | 198.8           |
| 78 Isopropylbenzene             | 105       | 10.757 | 10.757 | (1.105) | 1113505  | 250.000          | 242.2           |
| 79 Bromobenzene                 | 156       | 11.049 | 11.049 | (0.917) | 274116   | 250.000          | 236.8           |
| 81 n-Propylbenzene              | 120       | 11.347 | 11.347 | (0.941) | 470675   | 250.000          | 247.3           |
| 82 2-Chlorotoluene              | 126       | 11.244 | 11.244 | (0.933) | 273548   | 250.000          | 237.8           |
| 83 1,1,2,2-Tetrachloroethane    | 83        | 11.055 | 11.055 | (0.917) | 205589   | 250.000          | 200.4           |
| 84 1,2,3-Trichloropropane       | 110       | 11.092 | 11.092 | (0.920) | 68657    | 250.000          | 198.1           |
| 85 4-Chlorotoluene              | 126       | 11.353 | 11.353 | (0.942) | 273260   | 250.000          | 235.8           |
| 86 1,3,5-Trimethylbenzene       | 105       | 11.347 | 11.347 | (0.941) | 932361   | 250.000          | 250.0           |
| 87 tert-Butylbenzene            | 119       | 11.664 | 11.664 | (0.968) | 835442   | 250.000          | 254.9           |
| 88 1,2,4-Trimethylbenzene       | 105       | 11.712 | 11.712 | (0.972) | 958988   | 250.000          | 249.2           |

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| Compounds                      | QUANT SIG |        |        |         |          | AMOUNTS |        |
|--------------------------------|-----------|--------|--------|---------|----------|---------|--------|
|                                | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT | ON-COL |
|                                |           |        |        |         |          | ( ng)   | ( ng)  |
| =====                          | =====     | ==     | =====  | =====   | =====    | =====   | =====  |
| 89 sec-Butylbenzene            | 105       | 11.883 | 11.883 | (0.986) | 1223982  | 250.000 | 242.9  |
| 90 4-Isopropyltoluene          | 119       | 12.029 | 12.029 | (0.998) | 1055205  | 250.000 | 250.0  |
| 91 1,3-Dichlorobenzene         | 146       | 11.986 | 11.986 | (0.994) | 543877   | 250.000 | 236.4  |
| 93 1,4-Dichlorobenzene         | 146       | 12.077 | 12.077 | (1.002) | 552015   | 250.000 | 232.6  |
| 94 n-Butylbenzene              | 91        | 12.436 | 12.436 | (1.032) | 975970   | 250.000 | 268.4  |
| 95 1,2-Dichlorobenzene         | 146       | 12.442 | 12.442 | (1.032) | 472031   | 250.000 | 226.0  |
| 96 1,2-Dibromo-3-chloropropane | 157       | 13.215 | 13.215 | (1.096) | 27800    | 250.000 | 145.5  |
| 97 1,2,4-Trichlorobenzene      | 180       | 14.042 | 14.042 | (1.165) | 282095   | 250.000 | 213.2  |
| 98 Hexachlorobutadiene         | 225       | 14.225 | 14.225 | (1.180) | 183853   | 250.000 | 263.1  |
| 99 Naphthalene                 | 128       | 14.286 | 14.286 | (1.185) | 526568   | 250.000 | 207.4  |
| 100 1,2,3-Trichlorobenzene     | 180       | 14.529 | 14.529 | (1.205) | 218846   | 250.000 | 189.6  |

GC/MS VOLATILE  
QC DATA

Date : 10-AUG-2000 06:30

Client ID: 31019D

Instrument: hp3.i

Sample Info: BFB 192-188-2 50NG

Volume Injected (uL): 1.0

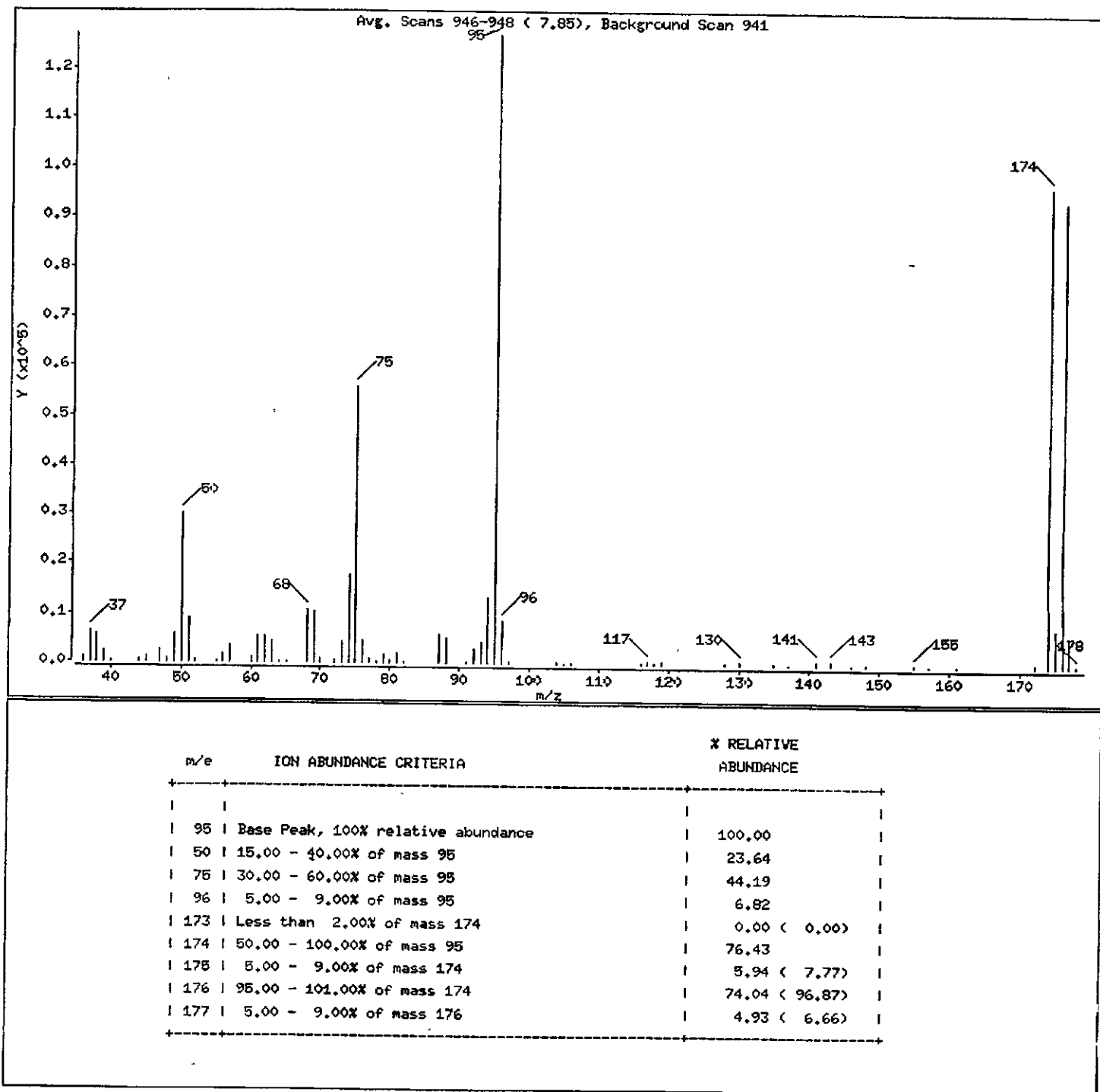
Operator: 10099

Column phase: DB624 20m

Column diameter: 0.18

1 bfb

674 163





Date: 10-AUG-2000 06:30

Client ID: 31019D

Instrument: hp3.1

Sample Info: BFB 192-188-2 50NG

Volume Injected (uL): 1.0

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.18

Data File: BF30810.D

Spectrum: Avg. Scans 946-948 ( 7.85), Background Scan 941

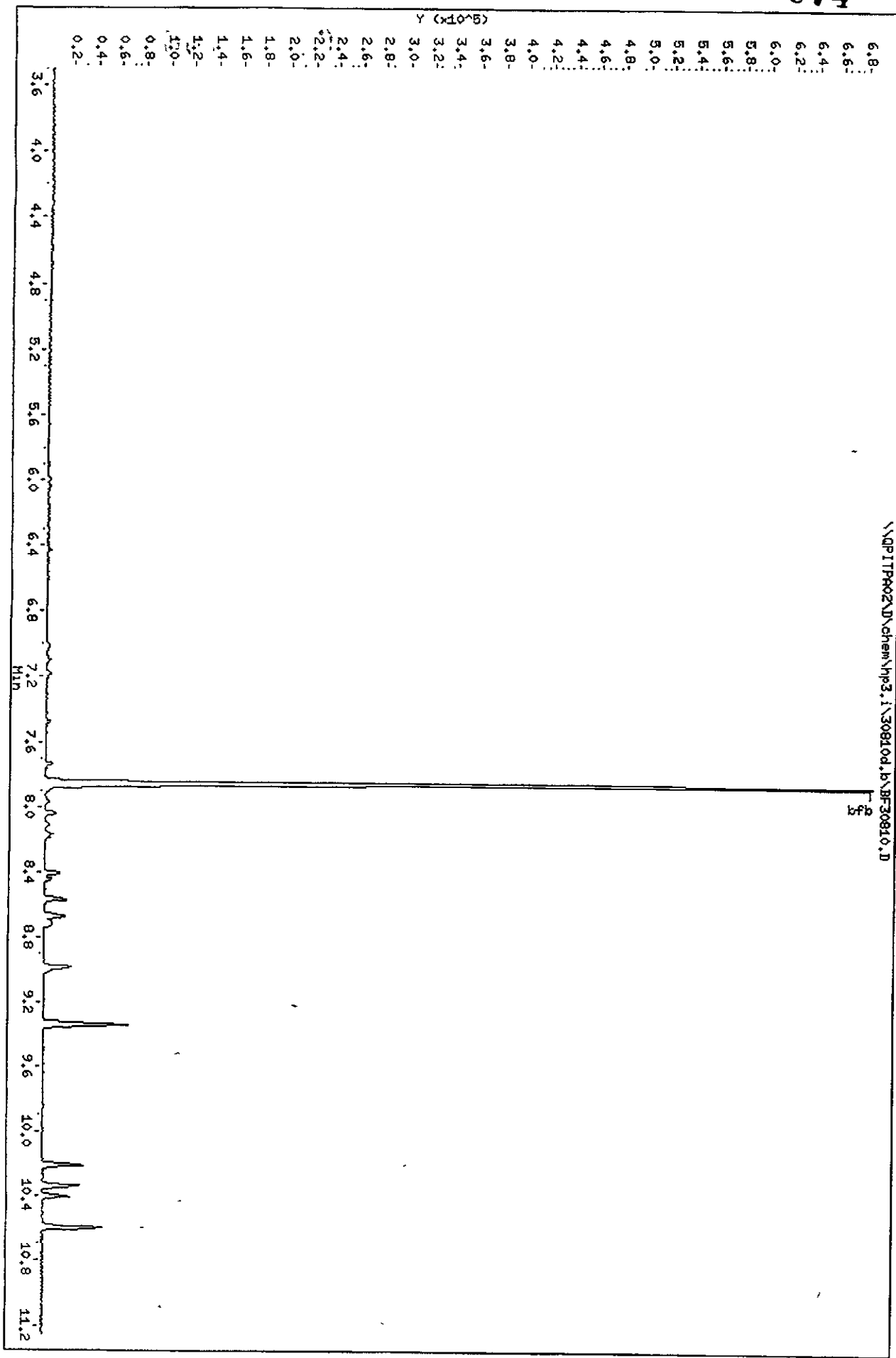
Location of Maximum: 98.00

Number of points: 71

| m/z   | Y     | m/z   | Y     | m/z    | Y      | m/z    | Y     |
|-------|-------|-------|-------|--------|--------|--------|-------|
| 36.00 | 1177  | 61.00 | 5423  | 82.00  | 395    | 129.00 | 78    |
| 37.00 | 6338  | 62.00 | 5523  | 87.00  | 5891   | 130.00 | 459   |
| 38.00 | 5927  | 63.00 | 4280  | 88.00  | 5314   | 135.00 | 197   |
| 39.00 | 2432  | 64.00 | 436   | 91.00  | 247    | 137.00 | 93    |
| 40.00 | 179   | 65.00 | 368   | 92.00  | 3023   | 141.00 | 997   |
| 44.00 | 648   | 68.00 | 10704 | 93.00  | 4462   | 143.00 | 950   |
| 45.00 | 1252  | 69.00 | 10533 | 94.00  | 13374  | 146.00 | 78    |
| 47.00 | 2625  | 70.00 | 783   | 95.00  | 126904 | 148.00 | 227   |
| 48.00 | 882   | 72.00 | 611   | 96.00  | 8649   | 155.00 | 292   |
| 49.00 | 5774  | 73.00 | 4489  | 97.00  | 241    | 157.00 | 104   |
| 50.00 | 29992 | 74.00 | 17816 | 104.00 | 410    | 161.00 | 75    |
| 51.00 | 9013  | 75.00 | 56072 | 105.00 | 81     | 172.00 | 655   |
| 52.00 | 495   | 76.00 | 4541  | 106.00 | 304    | 174.00 | 96992 |
| 55.00 | 408   | 77.00 | 861   | 116.00 | 398    | 175.00 | 7539  |
| 56.00 | 1837  | 78.00 | 375   | 117.00 | 575    | 176.00 | 93960 |
| 57.00 | 3426  | 79.00 | 1869  | 118.00 | 404    | 177.00 | 6260  |
| 58.00 | 69    | 80.00 | 560   | 119.00 | 456    | 178.00 | 152   |
| 60.00 | 1084  | 81.00 | 1939  | 128.00 | 265    |        |       |

Data File: \\QPI1P002\chem\hp3.1\308104.b\BF30810.D  
 Date: 10-AUG-2000 06:30  
 Client ID: 31019D  
 Sample Info: BFB 192-188-2 BONG  
 Volume Injected (uL): 1.0  
 Column Phase: DB624 20m

Instrument: hp3.1  
 Operator: 10099  
 Column diameter: 0.18



Date : 06-NOV-2000 05:29

Client ID: 31019D

Instrument: hp3.i

Sample Info: BFB 192-192-2 50NG

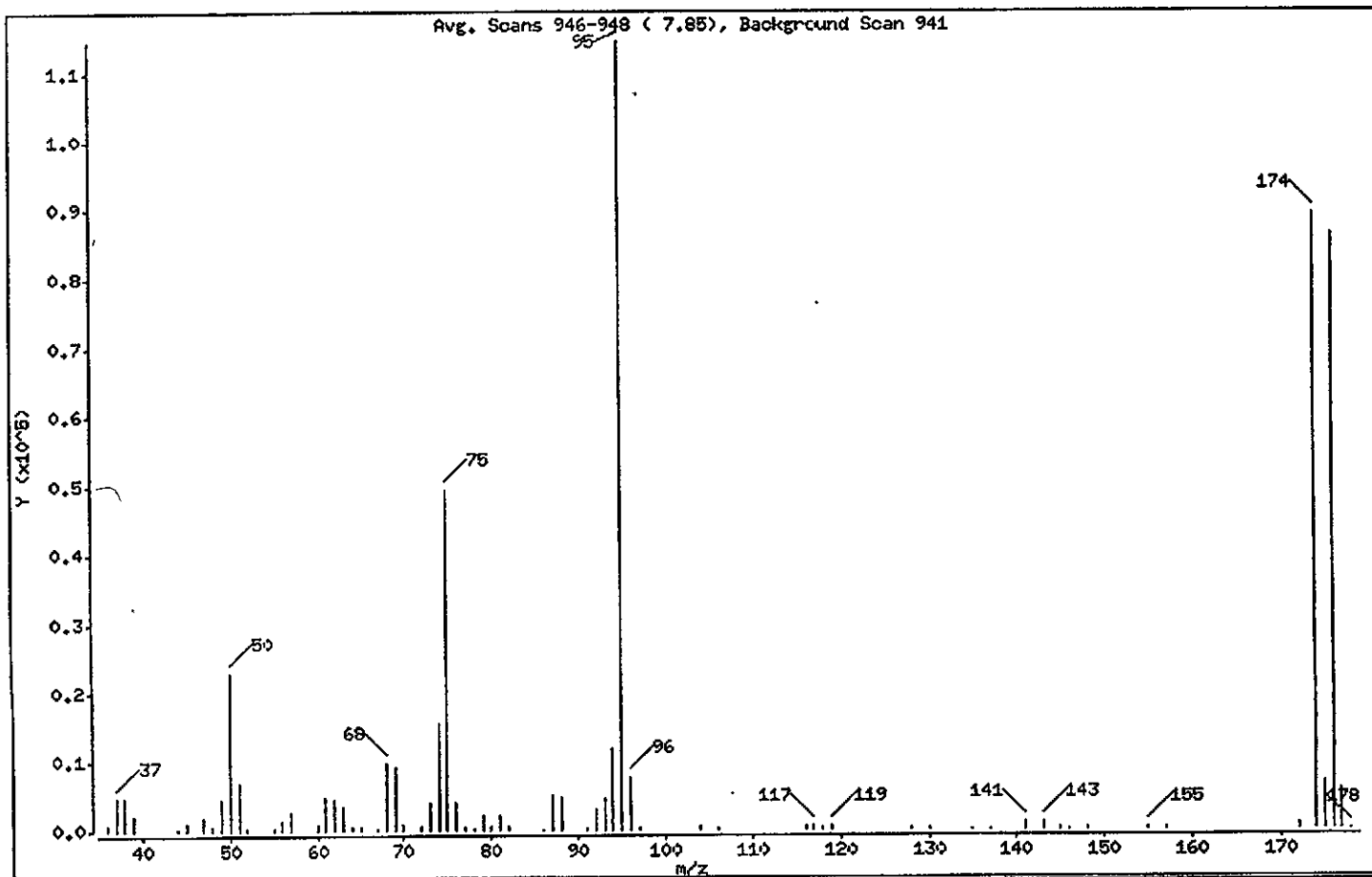
Volume Injected (uL): 1.0

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.18

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          | 19.95                |
| 76  | 30.00 - 60.00% of mass 95          | 43.12                |
| 96  | 5.00 - 9.00% of mass 95            | 6.63                 |
| 173 | Less than 2.00% of mass 174        | 0.00 ( 0.00)         |
| 174 | 50.00 - 100.00% of mass 95         | 77.90                |
| 175 | 5.00 - 9.00% of mass 174           | 8.89 ( 7.56)         |
| 176 | 95.00 - 101.00% of mass 174        | 75.46 ( 96.87)       |
| 177 | 5.00 - 9.00% of mass 176           | 5.02 ( 6.66)         |

Data File: \\QPITPA02\N\chem\hp3.i\31106d.b\BF31106.D

Date : 06-NOV-2000 05:29

Client ID: 31019D

Instrument: hp3.i

Sample Info: BFB 192-192-2 50NG

Volume Injected (uL): 1.0

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.18

Data File: BF31106.D

Spectrum: Avg. Scans 946-948 ( 7.85), Background Scan 941

Location of Maximum: 95.00

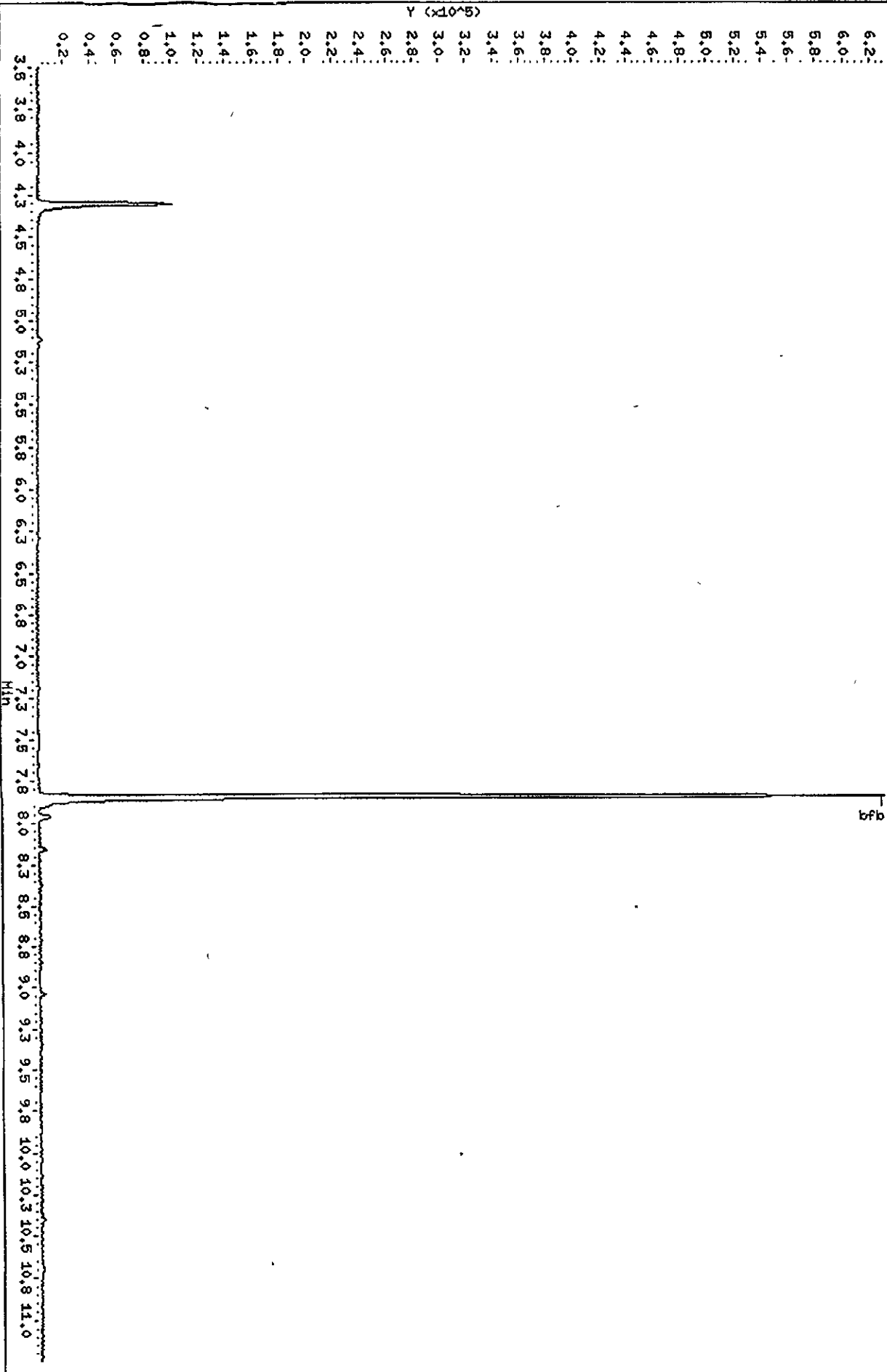
Number of points: 69

| m/z   | Y     | m/z   | Y     | m/z    | Y      | m/z    | Y     |
|-------|-------|-------|-------|--------|--------|--------|-------|
| 36.00 | 854   | 63.00 | 3398  | 86.00  | 109    | 135.00 | 69    |
| 37.00 | 4779  | 64.00 | 459   | 87.00  | 4945   | 137.00 | 85    |
| 38.00 | 4644  | 65.00 | 457   | 88.00  | 4663   | 141.00 | 1133  |
| 39.00 | 2023  | 67.00 | 331   | 91.00  | 352    | 143.00 | 1051  |
| 44.00 | 289   | 68.00 | 9687  | 92.00  | 2853   | 145.00 | 138   |
| 45.00 | 1000  | 69.00 | 9297  | 93.00  | 4461   | 146.00 | 82    |
| 47.00 | 1873  | 70.00 | 694   | 94.00  | 11888  | 148.00 | 306   |
| 48.00 | 637   | 72.00 | 514   | 95.00  | 114360 | 155.00 | 270   |
| 49.00 | 4556  | 73.00 | 3966  | 96.00  | 7577   | 157.00 | 143   |
| 50.00 | 22816 | 74.00 | 15382 | 97.00  | 281    | 172.00 | 695   |
| 51.00 | 6806  | 75.00 | 49312 | 104.00 | 397    | 174.00 | 89088 |
| 52.00 | 294   | 76.00 | 3890  | 106.00 | 339    | 175.00 | 6734  |
| 55.00 | 325   | 77.00 | 588   | 116.00 | 399    | 176.00 | 86296 |
| 56.00 | 1402  | 78.00 | 371   | 117.00 | 567    | 177.00 | 5743  |
| 57.00 | 2736  | 79.00 | 2164  | 118.00 | 364    | 178.00 | 82    |
| 60.00 | 892   | 80.00 | 609   | 119.00 | 457    |        |       |
| 61.00 | 4815  | 81.00 | 2019  | 128.00 | 370    |        |       |
| 62.00 | 4595  | 82.00 | 442   | 130.00 | 378    |        |       |

Data File: \\QPITPA02\N\chem\hp3.1\31106d.b\BF31106.D  
Date: 06-NOV-2000 05:29  
Client ID: 31019D  
Sample Info: BFB 192-192-2 SONG  
Volume Injected (uL): 1.0  
Column phase: DB624 20m

Instrument: hp3.1  
Operator: 10099  
Column diameter: 0.18

\\QPITPA02\N\chem\hp3.1\31106d.b\BF31106.D



UXB INTERNATIONAL  
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.      SDG Number:

Matrix: (soil/water) SOLID      Lab Sample ID: COK040000 108

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 10/31/00

Work Order: DPC441AA

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/06/00

Moisture %: NA

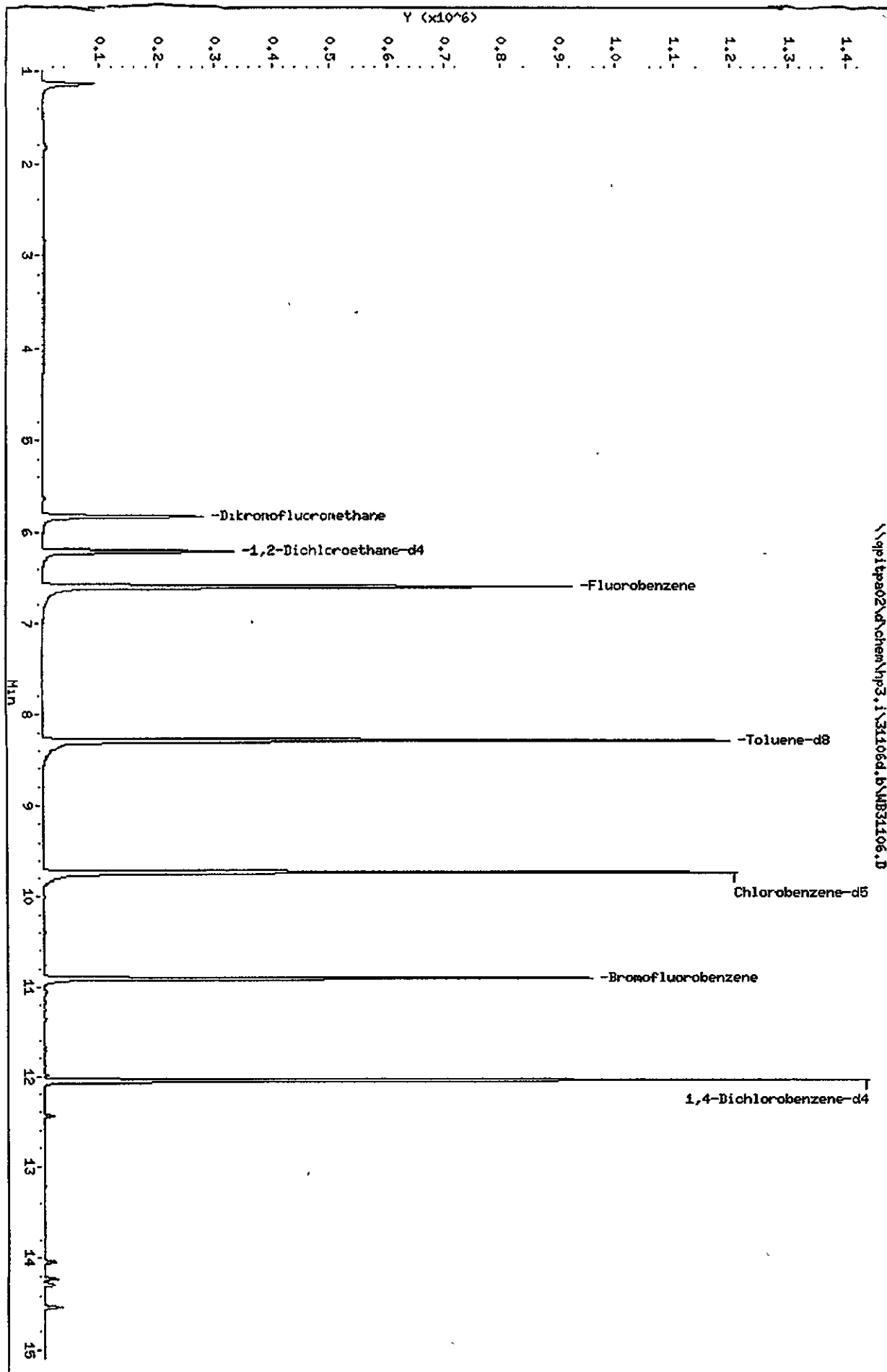
QC Batch: 0311110

Client Sample Id: INTRA-LAB BLANK

| CAS NO.  | COMPOUND             | CONCENTRATION UNITS: |   |
|----------|----------------------|----------------------|---|
|          |                      | (ug/L or ug/kg) mg/L | Q |
| 71-43-2  | Benzene              | 0.050                | U |
| 78-93-3  | 2-Butanone           | 0.050                | U |
| 56-23-5  | Carbon tetrachloride | 0.050                | U |
| 108-90-7 | Chlorobenzene        | 0.050                | U |
| 67-66-3  | Chloroform           | 0.050                | U |
| 107-06-2 | 1,2-Dichloroethane   | 0.050                | U |
| 75-35-4  | 1,1-Dichloroethene   | 0.050                | U |
| 127-18-4 | Tetrachloroethene    | 0.050                | U |
| 79-01-6  | Trichloroethene      | 0.050                | U |
| 75-01-4  | Vinyl chloride       | 0.050                | U |

Data File: \\ppltpa02\chem\hp3.i\31106d.b\MB31106.D  
Date: 06-NOV-2000 06:52  
Client ID:  
Sample Info: TOLP PREP BLANK 11/3/00 (1HL/10HL)/BWL  
Purge Volume: 5.0  
Column phase: DB 624

Instrument: hp3.i  
Operator: 10099  
Column diameter: 0.18



Data File: \\qpitpa02\d\chem\hp3.i\31106d.b\WB31106.D  
Report Date: 06-Nov-2000 07:28

Page 1

## STL-Pittsburgh

VOLATILE REPORT SW-846 Method  
Data file : \\qpitpa02\d\chem\hp3.i\31106d.b\WB31106.D  
Lab Smp Id:  
Inj Date : 06-NOV-2000 06:52 MS Autotune Date: 08-AUG-2000 16:28  
Operator : 10099 Inst ID: hp3.i  
Smp Info : TCLP PREP BLANK 11/3/00 (1ML/10ML)/5ML  
Misc Info : ,31106d.b,8260bh2o.m,tclp.sub  
Comment :  
Method : \\QPITPA02\D\chem\hp3.i\31106d.b\8260bh2o.m  
Meth Date : 06-Nov-2000 06:57 gordonk Quant Type: ISTD  
Cal Date : 10-AUG-2000 06:56 Cal File: CC30810.D  
Als bottle: 3  
Dil Factor: 1.00000  
Integrator: HP RTE  
Target Version: 4.04  
Processing Host: PITPC076

Compound Sublist: tclp.sub

KLG  
11/6/00

Concentration Formula: Amt \* DF \* 1/Vo\*Vt

| Name | Value | Description                            |
|------|-------|----------------------------------------|
| DF   | 1.000 | Dilution Factor                        |
| Vo   | 5.000 | Sample Volume                          |
| Vt   | 1.000 | mg/L conversion (1.0 if no conversion) |

| Compounds.                  | QUANT SIG | MASS | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS     |                  |
|-----------------------------|-----------|------|------------------------|--------|---------|----------|--------------------|------------------|
|                             |           |      |                        |        |         |          | ON-COLUMN<br>( ng) | FINAL<br>( UG/L) |
| * 46 Fluorobenzene          |           | 96   | 6.598                  | 6.596  | (1.000) | 904658   | 250.000            |                  |
| * 69 Chlorobenzene-d5       |           | 119  | 9.731                  | 9.735  | (1.000) | 213163   | 250.000            |                  |
| * 92 1,4-Dichlorobenzene-d4 |           | 152  | 12.049                 | 12.053 | (1.000) | 359334   | 250.000            |                  |
| \$ 39 Dibromofluoromethane  |           | 113  | 5.832                  | 5.830  | (0.884) | 185567   | 219.945            | 43.99            |
| \$ 43 1,2-Dichloroethane-d4 |           | 65   | 6.209                  | 6.207  | (0.941) | 235055   | 241.659            | 48.33            |
| \$ 59 Toluene-d8            |           | 98   | 8.290                  | 8.287  | (0.852) | 825317   | 257.478            | 51.50            |
| \$ 80 Bromofluorobenzene    |           | 95   | 10.906                 | 10.903 | (1.121) | 327907   | 246.116            | 49.22            |
| 3 Vinyl Chloride            |           | 62   | Compound Not Detected. |        |         |          |                    |                  |
| 12 1,1-Dichloroethene       |           | 96   | Compound Not Detected. |        |         |          |                    |                  |
| 31 2-Butanone               |           | 43   | Compound Not Detected. |        |         |          |                    |                  |
| 37 Chloroform               |           | 83   | Compound Not Detected. |        |         |          |                    |                  |
| 41 Carbon Tetrachloride     |           | 117  | Compound Not Detected. |        |         |          |                    |                  |
| 42 Benzene                  |           | 78   | Compound Not Detected. |        |         |          |                    |                  |
| 45 1,2-Dichloroethane       |           | 62   | Compound Not Detected. |        |         |          |                    |                  |
| 47 Trichloroethene          |           | 130  | Compound Not Detected. |        |         |          |                    |                  |
| 65 Tetrachloroethene        |           | 164  | Compound Not Detected. |        |         |          |                    |                  |



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| Compounds        | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS     |                  |
|------------------|-------|-----|----|--------|--------|----------|--------------------|------------------|
|                  |       |     |    |        |        |          | ON-COLUMN<br>( ng) | FINAL<br>( UG/L) |
| 70 Chlorobenzene | 112   |     |    |        |        |          |                    |                  |

UXB INTERNATIONAL  
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID: COK060000 110  
Method: SW846 8260B  
Volatile Organics, GC/MS (8260B)Sample WT/Vol: 5 / mL Date Received: 10/31/00  
Work Order: DPD6Q1AA Date Extracted: 11/06/00  
Dilution factor: 1 Date Analyzed: 11/06/00  
Moisture %: NA

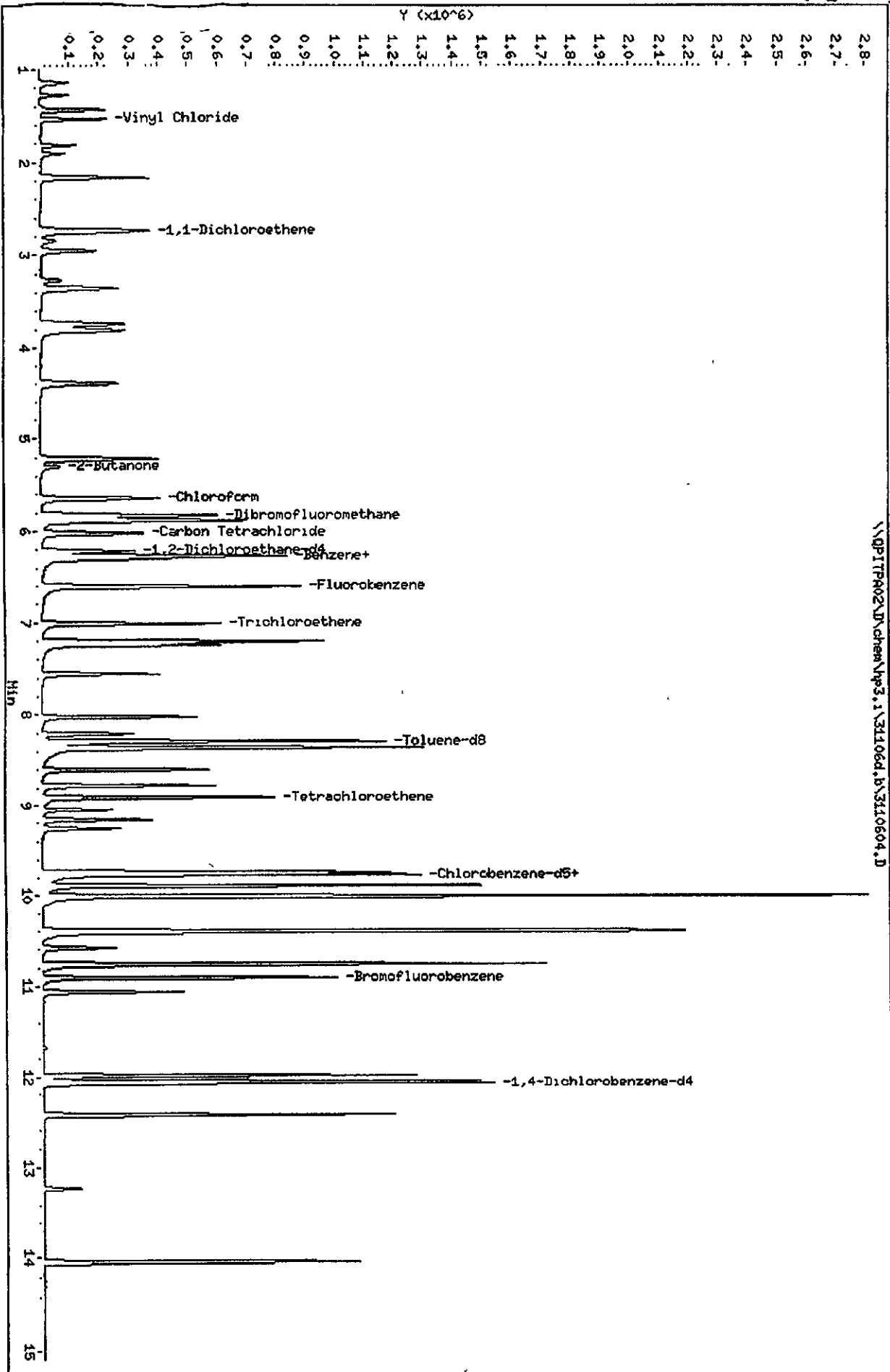
QC Batch: 0311110

Client Sample Id: CHECK SAMPLE

| CONCENTRATION UNITS: |                      |                      |   |
|----------------------|----------------------|----------------------|---|
| CAS NO.              | COMPOUND             | (ug/L or ug/kg) mg/L | Q |
| 71-43-2              | Benzene              | 0.438                |   |
| 78-93-3              | 2-Butanone           | 0.254                |   |
| 56-23-5              | Carbon tetrachloride | 0.505                |   |
| 108-90-7             | Chlorobenzene        | 0.460                |   |
| 67-66-3              | Chloroform           | 0.477                |   |
| 107-06-2             | 1,2-Dichloroethane   | 0.421                |   |
| 75-35-4              | 1,1-Dichloroethene   | 0.390                |   |
| 127-18-4             | Tetrachloroethene    | 0.454                |   |
| 79-01-6              | Trichloroethene      | 0.445                |   |
| 75-01-4              | Vinyl chloride       | 0.339                |   |

Data File: \\NPITPA02\N\chem\mp3.1\311064.b\3110604.D  
 Date: 06-NOV-2000 08:54  
 Client ID:  
 Sample Info: BLANK HS (1HL/10HL)/BHL  
 Purge Volume: 5.0  
 Column phase: DB 624

Instrument: mp3.1  
 Operator: 10099  
 Column diameter: 0.18



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STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp3.i\31106d.b\3110604.D

Lab Smp Id:

Inj Date : 06-NOV-2000 08:54

MS Autotune Date: 08-AUG-2000 16:28

Operator : 10099

Inst ID: hp3.i

Smp Info : BLANK MS (1ML/10ML)/5ML

Misc Info : ,31106d.b,8260bh2o.m,tclp.sub

Comment :

Method : \\QPITPA02\D\chem\hp3.i\31106d.b\8260bh2o.m

Meth Date : 06-Nov-2000 06:57 gordonk

Quant Type: ISTD

Cal Date : 10-AUG-2000 06:56

Cal File: CC30810.D

Als bottle: 7

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: tclp.sub

Target Version: 4.04

Processing Host: PITPC076

Y/L6  
11/16/00

Concentration Formula: Amt \* DF \* 1/Vo\*Vt

| Name | Value | Description                            |
|------|-------|----------------------------------------|
| DF   | 1.000 | Dilution Factor                        |
| Vo   | 5.000 | Sample Volume                          |
| Vt   | 1.000 | mg/L conversion (1.0 if no conversion) |

| Compounds                   | QUANT SIG | CONCENTRATIONS |        |         |        |          |                    |                  |
|-----------------------------|-----------|----------------|--------|---------|--------|----------|--------------------|------------------|
|                             |           | MASS           | RT     | EXP RT  | REL RT | RESPONSE | ON-COLUMN<br>( ng) | FINAL<br>( UG/L) |
| *****                       | ****      | ==             | =====  | =====   | =====  | =====    | =====              | =====            |
| * 46 Fluorobenzene          | 96        | 6.604          | 6.596  | (1.000) | 876755 | 250.000  |                    |                  |
| * 69 Chlorobenzene-d5       | 119       | 9.737          | 9.735  | (1.000) | 214796 | 250.000  |                    |                  |
| * 92 1,4-Dichlorobenzene-d4 | 152       | 12.055         | 12.053 | (1.000) | 363392 | 250.000  |                    |                  |
| \$ 39 Dibromofluoromethane  | 113       | 5.838          | 5.830  | (0.884) | 178931 | 218.829  | 43.76              |                  |
| \$ 43 1,2-Dichloroethane-d4 | 65        | 6.209          | 6.207  | (0.940) | 223552 | 237.147  | 47.43              |                  |
| \$ 59 Toluene-d8            | 98        | 8.289          | 8.287  | (0.851) | 841254 | 260.454  | 52.09              |                  |
| \$ 80 Bromofluorobenzene    | 95        | 10.905         | 10.903 | (1.120) | 332902 | 247.965  | 49.59              |                  |
| 3 Vinyl Chloride            | 62        | 1.531          | 1.529  | (0.232) | 212208 | 169.716  | 33.94              |                  |
| 12 1,1-Dichloroethene       | 96        | 2.729          | 2.715  | (0.413) | 110680 | 195.056  | 39.01              |                  |
| 31 2-Butanone               | 43        | 5.296          | 5.300  | (0.802) | 107042 | 127.142  | 25.43              |                  |
| 37 Chloroform               | 83        | 5.643          | 5.641  | (0.854) | 330468 | 238.554  | 47.71              |                  |
| 41 Carbon Tetrachloride     | 117       | 6.020          | 6.018  | (0.912) | 245515 | 252.410  | 50.48              |                  |
| 42 Benzene                  | 78        | 6.270          | 6.262  | (0.949) | 811754 | 218.994  | 43.80              |                  |
| 45 1,2-Dichloroethane       | 62        | 6.300          | 6.298  | (0.954) | 275443 | 210.287  | 42.06              |                  |
| 47 Trichloroethene          | 130       | 7.012          | 7.010  | (1.062) | 216560 | 222.513  | 44.50              |                  |
| 65 Tetrachloroethene        | 164       | 8.910          | 8.908  | (0.915) | 190906 | 227.188  | 45.44              |                  |

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| Compounds        | QUANT SIG |       |        |         |          |  | CONCENTRATIONS     |                  |
|------------------|-----------|-------|--------|---------|----------|--|--------------------|------------------|
|                  | MASS      | RT    | EXP RT | REL RT  | RESPONSE |  | ON-COLUMN<br>( ng) | FINAL<br>( UG/L) |
| 70 Chlorobenzene | 112       | 9.762 | 9.760  | (1.002) | 643795   |  | 229.797            | 45 96            |

UXB INTERNATIONAL  
MATRIX SPIKE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID: C0J310200 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 10/31/00

Work Order: DN4QJ1AW

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/06/00

Moisture %: 13

QC Batch: 0311110

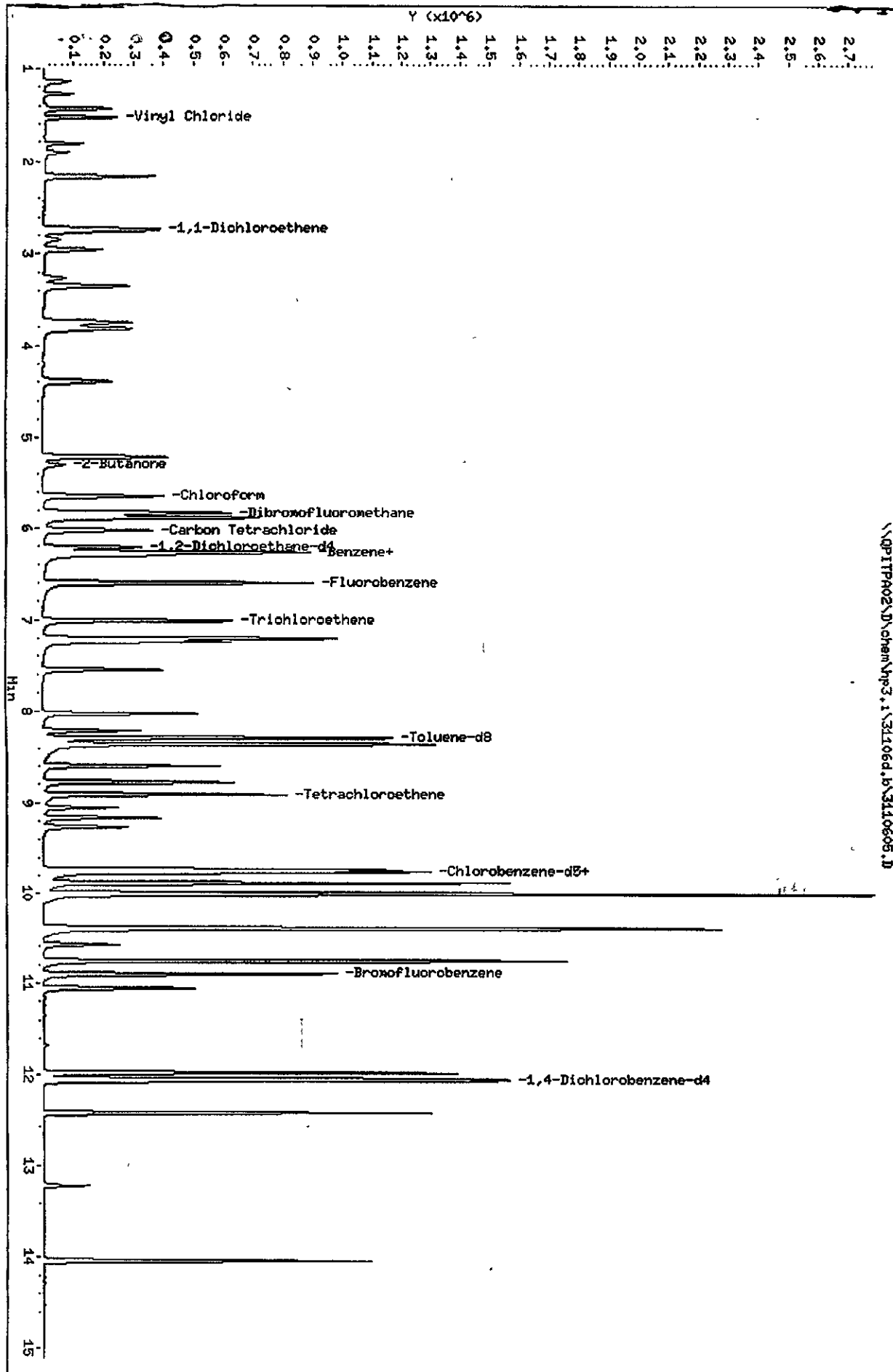
Client Sample Id: DF/24-A/0304/CVS/010

| CONCENTRATION UNITS: |                      |                      |   |
|----------------------|----------------------|----------------------|---|
| CAS NO.              | COMPOUND             | (ug/L or ug/kg) mg/L | Q |
| 71-43-2              | Benzene              | 0.446                |   |
| 78-93-3              | 2-Butanone           | 0.265                |   |
| 56-23-5              | Carbon tetrachloride | 0.508                |   |
| 108-90-7             | Chlorobenzene        | 0.468                |   |
| 67-66-3              | Chloroform           | 0.487                |   |
| 107-06-2             | 1,2-Dichloroethane   | 0.431                |   |
| 75-35-4              | 1,1-Dichloroethene   | 0.421                |   |
| 127-18-4             | Tetrachloroethene    | 0.463                |   |
| 79-01-6              | Trichloroethene      | 0.452                |   |
| 75-01-4              | Vinyl chloride       | 0.367                |   |

Data File: \\QIPITPA02\chem\hp3.1\31106d.b\3110605.D  
 Date : 06-NOV-2000 09:16  
 Client ID:  
 Sample Info: C0310200-002MS (1ML/10ML)/5ML  
 Purge Volume: 5.0  
 Column phase: DB 624

Instrument: hp3.1  
 Operator: 10099  
 Column diameter: 0.18

\\QIPITPA02\chem\hp3.1\31106d.b\3110605.D



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STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp3.i\31106d.b\3110605.D

Lab Smp Id:

Inj Date : 06-NOV-2000 09:16

MS Autotune Date: 08-AUG-2000 16:28

Operator : 10099

Inst ID: hp3.i

Smp Info : C0J310200-002MS (1ML/10ML)/5ML

Misc Info : ,31106d.b,8260bh2o.m,tclp.sub

Comment :

Method : \\QPITPA02\D\chem\hp3.i\31106d.b\8260bh2o.m

Meth Date : 06-Nov-2000 06:57 gordonk

Quant Type: ISTD

Cal Date : 10-AUG-2000 06:56

Cal File: CC30810.D

Als bottle: 8

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: tclp.sub

Target Version: 4.04

Processing Host: PITPC076

116  
11/6/00

Concentration Formula: Amt \* DF \* 1/Vo\*Vt

| Name | Value | Description                            |
|------|-------|----------------------------------------|
| DF   | 1.000 | Dilution Factor                        |
| Vo   | 5.000 | Sample Volume                          |
| Vt   | 1.000 | mg/L conversion (1.0 if no conversion) |

| Compounds                   | QUANT SIG |        |        |         | RESPONSE | CONCENTRATIONS     |                  |
|-----------------------------|-----------|--------|--------|---------|----------|--------------------|------------------|
|                             | MASS      | RT     | EXP RT | REL RT  |          | ON-COLUMN<br>( ng) | FINAL<br>( UG/L) |
| * 46 Fluorobenzene          | 96        | 6.602  | 6.596  | (1.000) | 876328   | 250.000            |                  |
| * 69 Chlorobenzene-d5       | 119       | 9.735  | 9.735  | (1.000) | 214604   | 250.000            |                  |
| * 92 1,4-Dichlorobenzene-d4 | 152       | 12.053 | 12.053 | (1.000) | 372969   | 250.000            |                  |
| \$ 39 Dibromofluoromethane  | 113       | 5.835  | 5.830  | (0.884) | 181280   | 221.810            | 44.36            |
| \$ 43 1,2-Dichloroethane-d4 | 65        | 6.213  | 6.207  | (0.941) | 221172   | 234.737            | 46.95            |
| \$ 59 Toluene-d8            | 98        | 8.287  | 8.287  | (0.851) | 822999   | 255.030            | 51.00            |
| \$ 80 Bromofluorobenzene    | 95        | 10.903 | 10.903 | (1.120) | 336259   | 250.690            | 50.14            |
| 3 Vinyl Chloride            | 62        | 1.528  | 1.529  | (0.232) | 229101   | 183.315            | 36.66            |
| 12 1,1-Dichloroethene       | 96        | 2.727  | 2.715  | (0.413) | 119260   | 210.278            | 42.06            |
| 31 2-Butanone               | 43        | 5.300  | 5.300  | (0.803) | 111330   | 132.300            | 26.46            |
| 37 Chloroform               | 83        | 5.647  | 5.641  | (0.855) | 337418   | 243.689            | 48.74            |
| 41 Carbon Tetrachloride     | 117       | 6.024  | 6.018  | (0.912) | 246693   | 253.744            | 50.75            |
| 42 Benzene                  | 78        | 6.267  | 6.262  | (0.949) | 825930   | 222.927            | 44.58            |
| 45 1,2-Dichloroethane       | 62        | 6.298  | 6.298  | (0.954) | 282375   | 215.684            | 43.14            |
| 47 Trichloroethene          | 130       | 7.009  | 7.010  | (1.062) | 219891   | 226.045            | 45.21            |
| 65 Tetrachloroethene        | 164       | 8.908  | 8.908  | (0.915) | 194448   | 231.610            | 46.32            |



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| Compounds        | QUANT SIG |       |        |         |          |  | CONCENTRATIONS     |                  |
|------------------|-----------|-------|--------|---------|----------|--|--------------------|------------------|
|                  | MASS      | RT    | EXP RT | REL RT  | RESPONSE |  | ON-COLUMN<br>( ng) | FINAL<br>( UG/L) |
| 70 Chlorobenzene | 112       | 9.759 | 9.760  | (1.002) | 654640   |  | 233.877            | 46.78            |

UXB INTERNATIONAL  
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.      SDG Number:

Matrix: (soil/water) SOLID      Lab Sample ID: C0J310200 002  
Method: SW846 8260B  
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL      Date Received: 10/31/00  
Work Order: DN4QJ1AX      Date Extracted: 11/06/00  
Dilution factor: 1      Date Analyzed: 11/06/00  
Moisture %: 13

QC Batch: 0311110

Client Sample Id: DF/24-A/0304/CVS/010

| CAS NO.  | COMPOUND             | CONCENTRATION UNITS: |   |
|----------|----------------------|----------------------|---|
|          |                      | (ug/L or ug/kg) mg/L | Q |
| 71-43-2  | Benzene              | 0.448                |   |
| 78-93-3  | 2-Butanone           | 0.252                |   |
| 56-23-5  | Carbon tetrachloride | 0.506                |   |
| 108-90-7 | Chlorobenzene        | 0.478                |   |
| 67-66-3  | Chloroform           | 0.488                |   |
| 107-06-2 | 1,2-Dichloroethane   | 0.430                |   |
| 75-35-4  | 1,1-Dichloroethene   | 0.395                |   |
| 127-18-4 | Tetrachloroethene    | 0.470                |   |
| 79-01-6  | Trichloroethene      | 0.453                |   |
| 75-01-4  | Vinyl chloride       | 0.369                |   |

Data File: \NPITPA02\chem\hp3.1\311064.b\3110606.D

Date: 06-NOV-2000 09:39

Client ID:

Sample Info: C0310200-002HSD (1HL/10HL)/5HL

Purge Volume: 5.0

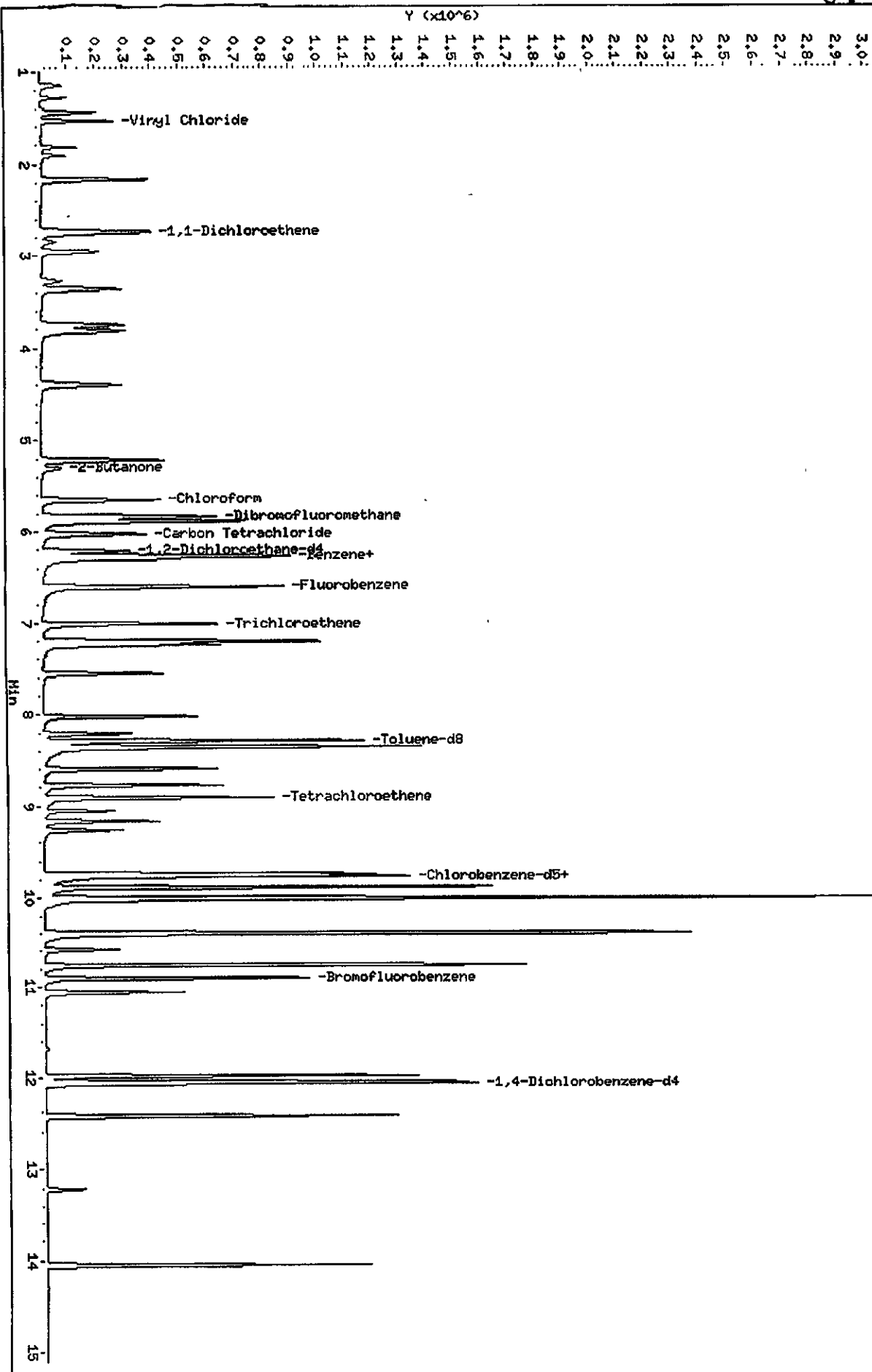
Column phase: DB 624

Instrument: hp3.1

Operator: 10099

Column diameter: 0.18

\NPITPA02\chem\hp3.1\311064.b\3110606.D



Data File: \\QPITPA02\D\chem\hp3.i\31106d.b\3110606.D  
Report Date: 06 Nov-2000 10:01

Page 1

## STL-Pittsburgh

## VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp3.i\31106d.b\3110606.D

Lab Smp Id:

Inj Date : 06-NOV-2000 09:39

MS Autotune Date: 08-AUG-2000 16:28

Operator : 10099

Inst ID: hp3.i

Smp Info : C0J310200-002MSD (1ML/10ML)/5ML

Misc Info : ,31106d.b,8260bh2o.m,tclp.sub

Comment :

Method : \\QPITPA02\D\chem\hp3.i\31106d.b\8260bh2o.m

Meth Date : 06-Nov-2000 06:57 gordonk

Quant Type: ISTD

Cal Date : 10-AUG-2000 06:56

Cal File: CC30810.D

Als bottle: 9

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: tclp.sub

Target Version: 4.04

Processing Host: PITPC076

Concentration Formula: Amt \* DF \* 1/Vo\*Vt

| Name | Value | Description                            |
|------|-------|----------------------------------------|
| DF   | 1.000 | Dilution Factor                        |
| Vo   | 5.000 | Sample Volume                          |
| Vt   | 1.000 | mg/L conversion (1.0 if no conversion) |

| Compounds                   | QUANT SIG | MASS   | RT     | EXP RT  | REL RT | RESPONSE | CONCENTRATIONS     |                  |
|-----------------------------|-----------|--------|--------|---------|--------|----------|--------------------|------------------|
|                             |           |        |        |         |        |          | ON-COLUMN<br>( ng) | FINAL<br>( UG/L) |
| * 46 Fluorobenzene          | 96        | 6.606  | 6.596  | (1.000) | 929416 | 250.000  |                    |                  |
| * 69 Chlorobenzene-d5       | 119       | 9.733  | 9.735  | (1.000) | 225151 | 250.000  |                    |                  |
| * 92 1,4-Dichlorobenzene-d4 | 152       | 12.051 | 12.053 | (1.000) | 373024 | 250.000  |                    |                  |
| \$ 39 Dibromofluoromethane  | 113       | 5.840  | 5.830  | (0.884) | 182840 | 210.940  | 42.19              |                  |
| \$ 43 1,2-Dichloroethane-d4 | 65        | 6.211  | 6.207  | (0.940) | 225675 | 225.835  | 45.17              |                  |
| \$ 59 Toluene-d8            | 98        | 8.291  | 8.287  | (0.852) | 848662 | 250.664  | 50.13              |                  |
| \$ 80 Bromofluorobenzene    | 95        | 10.907 | 10.903 | (1.121) | 331082 | 235.268  | 47.05              |                  |
| 3 Vinyl Chloride            | 62        | 1.533  | 1.529  | (0.232) | 244584 | 184.525  | 36.90              |                  |
| 12 1,1-Dichloroethene       | 96        | 2.731  | 2.715  | (0.413) | 118709 | 197.351  | 39.47              |                  |
| 31 2-Butanone               | 43        | 5.298  | 5.300  | (0.802) | 112385 | 125.925  | 25.18              |                  |
| 37 Chloroform               | 83        | 5.645  | 5.641  | (0.855) | 358319 | 244.003  | 48.80              |                  |
| 41 Carbon Tetrachloride     | 117       | 6.022  | 6.018  | (0.912) | 260914 | 253.042  | 50.61              |                  |
| 42 Benzene                  | 78        | 6.272  | 6.262  | (0.949) | 881081 | 224.229  | 44.84              |                  |
| 45 1,2-Dichloroethane       | 62        | 6.302  | 6.298  | (0.954) | 298203 | 214.764  | 42.95              |                  |
| 47 Trichloroethene          | 130       | 7.014  | 7.010  | (1.062) | 233767 | 226.583  | 45.32              |                  |
| 65 Tetrachloroethene        | 164       | 8.912  | 8.908  | (0.916) | 206962 | 234.967  | 46.99              |                  |

674 184

| Compounds        | QUANT SIG | CONCENTRATIONS |        |         |          |                    |                  |
|------------------|-----------|----------------|--------|---------|----------|--------------------|------------------|
|                  |           | RT             | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>( ng) | FINAL<br>( UG/L) |
| -----            | -----     | ---            | -----  | -----   | -----    | -----              | -----            |
| 70 Chlorobenzene | 112       | 9.763          | 9.760  | (1.003) | 701220   | 238.784            | 47.76            |

GC/MS VOLATILE  
MISCELLANEOUS

**GCMS Volatile****Run Log**Method: 8240BInst. ID HP3Analyst KLG

Reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_

Std: 192-186-2BFB Std: 192-187-5IntStd: 192-186-7M186132 Std: 192-187-4MSStd: 192-186-6Ketones

Std: \_\_\_\_\_



STL Pittsburgh  
450 William Pitt Way  
Pittsburgh, PA 15238  
412-820-8380

| Date    | File ID    | Lot No./Sample No. | Vol./Wt. | pH | Port# | Comments |
|---------|------------|--------------------|----------|----|-------|----------|
| 8/10/00 | 1. BF30810 | BFB                | 50ng     |    |       | 0630     |
|         | 2. CC30810 | VS150              | 5ml      |    |       |          |
|         | 3. 1A30810 | VS15               | 5ml      |    |       |          |
|         | 4. 1B30810 | VS120              | 5ml      |    |       |          |
|         | 5. 1D30810 | VS1100             | 5ml      |    |       |          |
|         | 6. 1E30810 | VS1200             | 5ml      |    |       |          |
|         | 7.         |                    |          |    |       |          |
|         | 8.         |                    |          |    |       |          |
|         | 9.         |                    |          |    |       |          |
|         | 10.        |                    |          |    |       |          |
|         | 11.        |                    |          |    |       |          |
|         | 12.        |                    |          |    |       |          |
|         | 13.        |                    |          |    |       |          |
|         | 14.        |                    |          |    |       |          |
|         | 15.        |                    |          |    |       |          |
|         | 16.        |                    |          |    |       |          |
|         | 17.        |                    |          |    |       |          |
|         | 18.        |                    |          |    |       |          |
|         | 19.        |                    |          |    |       |          |
|         | 20.        |                    |          |    |       |          |
|         | 21.        |                    |          |    |       |          |
|         | 22.        |                    |          |    |       |          |







STL Pittsburgh  
450 William Pitt Way  
Pittsburgh, PA 15238  
412-820-8380

# MS Volatile Run Log

Analyst KLG

Std: 192-192-2-BFB Std: 192-191-7MS

Std: \_\_\_\_\_ Std: \_\_\_\_\_

Method: 5260B

Inst. ID HP3

Reviewed by: \_\_\_\_\_

Std: 192-192-5VDA

Std: \_\_\_\_\_

Date: \_\_\_\_\_

Std: 192-193-16H

Std: \_\_\_\_\_

Std: 192-193-2SLAA

Std: \_\_\_\_\_

| Date    | File ID     | Lot No. / Sample No.  | Vol. / Wt.     | pH | Port# | Comments |
|---------|-------------|-----------------------|----------------|----|-------|----------|
| 11/6/00 | 1. BFB3106  | BFB                   | 500g           |    |       | 0529     |
|         | 2. 1031106  | VSQ50                 | 5ml            |    |       |          |
|         | 3. 103B3106 | TOP Rep Blank 11/3/00 | (1ml/10ml)/5ml | 5  |       |          |
|         | 4. 3110601  | 103310200-001         | (1ml/10ml)/5ml | 5  |       |          |
|         | 5. 3110602  | 103310202-002         | (1ml/10ml)/5ml | 5  |       |          |
|         | 6. 3110603  | 103310200-003         | (1ml/10ml)/5ml | 5  |       |          |
|         | 7. 3110604  | Blank MS              | (1ml/10ml)/5ml | 5  |       |          |
|         | 8. 3110605  | 103310200-002 MS      | (1ml/10ml)/5ml | 5  |       |          |
|         | 9. 3110606  | 103310200-003 MS      | (1ml/10ml)/5ml | 5  |       |          |
|         | 10. 3110607 | 103310205-001         | (1ml/10ml)/5ml | 5  |       |          |
|         | 11. 3110608 | 103310205-002         | (1ml/10ml)/5ml | 5  |       |          |
|         | 12. 3110609 | 103310204-001         | (1ml/10ml)/5ml | 5  |       |          |
|         | 13. 3110610 | 103310204-002         | (1ml/10ml)/5ml | 5  |       |          |
|         | 14. 3110611 | 103310209-001         | (1ml/10ml)/5ml | 5  |       |          |
|         | 15. 3110612 | 103310209-002         | (1ml/10ml)/5ml | 5  |       | 1153     |
|         | 16          |                       |                |    |       |          |
|         | 17          |                       |                |    |       |          |
|         | 18          |                       |                |    |       |          |
|         | 19          |                       |                |    |       |          |
|         | 20          |                       |                |    |       |          |
|         | 21          |                       |                |    |       |          |
|         | 22.         |                       |                |    |       |          |

REQUESTED BY: TROUTB

674 189

METHOD: QK Volatile Organics, GC/MS (8260B)

| STORAGE LOCATION | WORK ORDER # | PICKED<br>CNTR# | CONTROL # | CLIENT # | ANALYSIS | LOTID     | SMP# | SFX | MATRIX<br>DESCRIPTION | QTY<br>RCVD | QTY<br>REQD |
|------------------|--------------|-----------------|-----------|----------|----------|-----------|------|-----|-----------------------|-------------|-------------|
| 12D CLP1         | DN4P6-1-AC   | — — —           | 280017    | 399411   | A-58-QK  | C0J310200 | 001  | ✓   | SOLID                 | 0           | 3 1         |
| 12D CLP1         | DN4QJ-1-AC   | — — —           | 280018    | 399411   | A-58-QK  | C0J310200 | 002  | ✓   | SOLID                 | 0           | 3 1         |
| 12D CLP1         | DN4QK-1-AC   | — — —           | 280019    | 399411   | A-58-QK  | C0J310200 | 003  | ✓   | SOLID                 | 0           | 3 1         |
| 13C, CLP1        | DN65R-1-AF   | — — —           | 280022    | 020247   | A-58-QK  | C0K010234 | 001  | ✓   | SOLID                 | 0           | 3 1         |
| 13C, CLP1        | DN65X-1-AH   | — — —           | 280023    | 020247   | A-58-QK  | C0K010234 | 002  | ✓   | SOLID                 | 0           | 3 1         |
| 13C.D            | DN7C6-1-AF   | — — —           | 280020    | 020247   | A-58-QK  | C0K010265 | 001  | ✓   | SOLID                 | 0           | 2 1         |
| 13C.D            | DN7DC-1-AH   | — — —           | 280021    | 020247   | A-58-QK  | C0K010265 | 002  | ✓   | SOLID                 | 0           | 2 1         |
| 14C CLP1         | DN9AJ-1-AE   | — — —           | 280025    | 020247   | A-58-QK  | C0K020269 | 001  | ✓   | SOLID                 | 0           | 3 1         |
| 14C CLP1         | DN9AM-1-AF   | — — —           | 280026    | 020247   | A-58-QK  | C0K020269 | 002  | ✓   | SOLID                 | 0           | 3 1         |
| 14C.D            | DN9GA-1-AA   | — — —           | 280034    | 413515   | A-58-QK  | C0K020283 | 001  | ✓   | SOLID                 | 0           | 3 1         |

WT 11/3/2000

RELINQUISHED BY

RECEIVED BY

DATE/TIME

Ken Seely  
B TroutB Trout  
Ken Seely11/3/2000 08:20  
11/3/2000 12:30

\*\*\*\*\* END OF REPORT \*\*\*\*\*

674 190

**GC/MS SEMIVOLATILE DATA**

674 191

**GC/MS SEMIVOLATILE  
QC SUMMARY**

674 192

## SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0J310200

|    | CLIENT ID.             | SRG01 | SRG02 | SRG03 | SRG04 | SRG05 | SRG06 | TOT OUT |
|----|------------------------|-------|-------|-------|-------|-------|-------|---------|
|    | =====                  | ===== | ===== | ===== | ===== | ===== | ===== | =====   |
| 01 | DF/24-A/0304/CVS/008   | 85    | 80    | 89    | 78    | 85    | 85    | 00      |
| 02 | DF/24-A/0304/CVS/010   | 80    | 77    | 87    | 74    | 85    | 85    | 00      |
| 03 | DF/24-A/0304/CVS/012   | 74    | 72    | 91    | 66    | 76    | 84    | 00      |
| 04 | METHOD BLK. DPFJJ1AA   | 73    | 67    | 80    | 74    | 80    | 77    | 00      |
| 05 | LCS DPFJJ1AC           | 84    | 78    | 86    | 85    | 90    | 89    | 00      |
| 06 | DF/24-A/0304/CVS/008 D | 76    | 73    | 82    | 67    | 78    | 80    | 00      |
| 07 | DF/24-A/0304/CVS/008 S | 82    | 80    | 90    | 73    | 84    | 88    | 00      |

SURROGATES

SRG01 = Nitrobenzene-d5  
 SRG02 = 2-Fluorobiphenyl  
 SRG03 = Terphenyl-d14  
 SRG04 = 2-Fluorophenol  
 SRG05 = Phenol-d5  
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

( 32-112)  
 ( 30-110)  
 ( 10-144)  
 ( 13-110)  
 ( 10-113)  
 ( 21-122)

# Column to be used to flag recovery values  
 \* Values outside of required QC Limits  
 D System monitoring Compound diluted out

FORM II

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: COK070000

WO #: DPFJJ1AC

BATCH: 0312126

| COMPOUND              | SPIKE<br>ADDED<br>(mg/L ) | SAMPLE<br>CONCENT.<br>(mg/L ) | %<br>REC | QC<br>LIMITS<br>REC | QUAL  |
|-----------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| =====                 | =====                     | =====                         | =====    | =====               | ===== |
| 1,4-Dichlorobenzene   | 0.250                     | 0.221                         | 88       | 28- 110             |       |
| 2,4-Dinitrotoluene    | 0.250                     | 0.196                         | 78       | 47- 131             |       |
| Hexachlorobenzene     | 0.250                     | 0.213                         | 85       | 57- 128             |       |
| Hexachlorobutadiene   | 0.250                     | 0.202                         | 81       | 36- 116             |       |
| Hexachloroethane      | 0.250                     | 0.225                         | 90       | 30- 110             |       |
| Nitrobenzene          | 0.250                     | 0.220                         | 88       | 45- 130             |       |
| Pentachlorophenol     | 0.250                     | 0.225                         | 90       | 10- 140             |       |
| Pyridine              | 0.250                     | 0.230                         | 92       | 10- 148             |       |
| 2,4,5-Trichlorophenol | 0.250                     | 0.222                         | 89       | 41- 125             |       |
| 2,4,6-Trichlorophenol | 0.250                     | 0.218                         | 87       | 46- 135             |       |
| Cresols (total)       | 0.750                     | 0.708                         | 94       | 29- 144             |       |

NOTES (S) :

\* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

674 194

## SW84b 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0304/CVS/008

Level: (low/med) LOW

Lot #: C0J310200

WO #: DN4P61CQ

BATCH: 0312126

| COMPOUND              | SPIKE<br>ADDED<br>(mg/L ) | SAMPLE<br>CONCENT.<br>(mg/L ) | MS<br>CONCENT.<br>(mg/L ) | MS<br>%<br>REC | LIMITS<br>REC | QUAL |
|-----------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|------|
| 1,4-Dichlorobenzene   | 0.250                     | ND                            | 0.209                     | 84             | 18 - 110      |      |
| 2,4-Dinitrotoluene    | 0.250                     | ND                            | 0.207                     | 83             | 31 - 131      |      |
| Hexachlorobenzene     | 0.250                     | ND                            | 0.222                     | 89             | 36 - 132      |      |
| Hexachlorobutadiene   | 0.250                     | ND                            | 0.199                     | 80             | 18 - 116      |      |
| Hexachloroethane      | 0.250                     | ND                            | 0.211                     | 84             | 18 - 110      |      |
| Nitrobenzene          | 0.250                     | ND                            | 0.221                     | 88             | 10 - 211      |      |
| Pentachlorophenol     | 0.250                     | ND                            | 0.175                     | 70             | 10 - 140      |      |
| Pyridine              | 0.250                     | ND                            | 0.180                     | 72             | 10 - 148      |      |
| 2,4,5-Trichlorophenol | 0.250                     | ND                            | 0.218                     | 87             | 24 - 143      |      |
| 2,4,6-Trichlorophenol | 0.250                     | ND                            | 0.221                     | 88             | 36 - 135      |      |
| Cresols (total)       | 0.750                     | ND                            | 0.684                     | 91             | 25 - 144      |      |

NOTES (S) :

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0304/CVS/008

Level: (low/med) LOW

Lot #: C0J310200

WO #: DN4P61CR

BATCH: 0312126

| COMPOUND              | SPIKE<br>ADDED<br>(mg/L ) | MSD<br>CONCENT.<br>(mg/L ) | MSD<br>%<br>REC | %<br>RPD | QC LIMITS<br>RPD | REC      | QUAL  |
|-----------------------|---------------------------|----------------------------|-----------------|----------|------------------|----------|-------|
| =====                 | =====                     | =====                      | =====           | =====    | =====            | =====    | ===== |
| 1,4-Dichlorobenzene   | 0.250                     | 0.189                      | 76              | 10       | 36               | 18 - 110 |       |
| 2,4-Dinitrotoluene    | 0.250                     | 0.189                      | 76              | 9.1      | 32               | 31 - 131 |       |
| Hexachlorobenzene     | 0.250                     | 0.203                      | 81              | 8.9      | 22               | 36 - 132 |       |
| Hexachlorobutadiene   | 0.250                     | 0.181                      | 72              | 9.5      | 32               | 18 - 116 |       |
| Hexachloroethane      | 0.250                     | 0.192                      | 77              | 9.4      | 33               | 18 - 110 |       |
| Nitrobenzene          | 0.250                     | 0.200                      | 80              | 10       | 50               | 10 - 211 |       |
| Pentachlorophenol     | 0.250                     | 0.163                      | 65              | 7.1      | 56               | 10 - 140 |       |
| Pyridine              | 0.250                     | 0.161                      | 64              | 11       | 65               | 10 - 148 |       |
| 2,4,5-Trichlorophenol | 0.250                     | 0.196                      | 78              | 11       | 22               | 24 - 143 |       |
| 2,4,6-Trichlorophenol | 0.250                     | 0.204                      | 82              | 8.0      | 27               | 36 - 135 |       |
| Cresols (total)       | 0.750                     | 0.628                      | 84              | 8.5      | 33               | 25 - 144 |       |

## NOTES (S) :

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

RPD: 0 out of 11 outside limitsSpike Recovery: 0 out of 11 outside limits

COMMENTS:



674 196

SW846 3270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DPFJJ1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: F1109001.

Lot Number: C0J310200

Date Analyzed: 11/09/00

Time Analyzed: 09:05

Matrix: SOLID

Date Extracted: 11/06/00

GC Column: HP5MS ID: .25

Extraction Method: 1311/3520C

Instrument ID: 722

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS, MSD:

|    | CLIENT ID.           | SAMPLE<br>WORK ORDER # | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|----|----------------------|------------------------|----------------|------------------|------------------|
| 01 | DF/24-A/0304/CVS/008 | DN4P61AD               | F1109005.      | 11/09/00         | 11:21            |
| 02 | DF/24-A/0304/CVS/008 | DN4P61CQ S             | F1109003.      | 11/09/00         | 10:13            |
| 03 | DF/24-A/0304/CVS/008 | DN4P61CR D             | F1109004.      | 11/09/00         | 10:47            |
| 04 | DF/24-A/0304/CVS/010 | DN4QJ1AD               | F1109006.      | 11/09/00         | 11:55            |
| 05 | DF/24-A/0304/CVS/012 | DN4QK1AD               | F1109007.      | 11/09/00         | 12:29            |
| 06 | CHECK SAMPLE         | DPFJJ1AC C             | F1109002.      | 11/09/00         | 09:39            |
| 07 |                      |                        |                |                  |                  |
| 08 |                      |                        |                |                  |                  |
| 09 |                      |                        |                |                  |                  |
| 10 |                      |                        |                |                  |                  |
| 11 |                      |                        |                |                  |                  |
| 12 |                      |                        |                |                  |                  |
| 13 |                      |                        |                |                  |                  |
| 14 |                      |                        |                |                  |                  |
| 15 |                      |                        |                |                  |                  |
| 16 |                      |                        |                |                  |                  |
| 17 |                      |                        |                |                  |                  |
| 18 |                      |                        |                |                  |                  |
| 19 |                      |                        |                |                  |                  |
| 20 |                      |                        |                |                  |                  |
| 21 |                      |                        |                |                  |                  |
| 22 |                      |                        |                |                  |                  |
| 23 |                      |                        |                |                  |                  |
| 24 |                      |                        |                |                  |                  |
| 25 |                      |                        |                |                  |                  |
| 26 |                      |                        |                |                  |                  |
| 27 |                      |                        |                |                  |                  |
| 28 |                      |                        |                |                  |                  |
| 29 |                      |                        |                |                  |                  |
| 30 |                      |                        |                |                  |                  |

COMMENTS:

FORM IV

5B  
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS  
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL PITTSBURGH

Contract:

674 197

Lab Code:

Case No.:

SAS No.:

SDG No.: \_

Lab File ID: F1108DF1

DFTPP Injection Date: 11/08/00

Instrument ID: 722

DFTPP Injection Time: 1244

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 30.0 - 60.0% of mass 198           | 51.8                 |
| 68  | Less than 2.0% of mass 69          | 0.0 ( 0.0)1          |
| 69  | Mass 69 relative abundance         | 54.0                 |
| 70  | Less than 2.0% of mass 69          | 0.0 ( 0.0)1          |
| 127 | 40.0 - 60.0% of mass 198           | 56.8                 |
| 197 | Less than 1.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100.0                |
| 199 | 5.0 - 9.0% of mass 198             | 6.9                  |
| 275 | 10.0 - 30.0% of mass 198           | 25.5                 |
| 365 | Greater than 1.0% of mass 198      | 4.8                  |
| 441 | Present, but less than mass 443    | 12.8                 |
| 442 | 40.0 - 100.0% of mass 198          | 84.8                 |
| 443 | 17.0 - 23.0% of mass 442           | 16.6 ( 19.6)2        |

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|------------------|
| 01 | SSTD050           | SSTD050          | F11080C1       | 11/08/00         | 1341             |
| 02 | SSTD020           | SSTD020          | F11080C2       | 11/08/00         | 1417             |
| 03 | SSTD080           | SSTD080          | F11080C3       | 11/08/00         | 1451             |
| 04 | SSTD120           | SSTD120          | F11080C4       | 11/08/00         | 1525             |
| 05 | SSTD160           | SSTD160          | F11080C5       | 11/08/00         | 1559             |
| 06 |                   |                  |                |                  |                  |
| 07 |                   |                  |                |                  |                  |
| 08 |                   |                  |                |                  |                  |
| 09 |                   |                  |                |                  |                  |
| 10 |                   |                  |                |                  |                  |
| 11 |                   |                  |                |                  |                  |
| 12 |                   |                  |                |                  |                  |
| 13 |                   |                  |                |                  |                  |
| 14 |                   |                  |                |                  |                  |
| 15 |                   |                  |                |                  |                  |
| 16 |                   |                  |                |                  |                  |
| 17 |                   |                  |                |                  |                  |
| 18 |                   |                  |                |                  |                  |
| 19 |                   |                  |                |                  |                  |
| 20 |                   |                  |                |                  |                  |
| 21 |                   |                  |                |                  |                  |
| 22 |                   |                  |                |                  |                  |

FORM 5  
SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

674 198

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: COS 31020

Lab File ID: F1109DF2

DFTPP Injection Date: 11/09/00

Instrument ID: 722

DFTPP Injection Time: 0814

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 30.0 - 60.0% of mass 198           | 54.8                 |
| 68  | Less than 2.0% of mass 69          | 0.0 ( 0.0)1          |
| 69  | Mass 69 relative abundance         | 57.1                 |
| 70  | Less than 2.0% of mass 69          | 0.0 ( 0.0)1          |
| 127 | 40.0 - 60.0% of mass 198           | 58.8                 |
| 197 | Less than 1.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100.0                |
| 199 | 5.0 to 9.0% of mass 198            | 6.8                  |
| 275 | 10.0 - 30.0% of mass 198           | 26.2                 |
| 365 | Greater than 1.0% of mass 198      | 5.30                 |
| 441 | Present, but less than mass 443    | 12.9                 |
| 442 | 40.0 - 100.0% of mass 198          | 80.8                 |
| 443 | 17.0 - 23.0% of mass 442           | 15.9 ( 19.7)2        |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|------------------|
| 01 | SSTD050           | SSTD050          | F11090C1       | 11/09/00         | 0831             |
| 02 | INTRA-LAB BL      | DPFJJ1AA         | F1109001       | 11/09/00         | 0905             |
| 03 | INTRA-LAB CH      | DPFJJ1AC         | F1109002       | 11/09/00         | 0939             |
| 04 | DF/24-A/0304      | DN4P61CQ         | F1109003       | 11/09/00         | 1013             |
| 05 | DF/24-A/0304      | DN4P61CR         | F1109004       | 11/09/00         | 1047             |
| 06 | DF/24-A/0304      | DN4P61AD         | F1109005       | 11/09/00         | 1121             |
| 07 | DF/24-A/0304      | DN4QJ1AD         | F1109006       | 11/09/00         | 1155             |
| 08 | DF/24-A/0304      | DN4QK1AD         | F1109007       | 11/09/00         | 1229             |
| 09 |                   |                  |                |                  |                  |
| 10 |                   |                  |                |                  |                  |
| 11 |                   |                  |                |                  |                  |
| 12 |                   |                  |                |                  |                  |
| 13 |                   |                  |                |                  |                  |
| 14 |                   |                  |                |                  |                  |
| 15 |                   |                  |                |                  |                  |
| 16 |                   |                  |                |                  |                  |
| 17 |                   |                  |                |                  |                  |
| 18 |                   |                  |                |                  |                  |
| 19 |                   |                  |                |                  |                  |
| 20 |                   |                  |                |                  |                  |
| 21 |                   |                  |                |                  |                  |
| 22 |                   |                  |                |                  |                  |

FORM 8  
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

674 199

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C053102W

Lab File ID (Standard): F11090C1

Date Analyzed: 11/09/00

Instrument ID: 722

Time Analyzed: 0831

|                      | IS1 (DCB)<br>AREA # | RT #  | IS2 (NPT)<br>AREA # | RT #  | IS3 (ANT)<br>AREA # | RT #  |
|----------------------|---------------------|-------|---------------------|-------|---------------------|-------|
| =====                | =====               | ===== | =====               | ===== | =====               | ===== |
| 12 HOUR STD          | 122914              | 4.53  | 454755              | 5.95  | 230342              | 8.77  |
| UPPER LIMIT          | 245828              | 5.03  | 909510              | 6.45  | 460684              | 9.27  |
| LOWER LIMIT          | 61457               | 4.03  | 227378              | 5.45  | 115171              | 8.27  |
| =====                | =====               | ===== | =====               | ===== | =====               | ===== |
| CLIENT<br>SAMPLE NO. |                     |       |                     |       |                     |       |
| =====                | =====               | ===== | =====               | ===== | =====               | ===== |
| 01 INTRA-LAB BL      | 114216              | 4.53  | 448939              | 5.94  | 249449              | 8.76  |
| 02 INTRA-LAB CH      | 104181              | 4.53  | 415805              | 5.95  | 229633              | 8.77  |
| 03 DF/24-A/0304      | 111175              | 4.54  | 435299              | 5.95  | 232215              | 8.77  |
| 04 DF/24-A/0304      | 118382              | 4.54  | 466007              | 5.95  | 246403              | 8.77  |
| 05 DF/24-A/0304      | 110146              | 4.53  | 436952              | 5.94  | 234777              | 8.76  |
| 06 DF/24-A/0304      | 114481              | 4.53  | 465727              | 5.94  | 253713              | 8.75  |
| 07 DF/24-A/0304      | 102810              | 4.54  | 406003              | 5.95  | 219147              | 8.77  |
| 08                   |                     |       |                     |       |                     |       |
| 09                   |                     |       |                     |       |                     |       |
| 10                   |                     |       |                     |       |                     |       |
| 11                   |                     |       |                     |       |                     |       |
| 12                   |                     |       |                     |       |                     |       |
| 13                   |                     |       |                     |       |                     |       |
| 14                   |                     |       |                     |       |                     |       |
| 15                   |                     |       |                     |       |                     |       |
| 16                   |                     |       |                     |       |                     |       |
| 17                   |                     |       |                     |       |                     |       |
| 18                   |                     |       |                     |       |                     |       |
| 19                   |                     |       |                     |       |                     |       |
| 20                   |                     |       |                     |       |                     |       |
| 21                   |                     |       |                     |       |                     |       |
| 22                   |                     |       |                     |       |                     |       |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

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

# Column used to flag internal standard area values with an asterisk.  
\* Values outside of QC limits.

FORM 8  
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

674 200

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

CJ310200

Lab File ID (Standard): F11090C1

Date Analyzed: 11/09/00

Instrument ID: 722

Time Analyzed: 0831

|                 | IS4 (PHN) |       | IS5 (CRY) |       | IS6 (PRY) |       |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
|                 | AREA #    | RT #  | AREA #    | RT #  | AREA #    | RT #  |
| =====           | =====     | ===== | =====     | ===== | =====     | ===== |
| 12 HOUR STD     | 363297    | 11.96 | 371769    | 18.51 | 390180    | 21.84 |
| UPPER LIMIT     | 726594    | 12.46 | 743538    | 19.01 | 780360    | 22.34 |
| LOWER LIMIT     | 181649    | 11.46 | 185885    | 18.01 | 195090    | 21.34 |
| =====           | =====     | ===== | =====     | ===== | =====     | ===== |
| CLIENT          |           |       |           |       |           |       |
| SAMPLE NO.      |           |       |           |       |           |       |
| =====           | =====     | ===== | =====     | ===== | =====     | ===== |
| 01 INTRA-LAB BL | 389683    | 11.95 | 320445    | 18.49 | 313897    | 21.83 |
| 02 INTRA-LAB CH | 371870    | 11.95 | 343219    | 18.50 | 332219    | 21.83 |
| 03 DF/24-A/0304 | 360029    | 11.96 | 317244    | 18.50 | 302521    | 21.83 |
| 04 DF/24-A/0304 | 382375    | 11.95 | 344517    | 18.49 | 335090    | 21.83 |
| 05 DF/24-A/0304 | 363002    | 11.94 | 320450    | 18.48 | 306491    | 21.82 |
| 06 DF/24-A/0304 | 386259    | 11.94 | 348961    | 18.48 | 334772    | 21.82 |
| 07 DF/24-A/0304 | 343060    | 11.95 | 306503    | 18.50 | 294302    | 21.84 |
| 08              |           |       |           |       |           |       |
| 09              |           |       |           |       |           |       |
| 10              |           |       |           |       |           |       |
| 11              |           |       |           |       |           |       |
| 12              |           |       |           |       |           |       |
| 13              |           |       |           |       |           |       |
| 14              |           |       |           |       |           |       |
| 15              |           |       |           |       |           |       |
| 16              |           |       |           |       |           |       |
| 17              |           |       |           |       |           |       |
| 18              |           |       |           |       |           |       |
| 19              |           |       |           |       |           |       |
| 20              |           |       |           |       |           |       |
| 21              |           |       |           |       |           |       |
| 22              |           |       |           |       |           |       |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

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

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

\* Values outside of QC limits.

674 201

**GC/MS SEMIVOLATILE  
SAMPLE DATA**

674 202

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 10/31/00

Work Order: DN4P61AD

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/09/00

Moisture %: 16

QC Batch: 0312126

Client Sample Id: DF/24-A/0304/CVS/008

| CAS NO.   | COMPOUND              | CONCENTRATION UNITS: |   |
|-----------|-----------------------|----------------------|---|
|           |                       | (ug/L or ug/kg) mg/L | Q |
| 106-46-7  | 1,4-Dichlorobenzene   | 0.050                | U |
| 121-14-2  | 2,4-Dinitrotoluene    | 0.050                | U |
| 118-74-1  | Hexachlorobenzene     | 0.050                | U |
| 87-68-3   | Hexachlorobutadiene   | 0.050                | U |
| 67-72-1   | Hexachloroethane      | 0.050                | U |
| 98-95-3   | Nitrobenzene          | 0.050                | U |
| 87-86-5   | Pentachlorophenol     | 0.25                 | U |
| 110-86-1  | Pyridine              | 0.10                 | U |
| 95-95-4   | 2,4,5-Trichlorophenol | 0.050                | U |
| 88-06-2   | 2,4,6-Trichlorophenol | 0.050                | U |
| 1319-77-3 | Cresols (total)       | 0.050                | U |

FORM I

Data File: \\spitpa02\chem\722.1\110900.b\F1109005.D

Date: 09-NOV-2000 11:21

Client ID: JF/24-R/0304/CVS/00

Sample Info: C0310200-001 11/06/00 TCLP (0312126)

Volume Injected (uL): 2.0

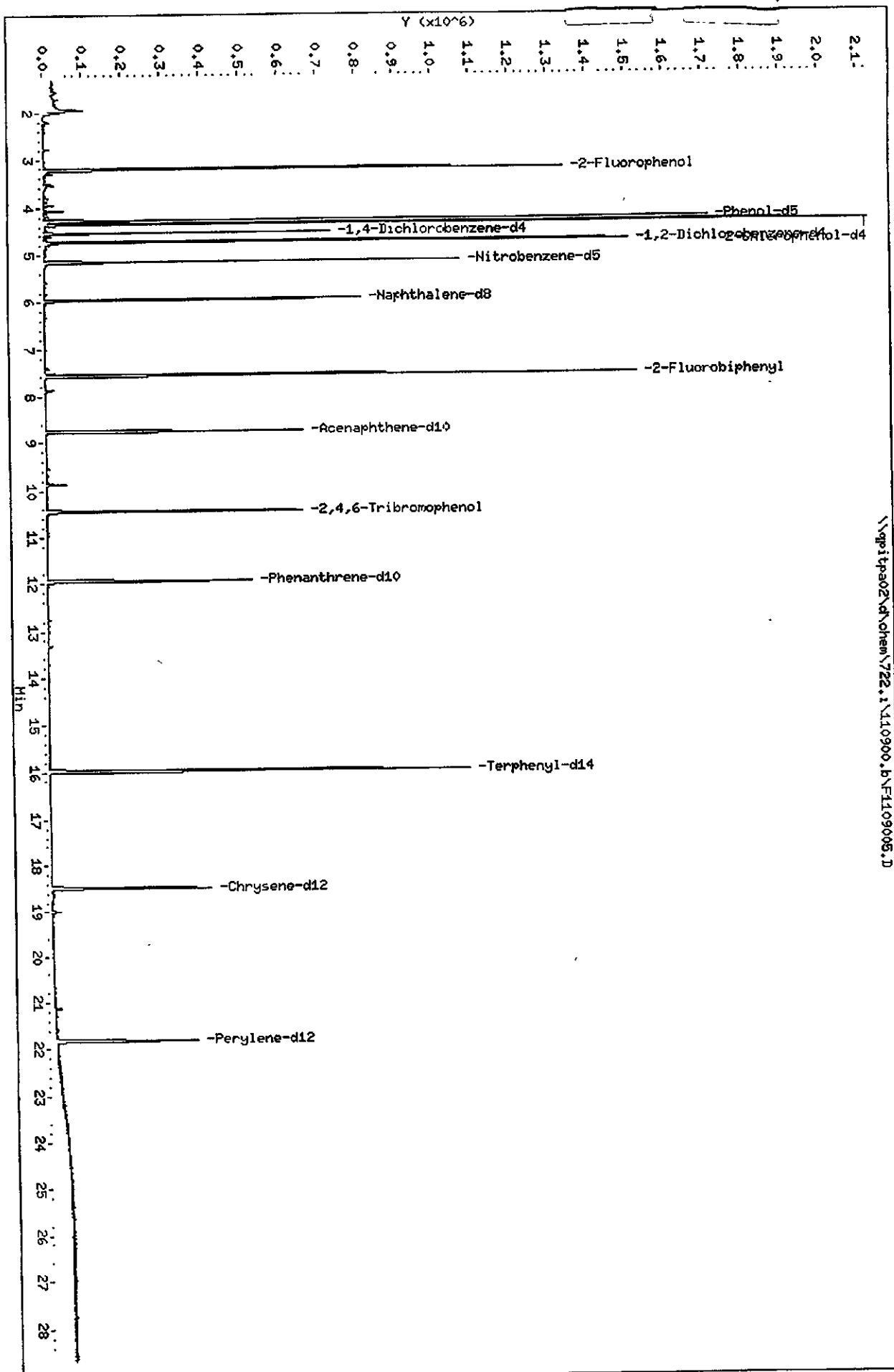
Column phase: H<sub>2</sub>-HS

Instrument: 722.1

Operator: 007062

Column diameter: 0.25

\\spitpa02\chem\722.1\110900.b\F1109005.D





674 204

Data File: \\qpitpa02\d\chem\722.i\110900.b\F1109005.D  
Report Date: 09-Nov-2000 11:53

Page 1

## STL-Pittsburgh

## Semivolatile REPORT SW-846 Method 8270

Data file : \\qpitpa02\d\chem\722.i\110900.b\F1109005.D  
Lab Smp Id: DN4P61AD Client Smp ID: DF/24-A/0304/CVS/00  
Inj Date : 09-NOV-2000 11:21  
Operator : 007062 Inst ID: 722.i  
Smp Info : C0J310200-001 11/06/00 TCLP (0312126)  
Misc Info : dn4p61ad,110900.b,8270b.m,tclp.sub  
Comment :  
Method : \\QPITPA02\D\chem\722.i\110900.b\8270b.m  
Meth Date : 09-Nov-2000 09:10 BungardF Quant Type: ISTD  
Cal Date : 08-NOV-2000 15:59 Cal File: F11080C5.D  
Als bottle: 7  
Dil Factor: 1.00000  
Integrator: HP RTE  
Target Version: 4.04  
Processing Host: PITPC062

*Handwritten signature*  
11/9/00

Compound Sublist: tclp.sub

Concentration Formula: Amt \* DF \* Uf \* Vt / (Vo \* Vi) \* gpc

| Name | Value    | Description                     |
|------|----------|---------------------------------|
| DF   | 1.000    | Dilution Factor                 |
| Uf   | 0.001    | ng unit correction factor       |
| Vt   | 1000.000 | Volume of final extract (uL)    |
| Vo   | 200.000  | Volume of sample extracted (mL) |
| Vi   | 2.000    | Volume injected (uL)            |
| gpc  | 1.000    | gpc correction factor           |

| Compounds                  | QUANT SIG | MASS   | RT     | EXP RT  | REL RT                 | RESPONSE | CONCENTRATIONS     |                  |
|----------------------------|-----------|--------|--------|---------|------------------------|----------|--------------------|------------------|
|                            |           |        |        |         |                        |          | ON-COLUMN<br>( NG) | FINAL<br>( mg/L) |
| * 1 1,4-Dichlorobenzene-d4 | 152       | 4.530  | 4.534  | (1.000) | 110146                 | 40.0000  | (Q)                |                  |
| * 2 Naphthalene-d8         | 136       | 5.940  | 5.949  | (1.000) | 436952                 | 40.0000  |                    |                  |
| * 3 Acenaphthene-d10       | 164       | 8.755  | 8.770  | (1.000) | 234777                 | 40.0000  |                    |                  |
| * 4 Phenanthrene-d10       | 188       | 11.939 | 11.959 | (1.000) | 363002                 | 40.0000  |                    |                  |
| * 5 Chrysene-d12           | 240       | 18.484 | 18.509 | (1.000) | 320450                 | 40.0000  |                    |                  |
| * 6 Perylene-d12           | 264       | 21.817 | 21.842 | (1.000) | 306491                 | 40.0000  |                    |                  |
| 9 Pyridine                 | 79        |        |        |         | Compound Not Detected. |          |                    |                  |
| 27 1,4-Dichlorobenzene     | 146       |        |        |         | Compound Not Detected. |          |                    |                  |
| M 195 Cresols, total       | 100       |        |        |         | Compound Not Detected. |          |                    |                  |
| 30 2-Methylphenol          | 108       |        |        |         | Compound Not Detected. |          |                    |                  |
| 192 4-Methylphenol         | 108       |        |        |         | Compound Not Detected. |          |                    |                  |
| 193 3-Methylphenol         | 108       |        |        |         | Compound Not Detected. |          |                    |                  |
| 34 Hexachloroethane        | 117       |        |        |         | Compound Not Detected. |          |                    |                  |

674 205

| Compounds                     | QUANT SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE               | CONCENTRATIONS     |                  |
|-------------------------------|-------------------|--------|--------|---------|------------------------|--------------------|------------------|
|                               |                   |        |        |         |                        | ON-COLUMN<br>( NG) | FINAL<br>( mg/L) |
| -----                         | ----              | --     | -----  | -----   | -----                  | -----              | -----            |
| 35 Nitrobenzene               | 77                |        |        |         | Compound Not Detected. |                    |                  |
| 56 Hexachlorobutadiene        | 224               |        |        |         | Compound Not Detected. |                    |                  |
| 66 2,4,6-Trichlorophenol      | 196               |        |        |         | Compound Not Detected. |                    |                  |
| 67 2,4,5-Trichlorophenol      | 196               |        |        |         | Compound Not Detected. |                    |                  |
| 87 2,4-Dinitrotoluene         | 165               |        |        |         | Compound Not Detected. |                    |                  |
| 107 Hexachlorobenzene         | 283               |        |        |         | Compound Not Detected. |                    |                  |
| 111 Pentachlorophenol         | 265               |        |        |         | Compound Not Detected. |                    |                  |
| \$ 154 Nitrobenzene-d5        | 82                | 5.144  | 5.153  | (0.866) | 439918                 | 84.8047            | 0.212 (a)        |
| \$ 155 2-Fluorobiphenyl       | 172               | 7.554  | 7.568  | (0.863) | 641559                 | 79.6363            | 0.199 (a)        |
| \$ 156 Terphenyl-d14          | 244               | 15.978 | 15.993 | (0.864) | 623543                 | 89.1799            | 0.223 (a)        |
| \$ 157 Phenol-d5              | 99                | 4.268  | 4.272  | (0.942) | 624796                 | 127.389            | 0.318 (a)        |
| \$ 158 2-Fluorophenol         | 112               | 3.205  | 3.214  | (0.708) | 416574                 | 117.100            | 0.293 (a)        |
| \$ 159 2,4,6-Tribromophenol   | 330               | 10.433 | 10.447 | (0.874) | 114409                 | 127.176            | 0.318 (a)        |
| \$ 186 2-Chlorophenol-d4      | 132               | 4.343  | 4.347  | (0.959) | 515529                 | 147.050            | 0.368 (a)        |
| \$ 187 1,2-Dichlorobenzene-d4 | 152               | 4.722  | 4.726  | (1.042) | 215174                 | 79.9357            | 0.200 (a)        |

#### QC Flag Legend

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

674 206

## UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 10/31/00

Work Order: DN4QJ1AD

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/09/00

Moisture %: 13

QC Batch: 0312126

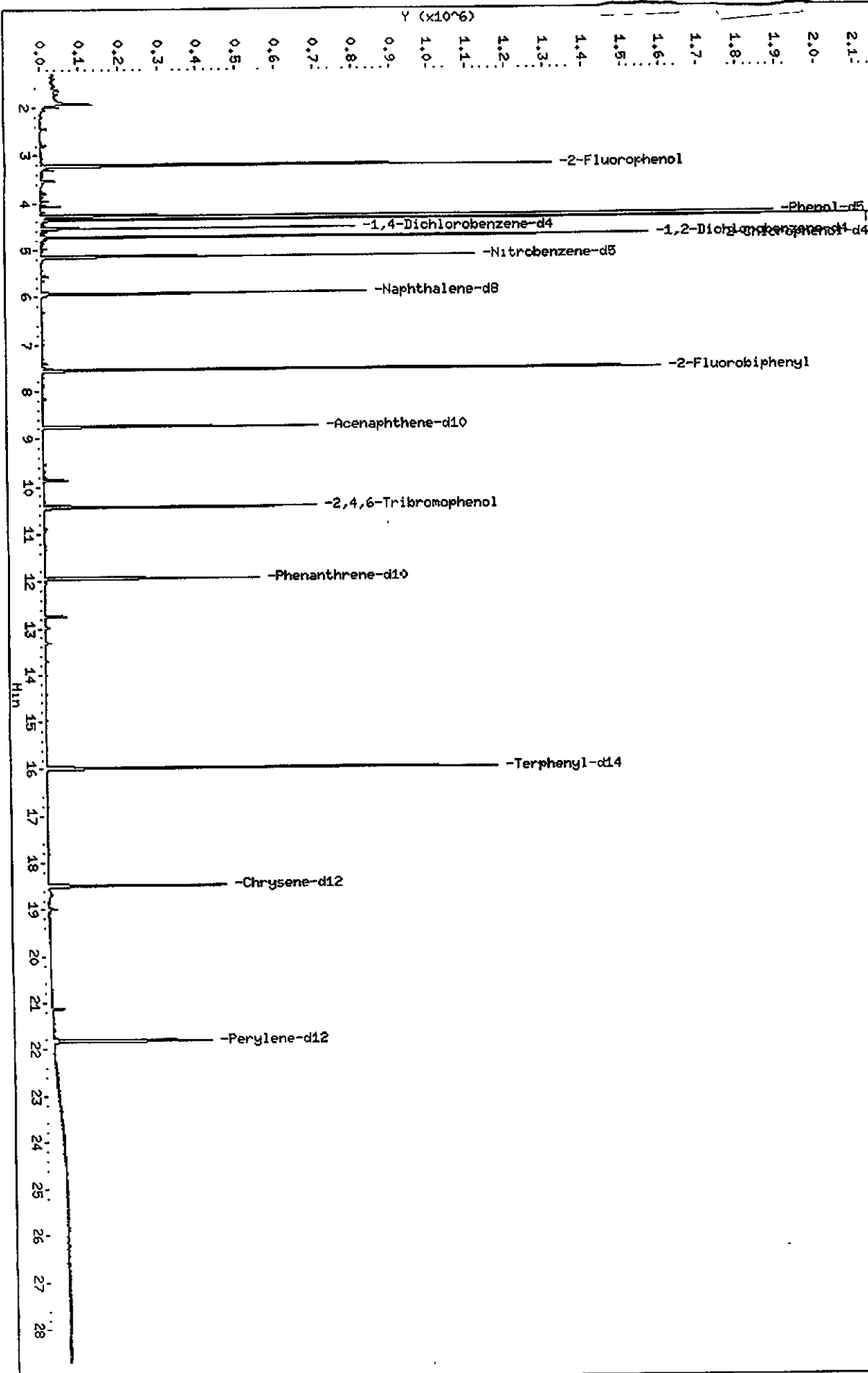
Client Sample Id: DF/24-A/0304/CVS/010

| CAS NO.   | COMPOUND              | CONCENTRATION UNITS: |   |
|-----------|-----------------------|----------------------|---|
|           |                       | (ug/L or ug/kg) mg/L | Q |
| 106-46-7  | 1,4-Dichlorobenzene   | 0.050                | U |
| 121-14-2  | 2,4-Dinitrotoluene    | 0.050                | U |
| 118-74-1  | Hexachlorobenzene     | 0.050                | U |
| 87-68-3   | Hexachlorobutadiene   | 0.050                | U |
| 67-72-1   | Hexachloroethane      | 0.050                | U |
| 98-95-3   | Nitrobenzene          | 0.050                | U |
| 87-86-5   | Pentachlorophenol     | 0.25                 | U |
| 110-86-1  | Pyridine              | 0.10                 | U |
| 95-95-4   | 2,4,5-Trichlorophenol | 0.050                | U |
| 88-06-2   | 2,4,6-Trichlorophenol | 0.050                | U |
| 1319-77-3 | Cresols (total)       | 0.050                | U |

Data File: \\QPI1FA02\chem\722.1\110900.b\F1109006.D  
Date: 09-NOV-2000 11:55  
Client ID: DF/24-R/0304/C/S/01  
Sample Info: C0310200-002 11/06/00 TCLP (0312126)  
Volume Injected (uL): 2.0  
Column phase: Hp5-MS

Instrument: 722.1  
Operator: 007062  
Column diameter: 0.25

\\QPI1FA02\chem\722.1\110900.b\F1109006.D



674 208

Data File: \\qpitpa02\d\chem\722.i\110900.b\F1109006.D  
Report Date: 09-Nov-2000 12:28

Page 1

## STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\qpitpa02\d\chem\722.i\110900.b\F1109006.D  
Lab Smp Id: DN4QJ1AD Client Smp ID: DF/24-A/0304/CVS/01  
Inj Date : 09-NOV-2000 11:55  
Operator : 007062 Inst ID: 722.i  
Smp Info : C0J310200-002 11/06/00 TCLP (0312126)  
Misc Info : dn4qjlad,110900.b,8270b.m,tclp.sub  
Comment :  
Method : \\QPITPA02\D\chem\722.i\110900.b\8270b.m  
Meth Date : 09-Nov-2000 09:10 BungardF Quant Type: ISTD  
Cal Date : 08-NOV-2000 15:59 Cal File: F11080C5.D  
Als bottle: 8  
Dil Factor: 1.00000  
Integrator: HP RTE  
Target Version: 4.04  
Processing Host: PITPC062

Compound Sublist: tclp.sub

FBP  
11/9/00

Concentration Formula: Amt \* DF \* Uf \* Vt / (Vo \* Vi) \* gpc

| Name | Value    | Description                     |
|------|----------|---------------------------------|
| DF   | 1.000    | Dilution Factor                 |
| Uf   | 0.001    | ng unit correction factor       |
| Vt   | 1000.000 | Volume of final extract (uL)    |
| Vo   | 200.000  | Volume of sample extracted (mL) |
| Vi   | 2.000    | Volume injected (uL)            |
| gpc  | 1.000    | gpc correction factor           |

| Compounds                  | QUANT SIG | MASS   | RT     | EXP RT  | REL RT                 | RESPONSE | CONCENTRATIONS     |                  |
|----------------------------|-----------|--------|--------|---------|------------------------|----------|--------------------|------------------|
|                            |           |        |        |         |                        |          | ON-COLUMN<br>( NG) | FINAL<br>( mg/L) |
| * 1 1,4-Dichlorobenzene-d4 | 152       | 4.528  | 4.534  | (1.000) | 114481                 | 40.0000  | (Q)                |                  |
| * 2 Naphthalene-d8         | 136       | 5.938  | 5.949  | (1.000) | 465727                 | 40.0000  |                    |                  |
| * 3 Acenaphthene-d10       | 164       | 8.753  | 8.770  | (1.000) | 253713                 | 40.0000  |                    |                  |
| * 4 Phenanthrene-d10       | 188       | 11.937 | 11.959 | (1.000) | 386259                 | 40.0000  |                    |                  |
| * 5 Chrysene-d12           | 240       | 18.476 | 18.509 | (1.000) | 348961                 | 40.0000  |                    |                  |
| * 6 Perylene-d12           | 264       | 21.815 | 21.842 | (1.000) | 334772                 | 40.0000  |                    |                  |
| 9 Pyridine                 | 79        |        |        |         | Compound Not Detected. |          |                    |                  |
| 27 1,4-Dichlorobenzene     | 146       |        |        |         | Compound Not Detected. |          |                    |                  |
| M 195 Cresols, total       | 100       |        |        |         | Compound Not Detected. |          |                    |                  |
| 30 2-Methylphenol          | 108       |        |        |         | Compound Not Detected. |          |                    |                  |
| 192 4-Methylphenol         | 108       |        |        |         | Compound Not Detected. |          |                    |                  |
| 193 3-Methylphenol         | 108       |        |        |         | Compound Not Detected. |          |                    |                  |
| 34 Hexachloroethane        | 117       |        |        |         | Compound Not Detected. |          |                    |                  |

674 209

| Compounds                     | QUANT SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE               | CONCENTRATIONS     |                  |
|-------------------------------|-------------------|--------|--------|---------|------------------------|--------------------|------------------|
|                               |                   |        |        |         |                        | ON-COLUMN<br>( NG) | FINAL<br>( mg/L) |
| 35 Nitrobenzene               | 77                |        |        |         | Compound Not Detected. |                    |                  |
| 56 Hexachlorobutadiene        | 224               |        |        |         | Compound Not Detected. |                    |                  |
| 66 2,4,6-Trichlorophenol      | 196               |        |        |         | Compound Not Detected. |                    |                  |
| 67 2,4,5-Trichlorophenol      | 196               |        |        |         | Compound Not Detected. |                    |                  |
| 87 2,4-Dinitrotoluene         | 165               |        |        |         | Compound Not Detected. |                    |                  |
| 107 Hexachlorobenzene         | 283               |        |        |         | Compound Not Detected. |                    |                  |
| 111 Pentachlorophenol         | 265               |        |        |         | Compound Not Detected. |                    |                  |
| \$ 154 Nitrobenzene-d5        | 82                | 5.137  | 5.153  | (0.865) | 441274                 | 79.8103            | 0.200(a)         |
| \$ 155 2-Fluorobiphenyl       | 172               | 7.552  | 7.568  | (0.863) | 668222                 | 76.7553            | 0.192(a)         |
| \$ 156 Terphenyl-d14          | 244               | 15.976 | 15.993 | (0.865) | 661292                 | 86.8515            | 0.217(a)         |
| \$ 157 Phenol-d5              | 99                | 4.266  | 4.272  | (0.942) | 648009                 | 127.119            | 0.318(a)         |
| \$ 158 2-Fluorophenol         | 112               | 3.214  | 3.214  | (0.710) | 408504                 | 110.483            | 0.276(a)         |
| \$ 159 2,4,6-Tribromophenol   | 330               | 10.431 | 10.447 | (0.874) | 122435                 | 127.903            | 0.320(a)         |
| \$ 186 2-Chlorophenol-d4      | 132               | 4.341  | 4.347  | (0.959) | 506278                 | 138.943            | 0.347(a)         |
| \$ 187 1,2-Dichlorobenzene-d4 | 152               | 4.720  | 4.726  | (1.042) | 211496                 | 75.5942            | 0.189(a)         |

#### QC Flag Legend

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

674 210

## UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 10/31/00

Work Order: DN4QK1AD

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/09/00

Moisture %: 17

QC Batch: 0312126

Client Sample Id: DF/24-A/0304/CVS/012

## CONCENTRATION UNITS:

| CAS NO.   | COMPOUND              | (ug/L or ug/kg) mg/L | Q |
|-----------|-----------------------|----------------------|---|
| 106-46-7  | 1,4-Dichlorobenzene   | 0.050                | U |
| 121-14-2  | 2,4-Dinitrotoluene    | 0.050                | U |
| 118-74-1  | Hexachlorobenzene     | 0.050                | U |
| 87-68-3   | Hexachlorobutadiene   | 0.050                | U |
| 67-72-1   | Hexachloroethane      | 0.050                | U |
| 98-95-3   | Nitrobenzene          | 0.050                | U |
| 87-86-5   | Pentachlorophenol     | 0.25                 | U |
| 110-86-1  | Pyridine              | 0.10                 | U |
| 95-95-4   | 2,4,5-Trichlorophenol | 0.050                | U |
| 88-06-2   | 2,4,6-Trichlorophenol | 0.050                | U |
| 1319-77-3 | Cresols (total)       | 0.050                | U |

FORM I

Data File: \\QPITPA02\chem\722.1\110900.b\F1109007.D

Date : 09-NOV-2000 12:29

Client ID: DF/24-R/0304/CVS/01

Sample Info: COJ310200-003 11/06/00 TCLP (0312126)

Volume Injected (uL): 2.0

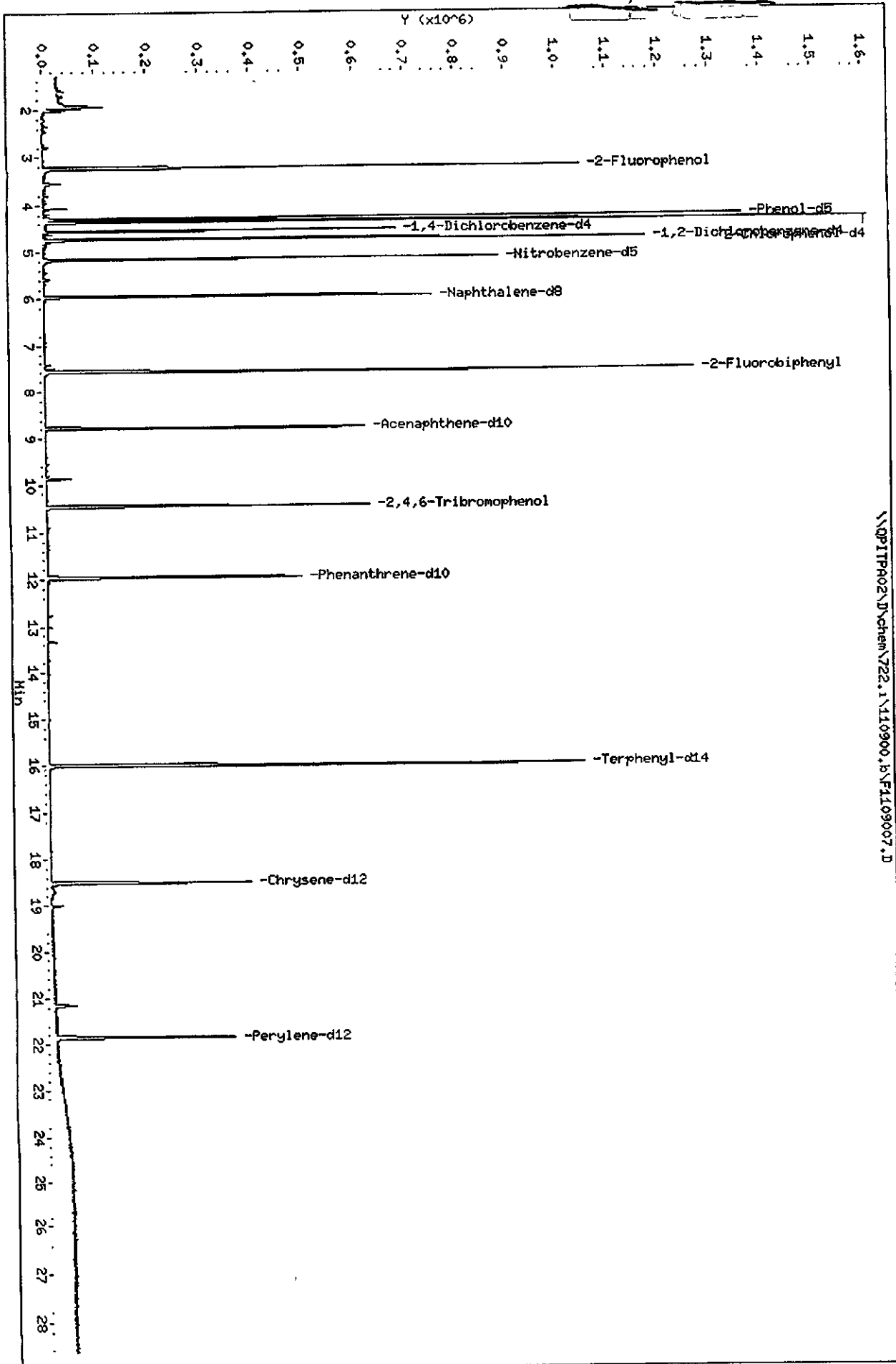
Column phase: HP5-MS

Instrument: 722.1

Operator: 007062

Column diameter: 0.25

\\QPITPA02\chem\722.1\110900.b\F1109007.D





674 212

Data File: \\qpitpa02\d\chem\722.i\110900.b\F1109007.D  
Report Date: 09-Nov-2000 13:01

Page 1

## STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\qpitpa02\d\chem\722.i\110900.b\F1109007.D  
Lab Smp Id: DN4QK1AD Client Smp ID: DF/24-A/0304/CVS/01  
Inj Date : 09-NOV-2000 12:29  
Operator : 007062 Inst ID: 722.i  
Smp Info : C0J310200-003 11/06/00 TCLP (0312126)  
Misc Info : dn4qk1ad,110900.b,8270b.m,tclp.sub  
Comment :  
Method : \\QPITPA02\D\chem\722.i\110900.b\8270b.m  
Meth Date : 09-Nov-2000 09:10 BungardF Quant Type: ISTD  
Cal Date : 08-NOV-2000 15:59 Cal File: F11080C5.D  
Als bottle: 9  
Dil Factor: 1.00000  
Integrator: HP RTE  
Target Version: 4.04  
Processing Host: PITPC062

11/9/00

Compound Sublist: tclp.sub

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi)\*gpc

| Name | Value    | Description                     |
|------|----------|---------------------------------|
| DF   | 1.000    | Dilution Factor                 |
| Uf   | 0.001    | ng unit correction factor       |
| Vt   | 1000.000 | Volume of final extract (uL)    |
| Vo   | 200.000  | Volume of sample extracted (mL) |
| Vi   | 2.000    | Volume injected (uL)            |
| gpc  | 1.000    | gpc correction factor           |

| Compounds                  | QUANT SIG | MASS   | RT     | EXP RT  | REL RT                 | RESPONSE | CONCENTRATIONS     |                  |
|----------------------------|-----------|--------|--------|---------|------------------------|----------|--------------------|------------------|
|                            |           |        |        |         |                        |          | ON-COLUMN<br>( NG) | FINAL<br>( mg/L) |
| * 1 1,4-Dichlorobenzene-d4 | 152       | 4.538  | 4.534  | (1.000) | 102810                 | 40 0000  |                    |                  |
| * 2 Naphthalene-d8         | 136       | 5.948  | 5.949  | (1.000) | 406003                 | 40.0000  |                    |                  |
| * 3 Acenaphthene-d10       | 164       | 8.769  | 8.770  | (1.000) | 219147                 | 40 0000  |                    |                  |
| * 4 Phenanthrene-d10       | 188       | 11.953 | 11.959 | (1.000) | 343060                 | 40.0000  |                    |                  |
| * 5 Chrysene-d12           | 240       | 18.497 | 18.509 | (1.000) | 306503                 | 40.0000  |                    |                  |
| * 6 Perylene-d12           | 264       | 21.835 | 21.842 | (1.000) | 294302                 | 40 0000  |                    |                  |
| 9 Pyridine                 | 79        |        |        |         | Compound Not Detected  |          |                    |                  |
| 27 1,4-Dichlorobenzene     | 146       |        |        |         | Compound Not Detected. |          |                    |                  |
| M 195 Cresols, total       | 100       |        |        |         | Compound Not Detected. |          |                    |                  |
| 30 2-Methylphenol          | 108       |        |        |         | Compound Not Detected. |          |                    |                  |
| 192 4-Methylphenol         | 108       |        |        |         | Compound Not Detected  |          |                    |                  |
| 193 3-Methylphenol         | 108       |        |        |         | Compound Not Detected. |          |                    |                  |
| 34 Hexachloroethane        | 117       |        |        |         | Compound Not Detected. |          |                    |                  |

674 213

| Compounds                     | QUANT SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE               | CONCENTRATIONS     |                  |
|-------------------------------|-------------------|--------|--------|---------|------------------------|--------------------|------------------|
|                               |                   |        |        |         |                        | ON-COLUMN<br>( NG) | FINAL<br>( mg/L) |
| =====                         | =====             | ==     | =====  | =====   | =====                  | =====              | =====            |
| 35 Nitrobenzene               | 77                |        |        |         | Compound Not Detected. |                    |                  |
| 56 Hexachlorobutadiene        | 224               |        |        |         | Compound Not Detected. |                    |                  |
| 66 2,4,6-Trichlorophenol      | 196               |        |        |         | Compound Not Detected  |                    |                  |
| 67 2,4,5-Trichlorophenol      | 196               |        |        |         | Compound Not Detected  |                    |                  |
| 87 2,4-Dinitrotoluene         | 165               |        |        |         | Compound Not Detected. |                    |                  |
| 107 Hexachlorobenzene         | 283               |        |        |         | Compound Not Detected. |                    |                  |
| 111 Pentachlorophenol         | 265               |        |        |         | Compound Not Detected. |                    |                  |
| \$ 154 Nitrobenzene-d5        | 82                | 5.152  | 5.153  | (0.866) | 357806                 | 74.2336            | 0.186 (a)        |
| \$ 155 2-Fluorobiphenyl       | 172               | 7.567  | 7.568  | (0.863) | 539845                 | 71.7899            | 0.179 (a)        |
| \$ 156 Terphenyl-d14          | 244               | 15.991 | 15.993 | (0.865) | 607234                 | 90.7993            | 0.227 (a)        |
| \$ 157 Phenol-d5              | 99                | 4.271  | 4.272  | (0.941) | 524521                 | 114.575            | 0.286 (a)        |
| \$ 158 2-Fluorophenol         | 112               | 3.218  | 3.214  | (0.709) | 327934                 | 98.7607            | 0.247 (a)        |
| \$ 159 2,4,6-Tribromophenol   | 330               | 10.446 | 10.447 | (0.874) | 107289                 | 126.194            | 0.315 (a)        |
| \$ 186 2-Chlorophenol-d4      | 132               | 4.351  | 4.347  | (0.959) | 404433                 | 123.593            | 0.309 (a)        |
| \$ 187 1,2-Dichlorobenzene-d4 | 152               | 4.730  | 4.726  | (1.042) | 165785                 | 65.9826            | 0.165 (a)        |

#### QC Flag Legend

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

674 214

**GC/MS SEMIVOLATILE  
CALIBRATION DATA**

6B  
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL PITTSBURGH

Contract:

674 215

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: 722

Calibration Date(s): 11/08/00

Min RRF for SPCC(#) = 0.050

Max %RSD for CCC(\*) = 30.0%

| LAB FILE ID:                |       | RRF1 =F11080C2.D | RRF2 =F11080C1.D |       |       |       |       |
|-----------------------------|-------|------------------|------------------|-------|-------|-------|-------|
| RRF3 =F11080C3.D            |       | RRF4 =F11080C4.D | RRF5 =F11080C5.D |       |       |       |       |
| COMPOUND                    | RRF1  | RRF2             | RRF3             | RRF4  | RRF5  | RRF   | % RSD |
| Phenol                      | 1.911 | 1.987            | 1.802            | 1.816 | 1.733 | 1.850 | 5.4*  |
| bis(2-Chloroethyl) ether    | 1.520 | 1.607            | 1.465            | 1.498 | 1.394 | 1.497 | 5.2   |
| 2-Chlorophenol              | 1.417 | 1.480            | 1.363            | 1.402 | 1.344 | 1.401 | 3.8   |
| 1,3-Dichlorobenzene         | 1.545 | 1.611            | 1.513            | 1.538 | 1.492 | 1.540 | 2.9   |
| 1,4-Dichlorobenzene         | 1.614 | 1.648            | 1.556            | 1.565 | 1.524 | 1.581 | 3.1*  |
| 1,2-Dichlorobenzene         | 1.480 | 1.544            | 1.444            | 1.503 | 1.470 | 1.488 | 2.5   |
| 2-Methylphenol              | 1.338 | 1.353            | 1.240            | 1.276 | 1.216 | 1.285 | 4.7   |
| 2,2'-oxybis(1-Chloropropane | 2.258 | 2.326            | 2.030            | 1.941 | 1.768 | 2.065 | 11.1  |
| 4-Methylphenol              | 1.394 | 1.430            | 1.297            | 1.347 | 1.276 | 1.349 | 4.8   |
| Hexachloroethane            | 0.665 | 0.691            | 0.649            | 0.660 | 0.647 | 0.662 | 2.6   |
| Nitrobenzene                | 0.489 | 0.497            | 0.464            | 0.468 | 0.460 | 0.476 | 3.5   |
| Isophorone                  | 0.756 | 0.792            | 0.730            | 0.756 | 0.729 | 0.753 | 3.4   |
| 2-Nitrophenol               | 0.193 | 0.208            | 0.197            | 0.203 | 0.201 | 0.200 | 2.9*  |
| 2,4-Dimethylphenol          | 0.371 | 0.404            | 0.372            | 0.386 | 0.378 | 0.382 | 3.5   |
| bis(2-Chloroethoxy) methane | 0.462 | 0.482            | 0.448            | 0.457 | 0.449 | 0.460 | 3.0   |
| N-Nitroso-di-n-propylamine  | 1.201 | 1.273            | 1.150            | 1.186 | 1.088 | 1.180 | 5.8#  |
| 2,4-Dichlorophenol          | 0.285 | 0.303            | 0.284            | 0.293 | 0.289 | 0.291 | 2.6*  |
| 1,2,4-Trichlorobenzene      | 0.304 | 0.321            | 0.303            | 0.312 | 0.310 | 0.310 | 2.3   |
| Naphthalene                 | 1.115 | 1.153            | 1.068            | 1.064 | 1.039 | 1.088 | 4.2   |
| 4-Chloroaniline             | 0.417 | 0.437            | 0.410            | 0.425 | 0.415 | 0.421 | 2.5   |
| Hexachlorobutadiene         | 0.183 | 0.191            | 0.186            | 0.189 | 0.194 | 0.189 | 2.4*  |
| 4-Chloro-3-Methylphenol     | 0.321 | 0.343            | 0.322            | 0.344 | 0.331 | 0.332 | 3.3*  |
| 2-Methylnaphthalene         | 0.681 | 0.707            | 0.656            | 0.677 | 0.659 | 0.676 | 3.1   |
| Hexachlorocyclopentadiene   | 0.162 | 0.257            | 0.269            | 0.300 | 0.328 | 0.263 | 24.0# |
| 2,4,6-Trichlorophenol       | 0.321 | 0.350            | 0.331            | 0.337 | 0.342 | 0.336 | 3.3*  |
| 2,4,5-Trichlorophenol       | 0.336 | 0.363            | 0.343            | 0.370 | 0.361 | 0.355 | 4.0   |
| 2-Chloronaphthalene         | 1.197 | 1.242            | 1.178            | 1.212 | 1.238 | 1.213 | 2.2   |
| 2-Nitroaniline              | 0.454 | 0.490            | 0.468            | 0.493 | 0.493 | 0.480 | 3.7   |
| Dimethylphthalate           | 1.267 | 1.326            | 1.266            | 1.316 | 1.309 | 1.297 | 2.2   |
| Acenaphthylene              | 1.941 | 2.001            | 1.881            | 1.910 | 1.889 | 1.924 | 2.5   |
| 2,6-Dinitrotoluene          | 0.270 | 0.300            | 0.286            | 0.307 | 0.304 | 0.293 | 5.3   |
| 3-Nitroaniline              | 0.313 | 0.347            | 0.335            | 0.355 | 0.359 | 0.342 | 5.5   |
| Acenaphthene                | 1.197 | 1.248            | 1.167            | 1.191 | 1.190 | 1.199 | 2.5*  |
| 2,4-Dinitrophenol           | 0.073 | 0.128            | 0.141            | 0.169 | 0.177 | 0.138 | 29.9# |
| 4-Nitrophenol               | 0.138 | 0.171            | 0.177            | 0.204 | 0.211 | 0.180 | 16.1# |
| Dibenzofuran                | 1.602 | 1.681            | 1.581            | 1.608 | 1.604 | 1.615 | 2.4   |
| 2,4-Dinitrotoluene          | 0.357 | 0.394            | 0.391            | 0.416 | 0.419 | 0.395 | 6.3   |

## SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

674 216

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: 722

Calibration Date(s): 11/08/00

Min RRF for SPCC(#) = 0.050

Max %RSD for CCC(\*) = 30.0%

| LAB FILE ID:               | RRF1    | =F11080C2.D | RRF2  | =F11080C1.D |       |       |          |
|----------------------------|---------|-------------|-------|-------------|-------|-------|----------|
| RRF3 =F11080C3.D           | RRF4    | =F11080C4.D | RRF5  | =F11080C5.D |       |       |          |
| COMPOUND                   | RRF1    | RRF2        | RRF3  | RRF4        | RRF5  | RRF   | %<br>RSD |
| Diethylphthalate           | 1.303   | 1.378       | 1.345 | 1.439       | 1.445 | 1.382 | 4.4      |
| 4-Chlorophenyl-phenylether | 0.612   | 0.641       | 0.607 | 0.631       | 0.629 | 0.624 | 2.3      |
| Fluorene                   | 1.312   | 1.365       | 1.307 | 1.375       | 1.372 | 1.346 | 2.5      |
| 4-Nitroaniline             | 0.287   | 0.329       | 0.329 | 0.358       | 0.363 | 0.333 | 9.1      |
| 4,6-Dinitro-2-methylphenol | 0.102   | 0.132       | 0.135 | 0.146       | 0.151 | 0.133 | 14.5     |
| N-Nitrosodiphenylamine (1) | * 0.609 | 0.473       | 0.579 | 0.591       | 0.573 | 0.565 | 9.5*     |
| 4-Bromophenyl-phenylether  | 0.218   | 0.229       | 0.215 | 0.219       | 0.216 | 0.219 | 2.5      |
| Hexachlorobenzene          | 0.235   | 0.246       | 0.230 | 0.236       | 0.236 | 0.237 | 2.6      |
| Pentachlorophenol          | # 0.048 | 0.086       | 0.084 | 0.099       | 0.105 | 0.084 | 26.3#    |
| Phenanthrene               | 1.132   | 1.170       | 1.098 | 1.099       | 1.090 | 1.118 | 3.0      |
| Anthracene                 | 1.155   | 1.222       | 1.140 | 1.145       | 1.130 | 1.158 | 3.2      |
| Carbazole                  | 1.010   | 1.078       | 1.036 | 1.064       | 1.067 | 1.051 | 2.6      |
| Di-n-Butylphthalate        | 1.279   | 1.406       | 1.344 | 1.388       | 1.370 | 1.357 | 3.6      |
| Fluoranthene               | * 1.092 | 1.206       | 1.165 | 1.208       | 1.221 | 1.178 | 4.5*     |
| Pyrene                     | 1.122   | 1.111       | 1.022 | 1.017       | 0.991 | 1.053 | 5.7      |
| Butylbenzylphthalate       | 0.561   | 0.596       | 0.563 | 0.571       | 0.564 | 0.571 | 2.5      |
| 3,3'-Dichlorobenzidine     | 0.397   | 0.413       | 0.428 | 0.442       | 0.446 | 0.425 | 4.8      |
| Benzo(a)Anthracene         | 1.038   | 1.096       | 1.035 | 1.053       | 1.046 | 1.054 | 2.4      |
| Chrysene                   | 1.030   | 1.060       | 0.999 | 1.020       | 1.016 | 1.025 | 2.2      |
| bis(2-ethylhexyl)Phthalate | 0.793   | 0.858       | 0.810 | 0.828       | 0.809 | 0.820 | 3.0      |
| Di-n-octylphthalate        | * 1.383 | 1.460       | 1.368 | 1.383       | 1.341 | 1.387 | 3.2*     |
| Benzo(b)fluoranthene       | 1.145   | 1.203       | 1.121 | 1.249       | 1.308 | 1.205 | 6.3      |
| Benzo(k)fluoranthene       | 1.245   | 1.303       | 1.256 | 1.203       | 1.128 | 1.227 | 5.4      |
| Benzo(a)pyrene             | * 1.086 | 1.160       | 1.102 | 1.123       | 1.116 | 1.117 | 2.5*     |
| Indeno(1,2,3-cd)pyrene     | 1.498   | 1.619       | 1.535 | 1.614       | 1.640 | 1.581 | 3.9      |
| Dibenz(a,h)anthracene      | 1.301   | 1.394       | 1.331 | 1.401       | 1.426 | 1.371 | 3.8      |
| Benzo(g,h,i)perylene       | 1.313   | 1.406       | 1.341 | 1.397       | 1.410 | 1.373 | 3.2      |
| Pyridine                   | 1.756   | 1.707       | 1.673 | 1.698       | 1.594 | 1.686 | 3.5      |
| N-Nitrosodimethylamine     | 0.944   | 1.026       | 0.915 | 0.918       | 0.882 | 0.937 | 5.8      |
| Aniline                    | 2.423   | 2.284       | 2.300 | 2.320       | 2.188 | 2.303 | 3.7      |
| Benzyl Alcohol             | 0.976   | 0.988       | 0.976 | 1.008       | 0.983 | 0.986 | 1.3      |
| Benzoic Acid               | 0.036   | 0.166       | 0.174 | 0.190       | 0.188 | 0.151 | 43.2     |
| 2,3,4,6-Tetrachlorophenol  | 0.243   | 0.250       | 0.258 | 0.288       | 0.290 | 0.266 | 8.2      |
| 2,3,5,6-Tetrachlorophenol  | 0.222   | 0.246       | 0.249 | 0.272       | 0.274 | 0.253 | 8.5      |
| 1,2-Diphenylhydrazine      | 1.152   | 1.199       | 1.104 | 1.182       | 1.154 | 1.158 | 3.1      |

(1) Cannot be separated from Diphenylamine

Contract: \_\_\_\_\_

SDG No. :

Calibration Date(s): 11/08/00

Max %RSD for CCC(\*) = 30.0%

[illegible]

**674 218** INITIAL CALIBRATION REPORT

Instrument ID: 722.i  
Lab File ID: F11080C5.D  
Analysis Type: NONE

Injection Date: 08-NOV-2000 15:59  
Lab Sample ID: sstd160  
Method File: \\qpitpa02\d\chem\722.i\110800.b\

| COMPOUND                      | %RSD  |
|-------------------------------|-------|
| -----                         | ----- |
| Benzo(b)fluoranthene          | 6.3   |
| 7,12-dimethylbenz(a)anthracen | 6.1   |
| Benzo(k)fluoranthene          | 5.4   |
| Benzo(a)pyrene                | 2.5   |
| Indeno(1,2,3-cd)pyrene        | 3.9   |
| Dibenz(a,h)anthracene         | 3.8   |
| Benzo(g,h,i)perylene          | 3.2   |

The average of all %RSD's in the initial calibration is 5.6

674 219

INITIAL CALIBRATION REPORT

Instrument ID: 722.i  
Lab File ID: F11080C5.D  
Analysis Type: NONE

Injection Date: 08-NOV-2000 15:59  
Lab Sample ID: sstd160  
Method File: \\qpitpa02\d\chem\722.i\110800.b\

| COMPOUND                     | %RSD |
|------------------------------|------|
| Pyridine                     | 3.5  |
| N-Nitrosodimethylamine       | 5.8  |
| Methyl methanesulfonate      | 19.4 |
| 2-Fluorophenol               | 2.1  |
| Aniline                      | 3.7  |
| Phenol-d5                    | 3.3  |
| Phenol                       | 5.4  |
| bis(2-Chloroethyl) ether     | 5.2  |
| 2-Chlorophenol-d4            | 1.6  |
| 2-Chlorophenol               | 3.8  |
| 1,3-Dichlorobenzene          | 2.9  |
| 1,4-Dichlorobenzene          | 3.1  |
| 1,2-Dichlorobenzene-d4       | 2.0  |
| Benzyl Alcohol               | 1.3  |
| 1,2-Dichlorobenzene          | 2.5  |
| 2,2'-oxybis(1-Chloropropane) | 11.1 |
| 2-Methylphenol               | 4.7  |
| 4-Methylphenol               | 4.8  |
| N-Nitroso-di-n-propylamine   | 5.8  |
| Hexachloroethane             | 2.6  |
| Nitrobenzene-d5              | 0.9  |
| Nitrobenzene                 | 3.5  |
| Isophorone                   | 3.4  |
| 2-Nitrophenol                | 2.9  |
| 2,4-Dimethylphenol           | 3.5  |
| bis(2-Chloroethoxy) methane  | 3.0  |
| 2,4-Dichlorophenol           | 2.6  |
| Benzoic Acid                 | 43.2 |
| 1,2,4-Trichlorobenzene       | 2.3  |
| Naphthalene                  | 4.2  |
| 4-Chloroaniline              | 2.5  |
| Hexachlorobutadiene          | 2.4  |
| 4-Chloro-3-Methylphenol      | 3.3  |
| 2-Methylnaphthalene          | 3.1  |
| 1-Methylnaphthalene          | 1.4  |
| Hexachlorocyclopentadiene    | 24.0 |
| 2,4,6-Trichlorophenol        | 3.3  |
| 2,4,5-Trichlorophenol        | 4.0  |
| 2-Fluorobiphenyl             | 1.5  |



674 220

INITIAL CALIBRATION REPORT

Instrument ID: 722.i  
Lab File ID: F11080C5.D  
Analysis Type: NONE

Injection Date: 08-NOV-2000 15:59  
Lab Sample ID: sstd160  
Method File: \\qpitpa02\d\chem\722.i\110800.b\

| COMPOUND                     | %RSD |
|------------------------------|------|
| 2-Chloronaphthalene          | 2.2  |
| 2-Nitroaniline               | 3.7  |
| Dimethylphthalate            | 2.2  |
| Acenaphthylene               | 2.5  |
| 2,6-Dinitrotoluene           | 5.3  |
| 3-Nitroaniline               | 5.5  |
| Acenaphthene                 | 2.5  |
| 2,4-Dinitrophenol            | 29.9 |
| Dibenzofuran                 | 2.4  |
| 4-Nitrophenol                | 16.1 |
| 2,4-Dinitrotoluene           | 6.3  |
| 2,3,5,6-Tetrachlorophenol    | 8.5  |
| 2-Naphthylamine              | 7.4  |
| 2,3,4,6-Tetrachlorophenol    | 8.2  |
| Fluorene                     | 2.5  |
| Diethylphthalate             | 4.4  |
| 4-Chlorophenyl-phenylether   | 2.3  |
| 4-Nitroaniline               | 9.1  |
| 4,6-Dinitro-2-methylphenol   | 14.5 |
| N-Nitrosodiphenylamine       | 9.5  |
| 1,2-Diphenylhydrazine        | 3.1  |
| 2,4,6-Tribromophenol         | 5.3  |
| 4-Bromophenyl-phenylether    | 2.5  |
| Hexachlorobenzene            | 2.6  |
| Pentachlorophenol            | 26.3 |
| Phenanthrene                 | 3.0  |
| Anthracene                   | 3.2  |
| Carbazole                    | 2.6  |
| Di-n-Butylphthalate          | 3.6  |
| Fluoranthene                 | 4.5  |
| Benzydine                    | 6.9  |
| Pyrene                       | 5.7  |
| Terphenyl-d14                | 3.5  |
| Butylbenzylphthalate         | 2.5  |
| Benzo (a) Anthracene         | 2.4  |
| 3,3'-Dichlorobenzidine       | 4.8  |
| Chrysene                     | 2.2  |
| bis (2-ethylhexyl) Phthalate | 3.0  |
| Di-n-octylphthalate          | 3.2  |



674 222

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\qpitpa02\d\chem\722.i\110800.b\F11080C2.D  
Lab Smp Id: sstd020 Client Smp ID: SSTD020  
Inj Date : 08-NOV-2000 14:17  
Operator : 007062 Inst ID: 722.i  
Smp Info : SSTD020 (10ppb) 77-01-5  
Misc Info : sstd020,110800.b,8270b.m,2-root.sub,1,1  
Comment :  
Method : \\QPITPA02\D\chem\722.i\110800.b\8270b.m  
Meth Date : 08-Nov-2000 15:21 bungardf Quant Type: ISTD  
Cal Date : 08-NOV-2000 14:51 Cal File: F11080C3.D  
Als bottle: 25 Calibration Sample, Level: 1  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 2-root.sub  
Target Version: 4.04  
Processing Host: PITPC062

11/8/00

| Compounds                       | QUANT SIG |        |        |         | AMOUNTS  |                  |                 |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                 | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| *****                           | ----      | --     | -----  | -----   | -----    | -----            | -----           |
| * 1 1,4-Dichlorobenzene-d4      | 152       | 4.527  | 4.527  | (1.000) | 135806   | 40.0000          |                 |
| * 2 Naphthalene-d8              | 136       | 5.942  | 5.942  | (1.000) | 522431   | 40.0000          |                 |
| * 3 Acenaphthene-d10            | 164       | 8.758  | 8.758  | (1.000) | 270447   | 40.0000          |                 |
| * 4 Phenanthrene-d10            | 188       | 11.947 | 11.947 | (1.000) | 416023   | 40.0000          |                 |
| * 5 Chrysene-d12                | 240       | 18.491 | 18.491 | (1.000) | 408135   | 40.0000          |                 |
| * 6 Perylene-d12                | 264       | 21.825 | 21.825 | (1.000) | 414247   | 40.0000          |                 |
| 10 N-Nitrosodimethylamine       | 74        | 1.386  | 1.386  | (0.306) | 64070    | 20.0000          | 22.1            |
| 9 Pyridine                      | 79        | 1.380  | 1.380  | (0.305) | 119209   | 20.0000          | 22.5            |
| 16 Methyl methanesulfonate      | 80        | 3.020  | 3.020  | (0.667) | 60929    | 20.0000          | 22.9            |
| 21 Aniline                      | 93        | 4.244  | 4.244  | (0.937) | 164537   | 20.0000          | 21.0            |
| 22 Phenol                       | 94        | 4.276  | 4.276  | (0.945) | 129783   | 20.0000          | 20.4            |
| 23 bis(2-Chloroethyl)ether      | 93        | 4.318  | 4.318  | (0.954) | 103236   | 20.0000          | 20.8            |
| 24 2-Chlorophenol               | 128       | 4.356  | 4.356  | (0.962) | 96194    | 20.0000          | 20.8            |
| 26 1,3-Dichlorobenzene          | 146       | 4.489  | 4.489  | (0.992) | 104912   | 20.0000          | 20.9            |
| 27 1,4-Dichlorobenzene          | 146       | 4.543  | 4.543  | (1.004) | 109591   | 20.0000          | 21.2            |
| 28 1,2-Dichlorobenzene          | 146       | 4.730  | 4.730  | (1.045) | 100485   | 20.0000          | 21.2            |
| 29 Benzyl Alcohol               | 108       | 4.714  | 4.714  | (1.041) | 66256    | 20.0000          | 21.0            |
| 30 2-Methylphenol               | 108       | 4.869  | 4.869  | (1.076) | 90832    | 20.0000          | 21.5            |
| 31 2,2'-oxybis(1-Chloropropane) | 45        | 4.869  | 4.869  | (1.076) | 153354   | 20.0000          | 25.2            |
| 32 N-Nitroso-di-n-propylamine   | 70        | 5.018  | 5.018  | (1.109) | 81563    | 20.0000          | 22.8            |
| 192 4-Methylphenol              | 108       | 5.024  | 5.024  | (1.110) | 94661    | 20.0000          | 21.7            |
| 34 Hexachloroethane             | 117       | 5.045  | 5.045  | (1.114) | 45152    | 20.0000          | 21.8            |
| 35 Nitrobenzene                 | 77        | 5.162  | 5.162  | (0.869) | 127836   | 20.0000          | 22.8            |
| 41 Isophorone                   | 82        | 5.419  | 5.419  | (0.912) | 197598   | 20.0000          | 22.0            |
| 42 2-Nitrophenol                | 139       | 5.520  | 5.520  | (0.929) | 50345    | 20.0000          | 19.8            |
| 43 2,4-Dimethylphenol           | 107       | 5.595  | 5.595  | (0.942) | 97017    | 20.0000          | 21.4            |

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| Compounds                      | QUANT SIG |        |        |         | AMOUNTS  |                  |                 |
|--------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| =====                          | ====      | --     | =====  | =====   | =====    | =====            | =====           |
| 44 bis (2-Chloroethoxy)methane | 93        | 5.697  | 5.697  | (0.959) | 120708   | 20.0000          | 21.1            |
| 48 2,4-Dichlorophenol          | 162       | 5.809  | 5.809  | (0.978) | 74508    | 20.0000          | 20.5            |
| 49 Benzoic Acid                | 122       | 5.713  | 5.713  | (0.961) | 9337     | 20.0000          | 6.32            |
| 50 1,2,4-Trichlorobenzene      | 180       | 5.894  | 5.894  | (0.992) | 79562    | 20.0000          | 20.7            |
| 51 Naphthalene                 | 128       | 5.964  | 5.964  | (1.004) | 291280   | 20.0000          | 21.3            |
| 52 4-Chloroaniline             | 127       | 6.081  | 6.081  | (1.023) | 108980   | 20.0000          | 20.4            |
| 56 Hexachlorobutadiene         | 225       | 6.209  | 6.209  | (1.045) | 47895    | 20.0000          | 21.7            |
| 59 4-Chloro-3-Methylphenol     | 107       | 6.781  | 6.781  | (1.141) | 83975    | 20.0000          | 21.3            |
| 62 2-Methylnaphthalene         | 142       | 6.920  | 6.920  | (1.164) | 177959   | 20.0000          | 20.9            |
| 205 1-Methylnaphthalene        | 142       | 7.086  | 7.086  | (1.192) | 166929   | 20.0000          | 20.3            |
| 64 Hexachlorocyclopentadiene   | 237       | 7.283  | 7.283  | (0.832) | 21869    | 20.0000          | 11.6            |
| 66 2,4,6-Trichlorophenol       | 196       | 7.433  | 7.433  | (0.849) | 43383    | 20.0000          | 19.0            |
| 67 2,4,5-Trichlorophenol       | 196       | 7.508  | 7.508  | (0.857) | 45445    | 20.0000          | 19.0            |
| 70 2-Chloronaphthalene         | 162       | 7.705  | 7.705  | (0.880) | 161819   | 20.0000          | 20.7            |
| 73 2-Nitroaniline              | 65        | 7.972  | 7.972  | (0.910) | 61429    | 20.0000          | 21.9            |
| 76 Dimethylphthalate           | 163       | 8.389  | 8.389  | (0.958) | 171329   | 20.0000          | 20.4            |
| 78 2,6-Dinitrotoluene          | 165       | 8.512  | 8.512  | (0.972) | 36484    | 20.0000          | 18.8            |
| 79 Acenaphthylene              | 152       | 8.459  | 8.459  | (0.966) | 262480   | 20.0000          | 20.6            |
| 81 3-Nitroaniline              | 138       | 8.763  | 8.763  | (1.001) | 42328    | 20.0000          | 18.7            |
| 82 Acenaphthene                | 153       | 8.822  | 8.822  | (1.007) | 161878   | 20.0000          | 20.5            |
| 83 2,4-Dinitrophenol           | 184       | 8.987  | 8.987  | (1.026) | 9914     | 20.0000          | 10.8            |
| 85 4-Nitrophenol               | 109       | 9.206  | 9.206  | (1.051) | 18734    | 20.0000          | 16.5 (M)        |
| 86 Dibenzofuran                | 168       | 9.142  | 9.142  | (1.044) | 216652   | 20.0000          | 20.5            |
| 87 2,4-Dinitrotoluene          | 165       | 9.292  | 9.292  | (1.061) | 48265    | 20.0000          | 18.9            |
| 91 2,3,5,6-Tetrachlorophenol   | 232       | 9.431  | 9.431  | (1.077) | 29983    | 20.0000          | 17.4            |
| 88 2,3,4,6-Tetrachlorophenol   | 232       | 9.522  | 9.522  | (1.087) | 32839    | 20.0000          | 18.3            |
| 92 2-Naphthylamine             | 143       | 9.479  | 9.479  | (1.082) | 152032   | 20.0000          | 20.4            |
| 93 Diethylphthalate            | 149       | 9.858  | 9.858  | (1.126) | 176147   | 20.0000          | 20.6            |
| 94 Fluorene                    | 166       | 9.858  | 9.858  | (1.126) | 177368   | 20.0000          | 20.3            |
| 95 4-Chlorophenyl-phenylether  | 204       | 9.912  | 9.912  | (1.132) | 82708    | 20.0000          | 20.4            |
| 96 4-Nitroaniline              | 138       | 10.040 | 10.040 | (1.146) | 38809    | 20.0000          | 17.8            |
| 98 4,6-Dinitro-2-methylphenol  | 198       | 10.147 | 10.147 | (0.849) | 21136    | 20.0000          | 15.4            |
| 99 N-Nitrosodiphenylamine      | 169       | 10.200 | 10.200 | (0.854) | 126703   | 20.0000          | 20.8            |
| 100 1,2-Diphenylhydrazine      | 77        | 10.248 | 10.248 | (0.858) | 239613   | 20.0000          | 23.0            |
| 106 4-Bromophenyl-phenylether  | 248       | 10.980 | 10.980 | (0.919) | 45414    | 20.0000          | 20.9            |
| 107 Hexachlorobenzene          | 284       | 11.263 | 11.263 | (0.943) | 48910    | 20.0000          | 21.1            |
| 111 Pentachlorophenol          | 266       | 11.717 | 11.717 | (0.981) | 9987     | 20.0000          | 10.9            |
| 115 Phenanthrene               | 178       | 11.995 | 11.995 | (1.004) | 235392   | 20.0000          | 20.7            |
| 116 Anthracene                 | 178       | 12.102 | 12.102 | (1.013) | 240178   | 20.0000          | 20.5            |
| 119 Carbazole                  | 167       | 12.556 | 12.556 | (1.051) | 210191   | 20.0000          | 20.0            |
| 120 Di-n-Butylphthalate        | 149       | 13.715 | 13.715 | (1.148) | 266121   | 20.0000          | 20.5            |
| 123 Fluoranthene               | 202       | 14.885 | 14.885 | (1.246) | 227069   | 20.0000          | 19.5            |
| 124 Benzidine                  | 184       | 15.339 | 15.339 | (0.830) | 113712   | 20.0000          | 19.7            |
| 125 Pyrene                     | 202       | 15.409 | 15.409 | (0.833) | 229025   | 20.0000          | 20.8            |
| 131 Butylbenzylphthalate       | 149       | 17.401 | 17.401 | (0.941) | 114555   | 20.0000          | 20.0            |
| 135 3,3'-Dichlorobenzidine     | 252       | 18.534 | 18.534 | (1.002) | 80948    | 20.0000          | 19.0            |
| 136 Benzo (a) Anthracene       | 228       | 18.448 | 18.448 | (0.998) | 211738   | 20.0000          | 19.8            |

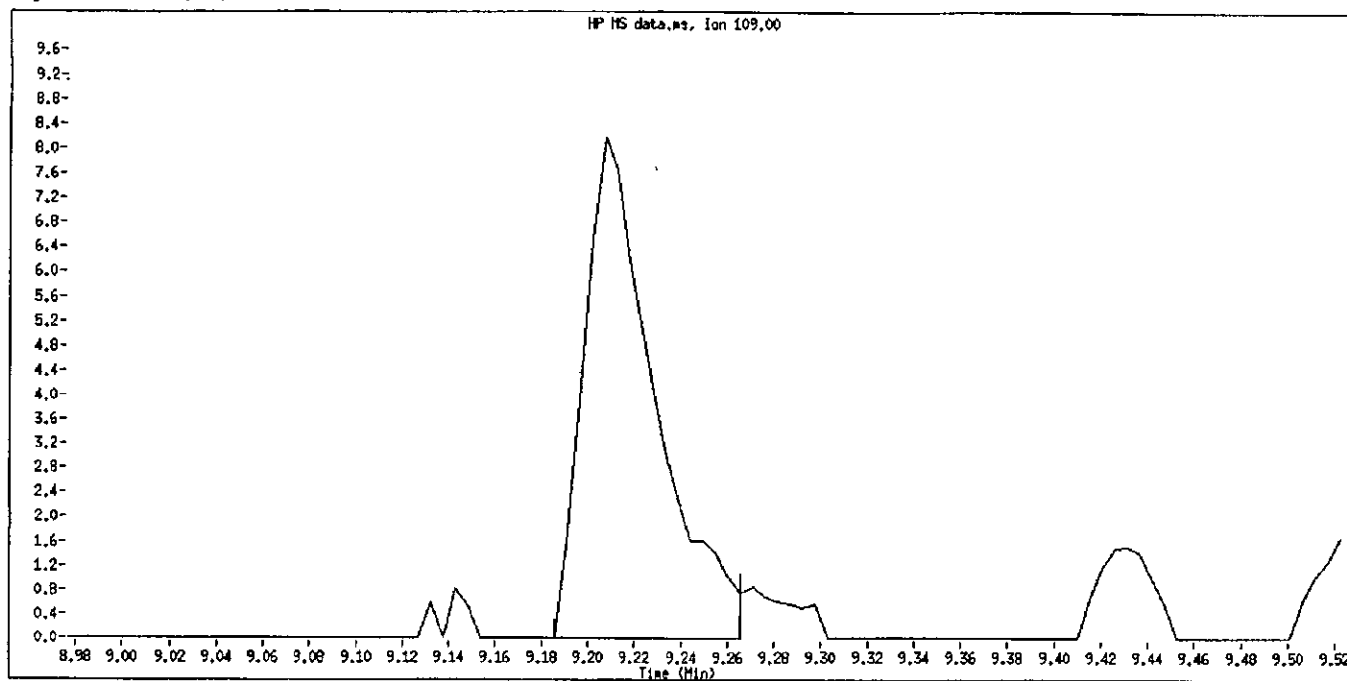
674 224

| Compounds                         | QUANT SIG |        |        |         | RESPONSE | AMOUNTS          |                 |
|-----------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                   | MASS      | RT     | EXP RT | REL RT  |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| =====                             | =====     | ==     | =====  | =====   | =====    | =====            | =====           |
| 137 Chrysene                      | 228       | 18.550 | 18 550 | (1 003) | 210227   | 20 0000          | 20 3            |
| 139 bis(2-ethylhexyl)Phthalate    | 149       | 18.999 | 18.999 | (1.027) | 161880   | 20 0000          | 19.6            |
| 140 Di-n-octylphthalate           | 149       | 20.457 | 20.457 | (0.937) | 286401   | 20 0000          | 19.6            |
| 141 Benzo(b)fluoranthene          | 252       | 21.007 | 21 007 | (0.963) | 237196   | 20 0000          | 19 6            |
| 142 Benzo(k)fluoranthene          | 252       | 21.066 | 21 066 | (0.965) | 257967   | 20 0000          | 21 4            |
| 143 7,12-dimethylbenz[a]anthracen | 256       | 21.066 | 21 066 | (0 965) | 106528   | 20 0000          | 19 1            |
| 146 Benzo(a)pyrene                | 252       | 21 696 | 21 696 | (0.994) | 225059   | 20 0000          | 19 9            |
| 149 Indeno(1,2,3-cd)pyrene        | 276       | 23 935 | 23.935 | (1.097) | 310227   | 20.0000          | 19 9            |
| 150 Dibenz(a,h)anthracene         | 278       | 23 983 | 23.983 | (1.099) | 269401   | 20 0000          | 20 0            |
| 151 Benzo(g,h,i)perylene          | 276       | 24.426 | 24.426 | (1.119) | 271913   | 20 0000          | 19 9            |
| \$ 154 Nitrobenzene-d5            | 82        | 5 141  | 5 141  | (0 865) | 124903   | 20.0000          | 21 9            |
| \$ 155 2-Fluorobiphenyl           | 172       | 7 556  | 7 556  | (0 863) | 188570   | 20.0000          | 20.7            |
| \$ 156 Terphenyl-d14              | 244       | 15 975 | 15.975 | (0.864) | 187252   | 20 0000          | 21.0            |
| \$ 157 Phenol-d5                  | 99        | 4 260  | 4 260  | (0 941) | 124148   | 20 0000          | 21 0            |
| \$ 158 2-Fluorophenol             | 112       | 3.202  | 3 202  | (0 707) | 86287    | 20.0000          | 19 9            |
| \$ 159 2,4,6-Tribromophenol       | 330       | 10.435 | 10 435 | (0 873) | 18770    | 20 0000          | 19.1            |
| \$ 186 2-Chlorophenol-d4          | 132       | 4.340  | 4.340  | (0 959) | 86694    | 20.0000          | 20 6            |
| \$ 187 1,2-Dichlorobenzene-d4     | 152       | 4.719  | 4.719  | (1.042) | 65288    | 20 0000          | 21 3            |

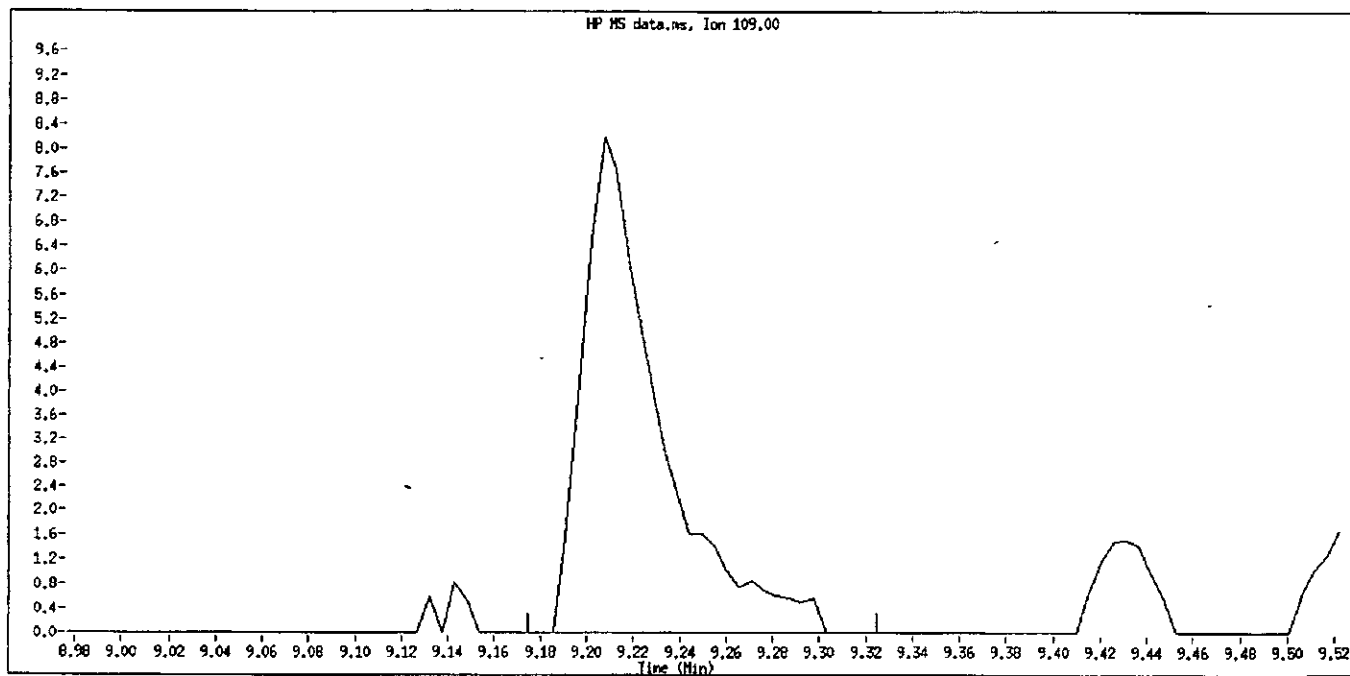
#### QC Flag Legend

M - Compound response manually integrated.

674 225



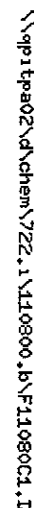
Original Integration



Manual Integration

Manually Integrated By: BungardF

Manual Integration Reason: Unknown



674 227

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\qpitpa02\d\chem\722.i\110800.b\F11080C1.D  
Lab Smp Id: sstd050 Client Smp ID: SSTD050  
Inj Date : 08-NOV-2000 13:41  
Operator : 007062 Inst ID: 722.i  
Smp Info : SSTD050 (25ppb) 77-04-13  
Misc Info : sstd050,110800.b,8270b.m,2-root.sub,2,2  
Comment :  
Method : \\QPITPA02\D\chem\722.i\110800.b\8270b.m  
Meth Date : 08-Nov-2000 15:20 tapsvc Quant Type: ISTD  
Cal Date : 08-NOV-2000 14:51 Cal File: F11080C3.D  
Als bottle: 2 Calibration Sample, Level: 2  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 2-root.sub  
Target Version: 4.04  
Processing Host: PITPC062

11/15/00

| Compounds                        | QUANT SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS          |                 |
|----------------------------------|-------------------|--------|--------|---------|----------|------------------|-----------------|
|                                  |                   |        |        |         |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| *****                            | ----              | ==     | =====  | =====   | =====    | =====            | =====           |
| * 1 1,4-Dichlorobenzene-d4       | 152               | 4.533  | 4.531  | (1.000) | 114921   | 40.0000          |                 |
| * 2 Naphthalene-d8               | 136               | 5.954  | 5.947  | (1.000) | 440014   | 40.0000          |                 |
| * 3 Acenaphthene-d10             | 164               | 8.774  | 8.762  | (1.000) | 226802   | 40.0000          |                 |
| * 4 Phenanthrene-d10             | 188               | 11.958 | 11.946 | (1.000) | 351370   | 40.0000          |                 |
| * 5 Chrysene-d12                 | 240               | 18.508 | 18.495 | (1.000) | 381187   | 40.0000          |                 |
| * 6 Perylene-d12                 | 264               | 21.836 | 21.829 | (1.000) | 405291   | 40.0000          |                 |
| 10 N-Nitrosodimethylamine        | 74                | 1.386  | 1.395  | (0.306) | 147404   | 50.0000          | 60.2            |
| 9 Pyridine                       | 79                | 1.381  | 1.384  | (0.305) | 245225   | 50.0000          | 54.7            |
| 16 Methyl methanesulfonate       | 80                | 3.026  | 3.030  | (0.668) | 76583    | 50.0000          | 34.0            |
| 21 Aniline                       | 93                | 4.249  | 4.248  | (0.938) | 328153   | 50.0000          | 49.5            |
| 22 Phenol                        | 94                | 4.282  | 4.285  | (0.945) | 285422   | 50.0000          | 53.1            |
| 23 bis(2-Chloroethyl)ether       | 93                | 4.324  | 4.328  | (0.954) | 230868   | 50.0000          | 54.9            |
| 24 2-Chlorophenol                | 128               | 4.362  | 4.360  | (0.962) | 212634   | 50.0000          | 54.4            |
| 26 1,3-Dichlorobenzene           | 146               | 4.495  | 4.494  | (0.992) | 231373   | 50.0000          | 54.5            |
| 27 1,4-Dichlorobenzene           | 146               | 4.549  | 4.547  | (1.004) | 236799   | 50.0000          | 54.3            |
| 28 1,2-Dichlorobenzene           | 146               | 4.741  | 4.739  | (1.046) | 221842   | 50.0000          | 55.3            |
| 29 Benzyl Alcohol                | 108               | 4.720  | 4.718  | (1.041) | 141891   | 50.0000          | 53.0            |
| 30 2-Methylphenol                | 108               | 4.880  | 4.878  | (1.077) | 194413   | 50.0000          | 54.5            |
| 31 2,2'-oxybis(1-Chloropropane)- | 45                | 4.880  | 4.873  | (1.077) | 334211   | 50.0000          | 64.9            |
| 32 N-Nitroso-di-n-propylamine    | 70                | 5.024  | 5.028  | (1.108) | 182926   | 50.0000          | 60.3            |
| 192 4-Methylphenol               | 108               | 5.029  | 5.028  | (1.110) | 205507   | 50.0000          | 55.6            |
| 34 Hexachloroethane              | 117               | 5.056  | 5.049  | (1.115) | 99241    | 50.0000          | 56.6            |
| 35 Nitrobenzene                  | 77                | 5.168  | 5.167  | (0.868) | 273229   | 50.0000          | 57.8            |
| 41 Isophorone                    | 82                | 5.425  | 5.423  | (0.911) | 435348   | 50.0000          | 57.6            |
| 42 2-Nitrophenol                 | 139               | 5.526  | 5.525  | (0.928) | 114303   | 50.0000          | 53.2            |
| 43 2,4-Dimethylphenol            | 107               | 5.606  | 5.599  | (0.942) | 221980   | 50.0000          | 58.1            |



674 228

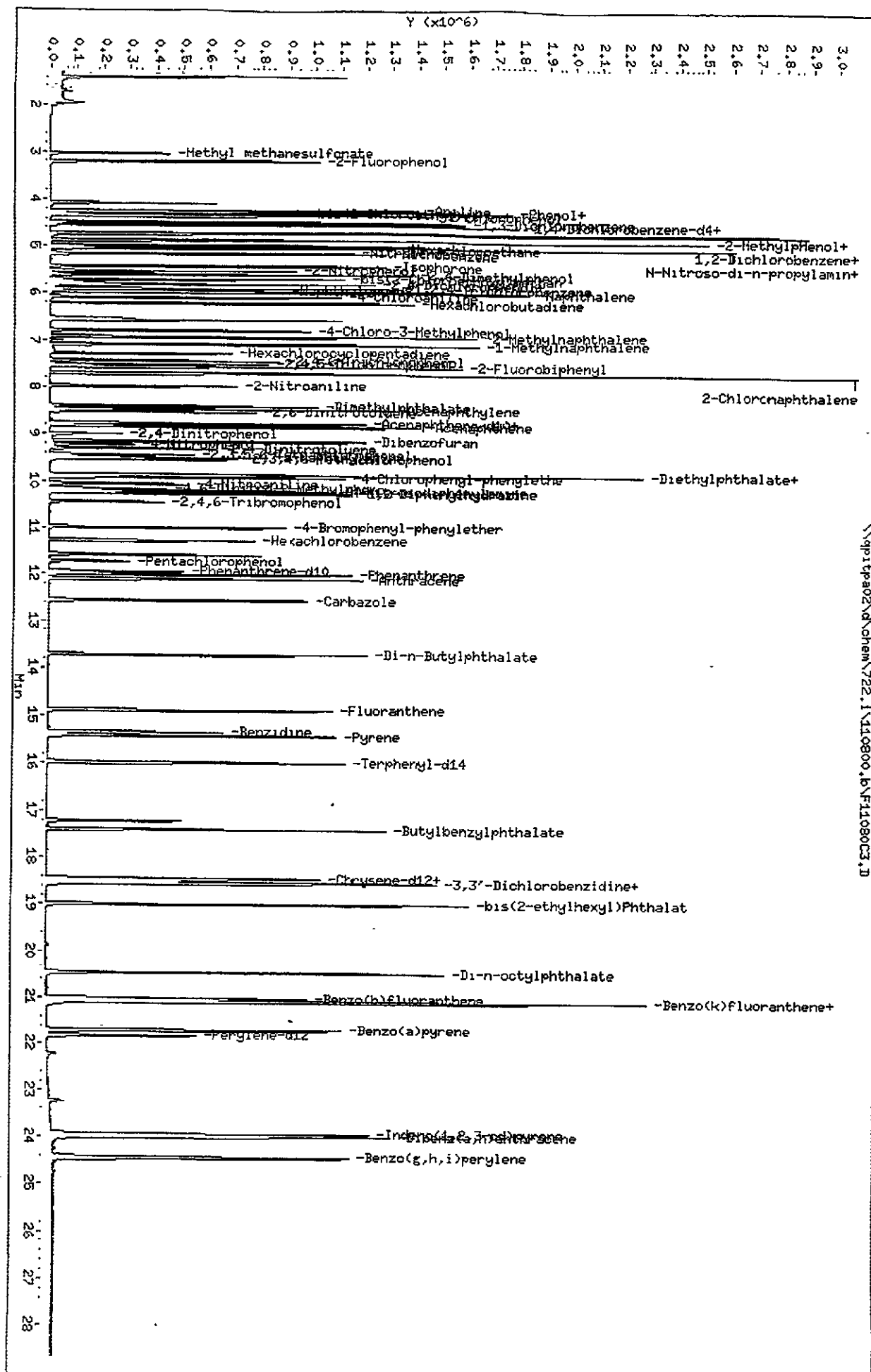
| Compounds                     | QUANT SIG |        |        |         | RESPONSE | AMOUNTS          |                 |
|-------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                               | MASS      | RT     | EXP RT | REL RT  |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| =====                         | =====     | ==     | =====  | =====   | =====    | =====            | =====           |
| 44 bis(2-Chloroethoxy)methane | 93        | 5.708  | 5.701  | (0.959) | 265126   | 50.0000          | 54.9            |
| 48 2,4-Dichlorophenol         | 162       | 5.815  | 5.813  | (0.977) | 166835   | 50.0000          | 54.4            |
| 49 Benzoic Acid               | 122       | 5.777  | 5.792  | (0.970) | 91480    | 50.0000          | 73.6            |
| 50 1,2,4-Trichlorobenzene     | 180       | 5.906  | 5.899  | (0.992) | 176384   | 50.0000          | 54.4            |
| 51 Naphthalene                | 128       | 5.975  | 5.973  | (1.004) | 634332   | 50.0000          | 55.0            |
| 52 4-Chloroaniline            | 127       | 6.087  | 6.085  | (1.022) | 240472   | 50.0000          | 53.4            |
| 56 Hexachlorobutadiene        | 225       | 6.215  | 6.208  | (1.044) | 105173   | 50.0000          | 56.6            |
| 59 4-Chloro-3-Methylphenol    | 107       | 6.792  | 6.791  | (1.141) | 188500   | 50.0000          | 56.9            |
| 62 2-Methylnaphthalene        | 142       | 6.931  | 6.924  | (1.164) | 389058   | 50.0000          | 54.2            |
| 205 1-Methylnaphthalene       | 142       | 7.097  | 7.090  | (1.192) | 357191   | 50.0000          | 51.6            |
| 64 Hexachlorocyclopentadiene  | 237       | 7.294  | 7.282  | (0.831) | 72931    | 50.0000          | 46.0            |
| 66 2,4,6-Trichlorophenol      | 196       | 7.449  | 7.437  | (0.849) | 99388    | 50.0000          | 52.0            |
| 67 2,4,5-Trichlorophenol      | 196       | 7.519  | 7.512  | (0.857) | 102886   | 50.0000          | 51.4            |
| 70 2-Chloronaphthalene        | 162       | 7.717  | 7.710  | (0.879) | 352129   | 50.0000          | 53.8            |
| 73 2-Nitroaniline             | 65        | 7.984  | 7.977  | (0.910) | 139063   | 50.0000          | 59.1            |
| 76 Dimethylphthalate          | 163       | 8.406  | 8.399  | (0.958) | 375893   | 50.0000          | 53.5            |
| 78 2,6-Dinitrotoluene         | 165       | 8.523  | 8.516  | (0.971) | 85102    | 50.0000          | 52.4            |
| 79 Acenaphthylene             | 152       | 8.470  | 8.463  | (0.965) | 567371   | 50.0000          | 53.0            |
| 81 3-Nitroaniline             | 138       | 8.774  | 8.773  | (1.000) | 98507    | 50.0000          | 52.0            |
| 82 Acenaphthene               | 153       | 8.833  | 8.826  | (1.007) | 353888   | 50.0000          | 53.3            |
| 83 2,4-Dinitrophenol          | 184       | 8.993  | 8.986  | (1.025) | 36197    | 50.0000          | 47.0            |
| 85 4-Nitrophenol              | 109       | 9.218  | 9.211  | (1.051) | 48405    | 50.0000          | 50.8            |
| 86 Dibenzofuran               | 168       | 9.154  | 9.147  | (1.043) | 476462   | 50.0000          | 53.8            |
| 87 2,4-Dinitrotoluene         | 165       | 9.303  | 9.301  | (1.060) | 111700   | 50.0000          | 52.1            |
| 91 2,3,5,6-Tetrachlorophenol  | 232       | 9.442  | 9.435  | (1.076) | 69676    | 50.0000          | 48.3            |
| 88 2,3,4,6-Tetrachlorophenol  | 232       | 9.533  | 9.526  | (1.086) | 70764    | 50.0000          | 47.1            |
| 92 2-Naphthylamine            | 143       | 9.495  | 9.488  | (1.082) | 309082   | 50.0000          | 49.4            |
| 93 Diethylphthalate           | 149       | 9.875  | 9.868  | (1.125) | 390613   | 50.0000          | 54.5            |
| 94 Fluorene                   | 166       | 9.869  | 9.862  | (1.125) | 386873   | 50.0000          | 52.8            |
| 95 4-Chlorophenyl-phenylether | 204       | 9.923  | 9.916  | (1.131) | 181657   | 50.0000          | 53.5            |
| 96 4-Nitroaniline             | 138       | 10.062 | 10.060 | (1.147) | 93326    | 50.0000          | 51.2            |
| 98 4,6-Dinitro-2-methylphenol | 198       | 10.169 | 10.162 | (0.850) | 58173    | 50.0000          | 50.2            |
| 99 N-Nitrosodiphenylamine     | 169       | 10.211 | 10.210 | (0.854) | 207585   | 50.0000          | 40.3            |
| 100 1,2-Diphenylhydrazine     | 77        | 10.259 | 10.252 | (0.858) | 526540   | 50.0000          | 59.9            |
| 106 4-Bromophenyl-phenylether | 248       | 10.997 | 10.984 | (0.920) | 100580   | 50.0000          | 54.9            |
| 107 Hexachlorobenzene         | 284       | 11.274 | 11.267 | (0.943) | 108300   | 50.0000          | 55.2            |
| 111 Pentachlorophenol         | 266       | 11.728 | 11.721 | (0.981) | 37596    | 50.0000          | 48.8            |
| 115 Phenanthrene              | 178       | 12.012 | 12.005 | (1.004) | 513674   | 50.0000          | 53.6            |
| 116 Anthracene                | 178       | 12.113 | 12.106 | (1.013) | 536660   | 50.0000          | 54.4            |
| 119 Carbazole                 | 167       | 12.573 | 12.566 | (1.051) | 473585   | 50.0000          | 53.2            |
| 120 Di-n-Butylphthalate       | 149       | 13.732 | 13.719 | (1.148) | 617783   | 50.0000          | 56.4            |
| 123 Fluoranthene              | 202       | 14.896 | 14.889 | (1.246) | 529788   | 50.0000          | 54.0            |
| 124 Benzidine                 | 184       | 15.356 | 15.343 | (0.830) | 225547   | 50.0000          | 41.8            |
| 125 Pyrene                    | 202       | 15.425 | 15.418 | (0.833) | 529403   | 50.0000          | 51.6            |
| 131 Butylbenzylphthalate      | 149       | 17.418 | 17.411 | (0.941) | 283825   | 50.0000          | 53.2            |
| 135 3,3'-Dichlorobenzidine    | 252       | 18.545 | 18.538 | (1.002) | 196619   | 50.0000          | 49.5            |
| 136 Benzo(a)Anthracene        | 228       | 18.465 | 18.458 | (0.998) | 522432   | 50.0000          | 52.3            |

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| Compounds                         | QUANT SIG |        |        |         |          | AMOUNTS |        |
|-----------------------------------|-----------|--------|--------|---------|----------|---------|--------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT | ON-COL |
|                                   | ( )       | ( )    | ( )    | ( )     | ( )      | ( )     | ( )    |
| 137 Chrysene                      | 228       | 18.566 | 18.559 | (1.003) | 505226   | 50.0000 | 52.3   |
| 139 bis(2-ethylhexyl)Phthalate    | 149       | 19.010 | 19.003 | (1.027) | 409034   | 50.0000 | 52.9   |
| 140 Di-n-octylphthalate           | 149       | 20.474 | 20.467 | (0.938) | 739887   | 50.0000 | 51.8   |
| 141 Benzo(b)fluoranthene          | 252       | 21.034 | 21.027 | (0.963) | 609370   | 50.0000 | 51.3   |
| 142 Benzo(k)fluoranthene          | 252       | 21.088 | 21.086 | (0.966) | 660085   | 50.0000 | 56.1   |
| 143 7,12-dimethylbenz[a]anthracen | 256       | 21.093 | 21.092 | (0.966) | 284478   | 50.0000 | 52.1   |
| 146 Benzo(a)pyrene                | 252       | 21.718 | 21.711 | (0.995) | 587647   | 50.0000 | 53.1   |
| 149 Indeno(1,2,3-cd)pyrene        | 276       | 23.962 | 23.955 | (1.097) | 820171   | 50.0000 | 53.7   |
| 150 Dibenz(a,h)anthracene         | 278       | 24.010 | 24.003 | (1.100) | 706069   | 50.0000 | 53.5   |
| 151 Benzo(g,h,i)perylene          | 276       | 24.459 | 24.452 | (1.120) | 712166   | 50.0000 | 53.4   |
| \$ 154 Nitrobenzene-d5            | 82        | 5.152  | 5.151  | (0.865) | 262476   | 50.0000 | 54.6   |
| \$ 155 2-Fluorobiphenyl           | 172       | 7.572  | 7.560  | (0.863) | 393923   | 50.0000 | 51.5   |
| \$ 156 Terphenyl-d14              | 244       | 15.991 | 15.984 | (0.864) | 420228   | 50.0000 | 50.6   |
| \$ 157 Phenol-d5                  | 99        | 4.271  | 4.275  | (0.942) | 263077   | 50.0000 | 52.6   |
| \$ 158 2-Fluorophenol             | 112       | 3.208  | 3.206  | (0.708) | 191125   | 50.0000 | 52.1   |
| \$ 159 2,4,6-Tribromophenol       | 330       | 10.446 | 10.439 | (0.874) | 44407    | 50.0000 | 53.4   |
| \$ 186 2-Chlorophenol-d4          | 132       | 4.346  | 4.344  | (0.959) | 184289   | 50.0000 | 51.8   |
| \$ 187 1,2-Dichlorobenzene-d4     | 152       | 4.725  | 4.723  | (1.042) | 138560   | 50.0000 | 53.4   |

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 Column phase: He5-MS

Instrument: 722.1  
 Operator: 007062  
 Column diameter: 0.25



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STL-Pittsburgh

Semivolatatile REPORT SW-846 Method 8270

Data file : \\gpitpa02\d\chem\722.i\110800.b\F11080C3.D  
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Dil Factor: 1.00000  
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Target Version: 4.04  
Processing Host: PITPC062

11/15/00

| Compounds                       | QUANT SIG | AMOUNTS |                |        |          |                  |                 |
|---------------------------------|-----------|---------|----------------|--------|----------|------------------|-----------------|
|                                 |           | RT      | EXP RT         | REL RT | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| *****                           | ****      | ==      | =====          | =====  | =====    | =====            | =====           |
| * 1 1,4-Dichlorobenzene-d4      | 152       | 4.531   | 4.531 (1.000)  |        | 122874   | 40.0000          |                 |
| * 2 Naphthalene-d8              | 136       | 5.947   | 5.947 (1.000)  |        | 459230   | 40.0000          |                 |
| * 3 Acenaphthene-d10            | 164       | 8.762   | 8.762 (1.000)  |        | 236014   | 40.0000          |                 |
| * 4 Phenanthrene-d10            | 188       | 11.946  | 11.946 (1.000) |        | 379014   | 40.0000          |                 |
| * 5 Chrysene-d12                | 240       | 18.495  | 18.495 (1.000) |        | 435265   | 40.0000          |                 |
| * 6 Perylene-d12                | 264       | 21.829  | 21.829 (1.000) |        | 460690   | 40.0000          |                 |
| 10 N-Nitrosodimethylamine       | 74        | 1.395   | 1.395 (0.308)  |        | 224770   | 80.0000          | 76.1            |
| 9 Pyridine                      | 79        | 1.384   | 1.384 (0.306)  |        | 411178   | 80.0000          | 78.2            |
| 16 Methyl methanesulfonate      | 80        | 3.030   | 3.030 (0.669)  |        | 217403   | 80.0000          | 91.7            |
| 21 Aniline                      | 93        | 4.248   | 4.248 (0.938)  |        | 565130   | 80.0000          | 78.8            |
| 22 Phenol                       | 94        | 4.285   | 4.285 (0.946)  |        | 442860   | 80.0000          | 75.9            |
| 23 bis(2-Chloroethyl)ether      | 93        | 4.328   | 4.328 (0.955)  |        | 360020   | 80.0000          | 76.6            |
| 24 2-Chlorophenol               | 128       | 4.360   | 4.360 (0.962)  |        | 334929   | 80.0000          | 76.8            |
| 26 1,3-Dichlorobenzene          | 146       | 4.494   | 4.494 (0.992)  |        | 371736   | 80.0000          | 77.8            |
| 27 1,4-Dichlorobenzene          | 146       | 4.547   | 4.547 (1.004)  |        | 382379   | 80.0000          | 77.5            |
| 28 1,2-Dichlorobenzene          | 146       | 4.739   | 4.739 (1.046)  |        | 354806   | 80.0000          | 77.6            |
| 29 Benzyl Alcohol               | 108       | 4.718   | 4.718 (1.041)  |        | 239920   | 80.0000          | 79.7            |
| 30 2-Methylphenol               | 108       | 4.878   | 4.878 (1.077)  |        | 304800   | 80.0000          | 75.7            |
| 31 2,2'-oxybis(1-Chloropropane) | 45        | 4.873   | 4.873 (1.075)  |        | 498926   | 80.0000          | 73.6            |
| 32 N-Nitroso-di-n-propylamine   | 70        | 5.028   | 5.028 (1.110)  |        | 282528   | 80.0000          | 76.1            |
| 192 4-Methylphenol              | 108       | 5.028   | 5.028 (1.110)  |        | 318720   | 80.0000          | 75.5            |
| 34 Hexachloroethane             | 117       | 5.049   | 5.049 (1.114)  |        | 159595   | 80.0000          | 77.7            |
| 35 Nitrobenzene                 | 77        | 5.167   | 5.167 (0.869)  |        | 426695   | 80.0000          | 76.8            |
| 41 Isophorone                   | 82        | 5.423   | 5.423 (0.912)  |        | 670783   | 80.0000          | 76.9            |
| 42 2-Nitrophenol                | 139       | 5.525   | 5.525 (0.929)  |        | 181080   | 80.0000          | 79.2            |
| 43 2,4-Dimethylphenol           | 107       | 5.599   | 5.599 (0.942)  |        | 341691   | 80.0000          | 77.8            |

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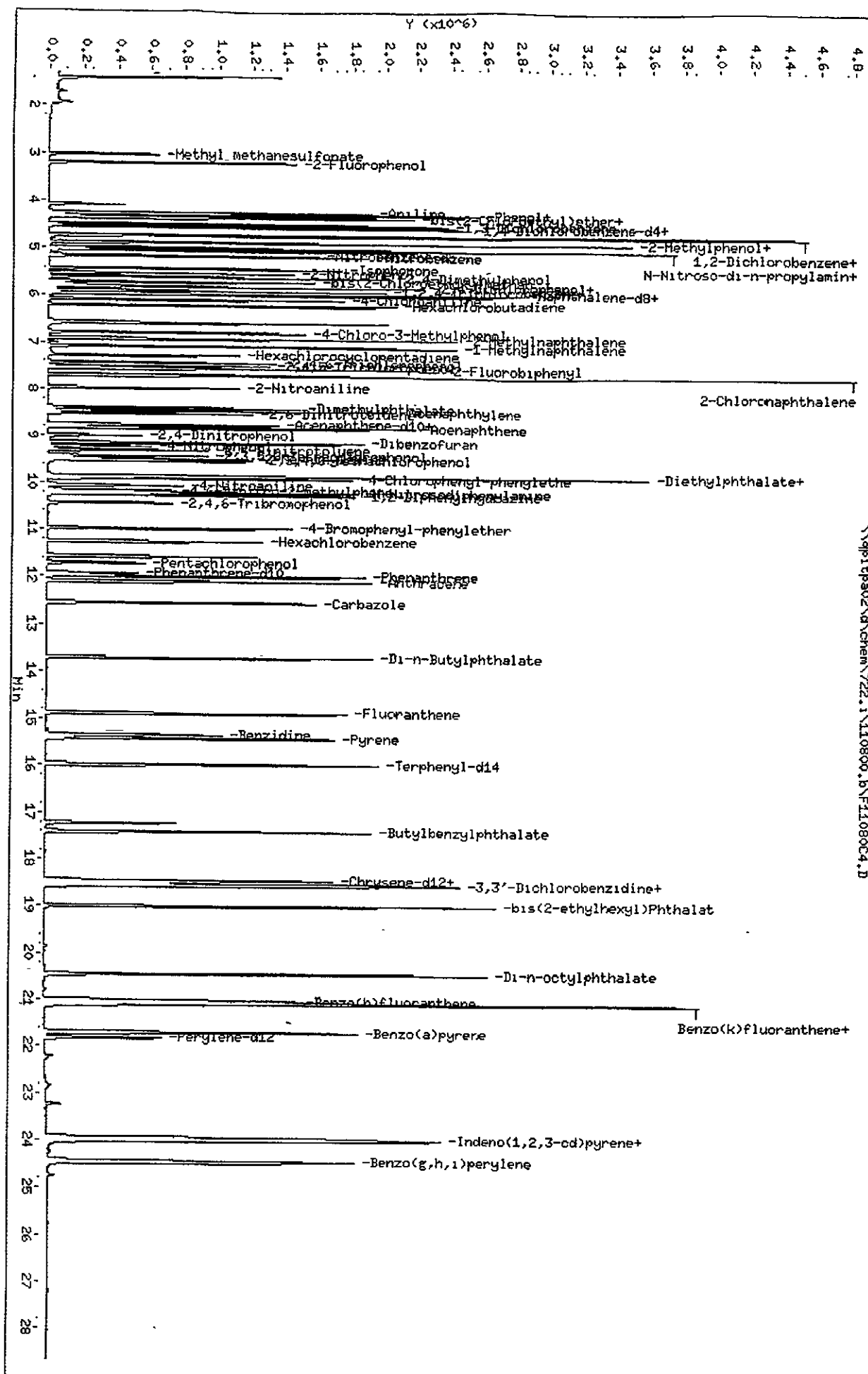
| Compounds                     | QUANT SIG |        |        |         | AMOUNTS  |                  |                 |
|-------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                               | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| =====                         | =====     | ==     | =====  | =====   | =====    | =====            | =====           |
| 44 bis(2-Chloroethoxy)methane | 93        | 5.701  | 5.701  | (0.959) | 411504   | 80.0000          | 77.2            |
| 48 2,4-Dichlorophenol         | 162       | 5.813  | 5.813  | (0.978) | 261353   | 80.0000          | 78.2            |
| 49 Benzoic Acid               | 122       | 5.792  | 5.792  | (0.974) | 160074   | 80.0000          | 111             |
| 50 1,2,4-Trichlorobenzene     | 180       | 5.899  | 5.899  | (0.992) | 278218   | 80.0000          | 78.3            |
| 51 Naphthalene                | 128       | 5.973  | 5.973  | (1.004) | 981103   | 80.0000          | 76.8            |
| 52 4-Chloroaniline            | 127       | 6.085  | 6.085  | (1.023) | 376826   | 80.0000          | 77.8            |
| 56 Hexachlorobutadiene        | 225       | 6.208  | 6.208  | (1.044) | 170433   | 80.0000          | 79.5            |
| 59 4-Chloro-3-Methylphenol    | 107       | 6.791  | 6.791  | (1.142) | 295334   | 80.0000          | 78.3            |
| 62 2-Methylnaphthalene        | 142       | 6.924  | 6.924  | (1.164) | 602097   | 80.0000          | 77.0            |
| 205 1-Methylnaphthalene       | 142       | 7.090  | 7.090  | (1.192) | 586567   | 80.0000          | 79.5            |
| 64 Hexachlorocyclopentadiene  | 237       | 7.282  | 7.282  | (0.831) | 127019   | 80.0000          | 93.9            |
| 66 2,4,6-Trichlorophenol      | 196       | 7.437  | 7.437  | (0.849) | 156380   | 80.0000          | 79.3            |
| 67 2,4,5-Trichlorophenol      | 196       | 7.512  | 7.512  | (0.857) | 162054   | 80.0000          | 79.0            |
| 70 2-Chloronaphthalene        | 162       | 7.710  | 7.710  | (0.880) | 556201   | 80.0000          | 78.2            |
| 73 2-Nitroaniline             | 65        | 7.977  | 7.977  | (0.910) | 221145   | 80.0000          | 79.6            |
| 76 Dimethylphthalate          | 163       | 8.399  | 8.399  | (0.959) | 597516   | 80.0000          | 78.7            |
| 78 2,6-Dinitrotoluene         | 165       | 8.516  | 8.516  | (0.972) | 135271   | 80.0000          | 80.3            |
| 79 Acenaphthylene             | 152       | 8.463  | 8.463  | (0.966) | 887718   | 80.0000          | 77.5            |
| 81 3-Nitroaniline             | 138       | 8.773  | 8.773  | (1.001) | 158015   | 80.0000          | 80.7            |
| 82 Acenaphthene               | 153       | 8.826  | 8.826  | (1.007) | 550911   | 80.0000          | 77.5            |
| 83 2,4-Dinitrophenol          | 184       | 8.986  | 8.986  | (1.026) | 66500    | 80.0000          | 98.9            |
| 85 4-Nitrophenol              | 109       | 9.211  | 9.211  | (1.051) | 83621    | 80.0000          | 87.4            |
| 86 Dibenzofuran               | 168       | 9.147  | 9.147  | (1.044) | 746163   | 80.0000          | 78.0            |
| 87 2,4-Dinitrotoluene         | 165       | 9.301  | 9.301  | (1.062) | 184402   | 80.0000          | 82.1            |
| 91 2,3,5,6-Tetrachlorophenol  | 232       | 9.435  | 9.435  | (1.077) | 117617   | 80.0000          | 83.4            |
| 88 2,3,4,6-Tetrachlorophenol  | 232       | 9.526  | 9.526  | (1.087) | 121768   | 80.0000          | 82.5            |
| 92 2-Naphthylamine            | 143       | 9.488  | 9.488  | (1.083) | 489405   | 80.0000          | 76.5            |
| 93 Diethylphthalate           | 149       | 9.868  | 9.868  | (1.126) | 634983   | 80.0000          | 80.2            |
| 94 Fluorene                   | 166       | 9.862  | 9.862  | (1.126) | 616960   | 80.0000          | 78.8            |
| 95 4-Chlorophenyl-phenylether | 204       | 9.916  | 9.916  | (1.132) | 286539   | 80.0000          | 78.4            |
| 96 4-Nitroaniline             | 138       | 10.060 | 10.060 | (1.148) | 155116   | 80.0000          | 83.5            |
| 98 4,6-Dinitro-2-methylphenol | 198       | 10.162 | 10.162 | (0.851) | 102437   | 80.0000          | 87.8            |
| 99 N-Nitrosodiphenylamine     | 169       | 10.210 | 10.210 | (0.855) | 439030   | 80.0000          | 83.7            |
| 100 1,2-Diphenylhydrazine     | 77        | 10.252 | 10.252 | (0.858) | 837131   | 80.0000          | 76.7            |
| 106 4-Bromophenyl-phenylether | 248       | 10.984 | 10.984 | (0.920) | 163196   | 80.0000          | 78.0            |
| 107 Hexachlorobenzene         | 284       | 11.267 | 11.267 | (0.943) | 174146   | 80.0000          | 77.5            |
| 111 Pentachlorophenol         | 266       | 11.721 | 11.721 | (0.981) | 63748    | 80.0000          | 92.7            |
| 115 Phenanthrene              | 178       | 12.005 | 12.005 | (1.005) | 832700   | 80.0000          | 77.5            |
| 116 Anthracene                | 178       | 12.106 | 12.106 | (1.013) | 863963   | 80.0000          | 77.8            |
| 119 Carbazole                 | 167       | 12.566 | 12.566 | (1.052) | 785606   | 80.0000          | 79.6            |
| 120 Di-n-Butylphthalate       | 149       | 13.719 | 13.719 | (1.148) | 1018424  | 80.0000          | 80.0            |
| 123 Fluoranthene              | 202       | 14.889 | 14.889 | (1.246) | 882830   | 80.0000          | 80.7            |
| 124 Benzidine                 | 184       | 15.343 | 15.343 | (0.830) | 493282   | 80.0000          | 85.1            |
| 125 Pyrene                    | 202       | 15.418 | 15.418 | (0.834) | 889967   | 80.0000          | 75.4            |
| 131 Butylbenzylphthalate      | 149       | 17.411 | 17.411 | (0.941) | 490400   | 80.0000          | 78.6            |
| 135 3,3'-Dichlorobenzidine    | 252       | 18.538 | 18.538 | (1.002) | 372320   | 80.0000          | 83.0            |
| 136 Benzo(a)Anthracene        | 228       | 18.458 | 18.458 | (0.998) | 900825   | 80.0000          | 78.4            |

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| Compounds                         | QUANT SIG |        |        |         | RESPONSE | AMOUNTS          |                 |
|-----------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                   | MASS      | RT     | EXP RT | REL RT  |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| =====                             | ====      | ==     | =====  | =====   | =====    | =====            | =====           |
| 137 Chrysene                      | 228       | 18.559 | 18.559 | (1.003) | 869603   | 80.0000          | 77.6            |
| 139 bis(2-ethylhexyl)Phthalate    | 149       | 19.003 | 19.003 | (1.027) | 704701   | 80.0000          | 78.9            |
| 140 Di-n-octylphthalate           | 149       | 20.467 | 20.467 | (0.938) | 1260774  | 80.0000          | 78.0            |
| 141 Benzo(b)fluoranthene          | 252       | 21.027 | 21.027 | (0.963) | 1033122  | 80.0000          | 77.6            |
| 142 Benzo(k)fluoranthene          | 252       | 21.086 | 21.086 | (0.966) | 1157689  | 80.0000          | 79.2            |
| 143 7,12-dimethylbenz[a]anthracen | 256       | 21.092 | 21.092 | (0.966) | 520701   | 80.0000          | 82.6            |
| 146 Benzo(a)pyrene                | 252       | 21.711 | 21.711 | (0.995) | 1015139  | 80.0000          | 79.0            |
| 149 Indeno(1,2,3-cd)pyrene        | 276       | 23.955 | 23.955 | (1.097) | 1414310  | 80.0000          | 79.2            |
| 150 Dibenzo(a,h)anthracene        | 278       | 24.003 | 24.003 | (1.100) | 1226769  | 80.0000          | 79.4            |
| 151 Benzo(g,h,i)perylene          | 276       | 24.452 | 24.452 | (1.120) | 1235245  | 80.0000          | 79.3            |
| \$ 154 Nitrobenzene-d5            | 82        | 5.151  | 5.151  | (0.866) | 437634   | 80.0000          | 79.9            |
| \$ 155 2-Fluorobiphenyl           | 172       | 7.560  | 7.560  | (0.863) | 649740   | 80.0000          | 79.4            |
| \$ 156 Terphenyl-d14              | 244       | 15.984 | 15.984 | (0.864) | 757134   | 80.0000          | 78.2            |
| \$ 157 Phenol-d5                  | 99        | 4.275  | 4.275  | (0.943) | 433591   | 80.0000          | 78.1            |
| \$ 158 2-Fluorophenol             | 112       | 3.206  | 3.206  | (0.708) | 315598   | 80.0000          | 79.3            |
| \$ 159 2,4,6-Tribromophenol       | 330       | 10.439 | 10.439 | (0.874) | 74756    | 80.0000          | 81.6            |
| \$ 186 2-Chlorophenol-d4          | 132       | 4.344  | 4.344  | (0.959) | 309095   | 80.0000          | 79.1            |
| \$ 187 1,2-Dichlorobenzene-d4     | 152       | 4.723  | 4.723  | (1.042) | 237521   | 80.0000          | 80.2            |

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 Client ID: SST1D120  
 Sample Info: SST1D120 (60ppb) 77-01-8  
 Column phase: Hp5-MS

Instrument: 722.1  
 Operator: 007062  
 Column diameter: 0.25



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STL-Pittsburgh

Semivolatatile REPORT SW-846 Method 8270

Data file : \\qpitpa02\d\chem\722.i\110800.b\F11080C4.D  
Lab Smp Id: sstd120 Client Smp ID: SSTD120  
Inj Date : 08-NOV-2000 15:25  
Operator : 007062 Inst ID: 722.i  
Smp Info : SSTD120 (60ppb) 77-01-8  
Misc Info : sstd120,110800.b,8270b.m,2-root.sub,1,4  
Comment :  
Method : \\qpitpa02\d\chem\722.i\110800.b\8270b.m  
Meth Date : 08-Nov-2000 16:02 bungardf Quant Type: ISTD  
Cal Date : 08-NOV-2000 15:25 Cal File: F11080C4.D  
Als bottle: 27 Calibration Sample, Level: 4  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 2-root.sub  
Target Version: 4.04  
Processing Host: PITPC062

*ind  
11/8/00*

| Compounds                       | QUANT SIG |        |        |         | RESPONSE | AMOUNTS          |                 |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                 | MASS      | RT     | EXP RT | REL RT  |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| *****                           | *****     | ==     | *****  | *****   | *****    | *****            | *****           |
| * 1 1,4-Dichlorobenzene-d4      | 152       | 4.531  | 4.531  | (1.000) | 120375   | 40.0000          |                 |
| * 2 Naphthalene-d8              | 136       | 5.941  | 5.941  | (1.000) | 455993   | 40.0000          |                 |
| * 3 Acenaphthene-d10            | 164       | 8.756  | 8.756  | (1.000) | 244464   | 40.0000          |                 |
| * 4 Phenanthrene-d10            | 188       | 11.946 | 11.946 | (1.000) | 411584   | 40.0000          |                 |
| * 5 Chrysene-d12                | 240       | 18.495 | 18.495 | (1.000) | 496252   | 40.0000          |                 |
| * 6 Perylene-d12                | 264       | 21.829 | 21.829 | (1.000) | 531997   | 40.0000          |                 |
| 10 N-Nitrosodimethylamine       | 74        | 1.395  | 1.395  | (0.308) | 331385   | 120.000          | 116             |
| 9 Pyridine                      | 79        | 1.384  | 1.384  | (0.306) | 613254   | 120.000          | 119             |
| 16 Methyl methanesulfonate      | 80        | 3.030  | 3.030  | (0.669) | 324787   | 120.000          | 134             |
| 21 Aniline                      | 93        | 4.248  | 4.248  | (0.938) | 837982   | 120.000          | 119             |
| 22 Phenol                       | 94        | 4.285  | 4.285  | (0.946) | 655788   | 120.000          | 116             |
| 23 bis(2-Chloroethyl)ether      | 93        | 4.328  | 4.328  | (0.955) | 541159   | 120.000          | 118             |
| 24 2-Chlorophenol               | 128       | 4.360  | 4.360  | (0.962) | 506278   | 120.000          | 119             |
| 26 1,3-Dichlorobenzene          | 146       | 4.488  | 4.488  | (0.991) | 555232   | 120.000          | 119             |
| 27 1,4-Dichlorobenzene          | 146       | 4.547  | 4.547  | (1.004) | 565069   | 120.000          | 118             |
| 28 1,2-Dichlorobenzene          | 146       | 4.734  | 4.734  | (1.045) | 542804   | 120.000          | 121             |
| 29 Benzyl Alcohol               | 108       | 4.718  | 4.718  | (1.041) | 363971   | 120.000          | 122             |
| 30 2-Methylphenol               | 108       | 4.878  | 4.878  | (1.077) | 460719   | 120.000          | 118             |
| 31 2,2'-oxybis(1-Chloropropane) | 45        | 4.873  | 4.873  | (1.075) | 700863   | 120.000          | 109             |
| 32 N-Nitroso-di-n-propylamine   | 70        | 5.028  | 5.028  | (1.110) | 428189   | 120.000          | 118             |
| 192 4-Methylphenol              | 108       | 5.028  | 5.028  | (1.110) | 486585   | 120.000          | 118             |
| 34 Hexachloroethane             | 117       | 5.049  | 5.049  | (1.114) | 238232   | 120.000          | 119             |
| 35 Nitrobenzene                 | 77        | 5.167  | 5.167  | (0.870) | 639691   | 120.000          | 117             |
| 41 Isophorone                   | 82        | 5.428  | 5.428  | (0.914) | 1034562  | 120.000          | 120             |
| 42 2-Nitrophenol                | 139       | 5.519  | 5.519  | (0.929) | 277771   | 120.000          | 122             |
| 43 2,4-Dimethylphenol           | 107       | 5.599  | 5.599  | (0.942) | 528305   | 120.000          | 121             |



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| Compounds                     | QUANT SIG |        |                | RESPONSE | AMOUNTS          |                 |
|-------------------------------|-----------|--------|----------------|----------|------------------|-----------------|
|                               | MASS      | RT     | EXP RT REL RT  |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| 44 bis(2-Chloroethoxy)methane | 93        | 5.701  | 5.701 (0.960)  | 625001   | 120.000          | 119             |
| 48 2,4-Dichlorophenol         | 162       | 5.813  | 5.813 (0.978)  | 401088   | 120.000          | 121             |
| 49 Benzoic Acid               | 122       | 5.813  | 5.813 (0.978)  | 260719   | 120.000          | 161 (A)         |
| 50 1,2,4-Trichlorobenzene     | 180       | 5.898  | 5.898 (0.993)  | 426881   | 120.000          | 121             |
| 51 Naphthalene                | 128       | 5.968  | 5.968 (1.004)  | 1455876  | 120.000          | 116             |
| 52 4-Chloroaniline            | 127       | 6.080  | 6.080 (1.023)  | 581677   | 120.000          | 121             |
| 56 Hexachlorobutadiene        | 225       | 6.203  | 6.203 (1.044)  | 258790   | 120.000          | 121             |
| 59 4-Chloro-3-Methylphenol    | 107       | 6.791  | 6.791 (1.143)  | 471263   | 120.000          | 124             |
| 62 2-Methylnaphthalene        | 142       | 6.924  | 6.924 (1.165)  | 926020   | 120.000          | 119             |
| 205 1-Methylnaphthalene       | 142       | 7.090  | 7.090 (1.193)  | 902580   | 120.000          | 122             |
| 64 Hexachlorocyclopentadiene  | 237       | 7.282  | 7.282 (0.832)  | 220269   | 120.000          | 146             |
| 66 2,4,6-Trichlorophenol      | 196       | 7.437  | 7.437 (0.849)  | 247476   | 120.000          | 121             |
| 67 2,4,5-Trichlorophenol      | 196       | 7.512  | 7.512 (0.858)  | 271191   | 120.000          | 126             |
| 70 2-Chloronaphthalene        | 162       | 7.709  | 7.709 (0.880)  | 889211   | 120.000          | 120             |
| 73 2-Nitroaniline             | 65        | 7.977  | 7.977 (0.911)  | 361271   | 120.000          | 124             |
| 76 Dimethylphthalate          | 163       | 8.399  | 8.399 (0.959)  | 965376   | 120.000          | 122             |
| 78 2,6-Dinitrotoluene         | 165       | 8.521  | 8.521 (0.973)  | 225322   | 120.000          | 127             |
| 79 Acenaphthylene             | 152       | 8.463  | 8.463 (0.966)  | 1400438  | 120.000          | 118             |
| 81 3-Nitroaniline             | 138       | 8.772  | 8.772 (1.002)  | 260690   | 120.000          | 126             |
| 82 Acenaphthene               | 153       | 8.826  | 8.826 (1.008)  | 873201   | 120.000          | 119             |
| 83 2,4-Dinitrophenol          | 184       | 8.986  | 8.986 (1.026)  | 124202   | 120.000          | 159             |
| 85 4-Nitrophenol              | 109       | 9.216  | 9.216 (1.052)  | 149507   | 120.000          | 142             |
| 86 Dibenzofuran               | 168       | 9.146  | 9.146 (1.045)  | 1179278  | 120.000          | 119             |
| 87 2,4-Dinitrotoluene         | 165       | 9.307  | 9.307 (1.063)  | 305340   | 120.000          | 128             |
| 91 2,3,5,6-Tetrachlorophenol  | 232       | 9.435  | 9.435 (1.077)  | 199229   | 120.000          | 132             |
| 88 2,3,4,6-Tetrachlorophenol  | 232       | 9.531  | 9.531 (1.088)  | 210928   | 120.000          | 133             |
| 92 2-Naphthylamine            | 143       | 9.494  | 9.494 (1.084)  | 728151   | 120.000          | 112             |
| 93 Diethylphthalate           | 149       | 9.868  | 9.868 (1.127)  | 1055363  | 120.000          | 126             |
| 94 Fluorene                   | 166       | 9.868  | 9.868 (1.127)  | 1008371  | 120.000          | 123             |
| 95 4-Chlorophenyl-phenylether | 204       | 9.916  | 9.916 (1.132)  | 463067   | 120.000          | 122             |
| 96 4-Nitroaniline             | 138       | 10.071 | 10.071 (1.150) | 262307   | 120.000          | 132             |
| 98 4,6-Dinitro-2-methylphenol | 198       | 10.172 | 10.172 (0.852) | 181009   | 120.000          | 136             |
| 99 N-Nitrosodiphenylamine     | 169       | 10.215 | 10.215 (0.855) | 729705   | 120.000          | 126             |
| 100 1,2-Diphenylhydrazine     | 77        | 10.258 | 10.258 (0.859) | 1458878  | 120.000          | 122             |
| 106 4-Bromophenyl-phenylether | 248       | 10.984 | 10.984 (0.920) | 269952   | 120.000          | 119             |
| 107 Hexachlorobenzene         | 284       | 11.267 | 11.267 (0.943) | 291447   | 120.000          | 120             |
| 111 Pentachlorophenol         | 266       | 11.721 | 11.721 (0.981) | 122080   | 120.000          | 150             |
| 115 Phenanthrene              | 178       | 12.004 | 12.004 (1.005) | 1356618  | 120.000          | 117             |
| 116 Anthracene                | 178       | 12.111 | 12.111 (1.014) | 1413826  | 120.000          | 118             |
| 119 Carbazole                 | 167       | 12.571 | 12.571 (1.052) | 1313797  | 120.000          | 122             |
| 120 Di-n-Butylphthalate       | 149       | 13.719 | 13.719 (1.148) | 1713660  | 120.000          | 123             |
| 123 Fluoranthene              | 202       | 14.889 | 14.889 (1.246) | 1492220  | 120.000          | 124             |
| 124 Benzidine                 | 184       | 15.343 | 15.343 (0.830) | 794173   | 120.000          | 120             |
| 125 Pyrene                    | 202       | 15.418 | 15.418 (0.834) | 1513476  | 120.000          | 114             |
| 131 Butylbenzylphthalate      | 149       | 17.411 | 17.411 (0.941) | 850000   | 120.000          | 120             |
| 135 3,3'-Dichlorobenzidine    | 252       | 18.538 | 18.538 (1.002) | 658014   | 120.000          | 126             |
| 136 Benzo(a)Anthracene        | 228       | 18.463 | 18.463 (0.998) | 1567488  | 120.000          | 120             |

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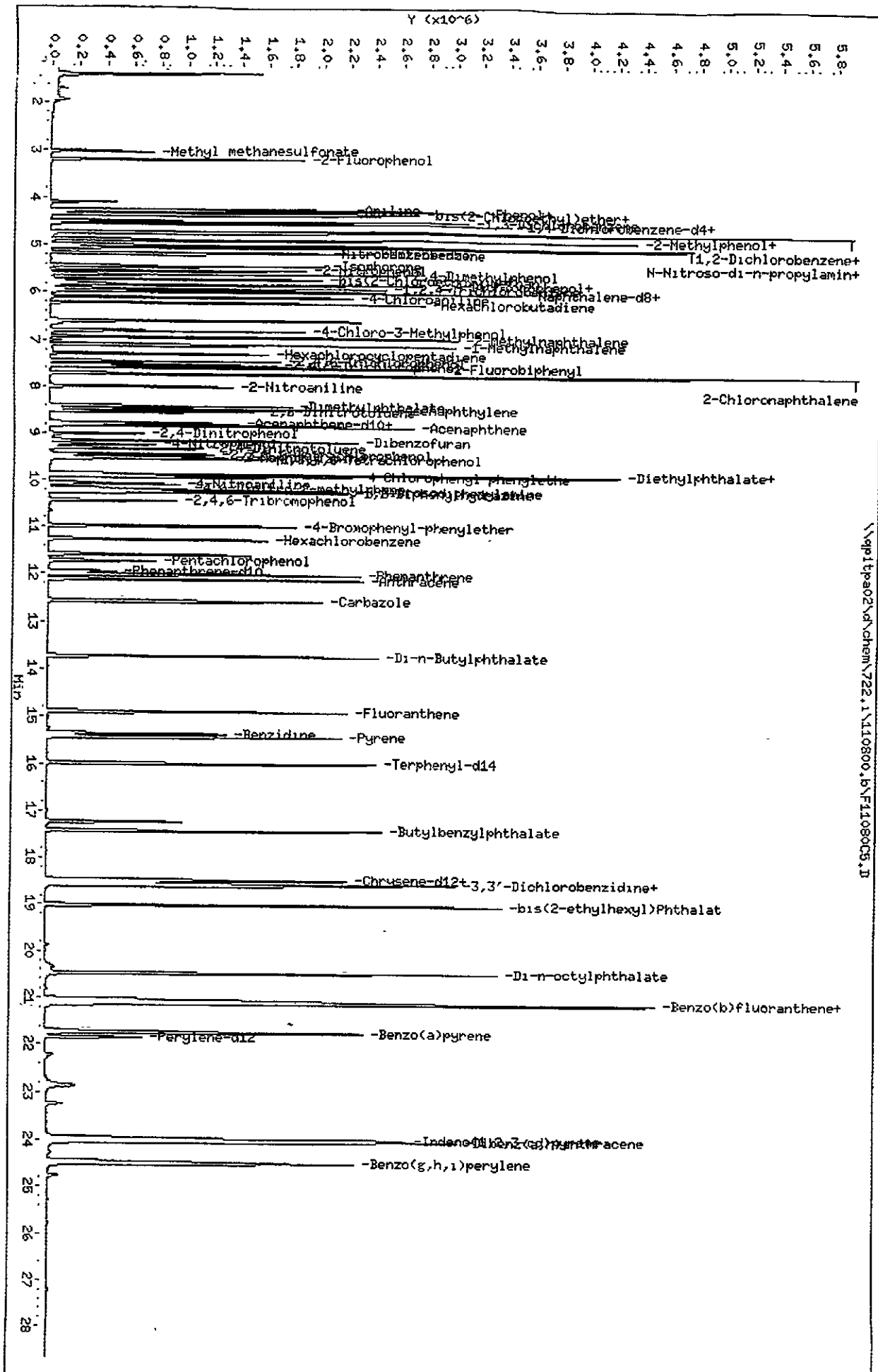
| Compounds                         | QUANT SIG |        |        |         | RESPONSE | AMOUNTS          |                 |
|-----------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                   | MASS      | RT     | EXP RT | REL RT  |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| =====                             | =====     | ==     | =====  | =====   | =====    | =====            | =====           |
| 137 Chrysene                      | 228       | 18.565 | 18.565 | (1.004) | 1517945  | 120.000          | 119             |
| 139 bis(2-ethylhexyl)Phthalate    | 149       | 18.997 | 18.997 | (1.027) | 1232958  | 120.000          | 121             |
| 140 Di-n-octylphthalate           | 149       | 20.466 | 20.466 | (0.938) | 2207378  | 120.000          | 119             |
| 141 Benzo(b)fluoranthene          | 252       | 21.043 | 21.043 | (0.964) | 1993450  | 120.000          | 127             |
| 142 Benzo(k)fluoranthene          | 252       | 21.107 | 21.107 | (0.967) | 1919956  | 120.000          | 115             |
| 143 7,12-dimethylbenz[a]anthracen | 256       | 21.102 | 21.102 | (0.967) | 950089   | 120.000          | 128             |
| 146 Benzo(a)pyrene                | 252       | 21.722 | 21.722 | (0.995) | 1791759  | 120.000          | 120             |
| 149 Indeno(1,2,3-cd)pyrene        | 276       | 23.966 | 23.966 | (1.098) | 2575801  | 120.000          | 124             |
| 150 Dibenz(a,h)anthracene         | 278       | 24.014 | 24.014 | (1.100) | 2235562  | 120.000          | 124             |
| 151 Benzo(g,h,i)perylene          | 276       | 24.468 | 24.468 | (1.121) | 2229221  | 120.000          | 123             |
| \$ 154 Nitrobenzene-d5            | 82        | 5.151  | 5.151  | (0.867) | 650283   | 120.000          | 120             |
| \$ 155 2-Fluorobiphenyl           | 172       | 7.560  | 7.560  | (0.863) | 993009   | 120.000          | 118             |
| \$ 156 Terphenyl-d14              | 244       | 15.984 | 15.984 | (0.864) | 1277338  | 120.000          | 117             |
| \$ 157 Phenol-d5                  | 99        | 4.274  | 4.274  | (0.943) | 647499   | 120.000          | 119             |
| \$ 158 2-Fluorophenol             | 112       | 3.206  | 3.206  | (0.708) | 472782   | 120.000          | 121             |
| \$ 159 2,4,6-Tribromophenol       | 330       | 10.439 | 10.439 | (0.874) | 127330   | 120.000          | 126             |
| \$ 186 2-Chlorophenol-d4          | 132       | 4.344  | 4.344  | (0.959) | 469073   | 120.000          | 122             |
| \$ 187 1,2-Dichlorobenzene-d4     | 152       | 4.723  | 4.723  | (1.042) | 363073   | 120.000          | 124             |

#### QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pp1tpa02\chem\722.1\110800.b\F1108005.D  
 Date: 08-NOV-2000 15:59  
 Client ID: SST1160  
 Sample Info: SST1160 (80ppb) 77-01-9  
 Column phase: Hp5-MS

Instrument: 722.1  
 Operator: 007062  
 Column diameter: 0.25



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STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\qpitpa02\d\chem\722.i\110800.b\F11080C5.D  
Lab Smp Id: sstd160 Client Smp ID: SSTD160  
Inj Date : 08-NOV-2000 15:59  
Operator : 007062 Inst ID: 722.i  
Smp Info : SSTD160 (80ppb) 77-01-9  
Misc Info : sstd160,110800.b,8270b.m,2-root.sub,1,5  
Comment :  
Method : \\qpitpa02\d\chem\722.i\110800.b\8270b.m  
Meth Date : 08-Nov-2000 16:30 bungardf Quant Type: ISTD  
Cal Date : 08-NOV-2000 15:59 Cal File: F11080C5.D  
Als bottle: 28 Calibration Sample, Level: 5  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 2-root.sub  
Target Version: 4.04  
Processing Host: PITPC062

*Handwritten:*  
11/8/00

| Compounds                       | QUANT SIG | AMOUNTS |        |         |          |                  |                 |
|---------------------------------|-----------|---------|--------|---------|----------|------------------|-----------------|
|                                 |           | RT      | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| *****                           | ****      | ==      | =====  | =====   | =====    | =====            | =====           |
| * 1 1,4-Dichlorobenzene-d4      | 152       | 4.535   | 4.535  | (1.000) | 121774   | 40 0000          |                 |
| * 2 Naphthalene-d8              | 136       | 5.951   | 5.951  | (1.000) | 443422   | 40.0000          |                 |
| * 3 Acenaphthene-d10            | 164       | 8.766   | 8.766  | (1.000) | 229781   | 40 0000          |                 |
| * 4 Phenanthrene-d10            | 188       | 11.955  | 11.955 | (1.000) | 391735   | 40 0000          |                 |
| * 5 Chrysene-d12                | 240       | 18.510  | 18.510 | (1.000) | 486826   | 40 0000          |                 |
| * 6 Perylene-d12                | 264       | 21.844  | 21.844 | (1.000) | 532760   | 40 0000          |                 |
| 10 N-Nitrosodimethylamine       | 74        | 1.399   | 1.399  | (0.309) | 429383   | 160 000          | 150             |
| 9 Pyridine                      | 79        | 1.378   | 1.378  | (0.304) | 776300   | 160 000          | 151             |
| 16 Methyl methanesulfonate      | 80        | 3.034   | 3.034  | (0.669) | 413905   | 160.000          | 167 (A)         |
| 21 Aniline                      | 93        | 4.252   | 4.252  | (0.938) | 1065719  | 160.000          | 152             |
| 22 Phenol                       | 94        | 4.295   | 4.295  | (0.947) | 844313   | 160.000          | 150             |
| 23 bis(2-Chloroethyl)ether      | 93        | 4.332   | 4.332  | (0.955) | 678800   | 160 000          | 149             |
| 24 2-Chlorophenol               | 128       | 4.364   | 4.364  | (0.962) | 654861   | 160 000          | 154             |
| 26 1,3-Dichlorobenzene          | 146       | 4.498   | 4.498  | (0.992) | 726718   | 160 000          | 155             |
| 27 1,4-Dichlorobenzene          | 146       | 4.551   | 4.551  | (1.004) | 742563   | 160.000          | 154             |
| 28 1,2-Dichlorobenzene          | 146       | 4.738   | 4.738  | (1.045) | 715886   | 160 000          | 158             |
| 29 Benzyl Alcohol               | 108       | 4.727   | 4.727  | (1.042) | 478684   | 160 000          | 159             |
| 30 2-Methylphenol               | 108       | 4.882   | 4.882  | (1.077) | 592144   | 160 000          | 151             |
| 31 2,2'-oxybis(1-Chloropropane) | 45        | 4.877   | 4.877  | (1.075) | 861266   | 160 000          | 137             |
| 32 N-Nitroso-di-n-propylamine   | 70        | 5.043   | 5.043  | (1.112) | 530200   | 160.000          | 148             |
| 192 4-Methylphenol              | 108       | 5.037   | 5.037  | (1.111) | 621305   | 160 000          | 151             |
| 34 Hexachloroethane             | 117       | 5.053   | 5.053  | (1.114) | 315336   | 160.000          | 156             |
| 35 Nitrobenzene                 | 77        | 5.176   | 5.176  | (0.870) | 815284   | 160 000          | 155             |
| 41 Isophorone                   | 82        | 5.438   | 5.438  | (0.914) | 1293487  | 160 000          | 155             |
| 42 2-Nitrophenol                | 139       | 5.529   | 5.529  | (0.929) | 355822   | 160 000          | 160 (A)         |
| 43 2,4-Dimethylphenol           | 107       | 5.609   | 5.609  | (0.943) | 670219   | 160 000          | 158             |

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| Compounds                       | QUANT SIG |        |        |         |          | AMOUNTS |         |
|---------------------------------|-----------|--------|--------|---------|----------|---------|---------|
|                                 | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT | ON-COL  |
|                                 | ( NG)     | ( NG)  | ( NG)  | ( NG)   | ( NG)    | ( NG)   | ( NG)   |
| =====                           | =====     | ==     | =====  | =====   | =====    | =====   | =====   |
| 44 bis (2-Chloroethoxy) methane | 93        | 5.710  | 5.710  | (0.960) | 796305   | 160.000 | 156     |
| 48 2,4-Dichlorophenol           | 162       | 5.817  | 5.817  | (0.978) | 513419   | 160.000 | 159     |
| 49 Benzoic Acid                 | 122       | 5.838  | 5.838  | (0.981) | 332914   | 160.000 | 199 (A) |
| 50 1,2,4-Trichlorobenzene       | 180       | 5.903  | 5.903  | (0.992) | 549778   | 160.000 | 160     |
| 51 Naphthalene                  | 128       | 5.977  | 5.977  | (1.004) | 1843279  | 160.000 | 153     |
| 52 4-Chloroaniline              | 127       | 6.090  | 6.090  | (1.023) | 735543   | 160.000 | 158     |
| 56 Hexachlorobutadiene          | 225       | 6.212  | 6.212  | (1.044) | 345037   | 160.000 | 165 (A) |
| 59 4-Chloro-3-Methylphenol      | 107       | 6.800  | 6.800  | (1.143) | 586455   | 160.000 | 159     |
| 62 2-Methylnaphthalene          | 142       | 6.934  | 6.934  | (1.165) | 1169717  | 160.000 | 156     |
| 205 1-Methylnaphthalene         | 142       | 7.099  | 7.099  | (1.193) | 1138162  | 160.000 | 159     |
| 64 Hexachlorocyclopentadiene    | 237       | 7.286  | 7.286  | (0.831) | 301438   | 160.000 | 199 (A) |
| 66 2,4,6-Trichlorophenol        | 196       | 7.446  | 7.446  | (0.849) | 313944   | 160.000 | 162 (A) |
| 67 2,4,5-Trichlorophenol        | 196       | 7.527  | 7.527  | (0.859) | 331663   | 160.000 | 163 (A) |
| 70 2-Chloronaphthalene          | 162       | 7.719  | 7.719  | (0.881) | 1138008  | 160.000 | 163 (A) |
| 73 2-Nitroaniline               | 65        | 7.986  | 7.986  | (0.911) | 453376   | 160.000 | 164 (A) |
| 76 Dimethylphthalate            | 163       | 8.413  | 8.413  | (0.960) | 1202987  | 160.000 | 161 (A) |
| 78 2,6-Dinitrotoluene           | 165       | 8.531  | 8.531  | (0.973) | 279899   | 160.000 | 166 (A) |
| 79 Acenaphthylene               | 152       | 8.472  | 8.472  | (0.966) | 1736176  | 160.000 | 157     |
| 81 3-Nitroaniline               | 138       | 8.787  | 8.787  | (1.002) | 330244   | 160.000 | 168 (A) |
| 82 Acenaphthene                 | 153       | 8.835  | 8.835  | (1.008) | 1093376  | 160.000 | 159     |
| 83 2,4-Dinitrophenol            | 184       | 9.001  | 9.001  | (1.027) | 162528   | 160.000 | 206 (A) |
| 85 4-Nitrophenol                | 109       | 9.231  | 9.231  | (1.053) | 194386   | 160.000 | 188 (A) |
| 86 Dibenzofuran                 | 168       | 9.156  | 9.156  | (1.044) | 1474063  | 160.000 | 159     |
| 87 2,4-Dinitrotoluene           | 165       | 9.322  | 9.322  | (1.063) | 385208   | 160.000 | 170 (A) |
| 91 2,3,5,6-Tetrachlorophenol    | 232       | 9.444  | 9.444  | (1.077) | 252085   | 160.000 | 174 (A) |
| 88 2,3,4,6-Tetrachlorophenol    | 232       | 9.541  | 9.541  | (1.088) | 266257   | 160.000 | 174 (A) |
| 92 2-Naphthylamine              | 143       | 9.509  | 9.509  | (1.085) | 857628   | 160.000 | 144     |
| 93 Diethylphthalate             | 149       | 9.882  | 9.882  | (1.127) | 1328010  | 160.000 | 167 (A) |
| 94 Fluorene                     | 166       | 9.877  | 9.877  | (1.127) | 1261133  | 160.000 | 163 (A) |
| 95 4-Chlorophenyl-phenylether   | 204       | 9.925  | 9.925  | (1.132) | 578449   | 160.000 | 161 (A) |
| 96 4-Nitroaniline               | 138       | 10.091 | 10.091 | (1.151) | 333817   | 160.000 | 174 (A) |
| 98 4,6-Dinitro-2-methylphenol   | 198       | 10.192 | 10.192 | (0.853) | 236619   | 160.000 | 181 (A) |
| 99 N-Nitrosodiphenylamine       | 169       | 10.230 | 10.230 | (0.856) | 898243   | 160.000 | 162 (A) |
| 100 1,2-Diphenylhydrazine       | 77        | 10.272 | 10.272 | (0.859) | 1808950  | 160.000 | 159     |
| 106 4-Bromophenyl-phenylether   | 248       | 10.994 | 10.994 | (0.920) | 339147   | 160.000 | 158     |
| 107 Hexachlorobenzene           | 284       | 11.277 | 11.277 | (0.943) | 370420   | 160.000 | 160     |
| 111 Pentachlorophenol           | 266       | 11.736 | 11.736 | (0.982) | 165128   | 160.000 | 200 (A) |
| 115 Phenanthrene                | 178       | 12.019 | 12.019 | (1.005) | 1707411  | 160.000 | 156     |
| 116 Anthracene                  | 178       | 12.126 | 12.126 | (1.014) | 1770363  | 160.000 | 156     |
| 119 Carbazole                   | 167       | 12.580 | 12.580 | (1.052) | 1671804  | 160.000 | 162 (A) |
| 120 Di-n-Butylphthalate         | 149       | 13.734 | 13.734 | (1.149) | 2146448  | 160.000 | 161 (A) |
| 123 Fluoranthene                | 202       | 14.904 | 14.904 | (1.247) | 1912968  | 160.000 | 166 (A) |
| 124 Benzidine                   | 184       | 15.358 | 15.358 | (0.830) | 1020695  | 160.000 | 158     |
| 125 Pyrene                      | 202       | 15.433 | 15.433 | (0.834) | 1929397  | 160.000 | 151     |
| 131 Butylbenzylphthalate        | 149       | 17.426 | 17.426 | (0.941) | 1098804  | 160.000 | 158     |
| 135 3,3'-Dichlorobenzidine      | 252       | 18.553 | 18.553 | (1.002) | 868797   | 160.000 | 168 (A) |
| 136 Benzo (a) Anthracene        | 228       | 18.473 | 18.473 | (0.998) | 2037677  | 160.000 | 159     |

674 241

| Compounds                         | QUANT SIG |        |        |         |          | AMOUNTS |         |
|-----------------------------------|-----------|--------|--------|---------|----------|---------|---------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT | ON-COL  |
|                                   |           |        |        |         |          | ( NG)   | ( NG)   |
| =====                             | ====      | ==     | =====  | =====   | =====    | =====   | =====   |
| 137 Chrysene                      | 228       | 18.579 | 18.579 | (1.004) | 1978412  | 160.000 | 158     |
| 139 bis(2-ethylhexyl)Phthalate    | 149       | 19.012 | 19.012 | (1.027) | 1576275  | 160.000 | 158     |
| 140 Di-n-octylphthalate           | 149       | 20.481 | 20.481 | (0.938) | 2857682  | 160.000 | 155     |
| 141 Benzo(b)fluoranthene          | 252       | 21.069 | 21.069 | (0.965) | 2787640  | 160.000 | 174 (A) |
| 142 Benzo(k)fluoranthene          | 252       | 21.133 | 21.133 | (0.967) | 2404398  | 160.000 | 147     |
| 143 7,12-dimethylbenz[a]anthracen | 256       | 21.122 | 21.122 | (0.967) | 1284019  | 160.000 | 170 (A) |
| 146 Benzo(a)pyrene                | 252       | 21.742 | 21.742 | (0.995) | 2378315  | 160.000 | 160     |
| 149 Indeno(1,2,3-cd)pyrene        | 276       | 23.986 | 23.986 | (1.098) | 3494094  | 160.000 | 166 (A) |
| 150 Dibenz(a,h)anthracene         | 278       | 24.039 | 24.039 | (1.101) | 3039670  | 160.000 | 166 (A) |
| 151 Benzo(g,h,i)perylene          | 276       | 24.499 | 24.499 | (1.122) | 3004061  | 160.000 | 164 (A) |
| \$ 154 Nitrobenzene-d5            | 82        | 5.155  | 5.155  | (0.866) | 828572   | 160.000 | 157     |
| \$ 155 2-Fluorobiphenyl           | 172       | 7.569  | 7.569  | (0.863) | 1239258  | 160.000 | 157     |
| \$ 156 Terphenyl-d14              | 244       | 15.994 | 15.994 | (0.864) | 1629074  | 160.000 | 153     |
| \$ 157 Phenol-d5                  | 99        | 4.279  | 4.279  | (0.943) | 822542   | 160.000 | 152     |
| \$ 158 2-Fluorophenol             | 112       | 3.210  | 3.210  | (0.708) | 616091   | 160.000 | 157     |
| \$ 159 2,4,6-Tribromophenol       | 330       | 10.454 | 10.454 | (0.874) | 160719   | 160.000 | 166 (A) |
| \$ 186 2-Chlorophenol-d4          | 132       | 4.348  | 4.348  | (0.959) | 608585   | 160.000 | 157     |
| \$ 187 1,2-Dichlorobenzene-d4     | 152       | 4.727  | 4.727  | (1.042) | 482128   | 160.000 | 162 (A) |

#### QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

FORM 7  
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

674 242

Lab Code:

Case No.:

SAS No.:

SDG No.: *C031020*

Instrument ID: 722

Calibration Date: 11/09/00 Time: 0831

Lab File ID: F11090C1

Init. Calib. Date(s): 11/08/00 11/08/00

Init. Calib. Times: 1341 1559

GC Column: HP5-MS ID: 0.25 (mm)

| COMPOUND                     | RRF   | RRF50 | MIN<br>RRF | %D   | MAX<br>%D |
|------------------------------|-------|-------|------------|------|-----------|
| Phenol                       | 1.850 | 1.952 | 0.01       | 5.5  | 20.0      |
| bis(2-Chloroethyl) ether     | 1.497 | 1.562 | 0.01       | 4.3  | 50.0      |
| 2-Chlorophenol               | 1.401 | 1.466 | 0.01       | 4.6  | 50.0      |
| 1,3-Dichlorobenzene          | 1.540 | 1.619 | 0.01       | 5.1  | 50.0      |
| 1,4-Dichlorobenzene          | 1.581 | 1.644 | 0.01       | 4.0  | 20.0      |
| 1,2-Dichlorobenzene          | 1.488 | 1.536 | 0.01       | 3.2  | 50.0      |
| 2-Methylphenol               | 1.285 | 1.342 | 0.01       | 4.4  | 50.0      |
| 2,2'-oxybis(1-Chloropropane) | 2.065 | 2.276 | 0.01       | 10.2 | 50.0      |
| 4-Methylphenol               | 1.349 | 1.407 | 0.01       | 4.3  | 50.0      |
| Hexachloroethane             | 0.662 | 0.682 | 0.01       | 3.0  | 50.0      |
| Nitrobenzene                 | 0.476 | 0.507 | 0.01       | 6.5  | 50.0      |
| Isophorone                   | 0.753 | 0.793 | 0.01       | 5.3  | 50.0      |
| 2-Nitrophenol                | 0.200 | 0.209 | 0.01       | 4.5  | 20.0      |
| 2,4-Dimethylphenol           | 0.382 | 0.406 | 0.01       | 6.3  | 50.0      |
| bis(2-Chloroethoxy) methane  | 0.460 | 0.484 | 0.01       | 5.2  | 50.0      |
| N-Nitroso-di-n-propylamine   | 1.180 | 1.239 | 0.05       | 5.0  | 50.0      |
| 2,4-Dichlorophenol           | 0.291 | 0.303 | 0.01       | 4.1  | 20.0      |
| 1,2,4-Trichlorobenzene       | 0.310 | 0.322 | 0.01       | 3.9  | 50.0      |
| Naphthalene                  | 1.088 | 1.166 | 0.01       | 7.2  | 50.0      |
| 4-Chloroaniline              | 0.421 | 0.437 | 0.01       | 3.8  | 50.0      |
| Hexachlorobutadiene          | 0.189 | 0.193 | 0.01       | 2.1  | 20.0      |
| 4-Chloro-3-Methylphenol      | 0.332 | 0.341 | 0.01       | 2.7  | 20.0      |
| 2-Methylnaphthalene          | 0.676 | 0.707 | 0.01       | 4.6  | 50.0      |
| Hexachlorocyclopentadiene    | 0.263 | 0.222 | 0.05       | 15.6 | 50.0      |
| 2,4,6-Trichlorophenol        | 0.336 | 0.352 | 0.01       | 4.8  | 20.0      |
| 2,4,5-Trichlorophenol        | 0.355 | 0.360 | 0.01       | 1.4  | 50.0      |
| 2-Chloronaphthalene          | 1.213 | 1.259 | 0.01       | 3.8  | 50.0      |
| 2-Nitroaniline               | 0.480 | 0.504 | 0.01       | 5.0  | 50.0      |
| Dimethylphthalate            | 1.297 | 1.346 | 0.01       | 3.8  | 50.0      |
| Acenaphthylene               | 1.924 | 2.013 | 0.01       | 4.6  | 50.0      |
| 2,6-Dinitrotoluene           | 0.293 | 0.297 | 0.01       | 1.4  | 50.0      |
| 3-Nitroaniline               | 0.342 | 0.348 | 0.01       | 1.8  | 50.0      |
| Acenaphthene                 | 1.199 | 1.253 | 0.01       | 4.5  | 20.0      |
| 2,4-Dinitrophenol            | 0.138 | 0.130 | 0.05       | 5.8  | 50.0      |
| 4-Nitrophenol                | 0.180 | 0.165 | 0.05       | 8.3  | 50.0      |
| Dibenzofuran                 | 1.615 | 1.697 | 0.01       | 5.1  | 50.0      |
| 2,4-Dinitrotoluene           | 0.395 | 0.400 | 0.01       | 1.3  | 50.0      |

FORM 7  
SEMIVOLATILE CONTINUING CALIBRATION CHECK

674 243

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

COS 3/10/2000

Instrument ID: 722

Calibration Date: 11/09/00

Time: 0831

Lab File ID: F11090C1

Init. Calib. Date(s): 11/08/00

11/08/00

Init. Calib. Times: 1341

1559

GC Column: HP5-MS

ID: 0.25 (mm)

| COMPOUND                   | RRF   | RRF50 | MIN<br>RRF | %D   | MAX<br>%D |
|----------------------------|-------|-------|------------|------|-----------|
| Diethylphthalate           | 1.382 | 1.402 | 0.01       | 1.4  | 50.0      |
| 4-Chlorophenyl-phenylether | 0.624 | 0.638 | 0.01       | 2.2  | 50.0      |
| Fluorene                   | 1.346 | 1.391 | 0.01       | 3.3  | 50.0      |
| 4-Nitroaniline             | 0.333 | 0.332 | 0.01       | 0.3  | 50.0      |
| 4,6-Dinitro-2-methylphenol | 0.133 | 0.128 | 0.01       | 3.8  | 50.0      |
| N-Nitrosodiphenylamine     | 0.565 | 0.468 | 0.01       | 17.2 | 20.0      |
| 4-Bromophenyl-phenylether  | 0.219 | 0.226 | 0.01       | 3.2  | 50.0      |
| Hexachlorobenzene          | 0.237 | 0.241 | 0.01       | 1.7  | 50.0      |
| Pentachlorophenol          | 0.084 | 0.072 | 0.05       | 14.3 | 20.0      |
| Phenanthrene               | 1.118 | 1.164 | 0.01       | 4.1  | 50.0      |
| Anthracene                 | 1.158 | 1.198 | 0.01       | 3.4  | 50.0      |
| Carbazole                  | 1.051 | 1.065 | 0.01       | 1.3  | 50.0      |
| Di-n-Butylphthalate        | 1.357 | 1.357 | 0.01       | 0.0  | 50.0      |
| Fluoranthene               | 1.178 | 1.170 | 0.01       | 0.7  | 20.0      |
| Pyrene                     | 1.053 | 1.149 | 0.01       | 9.1  | 50.0      |
| Butylbenzylphthalate       | 0.571 | 0.606 | 0.01       | 6.1  | 50.0      |
| 3,3'-Dichlorobenzidine     | 0.425 | 0.404 | 0.01       | 4.9  | 50.0      |
| Benzo(a)Anthracene         | 1.054 | 1.103 | 0.01       | 4.6  | 50.0      |
| Chrysene                   | 1.025 | 1.061 | 0.01       | 3.5  | 50.0      |
| bis(2-ethylhexyl)Phthalate | 0.820 | 0.867 | 0.01       | 5.7  | 50.0      |
| Di-n-octylphthalate        | 1.387 | 1.533 | 0.01       | 10.5 | 20.0      |
| Benzo(b)fluoranthene       | 1.205 | 1.188 | 0.01       | 1.4  | 50.0      |
| Benzo(k)fluoranthene       | 1.227 | 1.314 | 0.01       | 7.1  | 50.0      |
| Benzo(a)pyrene             | 1.117 | 1.172 | 0.01       | 4.9  | 20.0      |
| Indeno(1,2,3-cd)pyrene     | 1.581 | 1.629 | 0.01       | 3.0  | 50.0      |
| Dibenz(a,h)anthracene      | 1.371 | 1.413 | 0.01       | 3.1  | 50.0      |
| Benzo(g,h,i)perylene       | 1.373 | 1.408 | 0.01       | 2.5  | 50.0      |
| Pyridine                   | 1.686 | 1.594 | 0.01       | 5.4  | 50.0      |
| N-Nitrosodimethylamine     | 0.937 | 0.967 | 0.01       | 3.2  | 50.0      |
| Aniline                    | 2.303 | 2.259 | 0.01       | 1.9  | 50.0      |
| Benzyl Alcohol             | 0.986 | 0.975 | 0.01       | 1.1  | 50.0      |
| Benzoic Acid               | 0.151 | 0.152 | 0.01       | 0.7  | 50.0      |
| 2,3,4,6-Tetrachlorophenol  | 0.266 | 0.245 | 0.01       | 7.9  | 50.0      |
| 2,3,5,6-Tetrachlorophenol  | 0.253 | 0.243 | 0.01       | 4.0  | 50.0      |
| 1,2-Diphenylhydrazine      | 1.158 | 1.200 | 0.01       | 3.6  | 50.0      |
| Benzidine                  | 0.531 | 0.475 | 0.01       | 10.5 | 50.0      |
| Methyl methanesulfonate    | 0.813 | 0.527 | 0.01       | 35.2 | 50.0      |



FORM 7  
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH Contract: **674 244**  
 Lab Code: Case No.: SAS No.: SDG No.: *C053102cd*  
 Instrument ID: 722 Calibration Date: 11/09/00 Time: 0831  
 Lab File ID: F11090C1 Init. Calib. Date(s): 11/08/00 11/08/00  
 Init. Calib. Times: 1341 1559  
 GC Column: HP5-MS ID: 0.25 (mm)

| COMPOUND                     | RRF   | RRF50 | MIN<br>RRF | %D    | MAX<br>%D |
|------------------------------|-------|-------|------------|-------|-----------|
| =====                        | ===== | ===== | =====      | ===== | =====     |
| 2-Naphthylamine              | 1.035 | 1.079 | 0.01       | 4.2   | 50.0      |
| 7,12-dimethylbenz[a]anthrace | 0.568 | 0.558 | 0.01       | 1.8   | 50.0      |
| 1-Methylnaphthalene          | 0.646 | 0.642 | 0.01       | 0.6   | 50.0      |
| =====                        | ===== | ===== | =====      | ===== | =====     |
| Nitrobenzene-d5              | 0.475 | 0.487 | 0.01       | 2.5   | 50.0      |
| 2-Fluorobiphenyl             | 1.372 | 1.405 | 0.01       | 2.4   | 50.0      |
| Terphenyl-d14                | 0.873 | 0.902 | 0.01       | 3.3   | 50.0      |
| Phenol-d5                    | 1.781 | 1.816 | 0.01       | 2.0   | 50.0      |
| 2-Fluorophenol               | 1.292 | 1.310 | 0.01       | 1.4   | 50.0      |
| 2,4,6-Tribromophenol         | 0.099 | 0.099 | 0.01       | 0.0   | 50.0      |
| 2-Chlorophenol-d4            | 1.273 | 1.284 | 0.01       | 0.9   | 50.0      |
| 1,2-Dichlorobenzene-d4       | 0.977 | 0.962 | 0.01       | 1.5   | 50.0      |

CONTINUING CALIBRATION COMPOUNDS  
 PERCENT DRIFT REPORT

Instrument ID: 722.i  
 Lab File ID: F11090C1.D  
 Analysis Type: NONE

Injection Date: 09-NOV-2000 08:31  
 Lab Sample ID: sstd050  
 Method File: \\QPITPA02\D\chem\722.i\110900.b\

| COMPOUND                       | EXPECTED<br>CONC. | MEASURED<br>CONC. | %D   | MAX<br>%D |
|--------------------------------|-------------------|-------------------|------|-----------|
| 66 Pyridine                    | 50.0000           | 47.2882           | 5.4  | 50.0      |
| 67 N-Nitrosodimethylamine      | 50.0000           | 51.6169           | 3.2  | 50.0      |
| 87 Methyl methanesulfonate     | 50.0000           | 32.4343           | 35.1 | 50.0      |
| 185 2-Fluorophenol             | 50.0000           | 50.7197           | 1.4  | 50.0      |
| 68 Aniline                     | 50.0000           | 49.0494           | 1.9  | 50.0      |
| 184 Phenol-d5                  | 50.0000           | 50.9932           | 2.0  | 50.0      |
| 1 Phenol                       | 50.0000           | 52.7651           | 5.5  | 20.0      |
| 2 bis(2-Chloroethyl) ether     | 50.0000           | 52.1603           | 4.3  | 50.0      |
| 187 2-Chlorophenol-d4          | 50.0000           | 50.4178           | 0.8  | 50.0      |
| 3 2-Chlorophenol               | 50.0000           | 52.3162           | 4.6  | 50.0      |
| 4 1,3-Dichlorobenzene          | 50.0000           | 52.5922           | 5.2  | 50.0      |
| 11 1,4-Dichlorobenzene-d4      | 40.0000           | 40.0000           | 0.0  | 50.0      |
| 5 1,4-Dichlorobenzene          | 50.0000           | 51.9912           | 4.0  | 20.0      |
| 69 Benzyl Alcohol              | 50.0000           | 49.4474           | 1.1  | 50.0      |
| 188 1,2-Dichlorobenzene-d4     | 50.0000           | 49.1995           | 1.6  | 50.0      |
| 6 1,2-Dichlorobenzene          | 50.0000           | 51.6113           | 3.2  | 50.0      |
| 7 2-Methylphenol               | 50.0000           | 52.2541           | 4.5  | 50.0      |
| 8 2,2'-oxybis(1-Chloropropane) | 50.0000           | 55.1111           | 10.2 | 50.0      |
| 18 N-Nitroso-di-n-propylamine  | 50.0000           | 52.5136           | 5.0  | 50.0      |
| 9 4-Methylphenol               | 50.0000           | 52.1625           | 4.3  | 50.0      |
| 12 Hexachloroethane            | 50.0000           | 51.4591           | 2.9  | 50.0      |
| 181 Nitrobenzene-d5            | 50.0000           | 51.3188           | 2.6  | 50.0      |
| 13 Nitrobenzene                | 50.0000           | 53.3090           | 6.6  | 50.0      |
| 14 Isophorone                  | 50.0000           | 52.6524           | 5.3  | 50.0      |
| 15 2-Nitrophenol               | 50.0000           | 52.2537           | 4.5  | 20.0      |
| 16 2,4-Dimethylphenol          | 50.0000           | 53.0485           | 6.1  | 50.0      |
| 17 bis(2-Chloroethoxy)methane  | 50.0000           | 52.6223           | 5.2  | 50.0      |
| 71 Benzoic Acid                | 50.0000           | 50.4998           | 1.0  | 50.0      |
| 18 2,4-Dichlorophenol          | 50.0000           | 52.0278           | 4.1  | 20.0      |
| 19 1,2,4-Trichlorobenzene      | 50.0000           | 51.9420           | 3.9  | 50.0      |
| 32 Naphthalene-d8              | 40.0000           | 40.0000           | 0.0  | 50.0      |
| 20 Naphthalene                 | 50.0000           | 53.5642           | 7.1  | 50.0      |
| 21 4-Chloroaniline             | 50.0000           | 51.8968           | 3.8  | 50.0      |
| 22 Hexachlorobutadiene         | 50.0000           | 51.0986           | 2.2  | 20.0      |
| 23 4-Chloro-3-Methylphenol     | 50.0000           | 51.3105           | 2.6  | 20.0      |
| 24 2-Methylnaphthalene         | 50.0000           | 52.2587           | 4.5  | 50.0      |
| 205 1-Methylnaphthalene        | 50.0000           | 49.7211           | 0.6  | 50.0      |
| 25 Hexachlorocyclopentadiene   | 50.0000           | 42.1469           | 15.7 | 50.0      |
| 26 2,4,6-Trichlorophenol       | 50.0000           | 52.3030           | 4.6  | 20.0      |

CONTINUING CALIBRATION COMPOUNDS  
 PERCENT DRIFT REPORT

674 246

Instrument ID: 722.i  
 Lab File ID: F11090C1.D  
 Analysis Type: NONE

Injection Date: 09-NOV-2000 08:31  
 Lab Sample ID: sstd050  
 Method File: \\QPITPA02\D\chem\722.i\110900.b\

| COMPOUND                      | EXPECTED<br>CONC. | MEASURED<br>CONC. | %D   | MAX<br>%D |
|-------------------------------|-------------------|-------------------|------|-----------|
| 27 2,4,5-Trichlorophenol      | 50.0000           | 50.8107           | 1.6  | 50.0      |
| 182 2-Fluorobiphenyl          | 50.0000           | 51.1737           | 2.3  | 50.0      |
| 28 2-Chloronaphthalene        | 50.0000           | 51.8852           | 3.8  | 50.0      |
| 29 2-Nitroaniline             | 50.0000           | 52.5495           | 5.1  | 50.0      |
| 30 Dimethylphthalate          | 50.0000           | 51.8974           | 3.8  | 50.0      |
| 31 Acenaphthylene             | 50.0000           | 52.3159           | 4.6  | 50.0      |
| 32 2,6-Dinitrotoluene         | 50.0000           | 50.5919           | 1.2  | 50.0      |
| 52 Acenaphthene-d10           | 40.0000           | 40.0000           | 0.0  | 50.0      |
| 33 3-Nitroaniline             | 50.0000           | 50.9102           | 1.8  | 50.0      |
| 34 Acenaphthene               | 50.0000           | 52.2659           | 4.5  | 20.0      |
| 35 2,4-Dinitrophenol          | 50.0000           | 47.2123           | 5.6  | 50.0      |
| 37 Dibenzofuran               | 50.0000           | 52.5378           | 5.1  | 50.0      |
| 36 4-Nitrophenol              | 50.0000           | 45.8170           | 8.4  | 50.0      |
| 38 2,4-Dinitrotoluene         | 50.0000           | 50.5287           | 1.1  | 50.0      |
| 77 2,3,5,6-Tetrachlorophenol  | 50.0000           | 48.2092           | 3.6  | 50.0      |
| 114 2-Naphthylamine           | 50.0000           | 52.1073           | 4.2  | 50.0      |
| 76 2,3,4,6-Tetrachlorophenol  | 50.0000           | 46.1448           | 7.7  | 50.0      |
| 39 Diethylphthalate           | 50.0000           | 50.7273           | 1.5  | 50.0      |
| 41 Fluorene                   | 50.0000           | 51.6797           | 3.4  | 50.0      |
| 40 4-Chlorophenyl-phenylether | 50.0000           | 51.1143           | 2.2  | 50.0      |
| 42 4-Nitroaniline             | 50.0000           | 49.8693           | 0.3  | 50.0      |
| 43 4,6-Dinitro-2-methylphenol | 50.0000           | 48.1561           | 3.7  | 50.0      |
| 44 N-Nitrosodiphenylamine     | 50.0000           | 41.4619           | 17.1 | 20.0      |
| 78 1,2-Diphenylhydrazine      | 50.0000           | 51.8119           | 3.6  | 50.0      |
| 186 2,4,6-Tribromophenol      | 50.0000           | 49.8943           | 0.2  | 50.0      |
| 45 4-Bromophenyl-phenylether  | 50.0000           | 51.5350           | 3.1  | 50.0      |
| 46 Hexachlorobenzene          | 50.0000           | 50.9947           | 2.0  | 50.0      |
| 47 Pentachlorophenol          | 50.0000           | 42.5775           | 14.8 | 20.0      |
| 78 Phenanthrene-d10           | 40.0000           | 40.0000           | 0.0  | 50.0      |
| 48 Phenanthrene               | 50.0000           | 52.0941           | 4.2  | 50.0      |
| 49 Anthracene                 | 50.0000           | 51.7241           | 3.4  | 50.0      |
| 50 Carbazole                  | 50.0000           | 50.6668           | 1.3  | 50.0      |
| 51 Di-n-Butylphthalate        | 50.0000           | 49.9722           | 0.1  | 50.0      |
| 52 Fluoranthene               | 50.0000           | 49.6265           | 0.7  | 20.0      |
| 79 Benzidine                  | 50.0000           | 44.7409           | 10.5 | 50.0      |
| 53 Pyrene                     | 50.0000           | 54.5799           | 9.2  | 50.0      |
| 183 Terphenyl-d14             | 50.0000           | 51.6516           | 3.3  | 50.0      |
| 54 Butylbenzylphthalate       | 50.0000           | 53.0129           | 6.0  | 50.0      |
| 56 Benzo(a)Anthracene         | 50.0000           | 52.3512           | 4.7  | 50.0      |

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

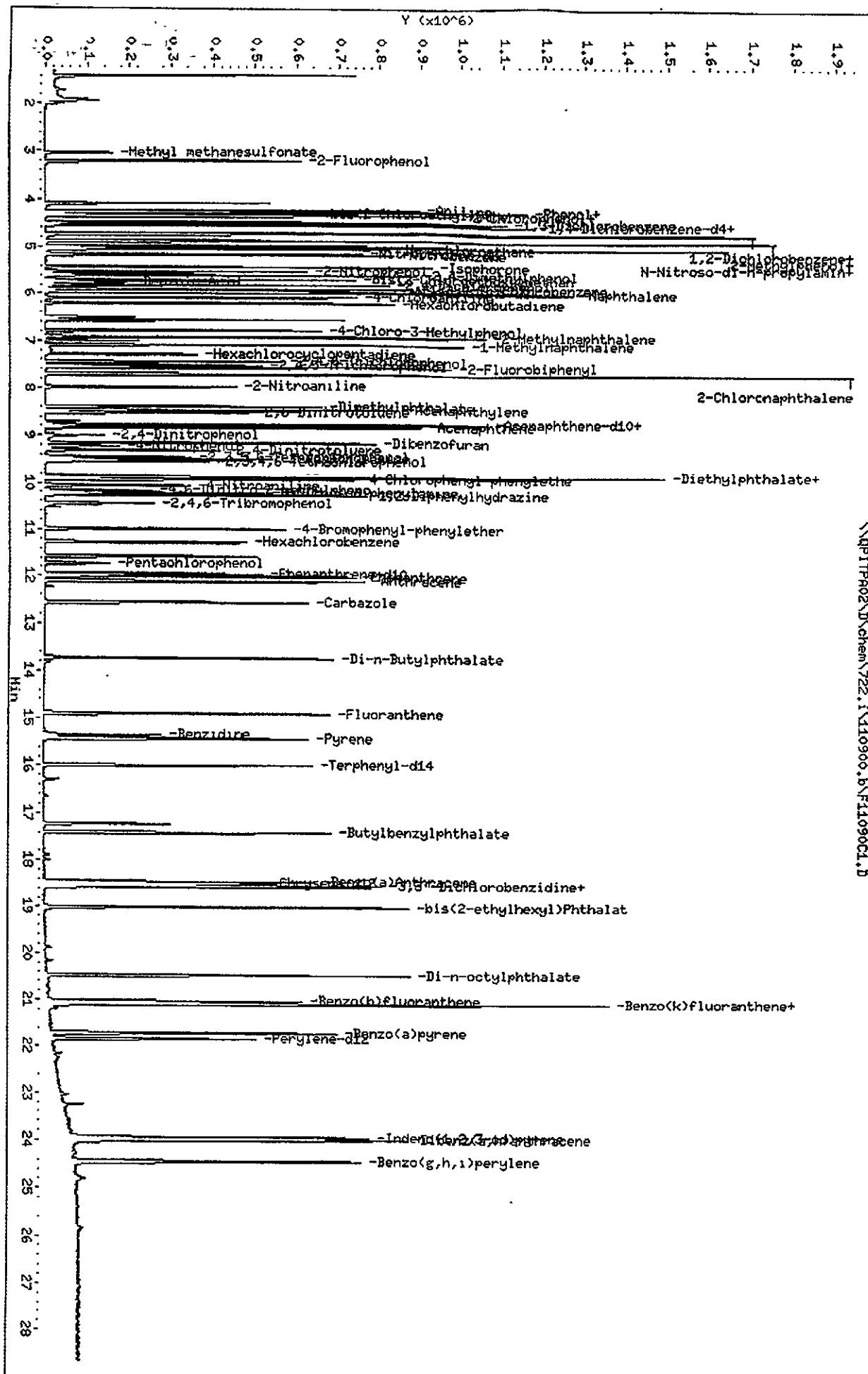
Instrument ID: 722.i  
Lab File ID: F11090C1.D  
Analysis Type: NONE

Injection Date: 09-NOV-2000 08:31  
Lab Sample ID: sstd050  
Method File: \\QPITPA02\D\chem\722.i\110900.b\

| COMPOUND                          | EXPECTED<br>CONC. | MEASURED<br>CONC. | %D   | MAX<br>%D |
|-----------------------------------|-------------------|-------------------|------|-----------|
| 90 Chrysene-d12                   | 40.0000           | 40.0000           | 0.0  | 50.0      |
| 55 3,3'-Dichlorobenzidine         | 50.0000           | 47.4849           | 5.0  | 50.0      |
| 57 Chrysene                       | 50.0000           | 51.7784           | 3.6  | 50.0      |
| 58 bis (2-ethylhexyl) Phthalate   | 50.0000           | 52.8907           | 5.8  | 50.0      |
| 59 Di-n-octylphthalate            | 50.0000           | 55.2738           | 10.5 | 20.0      |
| 60 Benzo(b)fluoranthene           | 50.0000           | 49.2953           | 1.4  | 50.0      |
| 61 Benzo(k)fluoranthene           | 50.0000           | 53.5345           | 7.1  | 50.0      |
| 143 7,12-dimethylbenz[a]anthracen | 50.0000           | 49.1391           | 1.7  | 50.0      |
| 62 Benzo(a)pyrene                 | 50.0000           | 52.4275           | 4.9  | 20.0      |
| 101 Perylene-d12                  | 40.0000           | 40.0000           | 0.0  | 50.0      |
| 63 Indeno(1,2,3-cd)pyrene         | 50.0000           | 51.5081           | 3.0  | 50.0      |
| 64 Dibenz(a,h)anthracene          | 50.0000           | 51.5369           | 3.1  | 50.0      |
| 65 Benzo(g,h,i)perylene           | 50.0000           | 51.2817           | 2.6  | 50.0      |

Data File: \\QIPITPA02\chem\722.i\110900.b\F1109001.D  
 Date: 09-NOV-2000 08:31  
 Client ID:  
 Sample Info: SST0050 (25ppb) 77-04-13  
 Volume Injected (uL): 2.0  
 Column phase: HP5-MS

Instrument: 722.i  
 Operator: 007062  
 Column diameter: 0.25



674 249

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\qpitpa02\d\chem\722.i\110900.b\F11090C1.D  
Lab Smp Id: sstd050 Client Smp ID: SSTD050  
Inj Date : 09-NOV-2000 08:31  
Operator : 007062 Inst ID: 722.i  
Smp Info : SSTD050 (25ppb) 77-04-13  
Misc Info : sstd050,110900.b,8270b.m,2-root.sub,2,2  
Comment :  
Method : \\QPITPA02\D\chem\722.i\110900.b\8270b.m  
Meth Date : 09-Nov-2000 09:10 BungardF Quant Type: ISTD  
Cal Date : 08-NOV-2000 15:59 Cal File: F11080C5.D  
Als bottle: 2 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 2-root.sub  
Target Version: 4.04  
Processing Host: PITPC062

*[Handwritten signature]*  
11/9/00

|           |                              |           |        |        |         | AMOUNTS  |         |        |
|-----------|------------------------------|-----------|--------|--------|---------|----------|---------|--------|
|           |                              | QUANT SIG |        |        |         |          | CAL-AMT | ON-COL |
| Compounds |                              | MASS      | RT     | EXP RT | REL RT  | RESPONSE | ( NG)   | ( NG)  |
| -----     |                              | ----      | --     | -----  | -----   | -----    | -----   | -----  |
| * 1       | 1,4-Dichlorobenzene-d4       | 152       | 4.534  | 4.534  | (1.000) | 122914   | 40.0000 |        |
| * 2       | Naphthalene-d8               | 136       | 5.949  | 5.949  | (1.000) | 454755   | 40.0000 |        |
| * 3       | Acenaphthene-d10             | 164       | 8.770  | 8.770  | (1.000) | 230342   | 40.0000 |        |
| * 4       | Phenanthrene-d10             | 188       | 11.959 | 11.959 | (1.000) | 363297   | 40.0000 |        |
| * 5       | Chrysene-d12                 | 240       | 18.509 | 18.509 | (1.000) | 371769   | 40.0000 |        |
| * 6       | Perylene-d12                 | 264       | 21.842 | 21.842 | (1.000) | 390180   | 40.0000 |        |
| 10        | N-Nitrosodimethylamine       | 74        | 1.392  | 1.392  | (0.307) | 148570   | 50.0000 | 51.6   |
| 9         | Pyridine                     | 79        | 1.387  | 1.387  | (0.306) | 244926   | 50.0000 | 47.3   |
| 16        | Methyl methanesulfonate      | 80        | 3.033  | 3.033  | (0.669) | 81012    | 50.0000 | 32.4   |
| 21        | Aniline                      | 93        | 4.251  | 4.251  | (0.938) | 347127   | 50.0000 | 49.0   |
| 22        | Phenol                       | 94        | 4.283  | 4.283  | (0.945) | 299945   | 50.0000 | 52.8   |
| 23        | bis(2-Chloroethyl)ether      | 93        | 4.325  | 4.325  | (0.954) | 239927   | 50.0000 | 52.2   |
| 24        | 2-Chlorophenol               | 128       | 4.363  | 4.363  | (0.962) | 225260   | 50.0000 | 52.3   |
| 26        | 1,3-Dichlorobenzene          | 146       | 4.496  | 4.496  | (0.992) | 248805   | 50.0000 | 52.6   |
| 27        | 1,4-Dichlorobenzene          | 146       | 4.550  | 4.550  | (1.004) | 252664   | 50.0000 | 52.0   |
| 28        | 1,2-Dichlorobenzene          | 146       | 4.742  | 4.742  | (1.046) | 236010   | 50.0000 | 51.6   |
| 29        | Benzyl Alcohol               | 108       | 4.721  | 4.721  | (1.041) | 149829   | 50.0000 | 49.4   |
| 30        | 2-Methylphenol               | 108       | 4.881  | 4.881  | (1.077) | 206260   | 50.0000 | 52.2   |
| 31        | 2,2'-oxybis(1-Chloropropane) | 45        | 4.881  | 4.881  | (1.077) | 349675   | 50.0000 | 55.1   |
| 32        | N-Nitroso-di-n-propylamine   | 70        | 5.025  | 5.025  | (1.108) | 190362   | 50.0000 | 52.5   |
| 192       | 4-Methylphenol               | 108       | 5.030  | 5.030  | (1.110) | 216213   | 50.0000 | 52.2   |
| 34        | Hexachloroethane             | 117       | 5.052  | 5.052  | (1.114) | 104752   | 50.0000 | 51.4   |
| 35        | Nitrobenzene                 | 77        | 5.169  | 5.169  | (0.869) | 288244   | 50.0000 | 53.3   |
| 41        | Isophorone                   | 82        | 5.426  | 5.426  | (0.912) | 450606   | 50.0000 | 52.6   |
| 42        | 2-Nitrophenol                | 139       | 5.527  | 5.527  | (0.929) | 118976   | 50.0000 | 52.2   |
| 43        | 2,4-Dimethylphenol           | 107       | 5.602  | 5.602  | (0.942) | 230515   | 50.0000 | 53.0   |

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| Compounds                      | QUANT SIG | AMOUNTS |        |         |        |          |                  |                 |
|--------------------------------|-----------|---------|--------|---------|--------|----------|------------------|-----------------|
|                                |           | MASS    | RT     | EXP RT  | REL RT | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| =====                          | =====     | =====   | =====  | =====   | =====  | =====    | =====            | =====           |
| 44 bis (2-Chloroethoxy)methane | 93        | 5.704   | 5.704  | (0.959) | 274959 | 50.0000  | 52.6             |                 |
| 48 2,4-Dichlorophenol          | 162       | 5.816   | 5.816  | (0.978) | 172218 | 50.0000  | 52.0             |                 |
| 49 Benzoic Acid                | 122       | 5.768   | 5.768  | (0.969) | 86651  | 50.0000  | 50.5             |                 |
| 50 1,2,4-Trichlorobenzene      | 180       | 5.907   | 5.907  | (0.993) | 183086 | 50.0000  | 51.9             |                 |
| 51 Naphthalene                 | 128       | 5.976   | 5.976  | (1.004) | 662563 | 50.0000  | 53.6             |                 |
| 52 4-Chloroaniline             | 127       | 6.088   | 6.088  | (1.023) | 248346 | 50.0000  | 51.9             |                 |
| 56 Hexachlorobutadiene         | 225       | 6.216   | 6.216  | (1.045) | 109662 | 50.0000  | 51.1             |                 |
| 59 4-Chloro-3-Methylphenol     | 107       | 6.793   | 6.793  | (1.142) | 193773 | 50.0000  | 51.3             |                 |
| 62 2-Methylnaphthalene         | 142       | 6.932   | 6.932  | (1.165) | 401697 | 50.0000  | 52.2             |                 |
| 205 1-Methylnaphthalene        | 142       | 7.098   | 7.098  | (1.193) | 365007 | 50.0000  | 49.7             |                 |
| 64 Hexachlorocyclopentadiene   | 237       | 7.290   | 7.290  | (0.831) | 63898  | 50.0000  | 42.1             |                 |
| 66 2,4,6-Trichlorophenol       | 196       | 7.445   | 7.445  | (0.849) | 101302 | 50.0000  | 52.3             |                 |
| 67 2,4,5-Trichlorophenol       | 196       | 7.520   | 7.520  | (0.857) | 103750 | 50.0000  | 50.8             |                 |
| 70 2-Chloronaphthalene         | 162       | 7.718   | 7.718  | (0.880) | 362584 | 50.0000  | 51.9             |                 |
| 73 2-Nitroaniline              | 65        | 7.985   | 7.985  | (0.910) | 145202 | 50.0000  | 52.5             |                 |
| 76 Dimethylphthalate           | 163       | 8.401   | 8.401  | (0.958) | 387548 | 50.0000  | 51.9             |                 |
| 78 2,6-Dinitrotoluene          | 165       | 8.524   | 8.524  | (0.972) | 85555  | 50.0000  | 50.6             |                 |
| 79 Acenaphthylene              | 152       | 8.471   | 8.471  | (0.966) | 579722 | 50.0000  | 52.3             |                 |
| 81 3-Nitroaniline              | 138       | 8.775   | 8.775  | (1.001) | 100264 | 50.0000  | 50.9             |                 |
| 82 Acenaphthene                | 153       | 8.834   | 8.834  | (1.007) | 360733 | 50.0000  | 52.3             |                 |
| 83 2,4-Dinitrophenol           | 184       | 8.994   | 8.994  | (1.026) | 37413  | 50.0000  | 47.2             |                 |
| 85 4-Nitrophenol               | 109       | 9.219   | 9.219  | (1.051) | 47585  | 50.0000  | 45.8             |                 |
| 86 Dibenzofuran                | 168       | 9.155   | 9.155  | (1.044) | 488623 | 50.0000  | 52.5             |                 |
| 87 2,4-Dinitrotoluene          | 165       | 9.304   | 9.304  | (1.061) | 115052 | 50.0000  | 50.5             |                 |
| 91 2,3,5,6-Tetrachlorophenol   | 232       | 9.443   | 9.443  | (1.077) | 70103  | 50.0000  | 48.2             |                 |
| 88 2,3,4,6-Tetrachlorophenol   | 232       | 9.534   | 9.534  | (1.087) | 70562  | 50.0000  | 46.1             |                 |
| 92 2-Naphthylamine             | 143       | 9.497   | 9.497  | (1.083) | 310702 | 50.0000  | 52.1             |                 |
| 93 Diethylphthalate            | 149       | 9.870   | 9.870  | (1.125) | 403678 | 50.0000  | 50.7             |                 |
| 94 Fluorene                    | 166       | 9.870   | 9.870  | (1.125) | 400592 | 50.0000  | 51.7             |                 |
| 95 4-Chlorophenyl-phenylether  | 204       | 9.924   | 9.924  | (1.132) | 183682 | 50.0000  | 51.1             |                 |
| 96 4-Nitroaniline              | 138       | 10.057  | 10.057 | (1.147) | 95667  | 50.0000  | 49.9             |                 |
| 98 4,6-Dinitro-2-methylphenol  | 198       | 10.170  | 10.170 | (0.850) | 58328  | 50.0000  | 48.2             |                 |
| 99 N-Nitrosodiphenylamine      | 169       | 10.212  | 10.212 | (0.854) | 212775 | 50.0000  | 41.5             |                 |
| 100 1,2-Diphenylhydrazine      | 77        | 10.260  | 10.260 | (0.858) | 545029 | 50.0000  | 51.8             |                 |
| 106 4-Bromophenyl-phenylether  | 248       | 10.992  | 10.992 | (0.919) | 102757 | 50.0000  | 51.5             |                 |
| 107 Hexachlorobenzene          | 284       | 11.281  | 11.281 | (0.943) | 109664 | 50.0000  | 51.0             |                 |
| 111 Pentachlorophenol          | 266       | 11.735  | 11.735 | (0.981) | 32635  | 50.0000  | 42.6             |                 |
| 115 Phenanthrene               | 178       | 12.013  | 12.013 | (1.004) | 528784 | 50.0000  | 52.1             |                 |
| 116 Anthracene                 | 178       | 12.114  | 12.114 | (1.013) | 544110 | 50.0000  | 51.7             |                 |
| 119 Carbazole                  | 167       | 12.574  | 12.574 | (1.051) | 483744 | 50.0000  | 50.7             |                 |
| 120 Di-n-Butylphthalate        | 149       | 13.727  | 13.727 | (1.148) | 616094 | 50.0000  | 50.0             |                 |
| 123 Fluoranthene               | 202       | 14.897  | 14.897 | (1.246) | 531124 | 50.0000  | 49.6             |                 |
| 124 Benzidine                  | 184       | 15.351  | 15.351 | (0.829) | 220793 | 50.0000  | 44.7             |                 |
| 125 Pyrene                     | 202       | 15.426  | 15.426 | (0.833) | 533971 | 50.0000  | 54.6             |                 |
| 131 Butylbenzylphthalate       | 149       | 17.419  | 17.419 | (0.941) | 281396 | 50.0000  | 53.0             |                 |
| 135 3,3'-Dichlorobenzidine     | 252       | 18.546  | 18.546 | (1.002) | 187581 | 50.0000  | 47.5             |                 |
| 136 Benzo(a)Anthracene         | 228       | 18.471  | 18.471 | (0.998) | 512655 | 50.0000  | 52.4             |                 |

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| Compounds                         | QUANT SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS          |                 |
|-----------------------------------|-------------------|--------|--------|---------|----------|------------------|-----------------|
|                                   |                   |        |        |         |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| =====                             | =====             | ==     | =====  | =====   | =====    | =====            | =====           |
| 137 Chrysene                      | 228               | 18.567 | 18.567 | (1.003) | 493273   | 50.0000          | 51.8            |
| 139 bis(2-ethylhexyl)Phthalate    | 149               | 19.011 | 19.011 | (1.027) | 402982   | 50.0000          | 52.9            |
| 140 Di-n-octylphthalate           | 149               | 20.469 | 20.469 | (0.937) | 747894   | 50.0000          | 55.3            |
| 141 Benzo(b)fluoranthene          | 252               | 21.041 | 21.041 | (0.963) | 579564   | 50.0000          | 49.3            |
| 142 Benzo(k)fluoranthene          | 252               | 21.094 | 21.094 | (0.966) | 640862   | 50.0000          | 53.5            |
| 143 7,12-dimethylbenz(a)anthracen | 256               | 21.094 | 21.094 | (0.966) | 272144   | 50.0000          | 49.1            |
| 146 Benzo(a)pyrene                | 252               | 21.719 | 21.719 | (0.994) | 571443   | 50.0000          | 52.4            |
| 149 Indeno(1,2,3-cd)pyrene        | 276               | 23.963 | 23.963 | (1.097) | 794376   | 50.0000          | 51.5            |
| 150 Dibenz(a,h)anthracene         | 278               | 24.006 | 24.006 | (1.099) | 689018   | 50.0000          | 51.5            |
| 151 Benzo(g,h,i)perylene          | 276               | 24.460 | 24.460 | (1.120) | 686875   | 50.0000          | 51.3            |
| \$ 154 Nitrobenzene-d5            | 82                | 5.153  | 5.153  | (0.866) | 277059   | 50.0000          | 51.3            |
| \$ 155 2-Fluorobiphenyl           | 172               | 7.568  | 7.568  | (0.863) | 404473   | 50.0000          | 51.2            |
| \$ 156 Terphenyl-d14              | 244               | 15.993 | 15.993 | (0.864) | 418983   | 50.0000          | 51.6            |
| \$ 157 Phenol-d5                  | 99                | 4.272  | 4.272  | (0.942) | 279095   | 50.0000          | 51.0            |
| \$ 158 2-Fluorophenol             | 112               | 3.214  | 3.214  | (0.709) | 201347   | 50.0000          | 50.7            |
| \$ 159 2,4,6-Tribromophenol       | 330               | 10.447 | 10.447 | (0.874) | 44922    | 50.0000          | 49.9            |
| \$ 186 2-Chlorophenol-d4          | 132               | 4.347  | 4.347  | (0.959) | 197244   | 50.0000          | 50.4            |
| \$ 187 1,2-Dichlorobenzene-d4     | 152               | 4.726  | 4.726  | (1.042) | 147789   | 50.0000          | 49.2            |



674 252

**GC/MS SEMIVOLATILE  
QC DATA**

Date : 08-NOV-2000 12:44

674 253

Client ID: DFTPP02

Instrument: 722.1

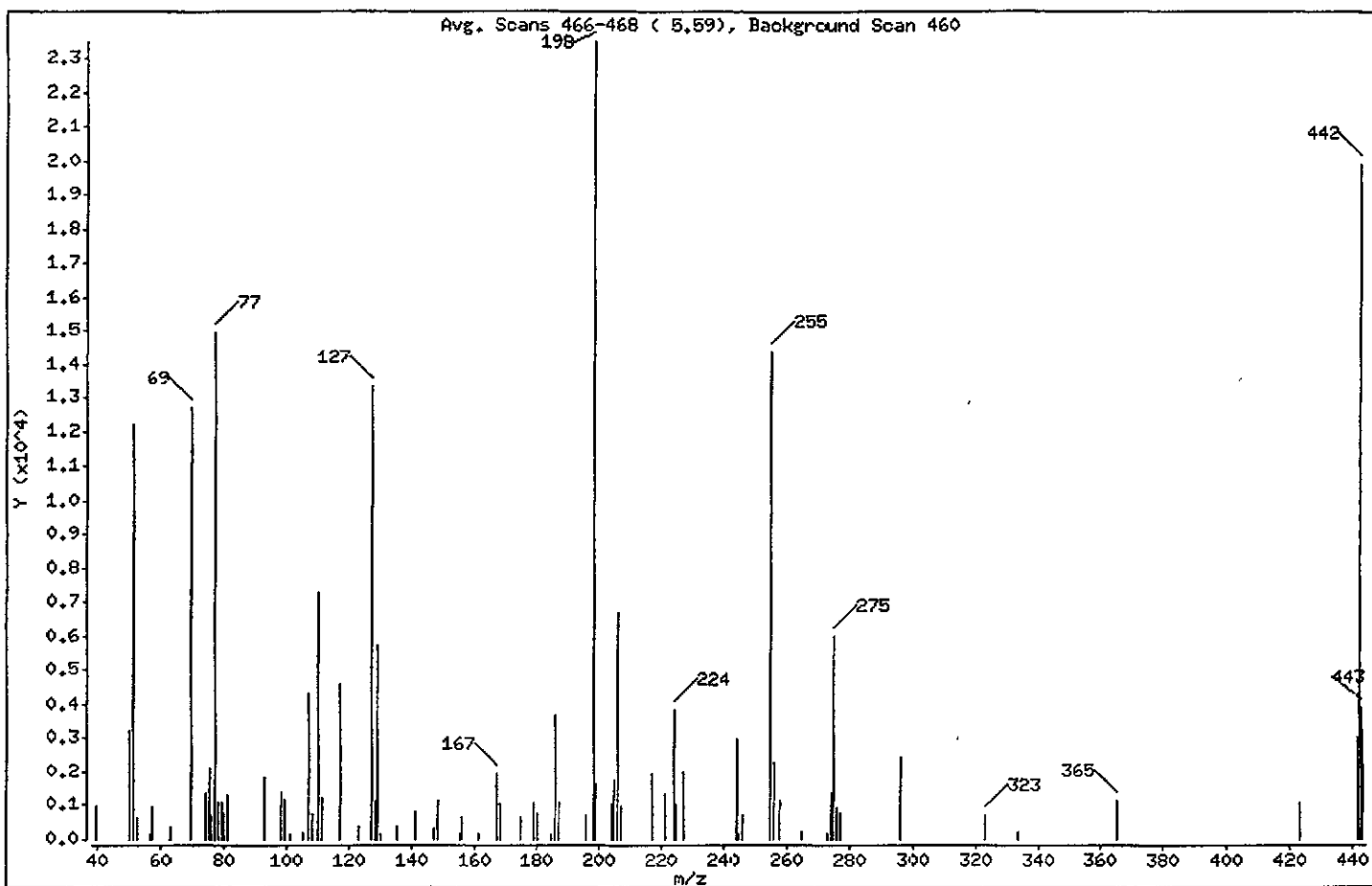
Sample Info: DFTPP050 (25ppb) 194-175-8

Operator: 007062

Column phase:

Column diameter: 2.00

1 dftpp



| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00               |
| 51  | 30.00 - 60.00% of mass 198         | 51.85                |
| 68  | Less than 2.00% of mass 69         | 0.00 ( 0.00)         |
| 69  | Mass 69 relative abundance         | 53.95                |
| 70  | Less than 2.00% of mass 69         | 0.00 ( 0.00)         |
| 127 | 40.00 - 60.00% of mass 198         | 56.84                |
| 197 | Less than 1.00% of mass 198        | 0.00                 |
| 199 | 5.00 - 9.00% of mass 198           | 6.94                 |
| 275 | 10.00 - 30.00% of mass 198         | 25.54                |
| 365 | Greater than 1.00% of mass 198     | 4.84                 |
| 441 | Present, but less than mass 443    | 12.81                |
| 442 | 40.00 - 100.00% of mass 198        | 84.76                |
| 443 | 17.00 - 23.00% of mass 442         | 16.62 ( 19.61)       |

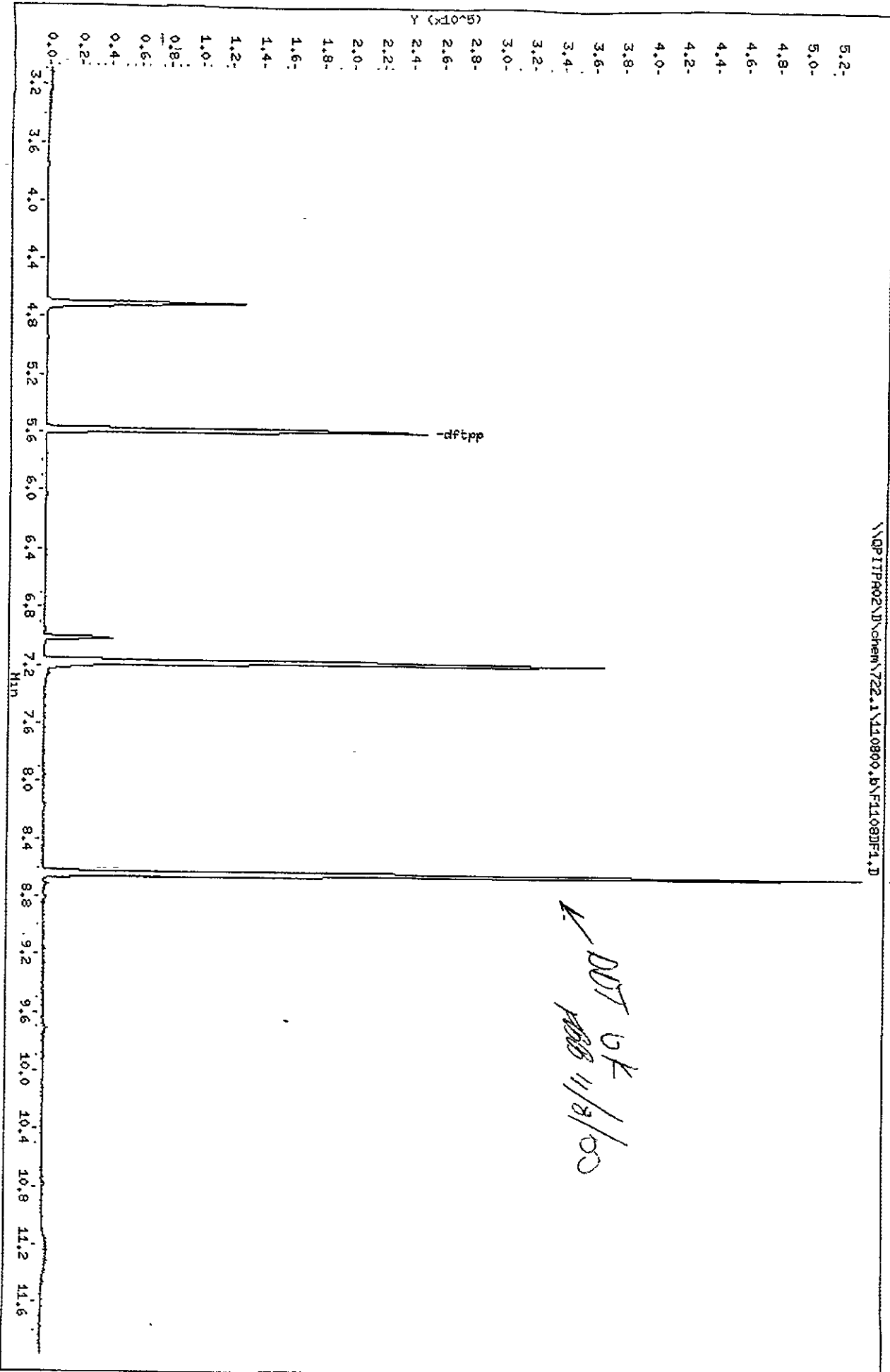
Data File: \\QPI7P002\Nchem\722.1\110800.B\F1108DF1.D  
 Date: 08-NOV-2000 12:44  
 Client ID: DFTPP02  
 Sample Info: DFTPP050 (25ppb) 194-175-8

Column phase:

Instrument: 722.1

Operator: 007062  
 Column diameter: 2.00

\\QPI7P002\Nchem\722.1\110800.B\F1108DF1.D



Date : 08-NOV-2000 12:44

674 255

Client ID: DFTPP02

Instrument: 722.i

Sample Info: DFTPP050 (25ppb) 194-175-8

Operator: 007062

Column phase:

Column diameter: 2.00

Data File: F1108DF1.D

Spectrum: Avg. Scans 466-468 ( 5.59), Background Scan 460

Location of Maximum: 198.00

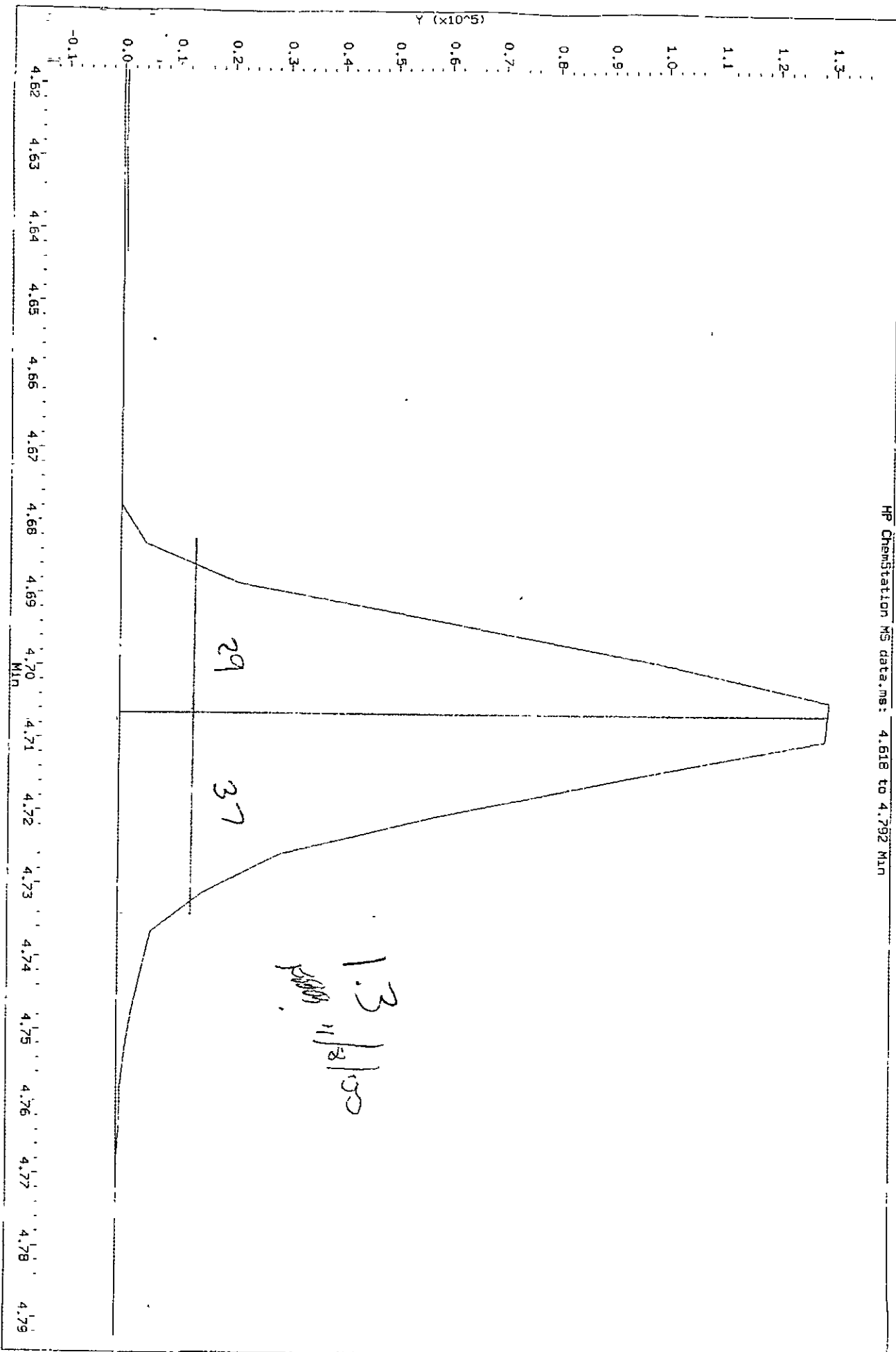
Number of points: 78

| m/z    | Y     | m/z    | Y     | m/z    | Y     | m/z    | Y     |
|--------|-------|--------|-------|--------|-------|--------|-------|
| 39.00  | 966   | 105.00 | 198   | 175.00 | 646   | 246.00 | 716   |
| 50.00  | 3264  | 107.00 | 4302  | 179.00 | 1062  | 255.00 | 14398 |
| 51.00  | 12191 | 108.00 | 761   | 180.00 | 762   | 256.00 | 2260  |
| 52.00  | 631   | 110.00 | 7287  | 185.00 | 180   | 258.00 | 1110  |
| 56.00  | 167   | 111.00 | 1228  | 186.00 | 3663  | 265.00 | 194   |
| 57.00  | 959   | 117.00 | 4618  | 187.00 | 1106  | 273.00 | 184   |
| 63.00  | 376   | 123.00 | 398   | 196.00 | 678   | 274.00 | 1336  |
| 69.00  | 12685 | 127.00 | 13364 | 198.00 | 23512 | 275.00 | 6006  |
| 74.00  | 1339  | 128.00 | 1116  | 199.00 | 1631  | 276.00 | 942   |
| 75.00  | 2122  | 129.00 | 5719  | 204.00 | 1043  | 277.00 | 730   |
| 76.00  | 714   | 130.00 | 178   | 205.00 | 1738  | 296.00 | 2450  |
| 77.00  | 14994 | 135.00 | 357   | 206.00 | 6724  | 323.00 | 685   |
| 78.00  | 1081  | 141.00 | 806   | 207.00 | 971   | 334.00 | 214   |
| 79.00  | 1069  | 147.00 | 350   | 217.00 | 1926  | 365.00 | 1138  |
| 80.00  | 773   | 148.00 | 1117  | 221.00 | 1336  | 423.00 | 1097  |
| 81.00  | 1288  | 155.00 | 169   | 224.00 | 3820  | 441.00 | 3013  |
| 93.00  | 1852  | 156.00 | 653   | 225.00 | 1052  | 442.00 | 19928 |
| 98.00  | 1427  | 161.00 | 169   | 227.00 | 2019  | 443.00 | 3907  |
| 99.00  | 1166  | 167.00 | 1944  | 244.00 | 2987  |        |       |
| 101.00 | 187   | 168.00 | 1005  | 245.00 | 174   |        |       |

952 429

Data File: \\pptipa02\chem\722.1\110800.b\F1108DF1.D  
 Injection Date: 08-NOV-2000 12:44  
 Instrument: 722.1  
 Client Sample ID: DFTPP02

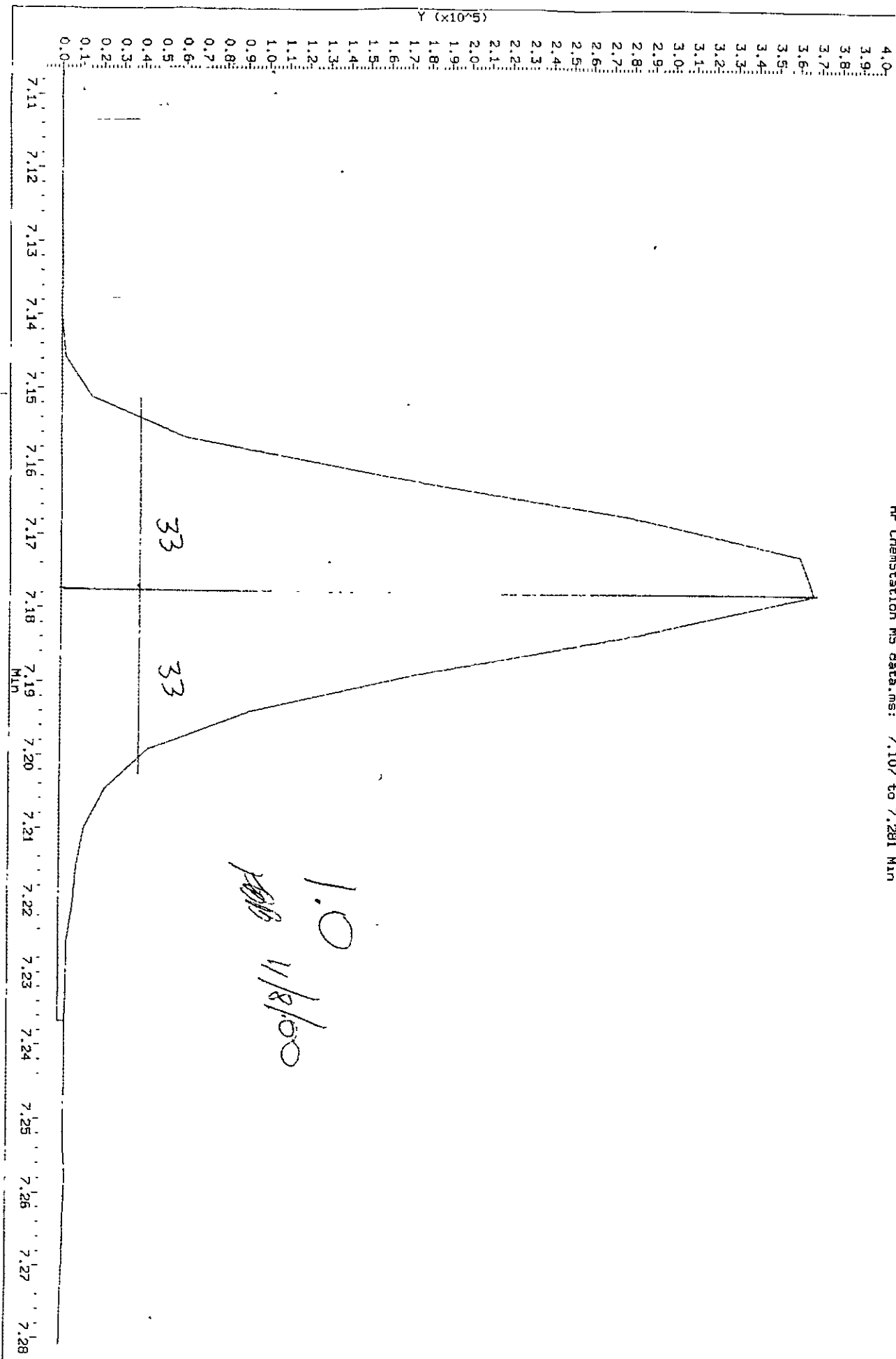
HP ChemStation MS data.ms: 4.618 to 4.792 Min



452 429

Data File: \\qpltp02\d\chem\722.1\110800.b\F11080F1.D  
Injection Date: 08-NOV-2000 12:44  
Instrument: 722.1  
Client Sample ID: DFTPP02

HP ChemStation MS data.ms: 7.107 to 7.281 Min



Date : 09-NOV-2000 08:14

674 258

Client ID: DFTPP02

Instrument: 722.1

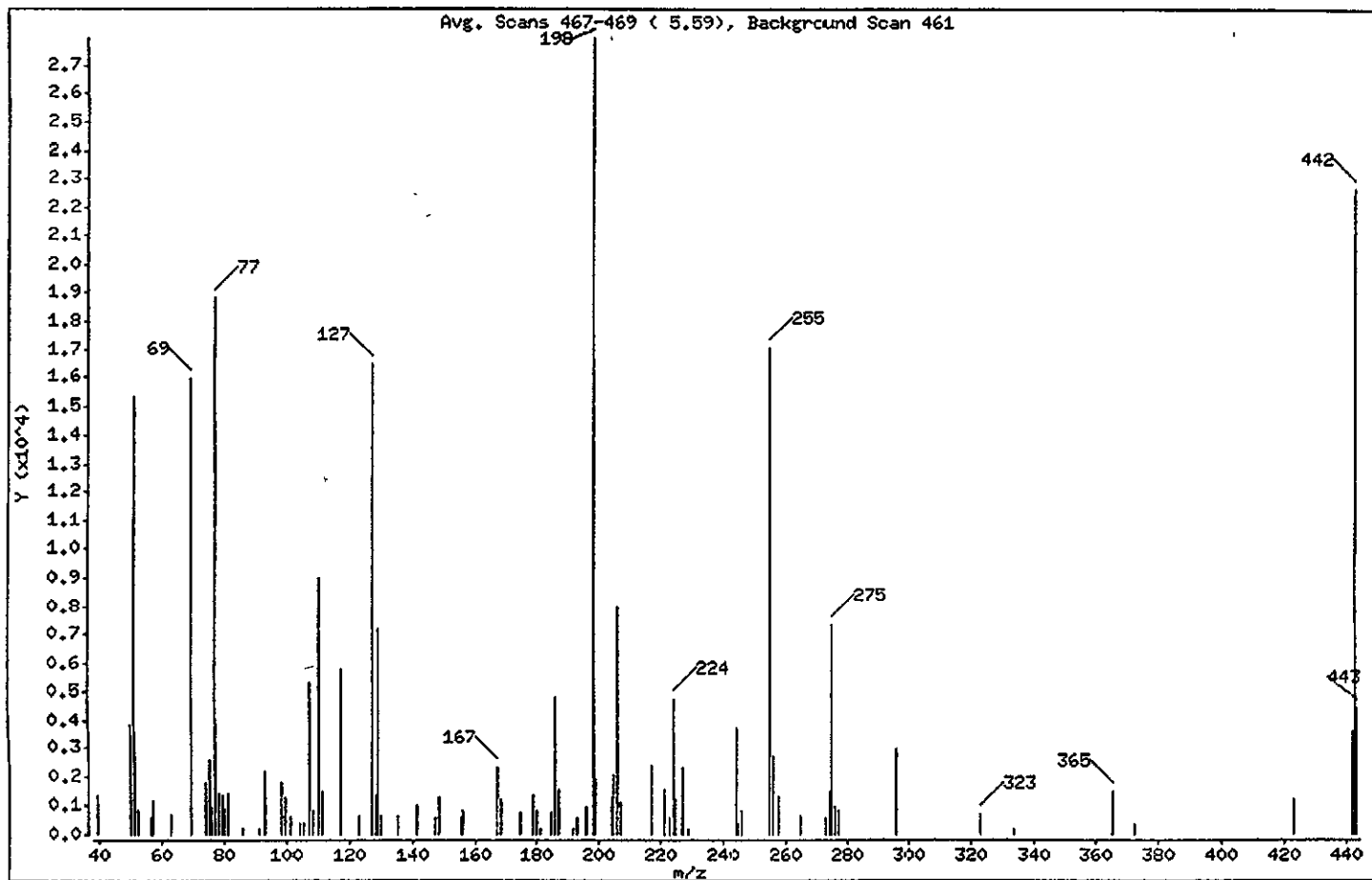
Sample Info: DFTPP050 (25ppb) 194-175-8

Operator: 007062

Column phase:

Column diameter: 2.00

1 dftpp



| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00               |
| 51  | 30.00 - 60.00% of mass 198         | 54.76                |
| 68  | Less than 2.00% of mass 69         | 0.00 ( 0.00)         |
| 69  | Mass 69 relative abundance         | 57.07                |
| 70  | Less than 2.00% of mass 69         | 0.00 ( 0.00)         |
| 127 | 40.00 - 60.00% of mass 198         | 58.83                |
| 197 | Less than 1.00% of mass 198        | 0.00                 |
| 199 | 5.00 - 9.00% of mass 198           | 6.81                 |
| 275 | 10.00 - 30.00% of mass 198         | 26.18                |
| 365 | Greater than 1.00% of mass 198     | 5.30                 |
| 441 | Present, but less than mass 443    | 12.87                |
| 442 | 40.00 - 100.00% of mass 198        | 80.83                |
| 443 | 17.00 - 23.00% of mass 442         | 15.93 ( 19.71)       |

Date : 09-NOV-2000 08:14

Client ID: DFTPP02

Instrument: 722.1

Sample Info: DFTPP050 (25ppb) 194-175-8

Operator: 007062

Column phase:

Column diameter: 2.00

Data File: F1109DF2.D

Spectrum: Avg. Scans 467-469 ( 5.59), Background Scan 461

Location of Maximum: 198.00

Number of points: 86

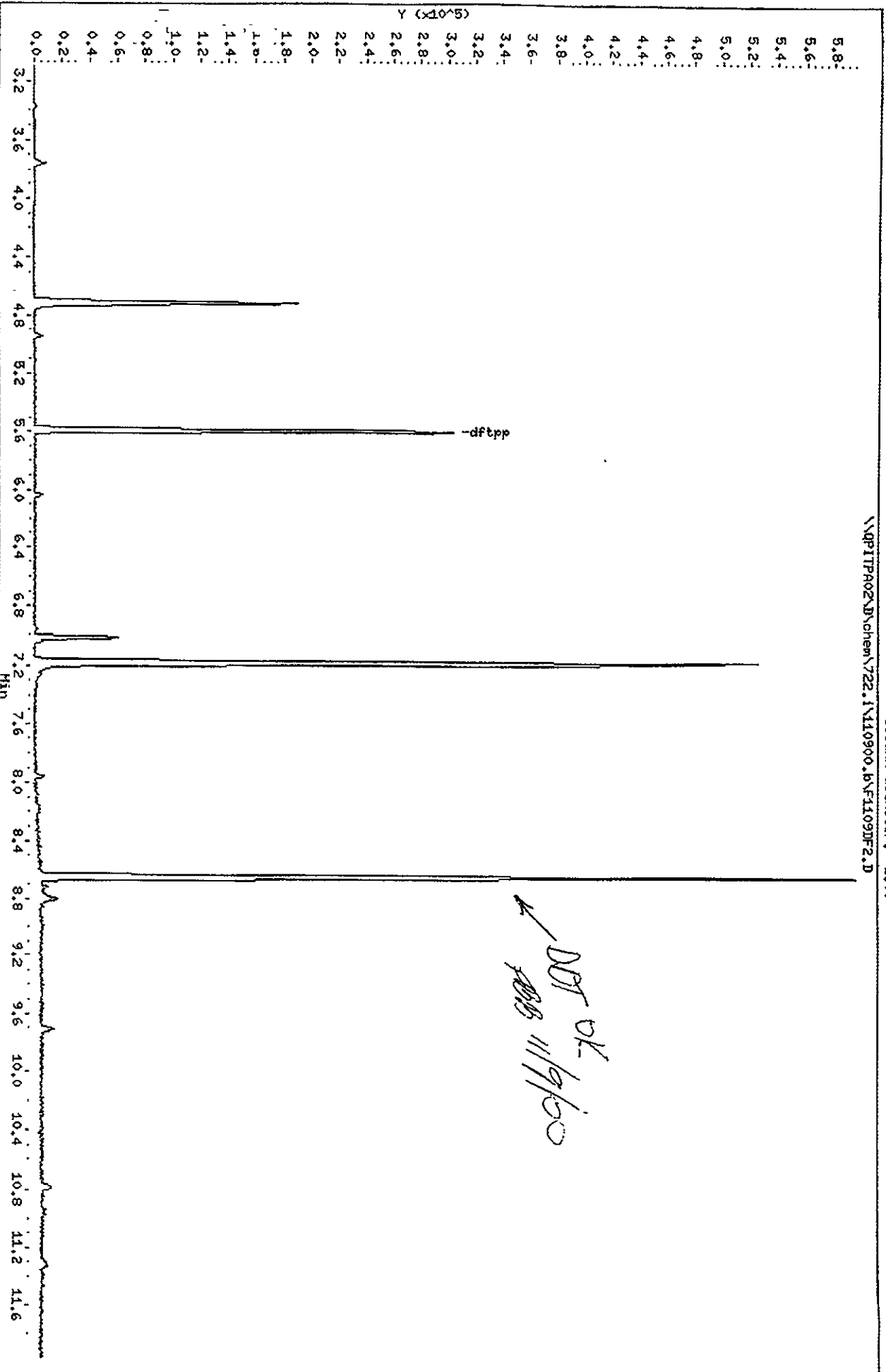
| m/z    | Y     | m/z    | Y     | m/z    | Y     | m/z    | Y     |
|--------|-------|--------|-------|--------|-------|--------|-------|
| -----  |       |        |       |        |       |        |       |
| 39.00  | 1330  | 104.00 | 365   | 180.00 | 817   | 245.00 | 389   |
| 50.00  | 3868  | 105.00 | 363   | 181.00 | 177   | 246.00 | 808   |
| 51.00  | 15311 | 107.00 | 5304  | 185.00 | 751   | 255.00 | 17056 |
| 52.00  | 829   | 108.00 | 820   | 186.00 | 4838  | 256.00 | 2709  |
| 56.00  | 554   | 110.00 | 9003  | 187.00 | 1548  | 258.00 | 1304  |
| -----  |       |        |       |        |       |        |       |
| 57.00  | 1179  | 111.00 | 1498  | 192.00 | 185   | 265.00 | 618   |
| 63.00  | 675   | 117.00 | 5808  | 193.00 | 604   | 273.00 | 600   |
| 69.00  | 15959 | 123.00 | 638   | 196.00 | 939   | 274.00 | 1485  |
| 74.00  | 1830  | 127.00 | 16448 | 198.00 | 27960 | 275.00 | 7321  |
| 75.00  | 2585  | 128.00 | 1380  | 199.00 | 1904  | 276.00 | 990   |
| -----  |       |        |       |        |       |        |       |
| 76.00  | 949   | 129.00 | 7182  | 204.00 | 1266  | 277.00 | 858   |
| 77.00  | 18816 | 130.00 | 613   | 205.00 | 2084  | 296.00 | 2939  |
| 78.00  | 1401  | 135.00 | 636   | 206.00 | 7966  | 323.00 | 707   |
| 79.00  | 1360  | 141.00 | 998   | 207.00 | 1113  | 334.00 | 188   |
| 80.00  | 899   | 147.00 | 583   | 217.00 | 2375  | 365.00 | 1482  |
| -----  |       |        |       |        |       |        |       |
| 81.00  | 1437  | 148.00 | 1316  | 221.00 | 1552  | 372.00 | 378   |
| 86.00  | 182   | 155.00 | 593   | 223.00 | 557   | 423.00 | 1249  |
| 91.00  | 168   | 156.00 | 805   | 224.00 | 4744  | 441.00 | 3600  |
| 93.00  | 2168  | 167.00 | 2332  | 225.00 | 1202  | 442.00 | 22600 |
| 98.00  | 1816  | 168.00 | 1224  | 227.00 | 2337  | 443.00 | 4454  |
| -----  |       |        |       |        |       |        |       |
| 99.00  | 1286  | 175.00 | 793   | 229.00 | 168   |        |       |
| 101.00 | 653   | 179.00 | 1371  | 244.00 | 3712  |        |       |
| -----  |       |        |       |        |       |        |       |



Data File: \\QPIPPA02\chem\722.1\110900.b\F1109DF2.D  
 Date: 09-NOV-2000 08:14  
 Client ID: DFTPP02  
 Sample Info: DFTPP050 (25ppb) 194-175-8

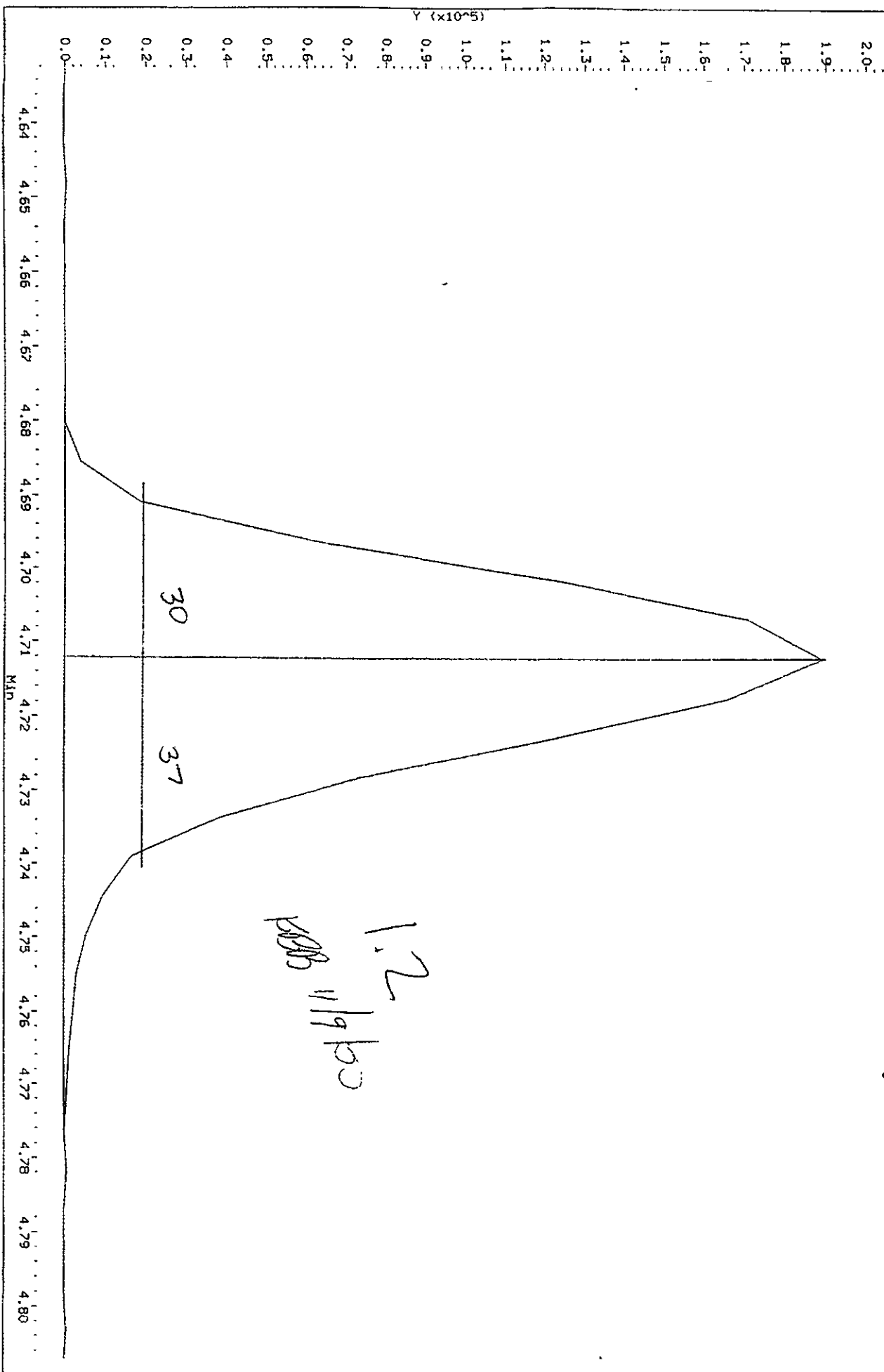
Instrument: 722.1  
 Operator: 007062  
 Column diameter: 2.00

\\QPIPPA02\chem\722.1\110900.b\F1109DF2.D



Data File: \\ngitp02\d\chem\722.1\110900.b\F1109DF2.D  
 Injection Date: 09-NOV-2000 08:14  
 Instrument: 722.1  
 Client Sample ID: DF1P02

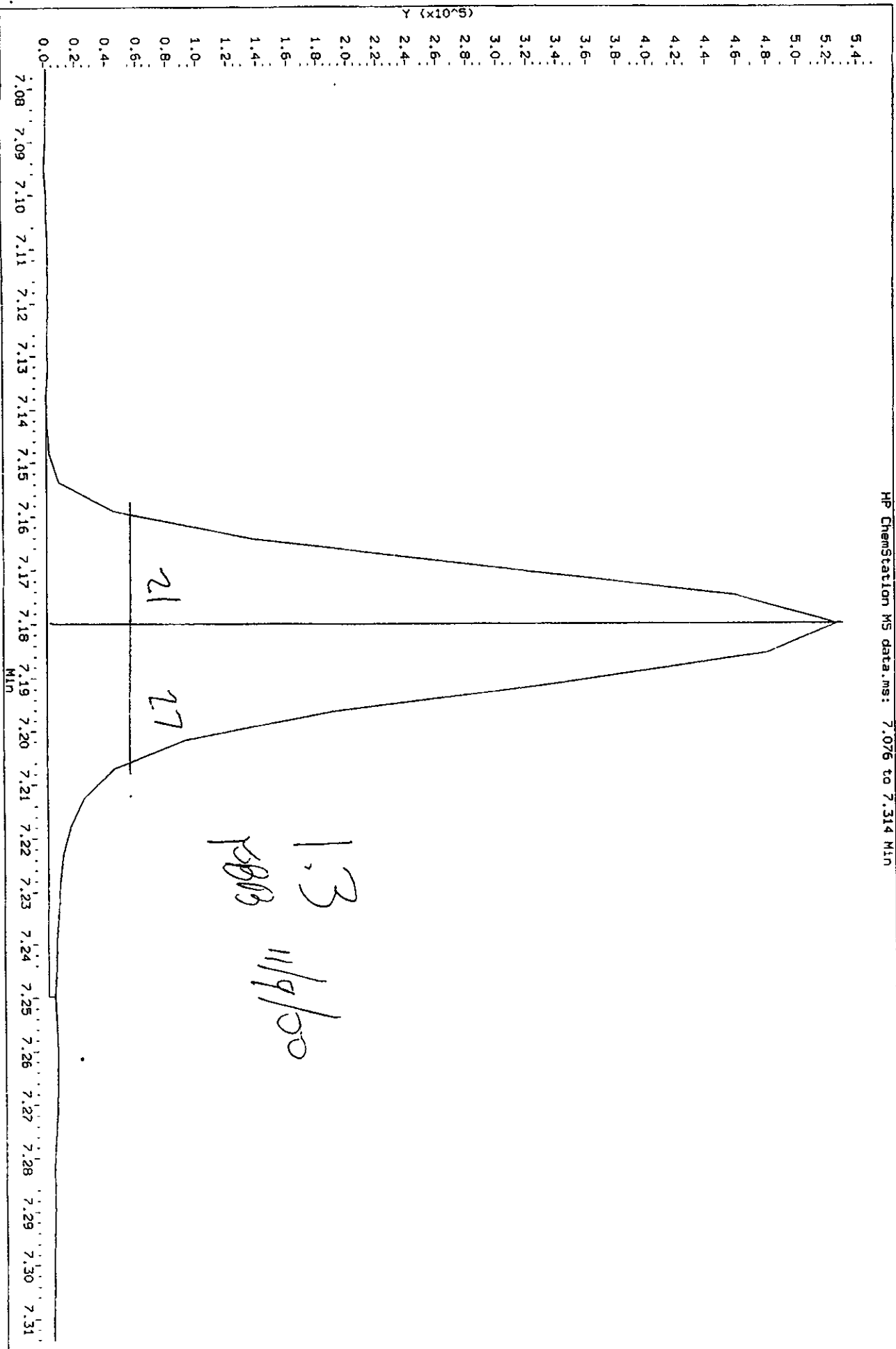
HP ChemStation MS data.ms: 4.633 to 4.807 Min



674 262

Data File: \\gpltpa02\chem\722.1\110900.b\F1109DF2.D  
 Injection Date: 09-NOV-2000 08:14  
 Instrument: 722.1  
 Client Sample ID: DFTPP02

HP ChemStation MS data.ms: 7.076 to 7.314 Min



UXB INTERNATIONAL  
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COK070000 126

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 10/31/00

Work Order: DPFJJ1AA

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/09/00

Moisture %: NA

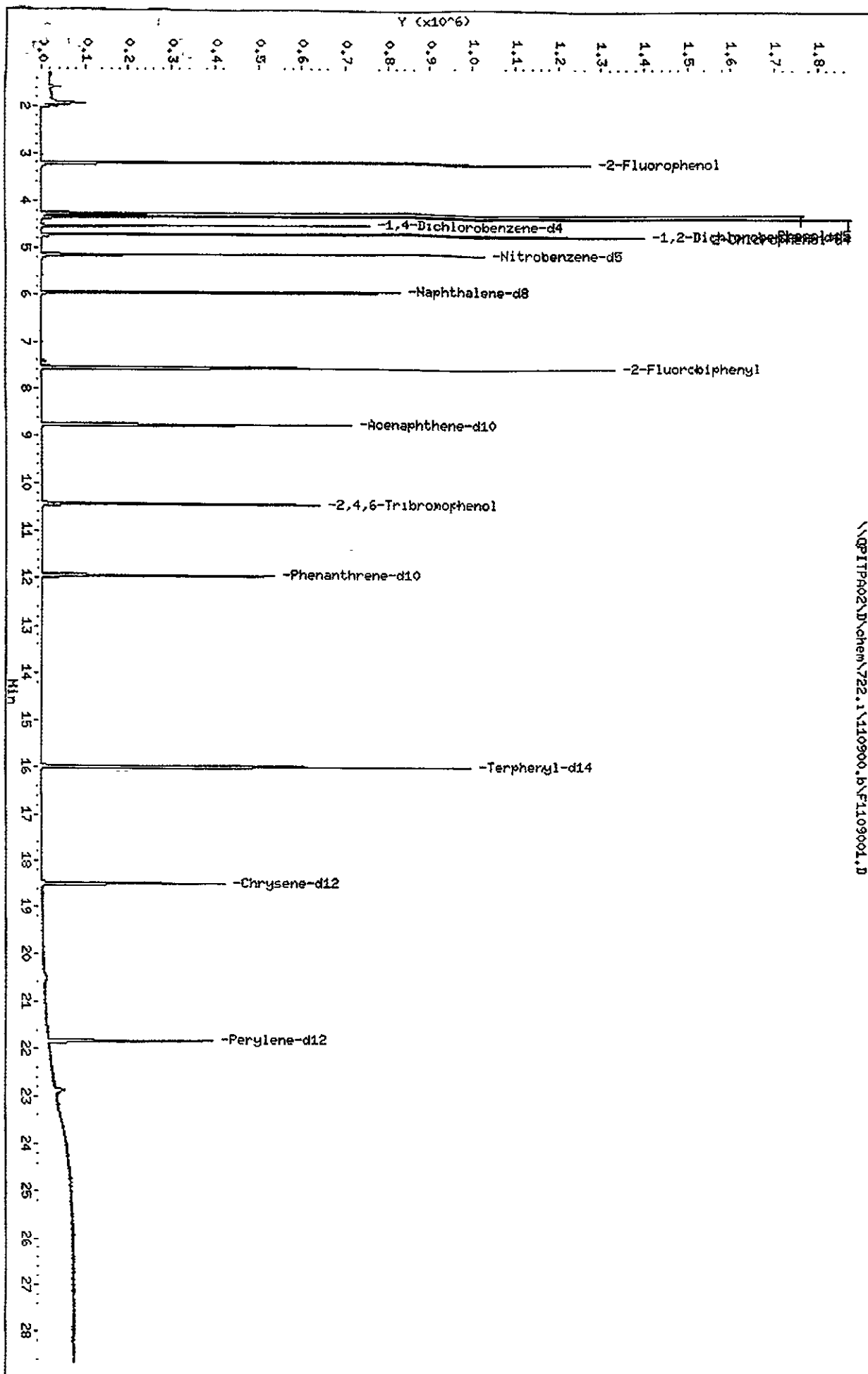
QC Batch: 0312126

Client Sample Id: INTRA-LAB BLANK

| CONCENTRATION UNITS: |                       |                      |   |
|----------------------|-----------------------|----------------------|---|
| CAS NO.              | COMPOUND              | (ug/L or ug/kg) mg/L | Q |
| 106-46-7             | 1,4-Dichlorobenzene   | 0.050                | U |
| 121-14-2             | 2,4-Dinitrotoluene    | 0.050                | U |
| 118-74-1             | Hexachlorobenzene     | 0.050                | U |
| 87-68-3              | Hexachlorobutadiene   | 0.050                | U |
| 67-72-1              | Hexachloroethane      | 0.050                | U |
| 98-95-3              | Nitrobenzene          | 0.050                | U |
| 87-86-5              | Pentachlorophenol     | 0.25                 | U |
| 110-86-1             | Pyridine              | 0.10                 | U |
| 95-95-4              | 2,4,5-Trichlorophenol | 0.050                | U |
| 88-06-2              | 2,4,6-Trichlorophenol | 0.050                | U |
| 1319-77-3            | Cresols (total)       | 0.050                | U |

Data File: \\GPITPR02.D\\chem\\722.1\\110900.b\\F1109001.D  
 Date: 09-NOV-2000 09:05  
 Client ID: INTRA-LAB BLANK  
 Sample Info: COJ310200-BLK 11/06/00 TLP (0312126)  
 Volume injected (ul): 2.0  
 Column phase: He5-MS

Instrument: 722.1  
 Operator: 007062  
 Column diameter: 0.25



674 265

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\gpitpa02\d\chem\722.i\110900.b\F1109001.D  
Lab Smp Id: DPFJJ1AA Client Smp ID: INTRA-LAB BLANK  
Inj Date : 09-NOV-2000 09:05  
Operator : 007062 Inst ID: 722.i  
Smp Info : C0J310200-BLK 11/06/00 TCLP (0312126)  
Misc Info : dpfjj1aa,110900.b,8270b.m,tclp.sub  
Comment :  
Method : \\QPITPA02\D\chem\722.i\110900.b\8270b.m  
Meth Date : 09-Nov-2000 09:10 BungardF Quant Type: ISTD  
Cal Date : 08-NOV-2000 15:59 Cal File: F11080C5.D  
Als bottle: 3 QC Sample: BLANK  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: tclp.sub  
Target Version: 4.04  
Processing Host: PITPC062

*Handwritten signature*  
11/9/00

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi)\*gpc

| Name | Value    | Description                     |
|------|----------|---------------------------------|
| DF   | 1.000    | Dilution Factor                 |
| Uf   | 0.001    | ng unit correction factor       |
| Vt   | 1000.000 | Volume of final extract (uL)    |
| Vo   | 200.000  | Volume of sample extracted (mL) |
| Vi   | 2.000    | Volume injected (uL)            |
| gpc  | 1.000    | gpc correction factor           |

| Compounds                | QUANT SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE               | CONCENTRATIONS     |                  |
|--------------------------|-------------------|--------|--------|---------|------------------------|--------------------|------------------|
|                          |                   |        |        |         |                        | ON-COLUMN<br>( NG) | FINAL<br>( mg/L) |
| 1 1,4-Dichlorobenzene-d4 | 152               | 4.530  | 4.534  | (1.000) | 114216                 | 40.0000            | (Q)              |
| 2 Naphthalene-d8         | 136               | 5.941  | 5.949  | (1.000) | 448939                 | 40.0000            |                  |
| 3 Acenaphthene-d10       | 164               | 8.761  | 8.770  | (1.000) | 249449                 | 40.0000            |                  |
| 4 Phenanthrene-d10       | 188               | 11.945 | 11.959 | (1.000) | 389683                 | 40.0000            |                  |
| 5 Chrysene-d12           | 240               | 18.489 | 18.509 | (1.000) | 320445                 | 40.0000            |                  |
| 6 Perylene-d12           | 264               | 21.828 | 21.842 | (1.000) | 313897                 | 40.0000            |                  |
| 9 Pyridine               | 79                |        |        |         | Compound Not Detected. |                    |                  |
| 27 1,4-Dichlorobenzene   | 146               |        |        |         | Compound Not Detected. |                    |                  |
| M 195 Cresols, total     | 100               |        |        |         | Compound Not Detected. |                    |                  |
| 30 2-Methylphenol        | 108               |        |        |         | Compound Not Detected. |                    |                  |
| 192 4-Methylphenol       | 108               |        |        |         | Compound Not Detected. |                    |                  |
| 193 3-Methylphenol       | 108               |        |        |         | Compound Not Detected. |                    |                  |
| 34 Hexachloroethane      | 117               |        |        |         | Compound Not Detected. |                    |                  |

674 266

| Compounds                     | QUANT SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE               | CONCENTRATIONS     |                  |
|-------------------------------|-------------------|--------|--------|---------|------------------------|--------------------|------------------|
|                               |                   |        |        |         |                        | ON-COLUMN<br>( NG) | FINAL<br>( mg/L) |
| 35 Nitrobenzene               | 77                |        |        |         | Compound Not Detected. |                    |                  |
| 56 Hexachlorobutadiene        | 224               |        |        |         | Compound Not Detected  |                    |                  |
| 66 2,4,6-Trichlorophenol      | 196               |        |        |         | Compound Not Detected  |                    |                  |
| 67 2,4,5-Trichlorophenol      | 196               |        |        |         | Compound Not Detected  |                    |                  |
| 87 2,4-Dinitrotoluene         | 165               |        |        |         | Compound Not Detected. |                    |                  |
| 107 Hexachlorobenzene         | 283               |        |        |         | Compound Not Detected  |                    |                  |
| 111 Pentachlorophenol         | 265               |        |        |         | Compound Not Detected. |                    |                  |
| \$ 154 Nitrobenzene-d5        | 82                | 5.145  | 5.153  | (0.866) | 387168                 | 72.6430            | 0.182(a)         |
| \$ 155 2-Fluorobiphenyl       | 172               | 7.559  | 7.568  | (0.863) | 576025                 | 67.2961            | 0.168(a)         |
| \$ 156 Terphenyl-d14          | 244               | 15.984 | 15.993 | (0.864) | 561773                 | 80.3467            | 0.201(a)         |
| \$ 157 Phenol-d5              | 99                | 4.268  | 4.272  | (0.942) | 612505                 | 120.433            | 0.301(a)         |
| \$ 158 2-Fluorophenol         | 112               | 3.205  | 3.214  | (0.708) | 407916                 | 110.580            | 0.276(a)         |
| \$ 159 2,4,6-Tribromophenol   | 330               | 10.439 | 10.447 | (0.874) | 112121                 | 116.099            | 0.290(a)         |
| \$ 186 2-Chlorophenol-d4      | 132               | 4.343  | 4.347  | (0.959) | 468018                 | 128.741            | 0.322(a)         |
| \$ 187 1,2-Dichlorobenzene-d4 | 152               | 4.723  | 4.726  | (1.042) | 196685                 | 70.4635            | 0.176(a)         |

#### QC Flag Legend

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

UXB INTERNATIONAL  
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COK070000 126

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 10/31/00

Work Order: DPFJJ1AC

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/09/00

Moisture %: NA

QC Batch: 0312126

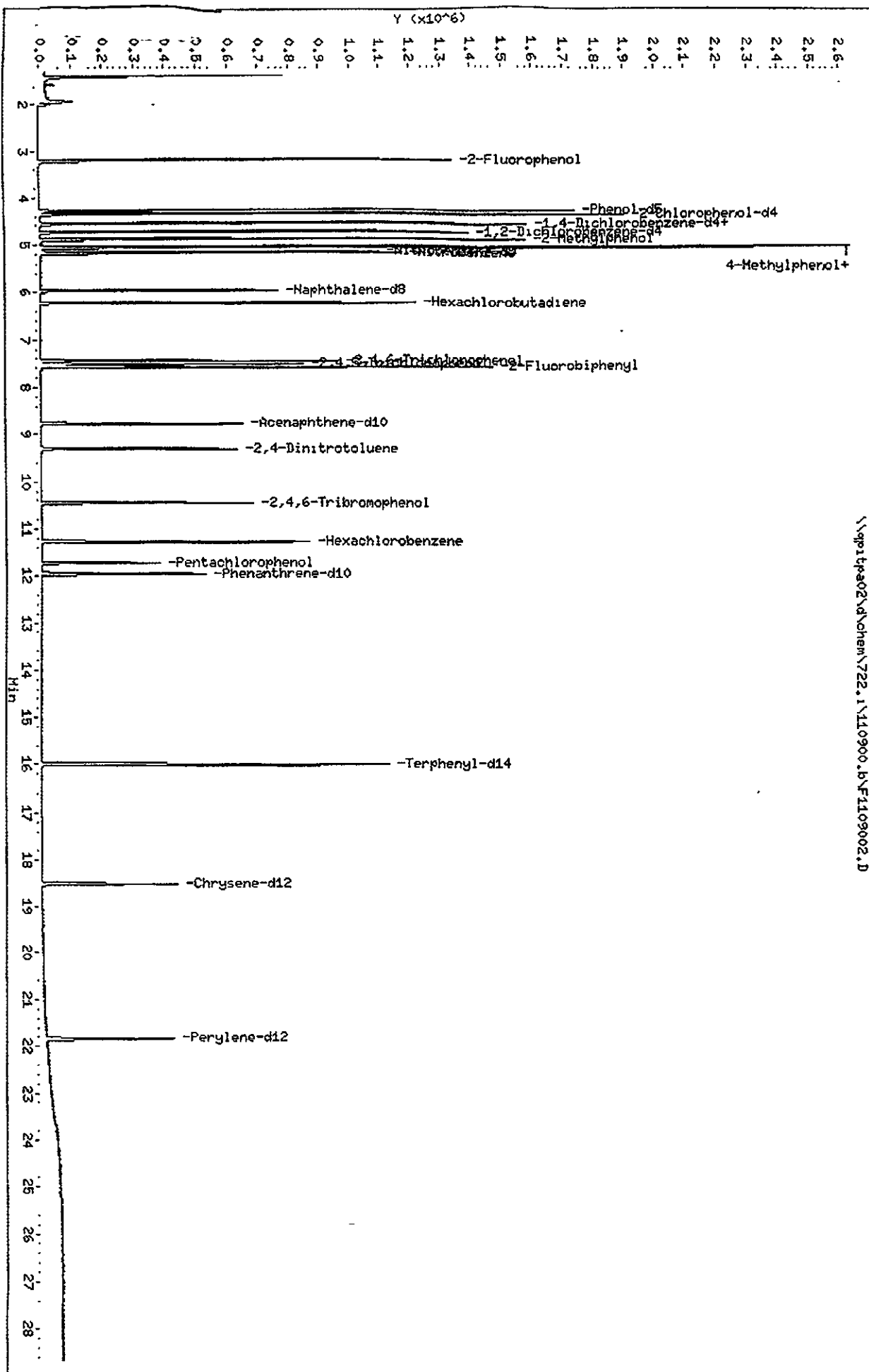
Client Sample Id: CHECK SAMPLE

| CONCENTRATION UNITS: |                       |                      |   |
|----------------------|-----------------------|----------------------|---|
| CAS NO.              | COMPOUND              | (ug/L or ug/kg) mg/L | Q |
| 106-46-7             | 1,4-Dichlorobenzene   | 0.221                |   |
| 121-14-2             | 2,4-Dinitrotoluene    | 0.196                |   |
| 118-74-1             | Hexachlorobenzene     | 0.213                |   |
| 87-68-3              | Hexachlorobutadiene   | 0.202                |   |
| 67-72-1              | Hexachloroethane      | 0.225                |   |
| 98-95-3              | Nitrobenzene          | 0.220                |   |
| 87-86-5              | Pentachlorophenol     | 0.225                |   |
| 110-86-1             | Pyridine              | 0.230                |   |
| 95-95-4              | 2,4,5-Trichlorophenol | 0.222                |   |
| 88-06-2              | 2,4,6-Trichlorophenol | 0.218                |   |
| 1319-77-3            | Cresols (total)       | 0.708                |   |



Data File: \\pittpa02\chem\722.1\110900.b\F1109002.D  
 Date: 09-NOV-2000 09:39  
 Client ID: INTRA-LAB CHECK  
 Sample Info: COJ310200-LCS 11/06/00 TCLP (0312126)  
 Volume Injected (uL): 2.0  
 Column phase: Hp5-MS

Instrument: 722.1  
 Operator: 007062  
 Column diameter: 0.25



674 269

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\qpitpa02\d\chem\722.i\110900.b\F1109002.D  
Lab Smp Id: DPFJJ1AC Client Smp ID: INTRA-LAB CHECK  
Inj Date : 09-NOV-2000 09:39  
Operator : 007062 Inst ID: 722.i  
Smp Info : C0J310200-LCS 11/06/00 TCLP (0312126)  
Misc Info : dpfjjlac,110900.b,8270b.m,tclp.sub  
Comment :  
Method : \\QPITPA02\D\chem\722.i\110900.b\8270b.m  
Meth Date : 09-Nov-2000 09:10 BungardF Quant Type: ISTD  
Cal Date : 08-NOV-2000 15:59 Cal File: F11080C5.D  
Als bottle: 4 QC Sample: LCS  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: tclp.sub  
Target Version: 4.04  
Processing Host: PITPC062

*PBB*  
*11/9/00*

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi)\*gpc

| Name | Value    | Description                     |
|------|----------|---------------------------------|
| DF   | 1.000    | Dilution Factor                 |
| Uf   | 0.001    | ng unit correction factor       |
| Vt   | 1000.000 | Volume of final extract (uL)    |
| Vo   | 200.000  | Volume of sample extracted (mL) |
| Vi   | 2.000    | Volume injected (uL)            |
| gpc  | 1.000    | gpc correction factor           |

| Compounds                  | QUANT SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS     |                  |
|----------------------------|-----------|------------------------|--------|---------|----------|--------------------|------------------|
|                            |           |                        |        |         |          | ON-COLUMN<br>( NG) | FINAL<br>( mg/L) |
| * 1 1,4-Dichlorobenzene-d4 | 152       | 4.531                  | 4.534  | (1.000) | 104181   | 40.0000            |                  |
| * 2 Naphthalene-d8         | 136       | 5.946                  | 5.949  | (1.000) | 415805   | 40.0000            |                  |
| * 3 Acenaphthene-d10       | 164       | 8.767                  | 8.770  | (1.000) | 229633   | 40.0000            |                  |
| * 4 Phenanthrene-d10       | 188       | 11.951                 | 11.959 | (1.000) | 371870   | 40.0000            |                  |
| * 5 Chrysene-d12           | 240       | 18.495                 | 18.509 | (1.000) | 343219   | 40.0000            |                  |
| * 6 Perylene-d12           | 264       | 21.834                 | 21.842 | (1.000) | 332219   | 40.0000            |                  |
| 9 Pyridine                 | 79        | 1.379                  | 1.387  | (0.304) | 404799   | 92.2082            | 0.230            |
| 27 1,4-Dichlorobenzene     | 146       | 4.552                  | 4.550  | (1.005) | 364612   | 88.5177            | 0.221            |
| M 195 Cresols, total       | 100       |                        |        |         | 978763   | 283.093            | 0.708            |
| 30 2-Methylphenol          | 108       | 4.872                  | 4.881  | (1.075) | 315743   | 94.3739            | 0.236            |
| 192 4-Methylphenol         | 108       | 5.038                  | 5.030  | (1.112) | 663020   | 188.719            | 0.472 (A)        |
| 193 3-Methylphenol         | 108       | Compound Not Detected. |        |         |          |                    |                  |
| 34 Hexachloroethane        | 117       | 5.054                  | 5.052  | (1.116) | 155169   | 89.9327            | 0.225            |

674 270

| Compounds                     | QUANT SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS     |                  |
|-------------------------------|-------------------|--------|--------|---------|----------|--------------------|------------------|
|                               |                   |        |        |         |          | ON-COLUMN<br>( NG) | FINAL<br>( mg/L) |
| 35 Nitrobenzene               | 77                | 5.172  | 5.169  | (0.870) | 435810   | 88.1506            | 0.220            |
| 56 Hexachlorobutadiene        | 225               | 6.213  | 6.216  | (1.045) | 158313   | 80.6783            | 0.202            |
| 66 2,4,6-Trichlorophenol      | 196               | 7.442  | 7.445  | (0.849) | 168668   | 87.3535            | 0.218            |
| 67 2,4,5-Trichlorophenol      | 196               | 7.506  | 7.520  | (0.856) | 180445   | 88.6444            | 0.222            |
| 87 2,4-Dinitrotoluene         | 165               | 9.296  | 9.304  | (1.060) | 178500   | 78.6359            | 0.196            |
| 107 Hexachlorobenzene         | 284               | 11.272 | 11.281 | (0.943) | 187574   | 85.2127            | 0.213            |
| 111 Pentachlorophenol         | 266               | 11.721 | 11.735 | (0.981) | 70762    | 90.1919            | 0.225            |
| \$ 154 Nitrobenzene-d5        | 82                | 5.150  | 5.153  | (0.866) | 415040   | 84.0780            | 0.210(a)         |
| \$ 155 2-Fluorobiphenyl       | 172               | 7.565  | 7.568  | (0.863) | 610204   | 77.4410            | 0.194(a)         |
| \$ 156 Terphenyl-d14          | 244               | 15.989 | 15.993 | (0.865) | 648005   | 86.5303            | 0.216(a)         |
| \$ 157 Phenol-d5              | 99                | 4.269  | 4.272  | (0.942) | 626076   | 134.958            | 0.337(a)         |
| \$ 158 2-Fluorophenol         | 112               | 3.206  | 3.214  | (0.708) | 430888   | 128.059            | 0.320(a)         |
| \$ 159 2,4,6-Tribromophenol   | 330               | 10.444 | 10.447 | (0.874) | 122518   | 132.942            | 0.332(a)         |
| \$ 186 2-Chlorophenol-d4      | 132               | 4.344  | 4.347  | (0.959) | 487772   | 147.099            | 0.368(a)         |
| \$ 187 1,2-Dichlorobenzene-d4 | 152               | 4.723  | 4.726  | (1.042) | 201856   | 79.2817            | 0.198(a)         |

#### QC Flag Legend

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

UXB INTERNATIONAL  
MATRIX SPIKE COMPOUNDS

674 271

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID: C0J310200 001  
Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL Date Received: 10/31/00  
Work Order: DN4P61CQ Date Extracted: 11/06/00  
Dilution factor: 1 Date Analyzed: 11/09/00  
Moisture %: 16

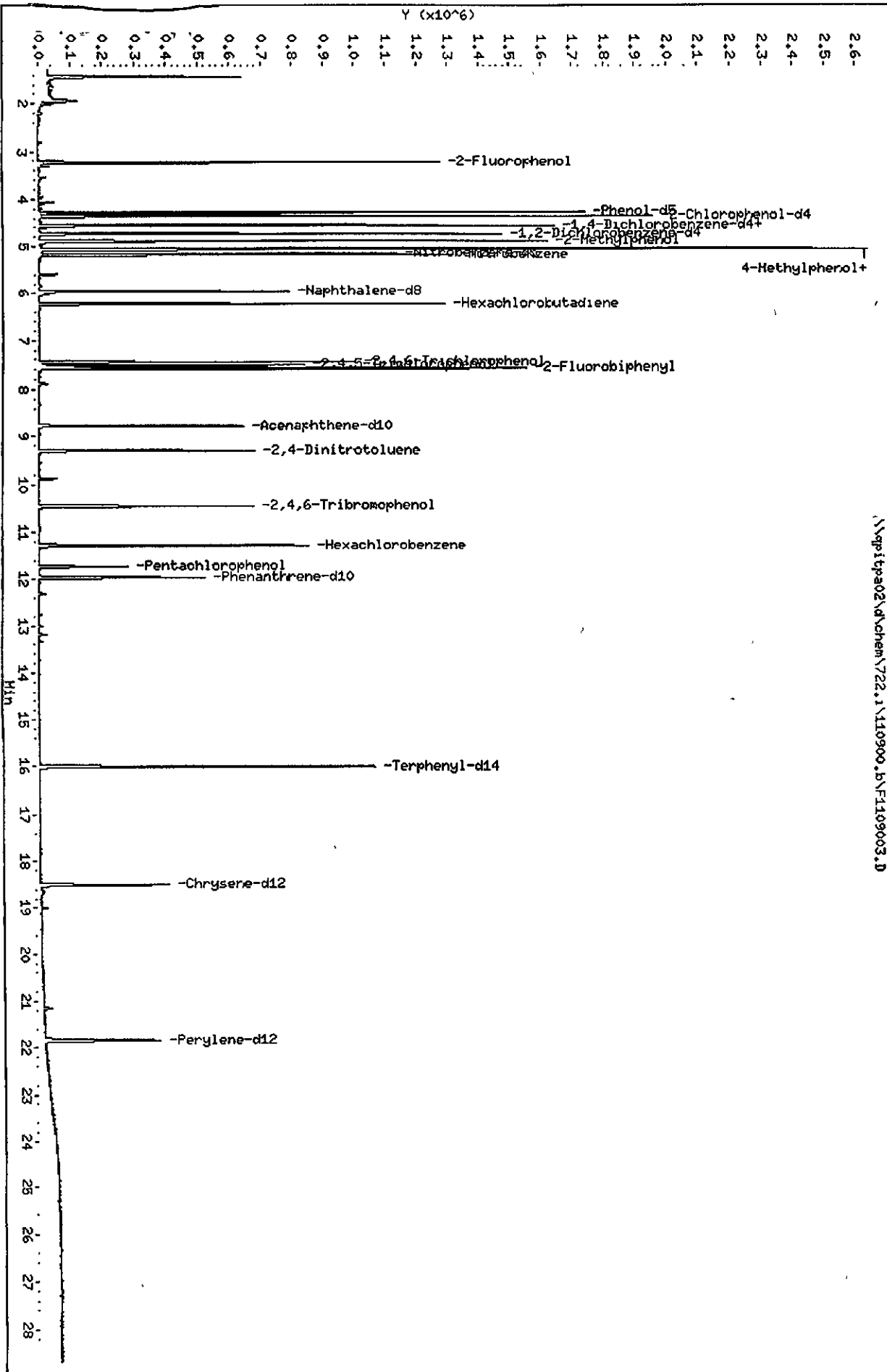
QC Batch: 0312126

Client Sample Id: DF/24-A/0304/CVS/008

| CAS NO.   | COMPOUND              | CONCENTRATION UNITS: |   |
|-----------|-----------------------|----------------------|---|
|           |                       | (ug/L or ug/kg) mg/L | Q |
| 106-46-7  | 1,4-Dichlorobenzene   | 0.209                |   |
| 121-14-2  | 2,4-Dinitrotoluene    | 0.207                |   |
| 118-74-1  | Hexachlorobenzene     | 0.222                |   |
| 87-68-3   | Hexachlorobutadiene   | 0.199                |   |
| 67-72-1   | Hexachloroethane      | 0.211                |   |
| 98-95-3   | Nitrobenzene          | 0.221                |   |
| 87-86-5   | Pentachlorophenol     | 0.175                |   |
| 110-86-1  | Pyridine              | 0.180                |   |
| 95-95-4   | 2,4,5-Trichlorophenol | 0.218                |   |
| 88-06-2   | 2,4,6-Trichlorophenol | 0.221                |   |
| 1319-77-3 | Cresols (total)       | 0.684                |   |

Data File: \\qpltpa02\chem\722.1\110900.b\F1109003.D  
 Date: 09-NOV-2000 10:13  
 Client ID: DF/24-R/0304/CVS/00  
 Sample Info: C03J10200-001S 11/06/00 TCLP (0312126)  
 Volume Injected (uL): 2.0  
 Column phase: HP5-MS

Instrument: 722.1  
 Operator: 007062  
 Column diameter: 0.25



STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\qpitpa02\d\chem\722.i\110900.b\F1109003.D  
Lab Smp Id: DN4P61CQ Client Smp ID: DF/24-A/0304/CVS/00  
Inj Date : 09-NOV-2000 10:13  
Operator : 007062 Inst ID: 722.i  
Smp Info : C0J310200-001S 11/06/00 TCLP (0312126)  
Misc Info : dn4p61cq,110900.b,8270b.m,tclp.sub  
Comment :  
Method : \\QPITPA02\D\chem\722.i\110900.b\8270b.m  
Meth Date : 09-Nov-2000 09:10 BungardF Quant Type: ISTD  
Cal Date : 08-NOV-2000 15:59 Cal File: F11080C5.D  
Als bottle: 5 QC Sample: MS  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: tclp.sub  
Target Version: 4.04  
Processing Host: PITPC062

*Handwritten signature*  
11/9/00

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi)\*gpc

| Name | Value    | Description                     |
|------|----------|---------------------------------|
| DF   | 1.000    | Dilution Factor                 |
| Uf   | 0.001    | ng unit correction factor       |
| Vt   | 1000.000 | Volume of final extract (uL)    |
| Vo   | 200.000  | Volume of sample extracted (mL) |
| Vi   | 2.000    | Volume injected (uL)            |
| gpc  | 1.000    | gpc correction factor           |

| Compounds                  | QUANT SIG | MASS | RT                     | EXP RT         | REL RT | RESPONSE | CONCENTRATIONS |           |
|----------------------------|-----------|------|------------------------|----------------|--------|----------|----------------|-----------|
|                            |           |      |                        |                |        |          | ON-COLUMN      | FINAL     |
|                            |           |      |                        |                |        |          | ( NG)          | ( mg/L)   |
| * 1 1,4-Dichlorobenzene-d4 |           | 152  | 4.536                  | 4.534 (1.000)  |        | 111175   | 40.0000        |           |
| * 2 Naphthalene-d8         |           | 136  | 5.951                  | 5.949 (1.000)  |        | 435299   | 40.0000        |           |
| * 3 Acenaphthene-d10       |           | 164  | 8.772                  | 8.770 (1.000)  |        | 232215   | 40.0000        |           |
| * 4 Phenanthrene-d10       |           | 188  | 11.956                 | 11.959 (1.000) |        | 360029   | 40.0000        |           |
| * 5 Chrysene-d12           |           | 240  | 18.500                 | 18.509 (1.000) |        | 317244   | 40.0000        |           |
| * 6 Perylene-d12           |           | 264  | 21.834                 | 21.842 (1.000) |        | 302521   | 40.0000        |           |
| 9 Pyridine                 |           | 79   | 1.432                  | 1.387 (0.316)  |        | 336402   | 71.8076        | 0.180     |
| 27 1,4-Dichlorobenzene     |           | 146  | 4.552                  | 4.550 (1.004)  |        | 366909   | 83.4716        | 0.209     |
| M 195 Cresols, total       |           | 100  |                        |                |        | 1010162  | 273.753        | 0.684     |
| 30 2-Methylphenol          |           | 108  | 4.878                  | 4.881 (1.075)  |        | 322826   | 90.4207        | 0.226     |
| 192 4-Methylphenol         |           | 108  | 5.043                  | 5.030 (1.112)  |        | 687336   | 183.333        | 0.458 (A) |
| 193 3-Methylphenol         |           | 108  | Compound Not Detected. |                |        |          |                |           |
| 34 Hexachloroethane        |           | 117  | 5.054                  | 5.052 (1.114)  |        | 155107   | 84.2414        | 0.211     |

UXB INTERNATIONAL  
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 10/31/00

Work Order: DN4P61CR

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/09/00

Moisture %: 16

QC Batch: 0312126

Client Sample Id: DF/24-A/0304/CVS/008

| CAS NO.   | COMPOUND              | CONCENTRATION UNITS: |   |
|-----------|-----------------------|----------------------|---|
|           |                       | (ug/L or ug/kg) mg/L | Q |
| 106-46-7  | 1,4-Dichlorobenzene   | 0.189                |   |
| 121-14-2  | 2,4-Dinitrotoluene    | 0.189                |   |
| 118-74-1  | Hexachlorobenzene     | 0.203                |   |
| 87-68-3   | Hexachlorobutadiene   | 0.181                |   |
| 67-72-1   | Hexachloroethane      | 0.192                |   |
| 98-95-3   | Nitrobenzene          | 0.200                |   |
| 87-86-5   | Pentachlorophenol     | 0.163                |   |
| 110-86-1  | Pyridine              | 0.161                |   |
| 95-95-4   | 2,4,5-Trichlorophenol | 0.196                |   |
| 88-06-2   | 2,4,6-Trichlorophenol | 0.204                |   |
| 1319-77-3 | Cresols (total)       | 0.628                |   |

Data File: \\GPITPA02\chem\722.i\110900.b\F1109004.D

Date: 09-NOV-2000 10:47

Client ID: DF/24-A/0304/CVS/00

Sample Info: C03J0200-001D 11/06/00 TCLP (0312126)

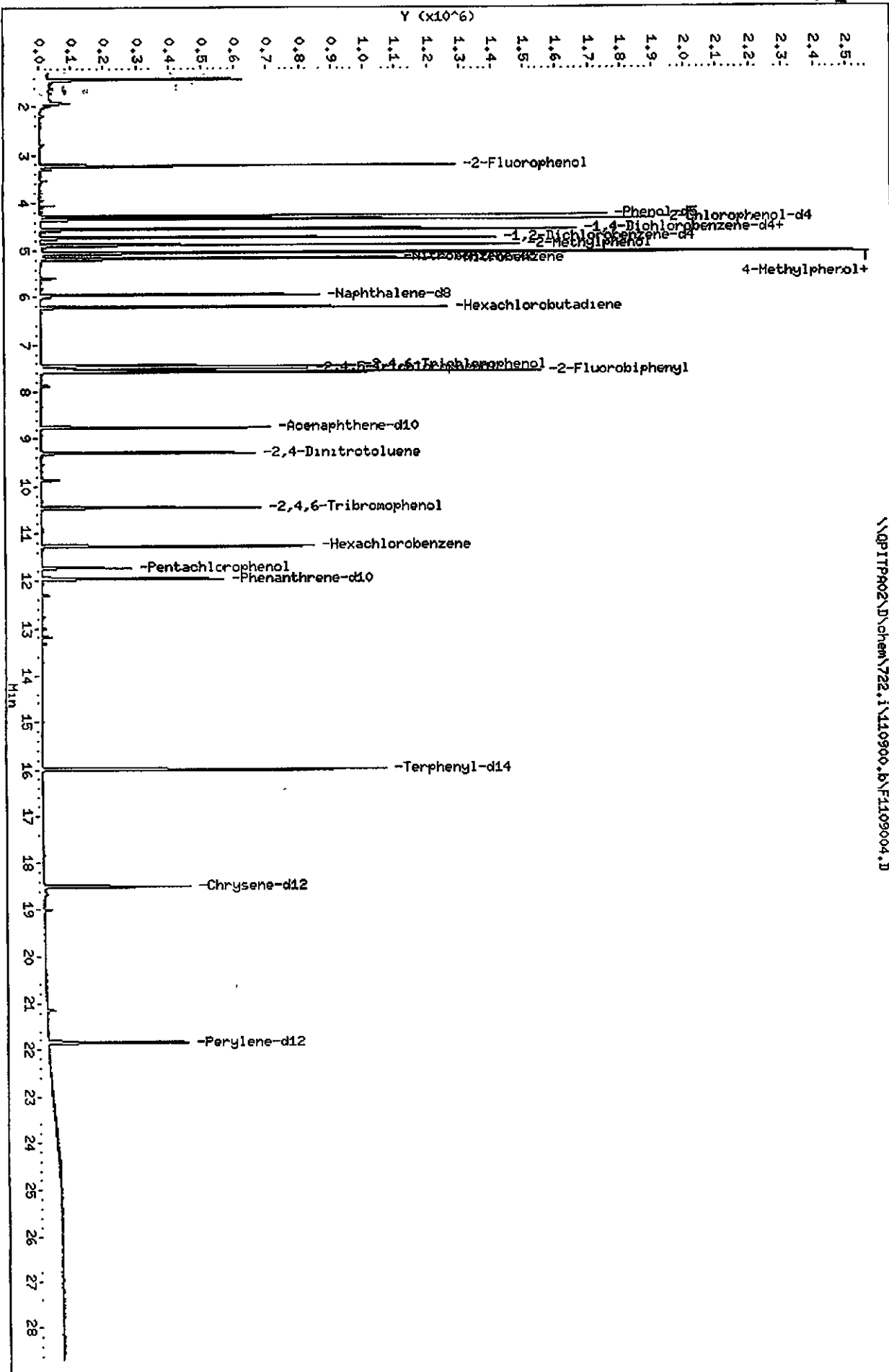
Volume Injected (uL): 2.0

Column phase: Hp5-MS

Instrument: 722.i

Operator: 007062

Column diameter: 0.25





674 276

STL-Pittsburgh

Semivolatiles REPORT SW-846 Method 8270

Data file : \\qpitpa02\d\chem\722.i\110900.b\F1109004.D  
Lab Smp Id: DN4P61CR Client Smp ID: DF/24-A/0304/CVS/00  
Inj Date : 09-NOV-2000 10:47  
Operator : 007062 Inst ID: 722.i  
Smp Info : C0J310200-001D 11/06/00 TCLP (0312126)  
Misc Info : dn4p61cr,110900.b,8270b.m,tclp.sub  
Comment :  
Method : \\QPITPA02\D\chem\722.i\110900.b\8270b.m  
Meth Date : 09-Nov-2000 09:10 BungardF Quant Type: ISTD  
Cal Date : 08-NOV-2000 15:59 Cal File: F11080C5.D  
Als bottle: 6 QC Sample: MSD  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: tclp.sub  
Target Version: 4.04  
Processing Host: PITPC062

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi)\*gpc

| Name | Value    | Description                     |
|------|----------|---------------------------------|
| DF   | 1.000    | Dilution Factor                 |
| Uf   | 0.001    | ng unit correction factor       |
| Vt   | 1000.000 | Volume of final extract (uL)    |
| Vo   | 200.000  | Volume of sample extracted (mL) |
| Vi   | 2.000    | Volume injected (uL)            |
| gpc  | 1.000    | gpc correction factor           |

| Compounds                  | QUANT SIG | MASS                  | RT     | EXP RT  | REL RT | RESPONSE | CONCENTRATIONS     |                  |
|----------------------------|-----------|-----------------------|--------|---------|--------|----------|--------------------|------------------|
|                            |           |                       |        |         |        |          | ON-COLUMN<br>( NG) | FINAL<br>( mg/L) |
| * 1 1,4-Dichlorobenzene-d4 | 152       | 4 535                 | 4.534  | (1.000) | 118382 | 40.0000  |                    |                  |
| * 2 Naphthalene-d8         | 136       | 5.945                 | 5.949  | (1.000) | 466007 | 40.0000  |                    |                  |
| * 3 Acenaphthene-d10       | 164       | 8.766                 | 8.770  | (1.000) | 246403 | 40.0000  |                    |                  |
| * 4 Phenanthrene-d10       | 188       | 11.950                | 11.959 | (1.000) | 382375 | 40.0000  |                    |                  |
| * 5 Chrysene-d12           | 240       | 18.494                | 18.509 | (1.000) | 344517 | 40.0000  |                    |                  |
| * 6 Perylene-d12           | 264       | 21.833                | 21.842 | (1.000) | 335090 | 40.0000  |                    |                  |
| 9 Pyridine                 | 79        | 1.426                 | 1.387  | (0.314) | 321467 | 64.4421  | 0.161              |                  |
| 27 1,4-Dichlorobenzene     | 146       | 4.551                 | 4.550  | (1.004) | 354642 | 75.7691  | 0.189              |                  |
| M 195 Cresols, total       | 100       |                       |        |         | 987976 | 251.421  | 0.628              |                  |
| 30 2-Methylphenol          | 108       | 4.877                 | 4.881  | (1.075) | 314145 | 82.6325  | 0.206              |                  |
| 192 4-Methylphenol         | 108       | 5.037                 | 5.030  | (1.111) | 673831 | 168.789  | 0.422 (A)          |                  |
| 193 3-Methylphenol         | 108       | Compound Not Detected |        |         |        |          |                    |                  |
| 34 Hexachloroethane        | 117       | 5 053                 | 5.052  | (1.114) | 150968 | 77.0017  | 0.192              |                  |

674 277

| Compounds                     | QUANT SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS     |                  |
|-------------------------------|-------------------|--------|--------|---------|----------|--------------------|------------------|
|                               |                   |        |        |         |          | ON-COLUMN<br>( NG) | FINAL<br>( mg/L) |
| 35 Nitrobenzene               | 77                | 5.171  | 5.169  | (0.870) | 443238   | 79.9949            | 0.200            |
| 56 Hexachlorobutadiene        | 225               | 6.212  | 6.216  | (1.045) | 159385   | 72.4745            | 0.181            |
| 66 2,4,6-Trichlorophenol      | 196               | 7.441  | 7.445  | (0.849) | 168722   | 81.4343            | 0.204            |
| 67 2,4,5-Trichlorophenol      | 196               | 7.511  | 7.520  | (0.857) | 171396   | 78.4685            | 0.196            |
| 87 2,4-Dinitrotoluene         | 165               | 9.300  | 9.304  | (1.061) | 184191   | 75.6205            | 0.189            |
| 107 Hexachlorobenzene         | 284               | 11.271 | 11.281 | (0.943) | 184210   | 81.3854            | 0.203            |
| 111 Pentachlorophenol         | 266               | 11.726 | 11.735 | (0.981) | 52513    | 65.0932            | 0.163            |
| \$ 154 Nitrobenzene-d5        | 82                | 5.149  | 5.153  | (0.866) | 418166   | 75.5855            | 0.189 (a)        |
| \$ 155 2-Fluorobiphenyl       | 172               | 7.564  | 7.568  | (0.863) | 618426   | 73.1428            | 0.183 (a)        |
| \$ 156 Terphenyl-d14          | 244               | 15.989 | 15.993 | (0.865) | 617366   | 82.1283            | 0.205 (a)        |
| \$ 157 Phenol-d5              | 99                | 4.273  | 4.272  | (0.942) | 614030   | 116.484            | 0.291 (a)        |
| \$ 158 2-Fluorophenol         | 112               | 3.216  | 3.214  | (0.709) | 384850   | 100.656            | 0.252 (a)        |
| \$ 159 2,4,6-Tribromophenol   | 330               | 10.443 | 10.447 | (0.874) | 114074   | 120.379            | 0.301 (a)        |
| \$ 186 2-Chlorophenol-d4      | 132               | 4.348  | 4.347  | (0.959) | 472825   | 125.486            | 0.314 (a)        |
| \$ 187 1,2-Dichlorobenzene-d4 | 152               | 4.727  | 4.726  | (1.042) | 198036   | 68.4507            | 0.171 (a)        |

#### QC Flag Legend

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

674 278

**GC/MS SEMIVOLATILE  
MISCELLANEOUS**

## Continuous L-L Extraction Worksheet

STL - Pittsburgh  
Logbook ID: OP5

674 279

Test

[illegible]

Batch Number: 0212126

Reviewed by:

Date: 11/12/10

Instrument Name: GC/MS Instrument #1

Sequence File: D:\HPCHEM\1\SEQUENCE\110800.S

Comment: STL- PITT HP5973-2 LOG 2ul inj 100ul+1ul int S270

Operator: 007062

Data Path: d:\HPCHEM\1\DATA\110800.b\ 11/8/00

Method Path: D:\HPCHEM\1\METHODS\ FBB

280  
674

| Line | Type   | Vial           | DataFile | Method          | Sample Name                      |
|------|--------|----------------|----------|-----------------|----------------------------------|
| 1)   | Sample | 124/1          | F1108DF1 | DFTPP           | DFTPP050 (25ppb) 194-175-8       |
| 2)   | Sample | AOC 2          | F11080C1 | 72EARLY         | SSTD050 (25ppb) 77-04-13         |
| 3)   | Sample | AOC 25         | F11080C2 | 72EARLY         | SSTD020 (10ppb) 77-01-5          |
| 4)   | Sample | AOC 26         | F11080C3 | 72EARLY         | SSTD080 (40ppb) 77-01-7          |
| 5)   | Sample | AOC 27         | F11080C4 | 72EARLY         | SSTD120 (60ppb) 77-01-8          |
| 6)   | Sample | AOC 28         | F11080C5 | 72EARLY         | SSTD160 (80ppb) 77-01-9          |
| 7)   | Sample | AOC 3          | F1108001 | 72EARLY         | COK020285-BLK 11/07/00 Soil (031 |
| 8)   | Sample | AOC 4          | F1108002 | 72EARLY         | COK020285-LCS 11/07/00 Soil (031 |
| 9)   | Sample | (1) AOC 23     | F1108003 | 72EARLY         | C0J200205-001 x2 10/24/00 Soil ( |
| 10)  | Sample | (1) AOC 24     | F1108004 | 72EARLY         | C0J200205-002 x2 10/24/00 Soil ( |
| 11)  | Sample | 100            | F10170BL | 72EARLY         | Blank                            |
| 12)  | Sample | CONFIRMATION 5 | F1108005 | 72EARLY (1)     | C0J280168-015 11/03/00 Soil (038 |
| 13)  | Sample | CONFIRMATION 6 | F1108006 | 72EARLY (1)     | C0J280168-001 11/03/00 Soil (030 |
| 14)  | Sample | AOC 7          | F1108007 | 72EARLY         | C0J280168-003 11/03/00 Soil (030 |
| 15)  | Sample | AOC 8          | F1108008 | 72EARLY         | C0J280168-007 x2 11/03/00 Soil ( |
| 16)  | Sample | AOC 9          | F1108009 | 72EARLY (1)     | COK020285-002 x10 11/07/00 Soil  |
| 17)  | Sample | AOC 10         | F1108010 | 72EARLY (1)     | COK020285-002S x10 11/07/00 Soil |
| 18)  | Sample | AOC 11         | F1108011 | 72EARLY (1)     | COK020285-002D x10 11/07/00 Soil |
| 19)  | Sample | -12            | F1108012 | 72EARLY (1)     | COK020285-003 11/07/00 Soil (031 |
| 20)  | Sample | -13            | F1108013 | 72EARLY (2)     | COK020285-004 11/07/00 Soil (031 |
| 21)  | Sample | -14            | F1108014 | 72EARLY (2)     | COK020285-005 11/07/00 Soil (031 |
| 22)  | Sample | -15            | F1108015 | 72EARLY (1) (2) | COK020285-006 11/07/00 Soil (031 |
| 23)  | Sample | (1) (2) -16    | F1108016 | 72EARLY (1)     | COK020285-007 11/07/00 Soil (031 |
| 24)  | Sample | (1) (2) -17    | F1108017 | 72EARLY (1)     | COK020285-008 11/07/00 Soil (031 |
| 25)  | Sample | -18            | F1108018 | 72EARLY (1)     | COK020285-009 x5 11/07/00 Soil ( |
| 26)  | Sample | (RW x 10) -19  | F1108019 | 72EARLY (1)     | COK020285-010 11/07/00 Soil (031 |
| 27)  | Sample | -20            | F1108020 | 72EARLY (1)     | COK030317-001 11/07/00 Soil (031 |
| 28)  | Sample | -21            | F1108021 | 72EARLY (1)     | COK030317-002 x10 11/07/00 Soil  |
| 29)  | Sample | -22            | F1108022 | 72EARLY (1)     | C0J180342-002 R/E 11/07/00 Soil  |
| 30)  | Sample | 100            | F10170B2 | 72EARLY         | Blank                            |
| 31)  | Sample | 100            | F10170B3 | 72EARLY         | Blank                            |
| 32)  | Sample | 100            | F10170B4 | 72EARLY         | Blank                            |
| 33)  | Sample | 100            | F10170B5 | 72EARLY         | Blank                            |
| 34)  | Sample | 100            | F10170B6 | 72EARLY         | Blank                            |

Bytes Needed: 1650565 Space on drive D: 1023932928

Sequence Verification Done!

Instrument Name: GC/MS Instrument #1

674 281

Sequence File: D:\HPCHEM\1\SEQUENCE\11090001.S

Comment: STL- PITT HP5973-2 LOG 2ul inj 100ul+1ul int

Operator: 007062

Data Path: d:\HPCHEM\1\DATA\110900.b\

Method Path: D:\HPCHEM\1\METHODS\

8270  
11/9/00

FBB

| Line Type  | Vial | DataFile | Method  | Sample Name                      |
|------------|------|----------|---------|----------------------------------|
| 1) Sample  | 1    | F1109DF1 | DFTPP   | DFTPP050 (25ppb) 194-175-8       |
| 2) Sample  | 1    | F1109DF2 | DFTPP   | DFTPP050 (25ppb) 194-175-8       |
| 3) Sample  | 2    | F11090C1 | 72EARLY | SSTD050 (25ppb) 77-04-13         |
| 4) Sample  | 3    | F1109001 | 72EARLY | C0J310200-BLK 11/06/00 TCLP (031 |
| 5) Sample  | 4    | F1109002 | 72EARLY | C0J310200-LCS 11/06/00 TCLP (031 |
| 6) Sample  | 5    | F1109003 | 72EARLY | C0J310200-001S 11/06/00 TCLP (03 |
| 7) Sample  | 6    | F1109004 | 72EARLY | C0J310200-001D 11/06/00 TCLP (03 |
| 8) Sample  | 7    | F1109005 | 72EARLY | C0J310200-001 11/06/00 TCLP (031 |
| 9) Sample  | 8    | F1109006 | 72EARLY | C0J310200-002 11/06/00 TCLP (031 |
| 10) Sample | 9    | F1109007 | 72EARLY | C0J310200-003 11/06/00 TCLP (031 |
| 11) Sample | 10   | F1109008 | 72EARLY | C0J260114-013 11/06/00 TCLP (031 |
| 12) Sample | 21   | F1109019 | 72EARLY | C0J180342-002 R/E 11/07/00 Soil  |
| 13) Sample | 11   | F1109009 | 72EARLY | C0K020285-003 11/07/00 Soil (031 |
| 14) Sample | 12   | F1109010 | 72EARLY | C0K020285-004 11/07/00 Soil (031 |
| 15) Sample | 13   | F1109011 | 72EARLY | C0K020285-005 11/07/00 Soil (031 |
| 16) Sample | 14   | F1109012 | 72EARLY | C0K020285-006 11/07/00 Soil (031 |
| 17) Sample | 15   | F1109013 | 72EARLY | C0K020285-007 11/07/00 Soil (031 |
| 18) Sample | 16   | F1109014 | 72EARLY | C0K020285-008 11/07/00 Soil (031 |
| 19) Sample | 17   | F1109015 | 72EARLY | C0K020285-009 x5 11/07/00 Soil ( |
| 20) Sample | 18   | F1109016 | 72EARLY | C0K020285-010 x10 11/07/00 Soil  |
| 21) Sample | 19   | F1109017 | 72EARLY | C0K030317-001 11/07/00 Soil (031 |
| 22) Sample | 20   | F1109018 | 72EARLY | C0K030317-002 x10 11/07/00 Soil  |
| 23) Sample | 100  | F10170B2 | 72EARLY | Blank                            |
| 24) Sample | 100  | F10170B3 | 72EARLY | Blank                            |
| 25) Sample | 100  | F10170B4 | 72EARLY | Blank                            |
| 26) Sample | 100  | F10170B5 | 72EARLY | Blank                            |
| 27) Sample | 100  | F10170B6 | 72EARLY | Blank                            |

Bytes Needed: 1350000 Space on drive D: 1023932928

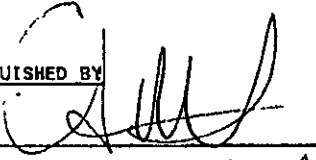
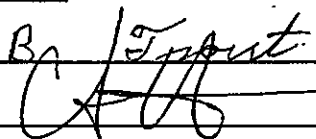
Sequence Verification Done!

REQUESTED BY: TROUTB

674282

METHOD: QLBase/Neutrals and Acids (8270C)

| STORAGE LOCATION | WORK ORDER # | PICKED | CONTROL # | CLIENT # | ANALYSIS | LOTID     | SMP# | SFX | MATRIX DESCRIPTION | QTY  |      |
|------------------|--------------|--------|-----------|----------|----------|-----------|------|-----|--------------------|------|------|
|                  |              | CNTR#  |           |          |          |           |      |     |                    | RCVD | REQD |
| 10D36B           | DNRXR-1-AA   | ---    | 280943    | 016512   | A-59-QL  | C0J260114 | 013  |     | SOLID              | 0    | 1    |
| 12D CLP1         | DN4P6-1-AD   | ---    | 280940    | 399411   | A-59-QL  | C0J310200 | 001  |     | SOLID              | 0    | 3    |
| 12D CLP1         | DN4QJ-1-AD   | ---    | 280941    | 399411   | A-59-QL  | C0J310200 | 002  |     | SOLID              | 0    | 3    |
| 12D CLP1         | DN4QK-1-AD   | ---    | 280942    | 399411   | A-59-QL  | C0J310200 | 003  |     | SOLID              | 0    | 3    |

|                                                                                     |                                                                                      |                 |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------|
| RELINQUISHED BY                                                                     | RECEIVED BY                                                                          | DATE/TIME       |
|  |  | 11/6/2000 08:20 |
| B Trout                                                                             |                                                                                      | 11/6/2000 14:45 |
|                                                                                     |                                                                                      |                 |
|                                                                                     |                                                                                      |                 |
|                                                                                     |                                                                                      |                 |
|                                                                                     |                                                                                      |                 |
|                                                                                     |                                                                                      |                 |
|                                                                                     |                                                                                      |                 |

\*\*\*\*\* END OF REPORT \*\*\*\*\*

RQC157

Severn Trent Laboratories, Inc.  
TCLP/ZHE PRE-PREP BATCH SUMMARY

Run Date: 11/03/00

Time: 11:23:26

PRE-PREP BATCH NUMBER: P030801

PRE-PREP DATE: 11/03/00

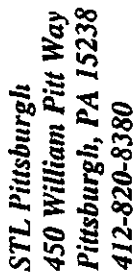
INITIALS: Jm

GROUP: GCSEMI

| LOT<br>NUMBER | WORK<br>ORDER | QC       | GCV | GCS | HPL | MSV | MSS | DXN | MET | WET | OTH |
|---------------|---------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| C0J260114     | DNRW8         | 01       |     |     |     |     | X   |     |     |     |     |
| WATER         | TC EXP DATE:  | 11/07/00 |     |     |     |     |     |     |     |     |     |
| C0J260114     | DNRXC         | 01       |     |     |     |     | X   |     |     |     |     |
| WATER         | TC EXP DATE:  | 11/07/00 |     |     |     |     |     |     |     |     |     |
| C0J260114     | DNRXG         | 01       |     |     |     |     |     |     | X   |     |     |
| WATER         | TC EXP DATE:  | 4/22/01  |     |     |     |     |     |     |     |     |     |
| C0J260114     | DNRXR         | 01       |     |     |     |     | X   |     | X   |     |     |
| SOLID         | TC EXP DATE:  | 11/07/00 |     |     |     |     |     |     |     |     |     |
| C0J310200     | DN4P6         | 01       |     | X   |     |     | X   |     | X   |     |     |
| SOLID         | TC EXP DATE:  | 4/28/01  |     |     |     |     |     |     |     |     |     |
| C0J310200     | DN4QJ         | 01       |     | X   |     |     | X   |     | X   |     |     |
| SOLID         | TC EXP DATE:  | 11/13/00 |     |     |     |     |     |     |     |     |     |
| C0J310200     | DN4QK         | 01       |     | X   |     |     | X   |     | X   |     |     |
| SOLID         | TC EXP DATE:  | 11/13/00 |     |     |     |     |     |     |     |     |     |
| C0K010182     | DN6N4         | 01       |     |     |     |     |     |     | X   |     |     |
| SOLID         | TC EXP DATE:  | 4/29/01  |     |     |     |     |     |     |     |     |     |
| C0K010182     | DN6N6         | 01       |     |     |     |     |     |     | X   |     |     |
| SOLID         | TC EXP DATE:  | 4/29/01  |     |     |     |     |     |     |     |     |     |
| C0K010182     | DN6N7         | 01       |     |     |     |     |     |     | X   |     |     |
| SOLID         | TC EXP DATE:  | 4/25/01  |     |     |     |     |     |     |     |     |     |
| C0K010182     | DN6N8         | 01       |     |     |     |     |     |     | X   |     |     |
| SOLID         | TC EXP DATE:  | 4/29/01  |     |     |     |     |     |     |     |     |     |
| C0K030000     | DPAMLB        | 01       |     | X   |     |     | X   |     | X   |     |     |
| SOLID         | TC EXP DATE:  | 11/13/00 |     |     |     |     |     |     |     |     |     |

EXTRACTION FLUID:   \





## Committed To Your Success

**STL Pittsburgh  
450 William Pitt Way  
Pittsburgh, PA 15238  
412-820-8380**

| Lab #                               | Client Codes | Room Temp.                | Date    | Operator    | pH Instrument | Probe        | Balance |
|-------------------------------------|--------------|---------------------------|---------|-------------|---------------|--------------|---------|
| 104-1063                            | 104-1063     | 24.0                      | 11-2-00 | CHEN, Y. A. | Kontron 8     | SK-100S-165T | 24.4817 |
| Solution # 1 - Log book # 104197-12 |              | Solution # 2 - Log book # |         |             |               |              |         |

### Fluid Determination

[illegible]

| Extract(s)<br>(Record line number from above) | Extract(s) Received |      |           | Extract(s) Relinquished |         |      |             |          |
|-----------------------------------------------|---------------------|------|-----------|-------------------------|---------|------|-------------|----------|
|                                               | Date                | Time | Analyst   | Location                | Date    | Time | Analyst     | Location |
| Allebase                                      | 11-3-00             | 1300 | J. Murphy | MPD in<br>MPD           | 11-3-00 | 1345 | [Signature] | 3012     |
|                                               |                     |      |           |                         |         |      |             |          |
|                                               |                     |      |           |                         |         |      |             |          |
|                                               |                     |      |           |                         |         |      |             |          |
| Comments                                      |                     |      |           |                         |         |      |             |          |

= Sample determined to have free liquid. % solid determination was performed.

.5 = Extraction fluid # 1, 5.7mL Glacial acetic acid dil 500mL + 64.3mL HaOH dil to 1L (pH 4.93  $\pm$  0.05)

.5 = Extraction fluid #2 5.7mL Glacial acetic acid dil to 1L (pH 2.88  $\pm$  0.05)

8320701W

674 285

PSR024 11/02/00 11:42:53 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY: MORPHYJ

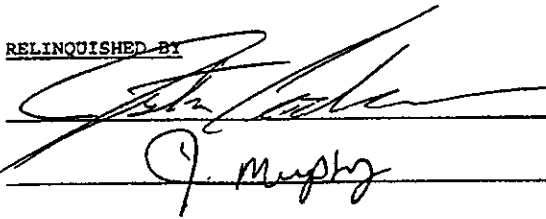
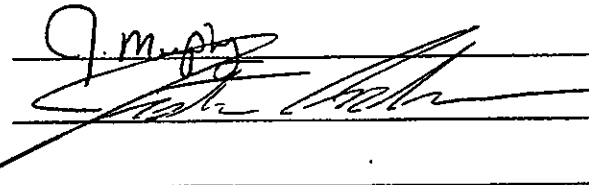
METHOD: QO Inductively Coupled Plasma (6010B)

| STORAGE LOCATION | WORK ORDER # | PICKED<br>CNTR# | CONTROL # | CLIENT # | ANALYSIS | LOTID     | SMP# | SFX | MATRIX<br>DESCRIPTION | QTY  |      |
|------------------|--------------|-----------------|-----------|----------|----------|-----------|------|-----|-----------------------|------|------|
|                  |              |                 |           |          |          |           |      |     |                       | RCVD | REQD |
| 12D CLP1         | DN4P6        | ___             | 279790    | 399411   | A-34-QO  | C0J310200 | 001  |     | SOLID                 | 0    | 3 1  |
| 12D CLP1         | DN4QJ        | ___             | 279791    | 399411   | A-34-QO  | C0J310200 | 002  |     | SOLID                 | 0    | 3 1  |
| 12D CLP1         | DN4QK        | ___             | 279792    | 399411   | A-34-QO  | C0J310200 | 003  |     | SOLID                 | 0    | 3 1  |
| 12E              | DN6N4        | ___             | 279786    | 413315   | A-34-QO  | C0K010182 | 001  |     | SOLID                 | 0    | 1 1  |
| 12E              | DN6N6        | ___             | 279787    | 413315   | A-34-QO  | C0K010182 | 002  |     | SOLID                 | 0    | 1 1  |
| 12E              | DN6N7        | ___             | 279788    | 413315   | A-34-QO  | C0K010182 | 003  |     | SOLID                 | 0    | 1 1  |
| 12E              | DN6N8        | ___             | 279789    | 413315   | A-34-QO  | C0K010182 | 004  |     | SOLID                 | 0    | 1 1  |

RELINQUISHED BY

RECEIVED BY

DATE/TIME

  
J. Murphy

11-2-00 1200

11-2-00 16:00

674 286

PSR024 11/02/00 11:45:31 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY: MORPHYJ

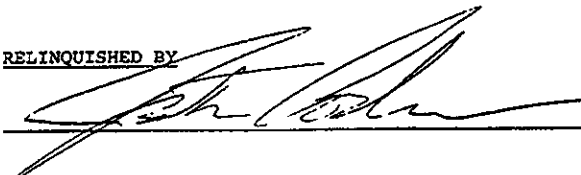
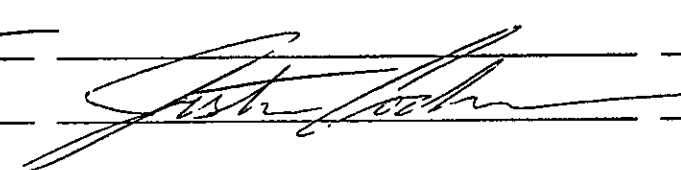
METHOD: QO Inductively Coupled Plasma (6010B)

| STORAGE LOCATION | WORK ORDER # | PICKED<br>CNTR# | CONTROL # | CLIENT # | ANALYSIS | LOTID     | SMP# | SFX | MATRIX<br>DESCRIPTION | QTY  |      |
|------------------|--------------|-----------------|-----------|----------|----------|-----------|------|-----|-----------------------|------|------|
|                  |              |                 |           |          |          |           |      |     |                       | RCVD | REQD |
| 10D              | DNRXG        | ---             | 279793    | 016512   | I-34-QO  | C0J260114 | 007  |     | WATER                 | 0    | 1 1  |
| 10D              | DNRXR        | ---             | 279794    | 016512   | A-34-QO  | C0J260114 | 013  |     | SOLID                 | 0    | 1 1  |

RELINQUISHED BY

RECEIVED BY

DATE/TIME

|                                                                                    |                                                                                      |  |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--|
|  |  |  |
|                                                                                    |                                                                                      |  |
|                                                                                    |                                                                                      |  |
|                                                                                    |                                                                                      |  |
|                                                                                    |                                                                                      |  |
|                                                                                    |                                                                                      |  |
|                                                                                    |                                                                                      |  |
|                                                                                    |                                                                                      |  |
|                                                                                    |                                                                                      |  |
|                                                                                    |                                                                                      |  |

\*\*\*\*\* END OF REPORT \*\*\*\*\*

674 287

## PESTICIDE DATA

674 288

**PESTICIDE  
QC SUMMARY**

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0J310200

|    | CLIENT ID.             | SRG01 | SRG02 | TOT OUT |
|----|------------------------|-------|-------|---------|
|    | =====                  | ===== | ===== | =====   |
| 01 | DF/24-A/0304/CVS/008   | 95    | 90    | 00      |
| 02 | DF/24-A/0304/CVS/010   | 95    | 92    | 00      |
| 03 | DF/24-A/0304/CVS/012   | 94    | 93    | 00      |
| 04 | METHOD BLK. DPFF11AA   | 99    | 104   | 00      |
| 05 | LCS DPFF11AC           | 93    | 93    | 00      |
| 06 | DF/24-A/0304/CVS/008 D | 89    | 82    | 00      |
| 07 | DF/24-A/0304/CVS/008 S | 90    | 83    | 00      |

SURROGATES

SRG01 = Decachlorobiphenyl  
SRG02 = Tetrachloro-m-xylene

QC LIMITS

( 10-147)  
( 39-130)

# Column to be used to flag recovery values  
\* Values outside of required QC Limits  
D System monitoring Compound diluted out

FORM II

674 290

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0K060000

WO #: DPFF11AC

BATCH: 0311599

| COMPOUND           | SPIKE<br>ADDED<br>(mg/L ) | SAMPLE<br>CONCENT.<br>(mg/L ) | %<br>REC | QC<br>LIMITS<br>REC | QUAL  |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| =====              | =====                     | =====                         | =====    | =====               | ===== |
| Lindane            | 0.00250                   | 0.00237                       | 95       | 49 - 137            |       |
| Heptachlor         | 0.00250                   | 0.00253                       | 101      | 57 - 124            |       |
| Heptachlor epoxide | 0.00250                   | 0.00241                       | 96       | 53 - 135            |       |
| Endrin             | 0.00250                   | 0.00280                       | 112      | 46 - 137            |       |
| Methoxychlor       | 0.00250                   | 0.00325                       | 130      | 12 - 154            |       |

NOTES(S) :

\* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0304/CVS/008

Level: (low/med) LOW

Lot #: C0J310200

WO #: DN4P61CN

BATCH: 0311599

| COMPOUND           | SPIKE<br>ADDED<br>(mg/L ) | SAMPLE<br>CONCENT.<br>(mg/L ) | MS<br>CONCENT.<br>(mg/L ) | MS<br>%<br>REC | LIMITS<br>REC | QUAL  |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| =====              | =====                     | =====                         | =====                     | =====          | =====         | ===== |
| Lindane            | 0.00250                   | ND                            | 0.00221                   | 88             | 30 - 148      |       |
| Heptachlor         | 0.00250                   | ND                            | 0.00231                   | 92             | 25 - 135      |       |
| Heptachlor epoxide | 0.00250                   | ND                            | 0.00224                   | 89             | 38 - 138      |       |
| Endrin             | 0.00250                   | ND                            | 0.00270                   | 108            | 28 - 148      |       |
| Methoxychlor       | 0.00250                   | ND                            | 0.00304                   | 121            | 13 - 154      |       |

## NOTES (S) :

# Column to be used to flag recovery and RPD values with an asterisk  
\* Values outside of QC limits

RPD: 0 out of 0 outside limits  
Spike Recovery: 0 out of 5 outside limits

COMMENTS:



674 292

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0304/CVS/008

Level: (low/med) LOW

Lot #: C0J310200

WO #: DN4P61CP

BATCH: 0311599

| COMPOUND           | SPIKE            | MSD                 | MSD      | QC LIMITS |             | QUAL |
|--------------------|------------------|---------------------|----------|-----------|-------------|------|
|                    | ADDED<br>(mg/L ) | CONCENT.<br>(mg/L ) | %<br>REC | %<br>RPD  | RPD<br>REC  |      |
| Lindane            | 0.00250          | 0.00218             | 87       | 1.1       | 22 30 - 148 |      |
| Heptachlor         | 0.00250          | 0.00229             | 92       | 0.60      | 32 25 - 135 |      |
| Heptachlor epoxide | 0.00250          | 0.00220             | 88       | 1.8       | 31 38 - 138 |      |
| Endrin             | 0.00250          | 0.00271             | 108      | 0.44      | 40 28 - 148 |      |
| Methoxychlor       | 0.00250          | 0.00307             | 123      | 1.2       | 29 13 - 154 |      |

NOTES (S) :

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

RPD: 0 out of 5 outside limits  
 Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

## SW846 8081A METHOD BLANK SUMMARY

DPFF11AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

Lab File ID: D-A8171.d

Matrix: SOLID

SDG Number:

Lot Number: C0J310200

Extraction Method: 1311/3510

Date Extracted: 11/06/00

Date Analyzed(1): 11/07/00

Date Analyzed(2): N/A

Time Analyzed(1): 11:11

Time Analyzed(2): N/A

Instrument ID(1): G/H

Instrument ID(2): N/A

GC Column(1): DB608/1701 ID: 053 GC Column(2): N/A ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

|    | CLIENT ID.           | SAMPLE<br>WORK ORDER # | DATE<br>ANALYZED(1) | DATE<br>ANALYZED(2) |
|----|----------------------|------------------------|---------------------|---------------------|
| 01 | DF/24-A/0304/CVS/008 | DN4P61AE               | 11/07/00            | N/A                 |
| 02 | DF/24-A/0304/CVS/008 | DN4P61CN S             | 11/07/00            | N/A                 |
| 03 | DF/24-A/0304/CVS/008 | DN4P61CP D             | 11/07/00            | N/A                 |
| 04 | DF/24-A/0304/CVS/010 | DN4QJ1AE               | 11/07/00            | N/A                 |
| 05 | DF/24-A/0304/CVS/012 | DN4QK1AE               | 11/07/00            | N/A                 |
| 06 | CHECK SAMPLE         | DPFF11AC C             | 11/07/00            | N/A                 |
| 07 |                      |                        |                     |                     |
| 08 |                      |                        |                     |                     |
| 09 |                      |                        |                     |                     |
| 10 |                      |                        |                     |                     |
| 11 |                      |                        |                     |                     |
| 12 |                      |                        |                     |                     |
| 13 |                      |                        |                     |                     |
| 14 |                      |                        |                     |                     |
| 15 |                      |                        |                     |                     |
| 16 |                      |                        |                     |                     |
| 17 |                      |                        |                     |                     |
| 18 |                      |                        |                     |                     |
| 19 |                      |                        |                     |                     |
| 20 |                      |                        |                     |                     |

COMMENTS:

FORM IV

674 294

**PESTICIDE  
SAMPLE DATA**

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 10/31/00

Work Order: DN4P61AE

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/07/00

Moisture %: 16

QC Batch: 0311599

Client Sample Id: DF/24-A/0304/CVS/008

| CAS NO.   | COMPOUND              | CONCENTRATION UNITS: |   |
|-----------|-----------------------|----------------------|---|
|           |                       | (ug/L or ug/kg) mg/L | Q |
| 57-74-9   | Chlordane (technical) | 0.0050               | U |
| 72-20-8   | Endrin                | 0.00050              | U |
| 76-44-8   | Heptachlor            | 0.00050              | U |
| 1024-57-3 | Heptachlor epoxide    | 0.00050              | U |
| 58-89-9   | Lindane               | 0.00050              | U |
| 72-43-5   | Methoxychlor          | 0.0010               | U |
| 8001-35-2 | Toxaphene             | 0.020                | U |

Data File: \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8175.d  
 Report Date: 07-Nov-2000 15:10

## STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8175.d  
 Lab Smp Id: DN4P61AE Client Smp ID: DF/24-A/0304/CVS/00  
 Inj Date : 07-NOV-2000 13:02  
 Operator : 1891 Inst ID: gc4.i  
 Smp Info : DN4P61AE,8010-G.b,,PEST.sub,,  
 Misc Info : 310200001  
 Comment :  
 Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
 Meth Date : 07-Nov-2000 15:07 matkol Quant Type: ESTD  
 Cal Date : 02-NOV-2000 16:47 Cal File: D-A8027.d  
 Als bottle: 1  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: PEST.sub  
 Target Version: 4.04  
 Processing Host: PITPC044

Concentration Formula:  $\text{Amt} * \text{DF} * (\text{Vt}/\text{Vo})/\text{Vi}$

| Name | Value   | Description                     |
|------|---------|---------------------------------|
| DF   | 1.000   | Dilution Factor                 |
| Vt   | 10.000  | Volume of final extract (uL)    |
| Vo   | 100.000 | Volume of sample extracted (mL) |
| Vi   | 1.000   | Volume injected                 |

| Compounds                 | RT    | EXP RT | DLT RT | RESPONSE               | CONCENTRATIONS     |                  |
|---------------------------|-------|--------|--------|------------------------|--------------------|------------------|
|                           |       |        |        |                        | ON-COLUMN<br>( ng) | FINAL<br>( mg/L) |
| \$ 1 Tetrachloro-m-xylene | 5 193 | 5 193  | 0.000  | 98638                  | 0.01800            | 0 001800 (aR)    |
| 5 alpha-BHC               |       |        |        | Compound Not Detected. |                    |                  |
| 6 gamma-BHC (Lindane)     |       |        |        | Compound Not Detected. |                    |                  |
| 7 beta-BHC                |       |        |        | Compound Not Detected. |                    |                  |
| 9 Chlordane               |       |        |        | Compound Not Detected. |                    |                  |
| 10 Heptachlor             |       |        |        | Compound Not Detected. |                    |                  |
| 8 delta-BHC               |       |        |        | Compound Not Detected. |                    |                  |
| 11 Aldrin                 |       |        |        | Compound Not Detected. |                    |                  |
| 12 Heptachlor epoxide     |       |        |        | Compound Not Detected. |                    |                  |
| 13 gamma-Chlordane        |       |        |        | Compound Not Detected. |                    |                  |
| 14 alpha-Chlordane        |       |        |        | Compound Not Detected. |                    |                  |
| 15 Endosulfan I           |       |        |        | Compound Not Detected. |                    |                  |
| 16 4,4'-DDE               |       |        |        | Compound Not Detected. |                    |                  |
| 17 Dieldrin               |       |        |        | Compound Not Detected. |                    |                  |
| 20 Endrin                 |       |        |        | Compound Not Detected. |                    |                  |

674 297

| Compounds                | RT     | EXP RT | DLT RT | RESPONSE               | CONCENTRATIONS     |                  |
|--------------------------|--------|--------|--------|------------------------|--------------------|------------------|
|                          |        |        |        |                        | ON-COLUMN<br>( ng) | FINAL<br>( mg/L) |
| =====                    | ==     | =====  | =====  | =====                  | =====              | =====            |
| 21 4,4'-DDD              |        |        |        | Compound Not Detected. |                    |                  |
| 18 Toxaphene             |        |        |        | Compound Not Detected. |                    |                  |
| 22 Endosulfan II         | 15.100 | 15.053 | 0.047  | 1528                   | <0.0               | 0.00004078(a)    |
| 23 4,4'-DDT              |        |        |        | Compound Not Detected. |                    |                  |
| 24 Endrin aldehyde       |        |        |        | Compound Not Detected. |                    |                  |
| 26 Endosulfan sulfate    |        |        |        | Compound Not Detected. |                    |                  |
| 25 Methoxychlor          |        |        |        | Compound Not Detected. |                    |                  |
| 27 Endrin ketone         |        |        |        | Compound Not Detected. |                    |                  |
| \$ 30 Decachlorobiphenyl | 20.853 | 20.853 | 0.000  | 41392                  | 0.01894            | 0.001894(aR)     |

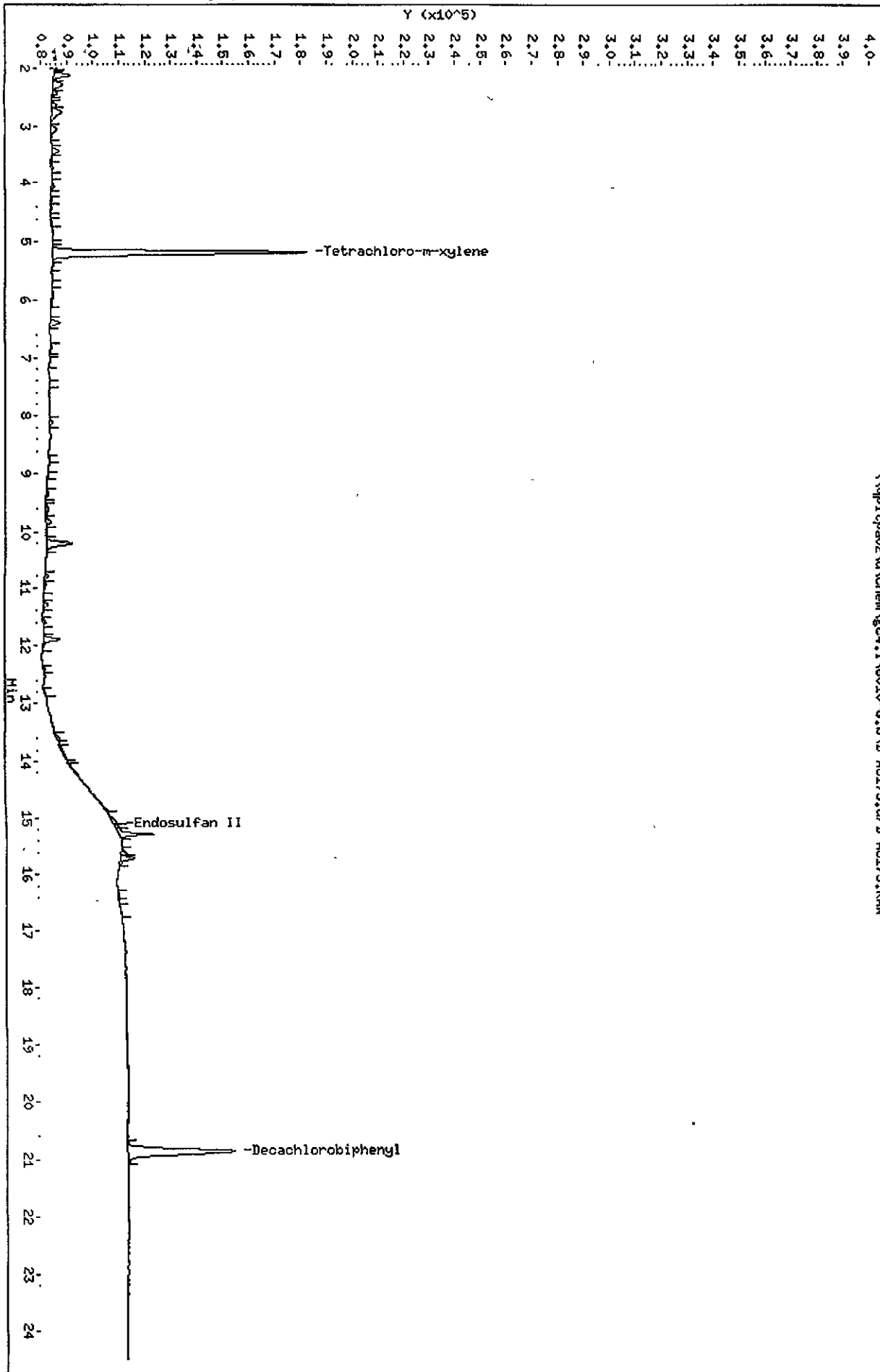
#### QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

Data File: \\ppitpa02\chem\gc04.i\8010-G.b\D-88175.d  
Date : 07-NOV-2000 13:02  
Client ID: DF/24-A/0304/CVS/00  
Sample Info: DM4P61AE,8010-G.b,,PEST,sub,,,  
Volume Injected (uL): 1.0  
Column phase: DB608

Instrument: gc04.i  
Operator: 1891  
Column diameter: 0.53

\\ppitpa02\chem\gc04.i\8010-G.b\D-88175.d\D-88175.RAN



Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 002

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 10/31/00

Work Order: DN4QJ1AE

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/07/00

Moisture %: 13

QC Batch: 0311599

Client Sample Id: DF/24-A/0304/CVS/010

| CAS NO.   | COMPOUND              | CONCENTRATION UNITS: |   |
|-----------|-----------------------|----------------------|---|
|           |                       | (ug/L or ug/kg) mg/L | Q |
| 57-74-9   | Chlordane (technical) | 0.0050               | U |
| 72-20-8   | Endrin                | 0.00050              | U |
| 76-44-8   | Heptachlor            | 0.00050              | U |
| 1024-57-3 | Heptachlor epoxide    | 0.00050              | U |
| 58-89-9   | Lindane               | 0.00050              | U |
| 72-43-5   | Methoxychlor          | 0.0010               | U |
| 8001-35-2 | Toxaphene             | 0.020                | U |



674 300  
 Data File: \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8176.d  
 Report Date: 07-Nov-2000 15:11

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8176.d  
 Lab Smp Id: DN4QJ1AE Client Smp ID: DF/24-A/0304/CVS/01  
 Inj Date : 07-NOV-2000 13:30  
 Operator : 1891 Inst ID: gc4.i  
 Smp Info : DN4QJ1AE,8010-G.b,,PEST.sub,,,  
 Misc Info : 310200002  
 Comment :  
 Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
 Meth Date : 07-Nov-2000 15:07 matkol Quant Type: ESTD  
 Cal Date : 02-NOV-2000 16:47 Cal File: D-A8027.d  
 Als bottle: 1  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: PEST.sub  
 Target Version: 4.04  
 Processing Host: PITPC044

Concentration Formula: Amt \* DF \* (Vt/Vo)/Vi

| Name | Value   | Description                     |
|------|---------|---------------------------------|
| DF   | 1.000   | Dilution Factor                 |
| Vt   | 10.000  | Volume of final extract (uL)    |
| Vo   | 100.000 | Volume of sample extracted (mL) |
| Vi   | 1.000   | Volume injected                 |

| Compounds                 | RT    | EXP RT | DLT RT | RESPONSE               | CONCENTRATIONS     |                  |
|---------------------------|-------|--------|--------|------------------------|--------------------|------------------|
|                           |       |        |        |                        | ON-COLUMN<br>( ng) | FINAL<br>( mg/L) |
| \$ 1 Tetrachloro-m-xylene | 5.193 | 5.193  | 0.000  | 100313                 | 0.01831            | 0.001831 (aR)    |
| 5 alpha-BHC               |       |        |        | Compound Not Detected. |                    |                  |
| 6 gamma-BHC (Lindane)     |       |        |        | Compound Not Detected. |                    |                  |
| 7 beta-BHC                |       |        |        | Compound Not Detected. |                    |                  |
| 9 Chlordane               |       |        |        | Compound Not Detected. |                    |                  |
| 10 Heptachlor             |       |        |        | Compound Not Detected. |                    |                  |
| 8 delta-BHC               |       |        |        | Compound Not Detected. |                    |                  |
| 11 Aldrin                 |       |        |        | Compound Not Detected. |                    |                  |
| 12 Heptachlor epoxide     |       |        |        | Compound Not Detected. |                    |                  |
| 13 gamma-Chlordane        |       |        |        | Compound Not Detected. |                    |                  |
| 14 alpha-Chlordane        |       |        |        | Compound Not Detected. |                    |                  |
| 15 Endosulfan I           |       |        |        | Compound Not Detected. |                    |                  |
| 16 4,4'-DDE               |       |        |        | Compound Not Detected. |                    |                  |
| 17 Dieldrin               |       |        |        | Compound Not Detected. |                    |                  |
| 20 Endrin                 |       |        |        | Compound Not Detected. |                    |                  |

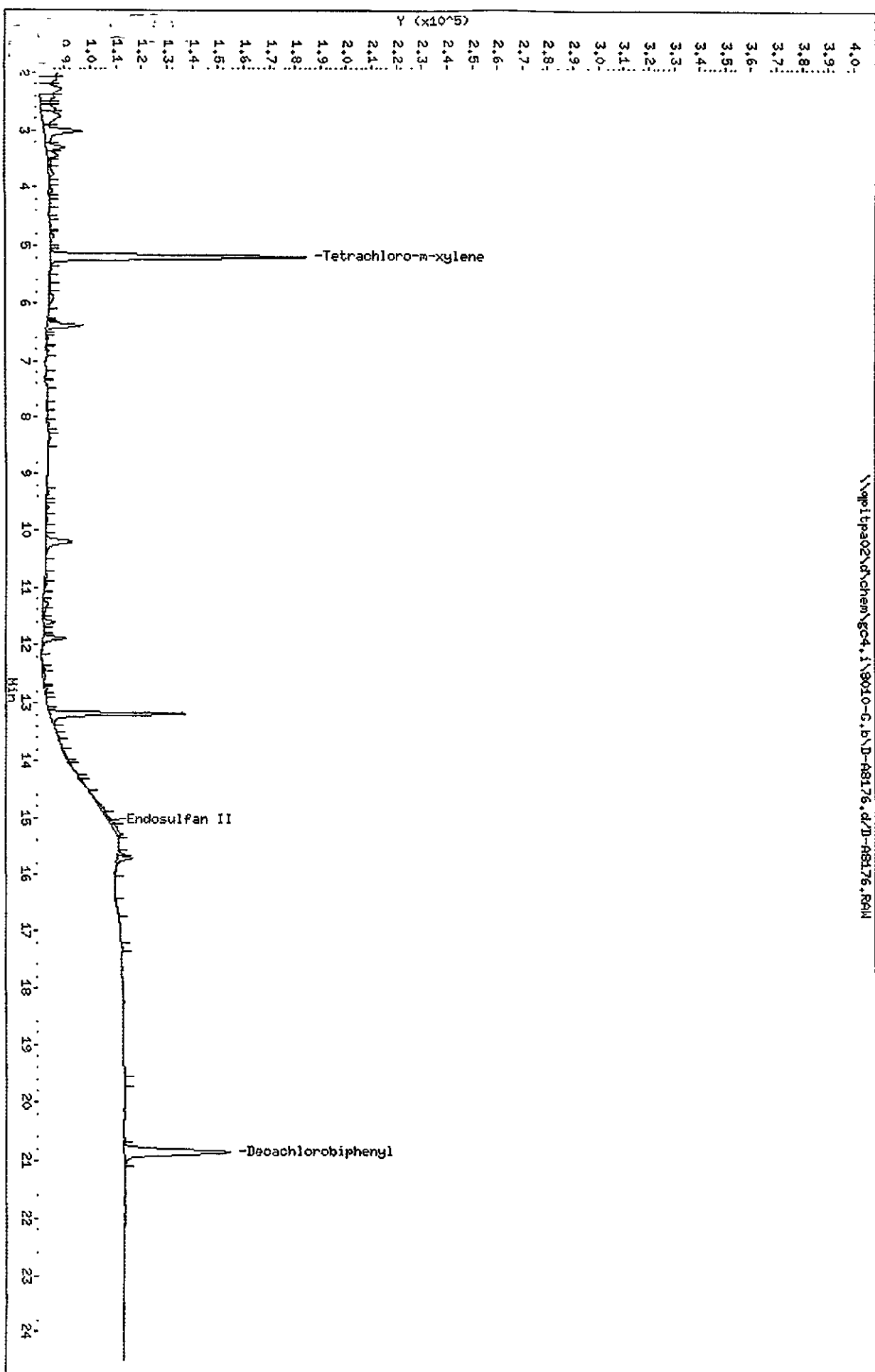
| Compounds                | RT     | EXP RT | DLT RT | RESPONSE               | CONCENTRATIONS     |                  |
|--------------------------|--------|--------|--------|------------------------|--------------------|------------------|
|                          |        |        |        |                        | ON-COLUMN<br>( ng) | FINAL<br>( mg/L) |
| =====                    | ==     | =====  | =====  | =====                  | =====              | =====            |
| 21 4,4'-DDD              |        |        |        | Compound Not Detected. |                    |                  |
| 18 Toxaphene             |        |        |        | Compound Not Detected. |                    |                  |
| 22 Endosulfan II         | 15.026 | 15.053 | -0.027 | 1046                   | <0.0               | 0.00002791(a)    |
| 23 4,4'-DDT              |        |        |        | Compound Not Detected. |                    |                  |
| 24 Endrin aldehyde       |        |        |        | Compound Not Detected. |                    |                  |
| 26 Endosulfan sulfate    |        |        |        | Compound Not Detected. |                    |                  |
| 25 Methoxychlor          |        |        |        | Compound Not Detected. |                    |                  |
| 27 Endrin ketone         |        |        |        | Compound Not Detected. |                    |                  |
| \$ 30 Decachlorobiphenyl | 20.853 | 20.853 | 0.000  | 41493                  | 0.01898            | 0.001898(aR)     |

#### QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

Date File: \\pp1tpa02\chem\gc4.1\8010-G.b\B-A8176.d  
Date: 07-NOV-2000 13:30  
Client ID: DF/24-A/0304/CVS/01  
Sample Info: DH4031AE, 8010-G.b, PEST, sub,,  
Volume Injected (uL): 1.0  
Column phase: DB608

Instrument: gc4.i  
Operator: 1891  
Column diameter: 0.53



Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 003

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 10/31/00

Work Order: DN4QK1AE

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/07/00

Moisture %: 17

QC Batch: 0311599

Client Sample Id: DF/24-A/0304/CVS/012

| CAS NO.   | COMPOUND              | CONCENTRATION UNITS: |   |
|-----------|-----------------------|----------------------|---|
|           |                       | (ug/L or ug/kg) mg/L | Q |
| 57-74-9   | Chlordane (technical) | 0.0050               | U |
| 72-20-8   | Endrin                | 0.00050              | U |
| 76-44-8   | Heptachlor            | 0.00050              | U |
| 1024-57-3 | Heptachlor epoxide    | 0.00050              | U |
| 58-89-9   | Lindane               | 0.00050              | U |
| 72-43-5   | Methoxychlor          | 0.0010               | U |
| 8001-35-2 | Toxaphene             | 0.020                | U |

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8177.d  
 Lab Smp Id: DN4QK1AE Client Smp ID: DF/24-A/0304/CVS/01  
 Inj Date : 07-NOV-2000 13:57  
 Operator : 1891 Inst ID: gc4.i  
 Smp Info : DN4QK1AE,8010-G.b,,PEST.sub,,  
 Misc Info : 310200003  
 Comment :  
 Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
 Meth Date : 07-Nov-2000 15:07 matkol Quant Type: ESTD  
 Cal Date : 02-NOV-2000 16:47 Cal File: D-A8027.d  
 Als bottle: 1  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: PEST.sub  
 Target Version: 4.04  
 Processing Host: PITPC044

Concentration Formula: Amt \* DF \* (Vt/Vo)/Vi

| Name | Value   | Description                     |
|------|---------|---------------------------------|
| DF   | 1.000   | Dilution Factor                 |
| Vt   | 10.000  | Volume of final extract (uL)    |
| Vo   | 100.000 | Volume of sample extracted (mL) |
| Vi   | 1.000   | Volume injected                 |

| Compounds                 | RT    | EXP RT | DLT RT | RESPONSE               | CONCENTRATIONS     |                  |
|---------------------------|-------|--------|--------|------------------------|--------------------|------------------|
|                           |       |        |        |                        | ON-COLUMN<br>( ng) | FINAL<br>( mg/L) |
| \$ 1 Tetrachloro-m-xylene | 5.193 | 5.193  | 0.000  | 101585                 | 0.01854            | 0.001854 (aR)    |
| 5 alpha-BHC               |       |        |        | Compound Not Detected  |                    |                  |
| 6 gamma-BHC (Lindane)     |       |        |        | Compound Not Detected  |                    |                  |
| 7 beta-BHC                |       |        |        | Compound Not Detected  |                    |                  |
| 9 Chlordane               |       |        |        | Compound Not Detected  |                    |                  |
| 10 Heptachlor             |       |        |        | Compound Not Detected. |                    |                  |
| 8 delta-BHC               |       |        |        | Compound Not Detected. |                    |                  |
| 11 Aldrin                 |       |        |        | Compound Not Detected. |                    |                  |
| 12 Heptachlor epoxide     |       |        |        | Compound Not Detected. |                    |                  |
| 13 gamma-Chlordane        |       |        |        | Compound Not Detected. |                    |                  |
| 14 alpha-Chlordane        |       |        |        | Compound Not Detected. |                    |                  |
| 15 Endosulfan I           |       |        |        | Compound Not Detected  |                    |                  |
| 16 4,4'-DDE               |       |        |        | Compound Not Detected. |                    |                  |
| 17 Dieldrin               |       |        |        | Compound Not Detected  |                    |                  |
| 20 Endrin                 |       |        |        | Compound Not Detected  |                    |                  |

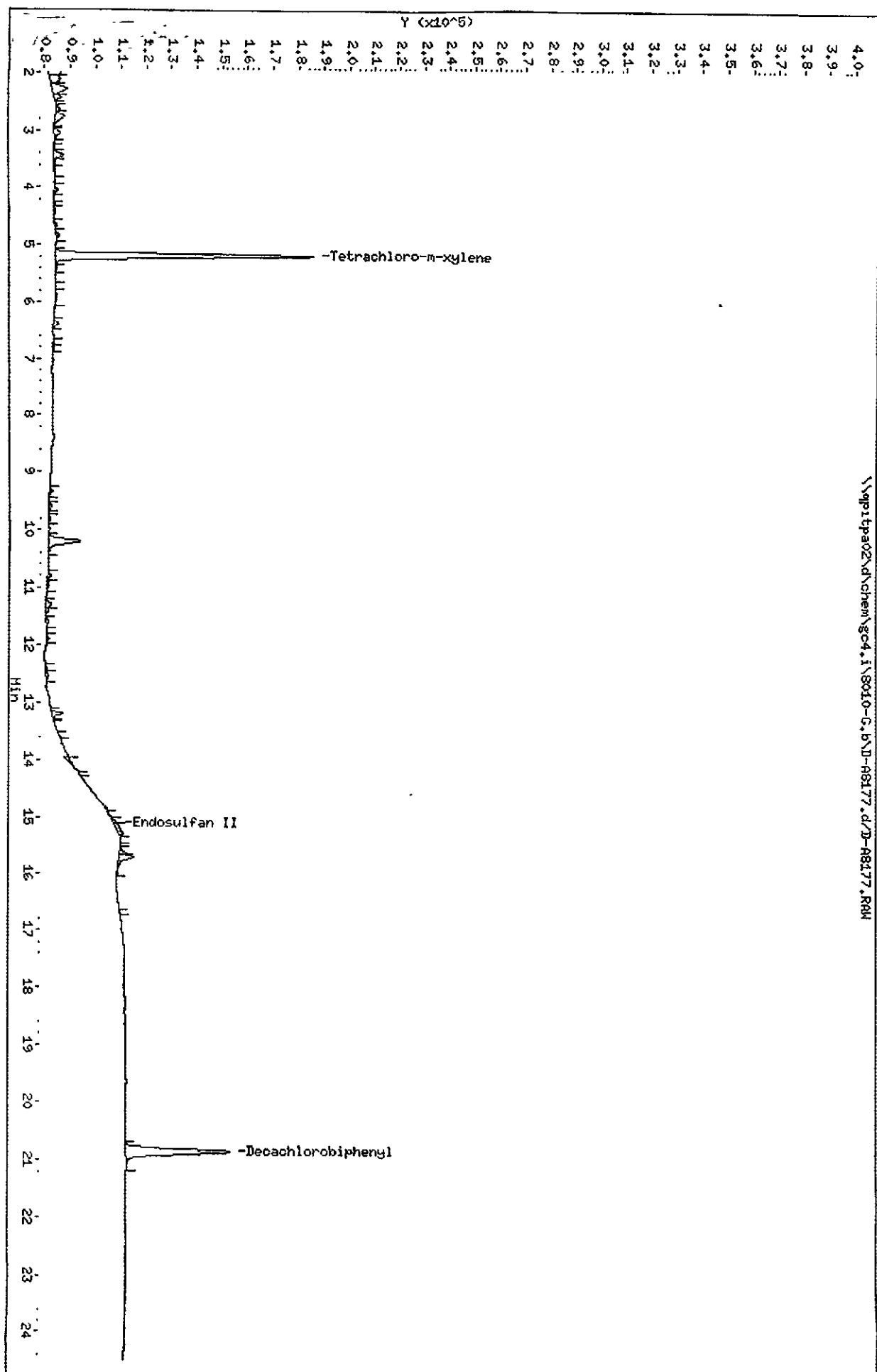
| Compounds                | RT     | EXP RT | DLT RT | RESPONSE               | CONCENTRATIONS     |                  |
|--------------------------|--------|--------|--------|------------------------|--------------------|------------------|
|                          |        |        |        |                        | ON-COLUMN<br>( ng) | FINAL<br>( mg/L) |
| =====                    | ==     | =====  | =====  | =====                  | =====              | =====            |
| 21 4,4'-DDD              |        |        |        | Compound Not Detected. |                    |                  |
| 18 Toxaphene             |        |        |        | Compound Not Detected  |                    |                  |
| 22 Endosulfan II         | 15.100 | 15.053 | 0.047  | 1134                   | <0.0               | 0.00003026(a)    |
| 23 4,4'-DDT              |        |        |        | Compound Not Detected. |                    |                  |
| 24 Endrin aldehyde       |        |        |        | Compound Not Detected. |                    |                  |
| 26 Endosulfan sulfate    |        |        |        | Compound Not Detected. |                    |                  |
| 25 Methoxychlor          |        |        |        | Compound Not Detected. |                    |                  |
| 27 Endrin ketone         |        |        |        | Compound Not Detected. |                    |                  |
| \$ 30 Decachlorobiphenyl | 20.853 | 20.853 | 0.000  | 41054                  | 0.01878            | 0.001878(aR)     |

# QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

Data File: \\ppltpa02\chem\gc4.1\8010-G.b\D-A8177.d  
Date: 07-NOV-2000 13:57  
Client ID: DF/24-R/0304/CVS/01  
Sample Info: DN4QK1AE,8010-G.b,,PEST,sub,,,  
Volume Injected (uL): 1.0  
Column phase: DB608

Instrument: gc4.1  
Operator: 1891  
Column diameter: 0.53



674 307

**PESTICIDE  
CALIBRATION DATA**



674 308

Report Date : 07-Nov-2000 15:02

61)  
58904A  
08608

STL-Pittsburgh

## COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
 Quant Method : ESTD Target Version : 4.04  
 Last Update : 07-Nov-2000 15:01 Number of Cpnds : 31  
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

-----  
 Initial:Start Threshold 40.000000  
 Initial:End Threshold 20.000000  
 Initial:Area Threshold 1000.000000  
 Initial:P-P Resolution 1.000000  
 Initial:Bunch Factor 1.000000  
 Initial:Negative Peaks ON  
 Initial:Tension 0.000000

| Compound                  | RT     | RT Window     | RF        |
|---------------------------|--------|---------------|-----------|
| \$ 1 Tetrachloro-m-xylene | 5.193  | 5.143-5.243   | 5.48e+006 |
| 2 Diallate A              | 6.400  | 6.350-6.450   | 1.71e+005 |
| 3 Diallate B              | 6.673  | 6.623-6.723   | 4.76e+004 |
| 4 HEXACHLOROBENZENE       | 7.193  | 7.143-7.243   |           |
| 5 alpha-BHC               | 7.380  | 7.330-7.430   | 6.87e+006 |
| 6 gamma-BHC (Lindane)     | 8.740  | 8.690-8.790   | 6.27e+006 |
| 7 beta-BHC                | 9.020  | 8.970-9.070   | 3.42e+006 |
| 8 delta-BHC               | 10.420 | 10.370-10.470 | 4.91e+006 |
| 9 Chlordane               | 9.353  | 9.303-9.403   | 1.78e+005 |
|                           | 9.960  | 9.910-10.010  | 2.01e+005 |
|                           | 13.267 | 13.217-13.317 | 4.93e+005 |
|                           | 13.593 | 13.543-13.643 | 3.96e+005 |
| 10 Heptachlor             | 9.933  | 9.883-9.983   | 4.62e+006 |
| 11 Aldrin                 | 11.160 | 11.110-11.210 | 4.50e+006 |
| 12 Heptachlor epoxide     | 12.873 | 12.823-12.923 | 4.65e+006 |
| 13 gamma-Chlordane        | 13.253 | 13.203-13.303 | 4.70e+006 |
| 14 alpha-Chlordane        | 13.580 | 13.530-13.630 | 4.64e+006 |
| 15 Endosulfan I           | 13.633 | 13.583-13.683 | 4.32e+006 |
| 16 4,4'-DDE               | 14.067 | 14.017-14.117 | 4.23e+006 |
| 17 Dieldrin               | 14.187 | 14.137-14.237 | 4.43e+006 |
| 18 Toxaphene              | 14.953 | 14.903-15.003 | 7.36e+004 |
|                           | 15.093 | 15.043-15.143 | 9.02e+004 |
|                           | 15.453 | 15.403-15.503 | 6.64e+004 |
|                           | 16.547 | 16.497-16.597 | 5.97e+004 |

Report Date : 07-Nov-2000 15:02

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674 309

STL-Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m

| Compound                 | RT     | RT Window     | RF        |
|--------------------------|--------|---------------|-----------|
| 19 Isodrin               | 12.560 | 12.510-12.610 | 3.64e+006 |
| 20 Endrin                | 14.773 | 14.723-14.823 | 3.46e+006 |
| 21 4,4'-DDD              | 14.933 | 14.883-14.983 | 3.09e+006 |
| 22 Endosulfan II         | 15.053 | 15.003-15.103 | 3.75e+006 |
| 23 4,4'-DDT              | 15.407 | 15.357-15.457 | 2.92e+006 |
| 24 Endrin aldehyde       | 15.580 | 15.530-15.630 | 2.72e+006 |
| 25 Methoxychlor          | 17.020 | 16.970-17.070 | 1.14e+006 |
| 26 Endosulfan sulfate    | 15.800 | 15.750-15.850 | 2.10e+006 |
| 27 Endrin ketone         | 17.393 | 17.343-17.443 | 2.88e+006 |
| 28 MIREX                 | 17.773 | 17.723-17.823 |           |
| 29 Kepone                | 14.873 | 14.823-14.923 | 5.96e+005 |
| 58 CHLOROBENZILATE       | 14.620 | 14.570-14.670 | 5.35e+005 |
| \$ 30 Decachlorobiphenyl | 20.853 | 20.803-20.903 | 2.19e+006 |

674 310  
Report Date : 03-Nov-2000 08:29

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STL-Pittsburgh

# INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2000 09:24  
End Cal Date : 02-NOV-2000 16:47  
Quant Method : ESTD  
Origin : Disabled  
Target Version : 4.04  
Integrator : Falcon  
Method file : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Cal Date : 03-Nov-2000 08:27 matkol  
Curve Type : Average

## Calibration File Names:

Level 1: \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8023.d  
Level 2: \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8024.d  
Level 3: \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8025.d  
Level 4: \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8026.d  
Level 5: \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8027.d

| Compound              | 0.00500 | 0.01000 | 0.02500 | 0.05000 | 0.10000 | RRF     | % RSD    |
|-----------------------|---------|---------|---------|---------|---------|---------|----------|
| -----                 | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | -----   | -----    |
| 2 Diallylate A        | 239000  | 197280  | 155192  | 132683  | 129691  | 170769  | 27.371<- |
| 3 Diallylate B        | 60820   | 54788   | 44966   | 39172   | 38265   | 47602   | 20.784<- |
| 4 HEXACHLOROBENZENE   | +++++   | +++++   | +++++   | +++++   | +++++   | +++++   | +++++    |
| 5 alpha-BHC           | 6897400 | 7039200 | 6891840 | 6928220 | 6576700 | 6866672 | 2.514    |
| 6 gamma-BHC (Lindane) | 6485400 | 6549300 | 6254240 | 6196920 | 5886880 | 6274548 | 4.192    |
| 7 beta-BHC            | 3861600 | 3893100 | 3329400 | 3148220 | 2869800 | 3420424 | 13.104   |
| 8 delta-BHC           | 4622000 | 5069800 | 4870680 | 5024240 | 4939170 | 4905178 | 3.587    |
| 9 Chlordane(1)        | +++++   | +++++   | 178256  | +++++   | +++++   | 178256  | 0.000    |
| (2)                   | +++++   | +++++   | 200672  | +++++   | +++++   | 200672  | 0.000    |
| (3)                   | +++++   | +++++   | 493112  | +++++   | +++++   | 493112  | 0.000    |
| (4)                   | +++++   | +++++   | 395520  | +++++   | +++++   | 395520  | 0.000    |
| 10 Heptachlor         | 4887000 | 4787500 | 4519600 | 4531100 | 4392770 | 4623594 | 4.444    |
| 11 Aldrin             | 4453400 | 4691300 | 4424880 | 4553820 | 4389640 | 4502608 | 2.708    |
| 12 Heptachlor epoxide | 4612000 | 4855000 | 4565000 | 4657820 | 4550390 | 4648042 | 2.649    |
| 13 gamma-Chlordane    | 4634600 | 4910100 | 4607160 | 4766660 | 4567550 | 4697214 | 2.992    |
| 14 alpha-Chlordane    | 4630600 | 4890200 | 4584200 | 4626980 | 4482380 | 4642872 | 3.245    |
| 15 Endosulfan I       | 4344400 | 4408000 | 4192800 | 4360560 | 4273740 | 4315900 | 1.946    |
| 16 4,4'-DDE           | 3986000 | 4252400 | 4193000 | 4394700 | 4328260 | 4230872 | 3.703    |
| 17 Dieldrin           | 4141600 | 4345300 | 4360800 | 4607200 | 4682440 | 4427468 | 4.926    |
| 18 Toxaphene(1)       | +++++   | +++++   | 73630   | +++++   | +++++   | 73630   | 0.000    |
| (2)                   | +++++   | +++++   | 90240   | +++++   | +++++   | 90240   | 0.000    |
| (3)                   | +++++   | +++++   | 66428   | +++++   | +++++   | 66428   | 0.000    |
| (4)                   | +++++   | +++++   | 59718   | +++++   | +++++   | 59718   | 0.000    |
| 19 Isodrin            | 3991300 | 3918080 | 3489580 | 3308213 | 3478390 | 3637113 | 8.243    |
| 20 Endrin             | 3254800 | 3365000 | 3363000 | 3662820 | 3651530 | 3459430 | 5.376    |
| 21 4,4'-DDD           | 3117400 | 3052400 | 2933840 | 3205200 | 3159810 | 3093730 | 3.414    |

Report Date : 03-Nov-2000 08:29

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674 311

STL-Pittsburgh

# INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2000 09:24  
End Cal Date : 02-NOV-2000 16:47  
Quant Method : ESTD  
Origin : Disabled  
Target Version : 4.04  
Integrator : Falcon  
Method file : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Cal Date : 03-Nov-2000 08:27 matkol  
Curve Type : Average

| Compound                  | 0.00500 | 0.01000 | 0.02500 | 0.05000 | 0.10000 | RRF     | % RSD     |
|---------------------------|---------|---------|---------|---------|---------|---------|-----------|
| Level 1                   | Level 2 | Level 3 | Level 4 | Level 5 |         |         |           |
| 22 Endosulfan II          | 3545400 | 3837400 | 3571920 | 3882360 | 3899060 | 3747228 | 4.640     |
| 23 4,4'-DDT               | 2623200 | 2761000 | 2862280 | 3119860 | 3228280 | 2918924 | 8.593     |
| 24 Endrin aldehyde        | 2721200 | 2800900 | 2640360 | 2730040 | 2698770 | 2718254 | 2.131     |
| 25 Methoxychlor           | 1085800 | 1123750 | 1109500 | 1181610 | 1199120 | 1139956 | 4.243     |
| 26 Endosulfan sulfate     | 1878600 | 2035700 | 2046080 | 2229700 | 2334550 | 2104926 | 8.491     |
| 27 Endrin ketone          | 2700200 | 2907500 | 2870720 | 2937640 | 2986340 | 2880480 | 3.795     |
| 28 MIREX                  | +++++   | +++++   | +++++   | +++++   | +++++   | +++++   | +++++     |
| 29 Kepone                 | 158480  | 376944  | 583020  | 867307  | 996547  | 596460  | 57.691 <- |
| 58 CHLOROBENZILATE        | 608400  | 791800  | 574400  | 414560  | 288240  | 535480  | 35.956 <- |
| \$ 1 Tetrachloro-m-xylene | 6401400 | 6046100 | 5377640 | 5029940 | 4541660 | 5479348 | 13.727    |
| \$ 30 Decachlorobiphenyl  | 2307600 | 2319900 | 2156440 | 2118660 | 2026230 | 2185766 | 5.771     |

AVE = 9.64

674 312

7D

## PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 4140-G

GC Column: DB608

ID: 0.53 (mm) Init. Calib. Date(s): 11/02/00 11/02/00

EPA Sample No. (PIBLK): \_\_\_\_\_

Date Analyzed : \_\_\_\_\_

Lab Sample ID (PIBLK): \_\_\_\_\_

Time Analyzed : \_\_\_\_\_

EPA Sample No. (PEM):

Date Analyzed : 11/02/00

Lab Sample ID (PEM): EVALB

Time Analyzed : 0856

| PEM<br>COMPOUND | RT    | RT WINDOW<br>FROM TO |       | CALC<br>AMOUNT<br>(ng) | NOM<br>AMOUNT<br>(ng) | %D    |
|-----------------|-------|----------------------|-------|------------------------|-----------------------|-------|
| =====           | ===== | =====                | ===== | =====                  | =====                 | ===== |
| Endrin          | 14.78 | 14.73                | 14.83 | 0.02269                | 0.02500               | -9.2  |
| 4,4'-DDT        | 15.41 | 15.36                | 15.46 | 0.02227                | 0.02500               | -10.9 |
| _____           | _____ | _____                | _____ | _____                  | _____                 | _____ |
| _____           | _____ | _____                | _____ | _____                  | _____                 | _____ |
| _____           | _____ | _____                | _____ | _____                  | _____                 | _____ |
| _____           | _____ | _____                | _____ | _____                  | _____                 | _____ |

4,4'-DDT % breakdown (1): ~~7.94~~ 9.6 Endrin % breakdown (1): ~~16.05~~  
 Combined % breakdown (1): ~~24.00~~ 22.1 12.5

LM  
to 11/3/00

FORM VII PEST-1

OLM03.0

7D  
PESTICIDE CALIBRATION VERIFICATION SUMMARY **674 313**

Lab Name: \_\_\_\_\_ Contract: \_\_\_\_\_  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: 4140-G  
 GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 11/02/00 11/02/00  
 EPA Sample No. (PIBLK): \_\_\_\_\_ Date Analyzed : \_\_\_\_\_  
 Lab Sample ID (PIBLK): \_\_\_\_\_ Time Analyzed : \_\_\_\_\_  
 EPA Sample No. (PEM): \_\_\_\_\_ Date Analyzed : 11/02/00  
 Lab Sample ID (PEM): EVALB Time Analyzed : 1811

| PEM<br>COMPOUND | RT    | RT WINDOW<br>FROM TO |       | CALC<br>AMOUNT<br>(ng) | NOM<br>AMOUNT<br>(ng) | %D    |
|-----------------|-------|----------------------|-------|------------------------|-----------------------|-------|
| =====           | ===== | =====                | ===== | =====                  | =====                 | ===== |
| Endrin          | 14.78 | 14.73                | 14.83 | 0.02441                | 0.02500               | -2.4  |
| 4,4'-DDT        | 15.41 | 15.36                | 15.46 | 0.02440                | 0.02500               | -2.4  |
|                 |       |                      |       |                        |                       |       |
|                 |       |                      |       |                        |                       |       |
|                 |       |                      |       |                        |                       |       |
|                 |       |                      |       |                        |                       |       |
|                 |       |                      |       |                        |                       |       |

4,4'-DDT % breakdown (1): ~~3.10~~ **4.4** Endrin % breakdown (1): ~~15.45~~  
 Combined % breakdown (1): ~~18.55~~ **15.7** **11.3**

*lm*  
11/3/00

674 314

7D

## PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 4140-G

GC Column: DB608

ID: 0.53 (mm) Init. Calib. Date(s): 11/02/00 11/02/00

EPA Sample No. (PIBLK): \_\_\_\_\_

Date Analyzed : \_\_\_\_\_

Lab Sample ID (PIBLK): \_\_\_\_\_

Time Analyzed : \_\_\_\_\_

EPA Sample No. (PEM): \_\_\_\_\_

Date Analyzed : 11/07/00

Lab Sample ID (PEM): EVALB

Time Analyzed : 0918

| PEM<br>COMPOUND | RT    | RT WINDOW<br>FROM TO |       | CALC<br>AMOUNT<br>(ng) | NOM<br>AMOUNT<br>(ng) | %D    |
|-----------------|-------|----------------------|-------|------------------------|-----------------------|-------|
| =====           | ===== | =====                | ===== | =====                  | =====                 | ===== |
| Endrin          | 14.77 | 14.72                | 14.82 | 0.02975                | 0.02500               | 19.0  |
| 4,4'-DDT        | 15.41 | 15.36                | 15.46 | 0.03000                | 0.02500               | 20.0  |
| _____           | _____ | _____                | _____ | _____                  | _____                 | _____ |
| _____           | _____ | _____                | _____ | _____                  | _____                 | _____ |
| _____           | _____ | _____                | _____ | _____                  | _____                 | _____ |
| _____           | _____ | _____                | _____ | _____                  | _____                 | _____ |

4,4'-DDT % breakdown (1):

~~1.98~~

2.3

Endrin % breakdown (1):

~~10.16~~

Combined % breakdown (1):

~~12.15~~

8.7

um 11/7/00

~~6.9~~

6.4

FORM VII PEST-1

OLM03.0

Data File: \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8169.d  
Report Date: 07-Nov-2000 15:01

7L 674 315  
SB904A  
DB608

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 07-NOV-2000 09:46  
Lab File ID: D-A8169.d Init. Cal. Date(s): 02-NOV-2000 02-NOV-2000  
Analysis Type: Init. Cal. Times: 09:24 16:47  
Lab Sample ID: MEDA Quant Type: ESTD  
Method: \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m

| COMPOUND                  | RRF     | RFO     | MIN   | MAX           |
|---------------------------|---------|---------|-------|---------------|
| \$ 1 Tetrachloro-m-xylene | 5479348 | 5931200 | 0.000 | 8 2  15.0     |
| 5 alpha-BHC               | 6866672 | 7454240 | 0.010 | 8 6  15.0     |
| 6 gamma-BHC (Lindane)     | 6274548 | 6670480 | 0.010 | 6 3  15.0     |
| 10 Heptachlor             | 4623594 | 5069080 | 0.010 | 9 6  15.0     |
| 15 Endosulfan I           | 4315900 | 4457400 | 0.010 | 3.3  15.0     |
| 17 Dieldrin               | 4427468 | 4668880 | 0.010 | 5.5  15.0     |
| 20 Endrin                 | 3459430 | 4206000 | 0.010 | 21.6  15.0 <- |
| 21 4,4'-DDD               | 3093730 | 3624880 | 0.010 | 17.2  15.0 <- |
| 23 4,4'-DDT               | 2918924 | 3461600 | 0.010 | 18.6  15.0 <- |
| 25 Methoxychlor           | 1139956 | 1538480 | 0.010 | 35.0  15.0 <- |
| \$ 30 Decachlorobiphenyl  | 2185766 | 2217400 | 0.010 | 1.4  15.0     |



674 316

Data File: \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8170.d  
 Report Date: 07-Nov-2000 15:01

7L  
 58904A  
 DB608

STL-Pittsburgh

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 07-NOV-2000 10:14  
 Lab File ID: D-A8170.d Init. Cal. Date(s): 02-NOV-2000 02-NOV-2000  
 Analysis Type: Init. Cal. Times: 09:24 16:47  
 Lab Sample ID: MEDB Quant Type: ESTD  
 Method: \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m

| COMPOUND              | RRF     | RFD     | MIN   | MAX          |
|-----------------------|---------|---------|-------|--------------|
| -----                 | -----   | -----   | ----- | -----        |
| 11 Aldrin             | 4502608 | 4720840 | 0.010 | 4.8 15.0     |
| 7 beta-BHC            | 3420424 | 3519440 | 0.010 | 2.9 15.0     |
| 8 delta-BHC           | 4905178 | 5677640 | 0.010 | 15.7 15.0 <- |
| 12 Heptachlor epoxide | 4648042 | 4850880 | 0.010 | 4.4 15.0     |
| 13 gamma-Chlordane    | 4697214 | 4916560 | 0.010 | 4.7 15.0     |
| 14 alpha-Chlordane    | 4642872 | 4781080 | 0.010 | 3.0 15.0     |
| 16 4,4'-DDE           | 4230872 | 4797680 | 0.010 | 13.4 15.0    |
| 22 Endosulfan II      | 3747228 | 3859880 | 0.010 | 3.0 15.0     |
| 24 Endrin aldehyde    | 2718254 | 2823760 | 0.010 | 3.9 15.0     |
| 26 Endosulfan sulfate | 2104926 | 2523240 | 0.010 | 19.9 15.0 <- |
| 27 Endrin ketone      | 2880480 | 2910920 | 0.010 | 1.1 15.0     |

AVE = 9.64

Data File: \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8178.d  
 Report Date: 07-Nov-2000 15:07

7E  
 08904A  
 06608

STL-Pittsburgh

674 317

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 07-NOV-2000 14:25  
 Lab File ID: D-A8178.d Init. Cal. Date(s): 02-NOV-2000 02-NOV-2000  
 Analysis Type: Init. Cal. Times: 09:24 16:47  
 Lab Sample ID: MEDA Quant Type: ESTD  
 Method: \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m

| COMPOUND                  | RRF     | RFO     | MIN   | MAX  |
|---------------------------|---------|---------|-------|------|
| RRF                       | %D      | %D      |       |      |
| \$ 1 Tetrachloro-m-xylene | 5479348 | 6125320 | 0.000 | 11.8 |
| 5 alpha-BHC               | 6866672 | 7723360 | 0.010 | 12.5 |
| 6 gamma-BHC (Lindane)     | 6274548 | 6848040 | 0.010 | 9.1  |
| 10 Heptachlor             | 4623594 | 5272360 | 0.010 | 14.0 |
| 15 Endosulfan I           | 4315900 | 4516440 | 0.010 | 4.6  |
| 17 Dieldrin               | 4427468 | 4741360 | 0.010 | 7.1  |
| 20 Endrin                 | 3459430 | 4337080 | 0.010 | 25.4 |
| 21 4,4'-DDD               | 3093730 | 3722320 | 0.010 | 20.3 |
| 23 4,4'-DDT               | 2918924 | 3577440 | 0.010 | 22.6 |
| 25 Methoxychlor           | 1139956 | 1589980 | 0.010 | 39.5 |
| \$ 30 Decachlorobiphenyl  | 2185766 | 2265000 | 0.010 | 3.6  |

674 318

Data File: \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8179.d  
Report Date: 07-Nov-2000 15:19

7E  
189044  
066008

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 07-NOV-2000 14:53  
Lab File ID: D-A8179.d Init. Cal. Date(s): 02-NOV-2000 02-NOV-2000  
Analysis Type: Init. Cal. Times: 09:24 16:47  
Lab Sample ID: MEDB Quant Type: ESTD  
Method: \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m

| COMPOUND              | RRF     | RPO     | MIN   | MAX          |
|-----------------------|---------|---------|-------|--------------|
| =====                 | =====   | =====   | ===== | =====        |
| 11 Aldrin             | 4502608 | 4757040 | 0.010 | 5.7 15.0     |
| 7 beta-BHC            | 3420424 | 3491440 | 0.010 | 2.1 15.0     |
| 8 delta-BHC           | 4905178 | 5688560 | 0.010 | 16.0 15.0 <- |
| 12 Heptachlor epoxide | 4648042 | 4902520 | 0.010 | 5.5 15.0     |
| 13 gamma-Chlordane    | 4697214 | 4963920 | 0.010 | 5.7 15.0     |
| 14 alpha-Chlordane    | 4642872 | 4831680 | 0.010 | 4.1 15.0     |
| 16 4,4'-DDE           | 4230872 | 4838680 | 0.010 | 14.4 15.0    |
| 22 Endosulfan II      | 3747228 | 3840720 | 0.010 | 2.5 15.0     |
| 24 Endrin aldehyde    | 2718254 | 2928160 | 0.010 | 7.7 15.0     |
| 26 Endosulfan sulfate | 2104926 | 2619560 | 0.010 | 24.4 15.0 <- |
| 27 Endrin ketone      | 2880480 | 2974960 | 0.010 | 3.3 15.0     |

AVE=11.9

8D  
PESTICIDE ANALYTICAL SEQUENCE

674 319

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C0J310200

GC Column: DB608

ID: 0.53 (mm) Init. Calib. Date(s): 11/02/00 11/02/00

Instrument ID: GC4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
SAMPLES, AND STANDARDS IS GIVEN BELOW:

| MEAN SURROGATE RT FROM INITIAL CALIBRATION |                  |                  |                  |             |             |
|--------------------------------------------|------------------|------------------|------------------|-------------|-------------|
| TCX: 5.19                                  |                  |                  | DCB: 20.85       |             |             |
| EPA<br>SAMPLE NO.                          | LAB<br>SAMPLE ID | DATE<br>ANALYZED | TIME<br>ANALYZED | TCX<br>RT # | DCB<br>RT # |
| 01                                         | EVALB            | 11/02/00         | 0856             | 5.21        | 20.88       |
| 02                                         | MEDTOX           | 11/02/00         | 0924             | 5.21        | 20.89       |
| 03                                         | MEDCHLOR         | 11/02/00         | 0951             | 5.20        | 20.89       |
| 04                                         | LOWA             | 11/02/00         | 1238             | 5.20        | 20.88       |
| 05                                         | MLOWA            | 11/02/00         | 1306             | 5.20        | 20.88       |
| 06                                         | MEDA             | 11/02/00         | 1333             | 5.20        | 20.88       |
| 07                                         | MHIGHA           | 11/02/00         | 1401             | 5.20        | 20.89       |
| 08                                         | HIGHA            | 11/02/00         | 1429             | 5.20        | 20.88       |
| 09                                         | LOWB             | 11/02/00         | 1457             |             |             |
| 10                                         | MLOWB            | 11/02/00         | 1524             |             |             |
| 11                                         | MEDB             | 11/02/00         | 1552             |             |             |
| 12                                         | MHIGHB           | 11/02/00         | 1620             |             |             |
| 13                                         | HIGHB            | 11/02/00         | 1647             |             |             |
| 14                                         | 2ND A            | 11/02/00         | 1715             | 5.20        | 20.88       |
| 15                                         | 2ND B            | 11/02/00         | 1743             |             |             |
| 16                                         | EVALB            | 11/02/00         | 1811             | 5.20        | 20.88       |
| 17                                         | EVALB            | 11/07/00         | 0918             | 5.19        | 20.86       |
| 18                                         | MEDA             | 11/07/00         | 0946             | 5.19        | 20.85       |
| 19                                         | MEDB             | 11/07/00         | 1014             |             |             |
| 20                                         | PBLK             | 11/07/00         | 1111             | 5.20        | 20.86       |
| 21                                         | LCS              | 11/07/00         | 1139             | 5.19        | 20.85       |
| 22                                         | DF/24-A/0304     | 11/07/00         | 1206             | 5.19        | 20.85       |
| 23                                         | DF/24-A/0304     | 11/07/00         | 1234             | 5.19        | 20.85       |
| 24                                         | DF/24-A/0304     | 11/07/00         | 1302             | 5.19        | 20.85       |
| 25                                         | DF/24-A/0304     | 11/07/00         | 1330             | 5.19        | 20.85       |
| 26                                         | DF/24-A/0304     | 11/07/00         | 1357             | 5.19        | 20.85       |
| 27                                         | MEDA             | 11/07/00         | 1425             | 5.19        | 20.85       |
| 28                                         | MEDB             | 11/07/00         | 1453             |             |             |
| 29                                         |                  |                  |                  |             |             |
| 30                                         |                  |                  |                  |             |             |
| 31                                         |                  |                  |                  |             |             |
| 32                                         |                  |                  |                  |             |             |

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

# Column used to flag retention time values with an asterisk.

\* Values outside of QC limits.

Turbochrom Sequence File : H:\ACQUIRE\MET\_SEQ\8010-G.SEQ  
 Created by : DE11/02/98 on : 11/1/00 16:27  
 Edited by : LM11/01/00 on : 11/3/00 08:03  
 Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701  
 REVIEWED BY:

674 320

6

Number of Times Edited : 4

Sequence File Header Information:

Number of Rows : 60  
 Instrument Type : 760 / 900 Series Intelligent Interface  
 Injection Type : SINGLE

DE  
 11-3-00

| Row | Type        | Sample Name        | Sample Number | Sequence Sample Descriptions - Channel A | Sample Amount | ISTD Amount | Sample Volume | Dil. Factor | Purity | Divisor | Addend | Norm. factor |
|-----|-------------|--------------------|---------------|------------------------------------------|---------------|-------------|---------------|-------------|--------|---------|--------|--------------|
| 1   | Std Check   | EVALB, 8010-G b,   | 190-102-10    |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 2   | Cal Replace | MEDTOX, 8010-G b   | 190-98-12     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 3   | Cal Replace | MEDCHLOR, 8010-G   | 190-102-9     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 4   | Cal Replace | LAPPX9, 8010-G b   | 190-104-2     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 5   | Cal Replace | MLAPPX9, 8010-G    | 190-104-3     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 6   | Cal Replace | MAPPX9, 8010-G b   | 190-104-4     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 7   | Cal Replace | MAPPX9, 8010-G     | 190-104-5     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 8   | Cal Replace | HAPPX9, 8010-G b   | 190-104-6     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 9   | Cal Replace | LOWA, 8010-G b,,   | 190-100-6     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 10  | Cal Replace | MLOWA, 8010-G b,,  | 190-100-7     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 11  | Cal Replace | MEDA, 8010-G b,,   | 190-100-8     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 12  | Cal Replace | HIGHA, 8010-G b    | 190-100-9     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 13  | Cal Replace | HIGHA, 8010-G b,,  | 190-100-10    |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 14  | Cal Replace | LOWB, 8010-G b,,   | 190-100-12    |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 15  | Cal Replace | MLOWB, 8010-G b,,  | 190-100-13    |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 16  | Cal Replace | MEDB, 8010-G b,,   | 190-100-14    |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 17  | Cal Replace | HIGHB, 8010-G b    | 190-101-1     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 18  | Cal Replace | HIGHB, 8010-G b,,  | 190-101-2     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 19  | Std Check   | 2ND A, 8010-G b,,  | 190-101-7     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 20  | Std Check   | 2ND P, 8010-G b,,  | 190-101-10    |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 21  | Std Check   | EVALB, 8010-G b,,  | 190-102-10    |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 22  | Sample      | DNCNHIAL, 8010-G   | 180197-1      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 23  | Sample      | DNCNHIAL, 8010-G   | 180197-1S     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 24  | Sample      | DNCNHIAL, 8010-G   | 180197-1C     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 25  | Sample      | DNCNHIAL, 8010-G   | 180197-2      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 26  | Sample      | DNCNHIAL, 8010-G   | 180197-3      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 27  | Sample      | DNDTGIAL, 8010-G   | 180342-1      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 28  | Sample      | DNDTGIAL, 8010-G   | 180342-2      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 29  | Sample      | DNGKWLAC, 8010-G   | 190367-10     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 30  | Sample      | DNCPIAL, 8010-G    | 210128-1      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 31  | Sample      | DNCRIAL, 8010-G    | 210128-2      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 32  | Sample      | DNCCLIAL, 8010-G   | 240126-1      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 33  | Sample      | DNCCLIAL, 8010-G   | 240126-2      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 34  | Sample      | DNCCLIAL, 8010-G   | 240277-6      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 35  | Sample      | DNRWALAC, 8010-G   | 260110313     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 36  | Sample      | DNRWALAC, 8010-G   | 260110314     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 37  | Sample      | DNRWALAC, 8010-G   | 260110315     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 38  | Sample      | DNAALAC, 8010-G    | 270217-2      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 39  | Sample      | DN3J01AA, 8010-G   | 180197BLK     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 40  | Sample      | DN3J01AC, 8010-G   | 180197LCS     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 41  | Std Check   | MAPPX9, 8010-G b   | 190-104-4     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 42  | Std Check   | MEDA, 8010-G b,,   | 190-100-8     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 43  | Std Check   | MELB, 8010-G b,,   | 190-100-14    |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 44  | Std Check   | EVALB, 8010-G b,,  | 190-102-10    |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 45  | Std Check   |                    |               |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 46  | Std Check   |                    |               |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 47  | Sample      | DNCCLIAL, 8010-G   | 210126001     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 48  | Sample      | DNCCLIAL, 8010-G   | 210126002     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 49  | Sample      | DNCCLIAL, 8010-G   | 240123001     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 50  | Sample      | DNCCLIAL, 8010-G   | 240123002     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 51  | Sample      | DNCCLIAL, 8010-G   | 240123003     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 52  | Sample      | DNCCLIAL, 8010-G   | 210126BLK     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 53  | Sample      | DNCCLIAL, 8010-G   | 210126LCS     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 54  | Sample      | DNCCLIAL, 8010-G   | 210126LCS     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 55  | Sample      | DNCCLIAL, 8010-G   | 270226C01     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 56  | Sample      | DNCCLIAL, 8010-G   | 270226BLK     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 57  | Sample      | DNCCLIAL, 8010-G   | 270226LCS     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 58  | Sample      | DNCCLIAL, 8010-G   | 270226LCS     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |
| 59  | Std Check   | MAPPX9, 8010-G b,, | 190-100-8     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000  | 1.000   | 0.000  | 100.000      |

| Sequence Process Information - Channel A |      |     |      |                |                   |                 |                  |             |                |                  |                      |            |               |              |            |
|------------------------------------------|------|-----|------|----------------|-------------------|-----------------|------------------|-------------|----------------|------------------|----------------------|------------|---------------|--------------|------------|
| Pcw                                      | Site | Kac | Vial | Inst<br>Method | Process<br>Method | Calib<br>Method | Report<br>Format | Raw<br>File | Result<br>File | Baseline<br>File | Modified<br>Raw File | Cal<br>Rpt | Level<br>Name | Update<br>RT | Out<br>Dev |
| 1                                        | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8010     | D-A8010        |                  | D-A8010              | -          | -             | -            | LPT1       |
| 2                                        | -    | 1   | 2    | GEN4C          | GEN4A             | 122190A         | TOX              | D-A8011     | D-A8011        |                  | D-A8011              | N          | AEC           | N            | LPT1, LP   |
| 3                                        | -    | 1   | 3    | GEN4C          | GEN4A             | 122190A         | TOX              | D-A8012     | D-A8012        |                  | D-A8012              | N          | ALC           | N            | LPT1, LP   |
| 4                                        | -    | 1   | 4    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8013     | D-A8013        |                  | D-A8013              | N          | LOW           | N            | LPT1       |
| 5                                        | -    | 1   | 5    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8014     | D-A8014        |                  | D-A8014              | N          | MLOW          | N            | LPT1       |
| 6                                        | -    | 1   | 6    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8015     | D-A8015        |                  | D-A8015              | N          | MLOW          | N            | LPT1       |
| 7                                        | -    | 1   | 7    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8016     | D-A8016        |                  | D-A8016              | N          | MLOW          | N            | LPT1       |
| 8                                        | -    | 1   | 8    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8017     | D-A8017        |                  | D-A8017              | N          | MLOW          | N            | LPT1       |
| 9                                        | -    | 1   | 9    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8018     | D-A8018        |                  | D-A8018              | N          | LOW           | N            | LPT1       |
| 10                                       | -    | 1   | 5    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8019     | D-A8019        |                  | D-A8019              | N          | MLOW          | N            | LPT1       |
| 11                                       | -    | 1   | 6    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8020     | D-A8020        |                  | D-A8020              | N          | MLOW          | N            | LPT1       |
| 12                                       | -    | 1   | 7    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8021     | D-A8021        |                  | D-A8021              | N          | MLOW          | N            | LPT1       |
| 13                                       | -    | 1   | 8    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8022     | D-A8022        |                  | D-A8022              | N          | MLOW          | N            | LPT1       |
| 14                                       | -    | 1   | 9    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8023     | D-A8023        |                  | D-A8023              | N          | LOW           | N            | LPT1       |
| 15                                       | -    | 1   | 10   | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8024     | D-A8024        |                  | D-A8024              | N          | MLOW          | N            | LPT1       |
| 16                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8025     | D-A8025        |                  | D-A8025              | N          | MLOW          | N            | LPT1       |
| 17                                       | -    | 1   | 12   | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8026     | D-A8026        |                  | D-A8026              | N          | MLOW          | N            | LPT1       |
| 18                                       | -    | 1   | 13   | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8027     | D-A8027        |                  | D-A8027              | N          | MLOW          | N            | LPT1       |
| 19                                       | -    | 1   | 23   | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8028     | D-A8028        |                  | D-A8028              | -          | -             | -            | LPT1       |
| 20                                       | -    | 1   | 24   | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8029     | D-A8029        |                  | D-A8029              | -          | -             | -            | LPT1       |
| 21                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8030     | D-A8030        |                  | D-A8030              | -          | -             | -            | LPT1       |
| 22                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8031     | D-A8031        |                  | D-A8031              | -          | -             | -            | LPT1       |
| 23                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8032     | D-A8032        |                  | D-A8032              | -          | -             | -            | LPT1       |
| 24                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8033     | D-A8033        |                  | D-A8033              | -          | -             | -            | LPT1       |
| 25                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8034     | D-A8034        |                  | D-A8034              | -          | -             | -            | LPT1       |
| 26                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8035     | D-A8035        |                  | D-A8035              | -          | -             | -            | LPT1       |
| 27                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8036     | D-A8036        |                  | D-A8036              | -          | -             | -            | LPT1       |
| 28                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8037     | D-A8037        |                  | D-A8037              | -          | -             | -            | LPT1       |
| 29                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8038     | D-A8038        |                  | D-A8038              | -          | -             | -            | LPT1       |
| 30                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8039     | D-A8039        |                  | D-A8039              | -          | -             | -            | LPT1       |
| 31                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8040     | D-A8040        |                  | D-A8040              | -          | -             | -            | LPT1       |
| 32                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8041     | D-A8041        |                  | D-A8041              | -          | -             | -            | LPT1       |
| 33                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8042     | D-A8042        |                  | D-A8042              | -          | -             | -            | LPT1       |
| 34                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8043     | D-A8043        |                  | D-A8043              | -          | -             | -            | LPT1       |
| 35                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8044     | D-A8044        |                  | D-A8044              | -          | -             | -            | LPT1       |
| 36                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8045     | D-A8045        |                  | D-A8045              | -          | -             | -            | LPT1       |
| 37                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8046     | D-A8046        |                  | D-A8046              | -          | -             | -            | LPT1       |
| 38                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8047     | D-A8047        |                  | D-A8047              | -          | -             | -            | LPT1       |
| 39                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8048     | D-A8048        |                  | D-A8048              | -          | -             | -            | LPT1       |
| 40                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8049     | D-A8049        |                  | D-A8049              | -          | -             | -            | LPT1       |
| 41                                       | -    | 1   | 6    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8050     | D-A8050        |                  | D-A8050              | -          | -             | -            | LPT1       |
| 42                                       | -    | 1   | 6    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8051     | D-A8051        |                  | D-A8051              | -          | -             | -            | LPT1       |
| 43                                       | -    | 1   | 11   | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8052     | D-A8052        |                  | D-A8052              | -          | -             | -            | LPT1       |
| 44                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8053     | D-A8053        |                  | D-A8053              | -          | -             | -            | LPT1       |
| 45                                       | -    | 1   | 6    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8054     | D-A8054        |                  | D-A8054              | -          | -             | -            | LPT1       |
| 46                                       | -    | 1   | 12   | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8055     | D-A8055        |                  | D-A8055              | -          | -             | -            | LPT1       |
| 47                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8056     | D-A8056        |                  | D-A8056              | -          | -             | -            | LPT1       |
| 48                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8057     | D-A8057        |                  | D-A8057              | -          | -             | -            | LPT1       |
| 49                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8058     | D-A8058        |                  | D-A8058              | -          | -             | -            | LPT1       |
| 50                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8059     | D-A8059        |                  | D-A8059              | -          | -             | -            | LPT1       |
| 51                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8060     | D-A8060        |                  | D-A8060              | -          | -             | -            | LPT1       |
| 52                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8061     | D-A8061        |                  | D-A8061              | -          | -             | -            | LPT1       |
| 53                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8062     | D-A8062        |                  | D-A8062              | -          | -             | -            | LPT1       |
| 54                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8063     | D-A8063        |                  | D-A8063              | -          | -             | -            | LPT1       |
| 55                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8064     | D-A8064        |                  | D-A8064              | -          | -             | -            | LPT1       |
| 56                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8065     | D-A8065        |                  | D-A8065              | -          | -             | -            | LPT1       |
| 57                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8066     | D-A8066        |                  | D-A8066              | -          | -             | -            | LPT1       |
| 58                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8067     | D-A8067        |                  | D-A8067              | -          | -             | -            | LPT1       |
| 59                                       | -    | 1   | 6    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8068     | D-A8068        |                  | D-A8068              | -          | -             | -            | LPT1       |
| 60                                       | -    | 1   | 1    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8069     | D-A8069        |                  | D-A8069              | -          | -             | -            | LPT1       |

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Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8010.d  
Lab Smp Id: EVALB  
Inj Date : 02-NOV-2000 08:56  
Operator : 1891 Inst ID: gc4.i  
Smp Info : EVALB,8010-G.b,,EVALBR.sub,,3,1  
Misc Info : 190-102-10  
Comment :  
Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 03-Nov-2000 09:48 matkol Quant Type: ESTD  
Cal Date : 02-NOV-2000 16:47 Cal File: D-A8027.d  
Als bottle: 1 QC Sample: PEM  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: EVALBR.sub  
Target Version: 4.04  
Processing Host: PITPC044

| Compounds                | RT     | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS     |                |
|--------------------------|--------|--------|--------|----------|--------------------|----------------|
|                          |        |        |        |          | ON-COLUMN<br>( ng) | FINAL<br>( ng) |
| § 1 Tetrachloro-m-xylene | 5.206  | 5.200  | 0.006  | 102701   | 0.01874            | 0.01874(R)     |
| 16 4,4'-DDE              | 14.073 | 14.073 | 0.000  | 2955     | <0.0               | 0.0006984      |
| 20 Endrin                | 14.780 | 14.780 | 0.000  | 78500    | 0.02269            | 0.02269        |
| 21 4,4'-DDD              | 14.946 | 14.940 | 0.006  | 3984     | 0.00129            | 0.001288       |
| 23 4,4'-DDT              | 15.413 | 15.413 | 0.000  | 65013    | 0.02227            | 0.02227        |
| 24 Endrin aldehyde       | 15.593 | 15.593 | 0.000  | 5355     | 0.00197            | 0.001970       |
| 27 Endrin ketone         | 17.413 | 17.406 | 0.007  | 5884     | 0.00204            | 0.002043       |
| § 30 Decachlorobiphenyl  | 20.880 | 20.880 | 0.000  | 41707    | 0.01908            | 0.01908(R)     |

QC Flag Legend

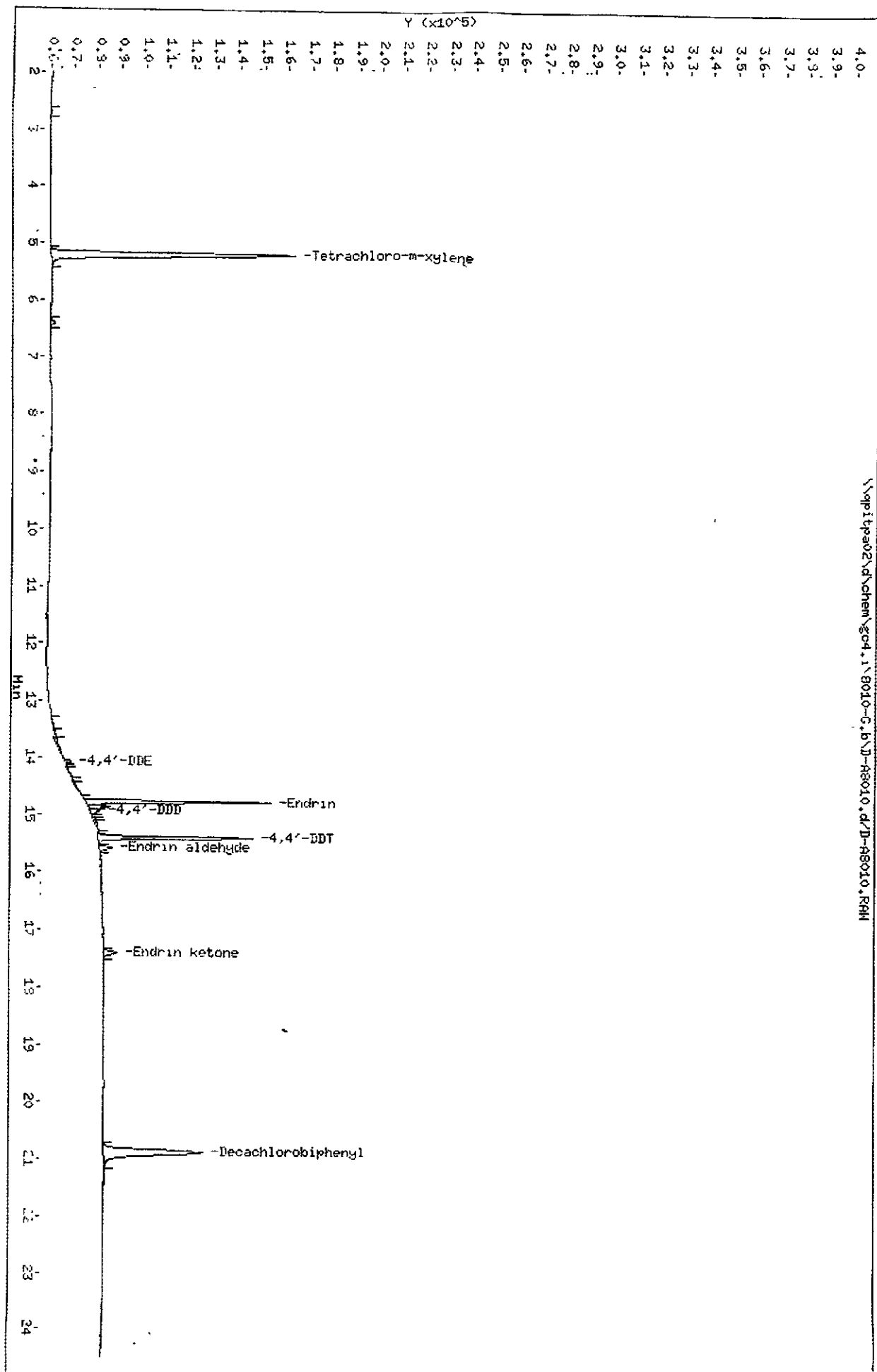
R - Spike/Surrogate failed recovery limits.

DDT = 9.6  
Endrin = 12.5

674 323

Data File: \\pittpa02\chem\sc4.1\8010-G.b\D-88010.d  
Date: 02-NOV-2000 08:56  
Client ID:  
Sample Info: EVALB, 8010-G.b, EVALBR, sub., 3,4  
Column phase: DB608

Instrument: sc4.1  
Operator: 1891  
Column diameter: 0.53





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Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8011.d  
Lab Smp Id: MEDTOX  
Inj Date : 02-NOV-2000 09:24  
Operator : 1891 Inst ID: gc4.i  
Smp Info : MEDTOX,8010-G.b,,1-TOX.sub,,1,3  
Misc Info : 190-98-12  
Comment :  
Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 03-Nov-2000 09:48 matkol Quant Type: ESTD  
Cal Date : 02-NOV-2000 09:24 Cal File: D-A8011.d  
Als bottle: 1 Calibration Sample, Level: 3  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-TOX.sub  
Target Version: 4.04  
Processing Host: PITPC044

| Compounds                 | AMOUNTS |        |        |          |                  |                 |
|---------------------------|---------|--------|--------|----------|------------------|-----------------|
|                           | RT      | EXP RT | DLT RT | RESPONSE | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| -----                     | --      | -----  | -----  | -----    | -----            | -----           |
| 18 Toxaphene              | 14.953  | 14.953 | 0.000  | 73630    | 1.00000          | 1.000           |
| \$ 1 Tetrachloro-m-xylene | 5.206   | 5.200  | 0.006  | 124873   | 0.02500          | 0.02500         |
| \$ 30 Decachlorobiphenyl  | 20.886  | 20.880 | 0.006  | 50756    | 0.02500          | 0.02500         |

674 325

Data File: \\ppitpa02\chem\ec4.1\8010-G.b\D-88011.d

Date: 02-NOV-2000 09:24

Client ID:

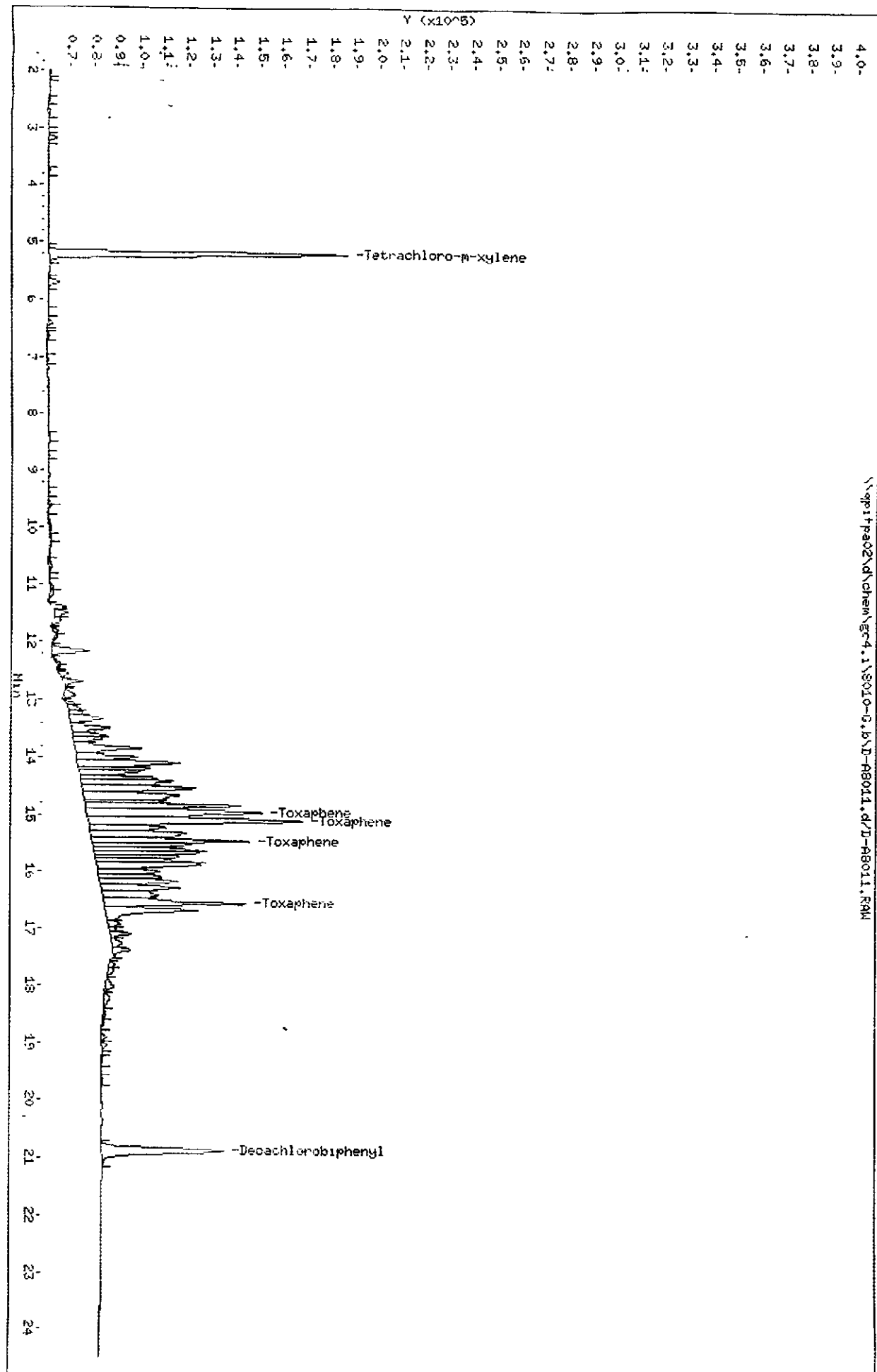
Sample Info: MEDTOX,8010-G.b.1-TOX,suk.,1,3

Column Phase: DB608

Instrument: 604.1

Operator: 1891

Column diameter: 0.53



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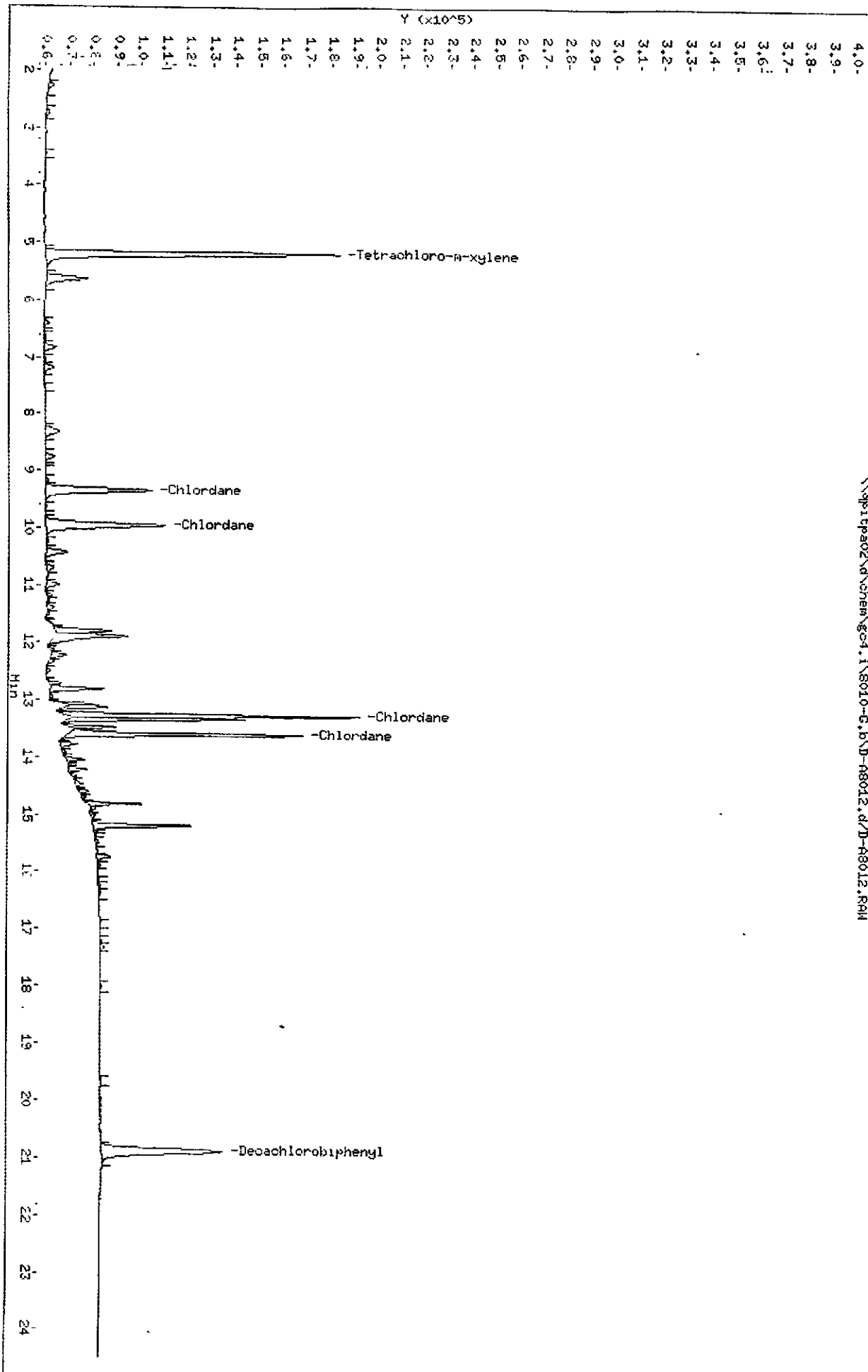
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Lab Smp Id: MEDCHLOR  
Inj Date : 02-NOV-2000 09:51  
Operator : 1891 Inst ID: gc4.i  
Smp Info : MEDCHLOR,8010-G.b,,2-CHLO.sub,,1,3  
Misc Info : 190-102-9  
Comment :  
Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 03-Nov-2000 09:48 matkol Quant Type: ESTD  
Cal Date : 02-NOV-2000 09:51 Cal File: D-A8012.d  
Als bottle: 1 Calibration Sample, Level: 3  
Dil Factor: 1.00000 Compound Sublist: 2-CHLO.sub  
Integrator: Falcon  
Target Version: 4.04  
Processing Host: PITPC044

| Compounds                 | AMOUNTS |        |        |          |                  |                 |
|---------------------------|---------|--------|--------|----------|------------------|-----------------|
|                           | RT      | EXP RT | DLT RT | RESPONSE | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                     | ==      | =====  | =====  | =====    | =====            | =====           |
| 9 Chlordane               | 9.353   | 9.353  | 0.000  | 44564    | 0.25000          | 0.2500          |
| \$ 1 Tetrachloro-m-xylene | 5.200   | 5.200  | 0.000  | 123692   | 0.02500          | 0.02500         |
| \$ 30 Decachlorobiphenyl  | 20.886  | 20.880 | 0.006  | 51298    | 0.02500          | 0.02500         |

Data File: \\spitpa02\chem\gc4.1\8010-G.b.D-88012.d  
Date: 02-NOV-2000 09:51  
Client ID:  
Sample Info: HEDCHLOR, 8010-G.b 2-CHLO, sub., 1,3  
Column Phase: DB608

Instrument: gc4.1  
Operator: 1891  
Column diameter: 0.53

\\spitpa02\chem\gc4.1\8010-G.b.D-88012.d/D-88012.RM



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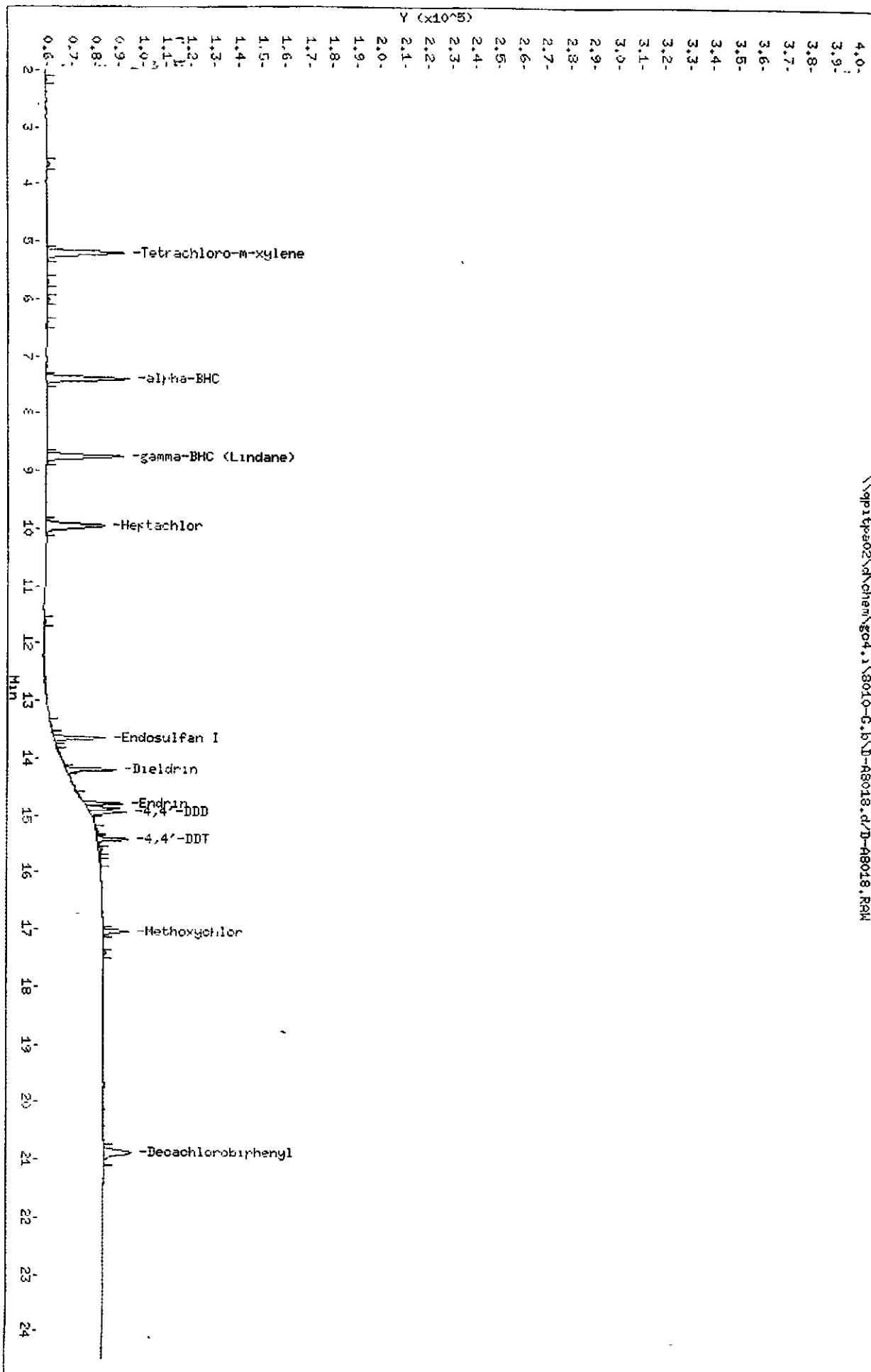
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Inj Date : 02-NOV-2000 12:38  
Operator : 1891 Inst ID: gc4.i  
Smp Info : LOWA,8010-G.b,,3-INDA.sub,,1,1  
Misc Info : 190-100-6  
Comment :  
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Meth Date : 03-Nov-2000 09:48 matkol Quant Type: ESTD  
Cal Date : 02-NOV-2000 13:33 Cal File: D-A8020.d  
Als bottle: 1 Calibration Sample, Level: 1  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 3-INDA.sub  
Target Version: 4.04  
Processing Host: PITPC044

| AMOUNTS                   |        |        |        |          |                  |                 |
|---------------------------|--------|--------|--------|----------|------------------|-----------------|
| Compounds                 | RT     | EXP RT | DLT RT | RESPONSE | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| -----                     | ---    | -----  | -----  | -----    | -----            | -----           |
| \$ 1 Tetrachloro-m-xylene | 5.200  | 5.200  | 0.000  | 32007    | 0.00500          | 0.005434        |
| 5 alpha-BHC               | 7.393  | 7.393  | 0.000  | 34487    | 0.00500          | 0.005002        |
| 6 gamma-BHC (Lindane)     | 8.753  | 8.753  | 0.000  | 32427    | 0.00500          | 0.005091        |
| 10 Heptachlor             | 9.953  | 9.953  | 0.000  | 24435    | 0.00500          | 0.005195        |
| 15 Endosulfan I           | 13.640 | 13.640 | 0.000  | 21722    | 0.00500          | 0.005089        |
| 17 Dieldrin               | 14.200 | 14.200 | 0.000  | 20708    | 0.00500          | 0.004871        |
| 20 Endrin                 | 14.780 | 14.780 | 0.000  | 16274    | 0.00500          | 0.004918        |
| 21 4,4'-DDD               | 14.940 | 14.940 | 0.000  | 15587    | 0.00500          | 0.005152        |
| 23 4,4'-DDT               | 15.413 | 15.413 | 0.000  | 13116    | 0.00500          | 0.004782        |
| 25 Methoxychlor           | 17.033 | 17.033 | 0.000  | 10858    | 0.01000          | 0.009892        |
| \$ 30 Decachlorobiphenyl  | 20.880 | 20.880 | 0.000  | 11538    | 0.00500          | 0.005169        |

Data File: \\npitpa02\chem\gc4.1\8010-G.b\D-48018.d  
Date: 02-NOV-2000 12:38  
Client ID:  
Sample Info: LOA, 8010-G.b, 3-IND, sub, 1,1  
Column phase: DB608

Instrument: gc4.1  
Operator: 1891  
Column diameter: 0.53

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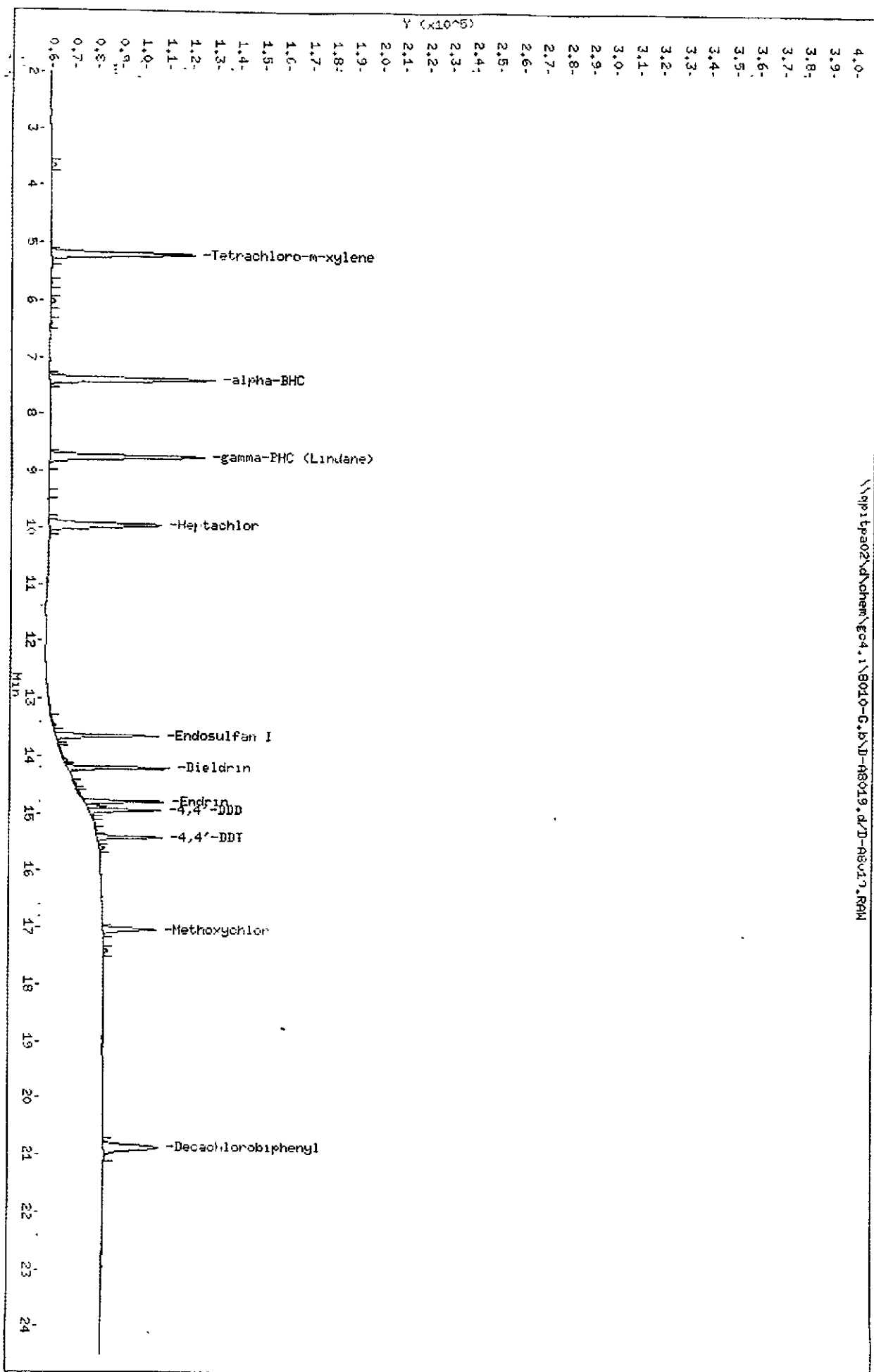
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Smp Info : MLOWA,8010-G.b,,3-INDA.sub,,1,2  
Misc Info : 190-100-7  
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Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 03-Nov-2000 09:48 matkol Quant Type: ESTD  
Cal Date : 02-NOV-2000 13:33 Cal File: D-A8020.d  
Als bottle: 1 Calibration Sample, Level: 2  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 3-INDA.sub  
Target Version: 4.04  
Processing Host: PITPC044

| AMOUNTS                   |        |        |        |          |                  |                 |
|---------------------------|--------|--------|--------|----------|------------------|-----------------|
| Compounds                 | RT     | EXP RT | DLT RT | RESPONSE | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                     | ==     | =====  | =====  | =====    | =====            | =====           |
| \$ 1 Tetrachloro-m-xylene | 5.200  | 5.200  | 0.000  | 60461    | 0.01000          | 0.01018         |
| 5 alpha-BHC               | 7.393  | 7.393  | 0.000  | 70392    | 0.01000          | 0.01014         |
| 6 gamma-BHC (Lindane)     | 8.753  | 8.753  | 0.000  | 65493    | 0.01000          | 0.01019         |
| 10 Heptachlor             | 9.953  | 9.953  | 0.000  | 47875    | 0.01000          | 0.01012         |
| 15 Endosulfan I           | 13.640 | 13.640 | 0.000  | 44080    | 0.01000          | 0.01022         |
| 17 Dieldrin               | 14.200 | 14.200 | 0.000  | 43453    | 0.01000          | 0.01015         |
| 20 Endrin                 | 14.780 | 14.780 | 0.000  | 33650    | 0.01000          | 0.01011         |
| 21 4,4'-DDD               | 14.940 | 14.940 | 0.000  | 30524    | 0.01000          | 0.01006         |
| 23 4,4'-DDT               | 15.413 | 15.413 | 0.000  | 27610    | 0.01000          | 0.01004         |
| 25 Methoxychlor           | 17.033 | 17.033 | 0.000  | 22475    | 0.02000          | 0.02031         |
| \$ 30 Decachlorobiphenyl  | 20.880 | 20.880 | 0.000  | 23199    | 0.01000          | 0.01026         |

674 331

Data File: \\pp1tpa02\ndchem\gc4.1\8010-G.b.D-88019.d  
Date: 02-NOV-2000 13:06  
Client ID:  
Sample Info: HLOWA,8010-G.b.,3-INDA.sib.,1,2  
Column phase: DB608

Instrument: gc4.1  
Operator: 1891  
Column diameter: 0.53





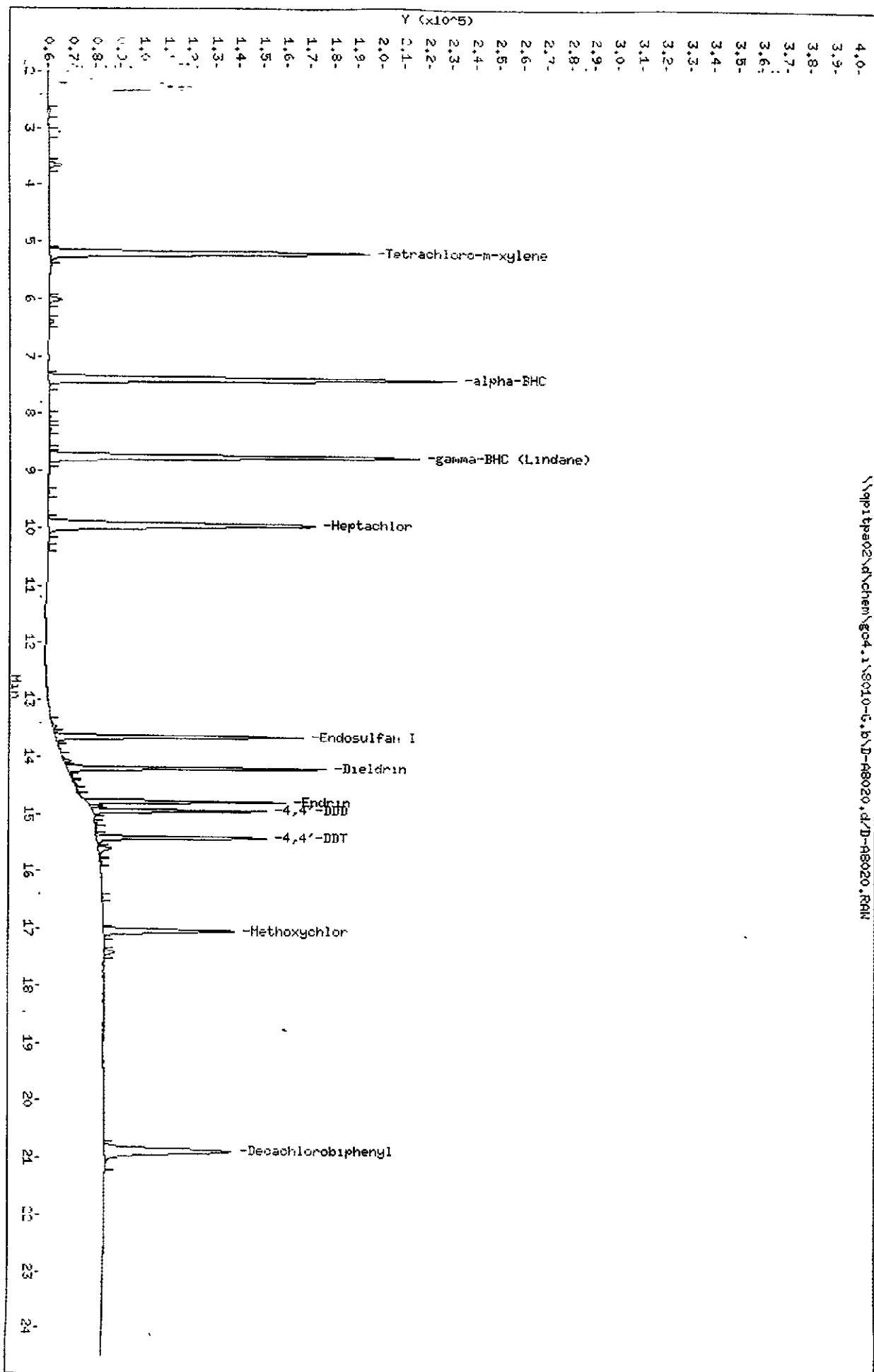
STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8020.d  
Lab Smp Id: MEDA  
Inj Date : 02-NOV-2000 13:33  
Operator : 1891 Inst ID: gc4.i  
Smp Info : MEDA,8010-G.b,,3-INDA.sub,,1,3  
Misc Info : 190-100-8  
Comment :  
Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 03-Nov-2000 09:48 matkol Quant Type: ESTD  
Cal Date : 02-NOV-2000 13:33 Cal File: D-A8020.d  
Als bottle: 1 Calibration Sample, Level: 3  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 3-INDA.sub  
Target Version: 4.04  
Processing Host: PITPC044

| AMOUNTS                   |        |        |        |          |                  |                 |
|---------------------------|--------|--------|--------|----------|------------------|-----------------|
| Compounds                 | RT     | EXP RT | DLT RT | RESPONSE | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                     | ==     | =====  | =====  | =====    | =====            | =====           |
| \$ 1 Tetrachloro-m-xylene | 5 200  | 5 200  | 0 000  | 134441   | 0 02500          | 0 02500         |
| 5 alpha-BHC               | 7 393  | 7 393  | 0 000  | 172296   | 0 02500          | 0 02500         |
| 6 gamma-BHC (Lindane)     | 8 753  | 8 753  | 0 000  | 156356   | 0 02500          | 0 02500         |
| 10 Heptachlor             | 9 953  | 9 953  | 0 000  | 112990   | 0 02500          | 0 02500         |
| 15 Endosulfan I           | 13 640 | 13 640 | 0 000  | 104820   | 0 02500          | 0 02500         |
| 17 Dieldrin               | 14 200 | 14 200 | 0 000  | 109020   | 0 02500          | 0 02500         |
| 20 Endrin                 | 14 780 | 14 780 | 0 000  | 84075    | 0 02500          | 0 02500         |
| 21 4,4'-DDD               | 14 940 | 14 940 | 0 000  | 73346    | 0 02500          | 0 02500         |
| 23 4,4'-DDT               | 15 413 | 15 413 | 0 000  | 71557    | 0 02500          | 0 02500         |
| 25 Methoxychlor           | 17 033 | 17 033 | 0 000  | 55475    | 0 05000          | 0 05000         |
| \$ 30 Decachlorobiphenyl  | 20 880 | 20 880 | 0 000  | 53911    | 0 02500          | 0 02500         |

Data File: \\spitpac02\chem\g04.1\8010-G.b.D-88020.d  
Date: 02-11-00 13:33  
Client ID:  
Sample Info: HED9,8010-G.b.,3-111D9.sub,1,3  
Column phase: DB608

Instrument: g04.1  
Operator: 1891  
Column diameter: 0.53



674 334

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8021.d  
Lab Smp Id: MHIGHA  
Inj Date : 02-NOV-2000 14:01  
Operator : 1891  
Smp Info : MHIGHA,8010-G.b,,3-INDA.sub,,1,4  
Misc Info : 190-100-9  
Comment :  
Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 03-Nov-2000 09:48 matkol  
Cal Date : 02-NOV-2000 14:01  
Als bottle: 1  
Dil Factor: 1.00000  
Integrator: Falcon  
Target Version: 4.04  
Processing Host: PITPC044

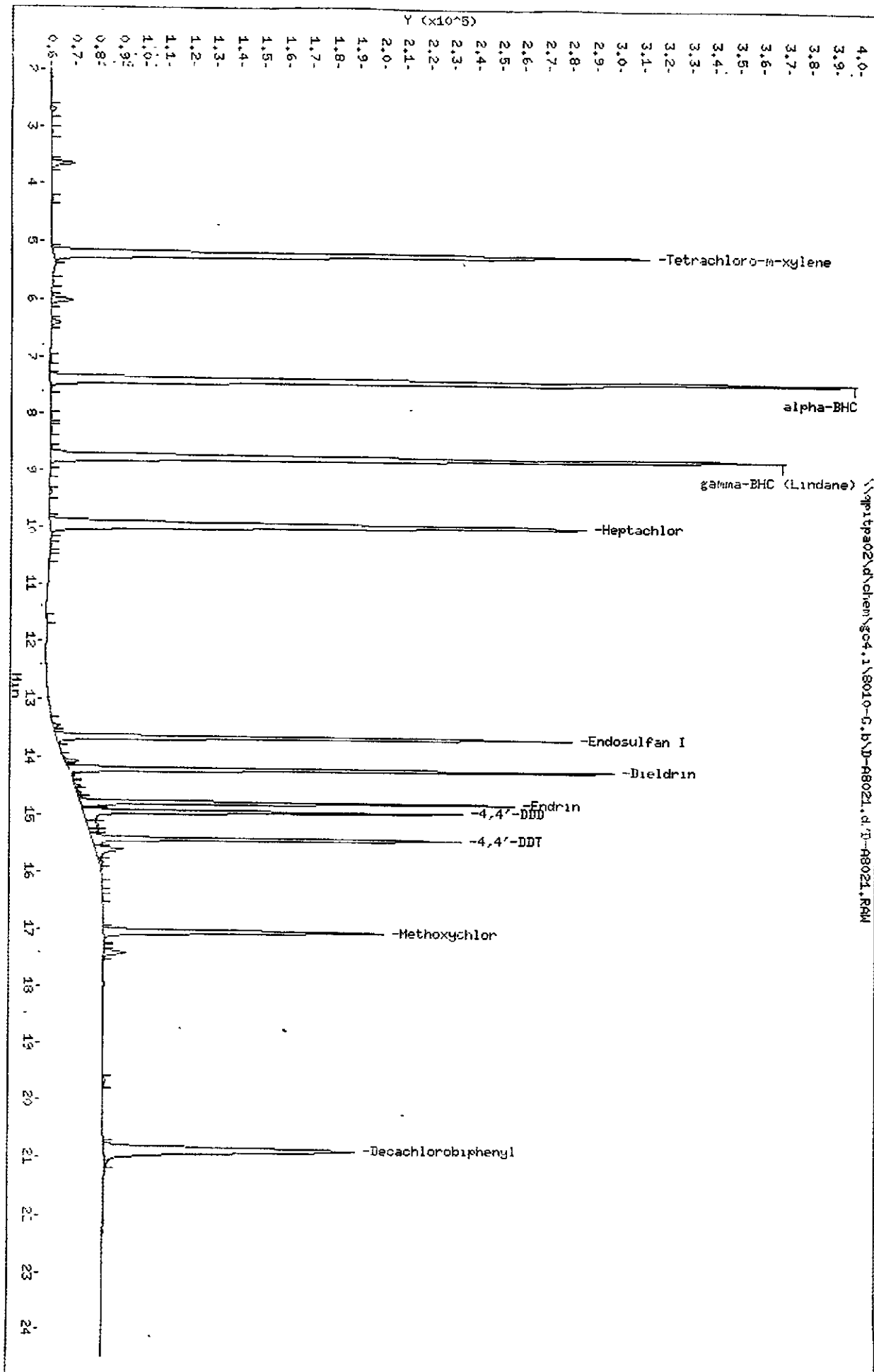
Inst ID: gc4.i  
Quant Type: ESTD  
Cal File: D-A8021.d  
Calibration Sample, Level: 4  
Compound Sublist: 3-INDA.sub

| AMOUNTS                   |        |        |        |          |         |         |
|---------------------------|--------|--------|--------|----------|---------|---------|
| Compounds                 | RT     | EXP RT | DLT RT | RESPONSE | CAL-AMT | ON-COL  |
|                           |        |        |        |          | ( ng)   | ( ng)   |
| =====                     | ==     | =====  | =====  | =====    | =====   | =====   |
| \$ 1 Tetrachloro-m-xylene | 5.200  | 5.200  | 0.000  | 251497   | 0.05000 | 0.04402 |
| 5 alpha-BHC               | 7.393  | 7.393  | 0.000  | 346411   | 0.05000 | 0.04992 |
| 6 gamma-BHC (Lindane)     | 8.753  | 8.753  | 0.000  | 309846   | 0.05000 | 0.04863 |
| 10 Heptachlor             | 9.953  | 9.953  | 0.000  | 226555   | 0.05000 | 0.04840 |
| 15 Endosulfan I           | 13.640 | 13.640 | 0.000  | 218028   | 0.05000 | 0.05039 |
| 17 Dieldrin               | 14.200 | 14.200 | 0.000  | 230360   | 0.05000 | 0.05279 |
| 20 Endrin                 | 14.780 | 14.780 | 0.000  | 183141   | 0.05000 | 0.05368 |
| 21 4,4'-DDD               | 14.940 | 14.940 | 0.000  | 160260   | 0.05000 | 0.05208 |
| 23 4,4'-DDT               | 15.413 | 15.413 | 0.000  | 155993   | 0.05000 | 0.05490 |
| 25 Methoxychlor           | 17.033 | 17.033 | 0.000  | 118161   | 0.10000 | 0.1050  |
| \$ 30 Decachlorobiphenyl  | 20.886 | 20.880 | 0.006  | 105933   | 0.05000 | 0.04760 |

674 335

Data File: \\qpitpa02\chem\gc4.1\8010-G.b.D-88021.d  
Date: 02-NOV-2000 14:04  
Client ID:  
Sample Info: HHIGHA,8010-G.b.,3-INDA,sub,1,4  
Column Phase: DB608

Instrument: gc4.1  
Operator: 1891  
Column diameter: 0.53



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8022.d  
Lab Smp Id: HIGHA  
Inj Date : 02-NOV-2000 14:29  
Operator : 1891 Inst ID: gc4.i  
Smp Info : HIGHA,8010-G.b,,3-INDA.sub,,1,5  
Misc Info : 190-100-10  
Comment :  
Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 03-Nov-2000 09:48 matkol Quant Type: ESTD  
Cal Date : 02-NOV-2000 14:29 Cal File: D-A8022.d  
Als bottle: 1 Calibration Sample, Level: 5  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 3-INDA.sub  
Target Version: 4.04  
Processing Host: PITPC044

| AMOUNTS                   |        |        |        |          |                  |                 |
|---------------------------|--------|--------|--------|----------|------------------|-----------------|
| Compounds                 | RT     | EXP RT | DLT RT | RESPONSE | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                     | ==     | =====  | =====  | =====    | =====            | =====           |
| \$ 1 Tetrachloro-m-xylene | 5 200  | 5.200  | 0 000  | 454166   | 0 10000          | 0 08289         |
| 5 alpha-BHC               | 7 393  | 7 393  | 0 000  | 657670   | 0 10000          | 0.09578         |
| 6 gamma-BHC (Lindane)     | 8.753  | 8 753  | 0.000  | 588688   | 0 10000          | 0 09382         |
| 10 Heptachlor             | 9 960  | 9 953  | 0 007  | 439277   | 0 10000          | 0 09501         |
| 15 Endosulfan I           | 13 640 | 13 640 | 0 000  | 427374   | 0 10000          | 0.09902         |
| 17 Dieldrin               | 14.200 | 14 200 | 0 000  | 468244   | 0.10000          | 0.1058(A)       |
| 20 Endrin                 | 14 780 | 14 780 | 0 000  | 365153   | 0 10000          | 0.1056(A)       |
| 21 4,4'-DDD               | 14 940 | 14.940 | 0.000  | 315981   | 0 10000          | 0 1021(A)       |
| 23 4,4'-DDT               | 15 413 | 15 413 | 0 000  | 322828   | 0.10000          | 0.1106(A)       |
| 25 Methoxychlor           | 17 033 | 17 033 | 0 000  | 239824   | 0 20000          | 0 2104(A)       |
| \$ 30 Decachlorobiphenyl  | 20 880 | 20 880 | 0 000  | 202623   | 0 10000          | 0 09270         |

QC Flag Legend

A - Target compound detected but, quantitated amount  
exceeded maximum amount.

674 337

Data file: \\spitpa02\chem\gc4.1\8010-G.b\D-48022.d  
Date: 02-NOV-2000 14:29

Client ID:

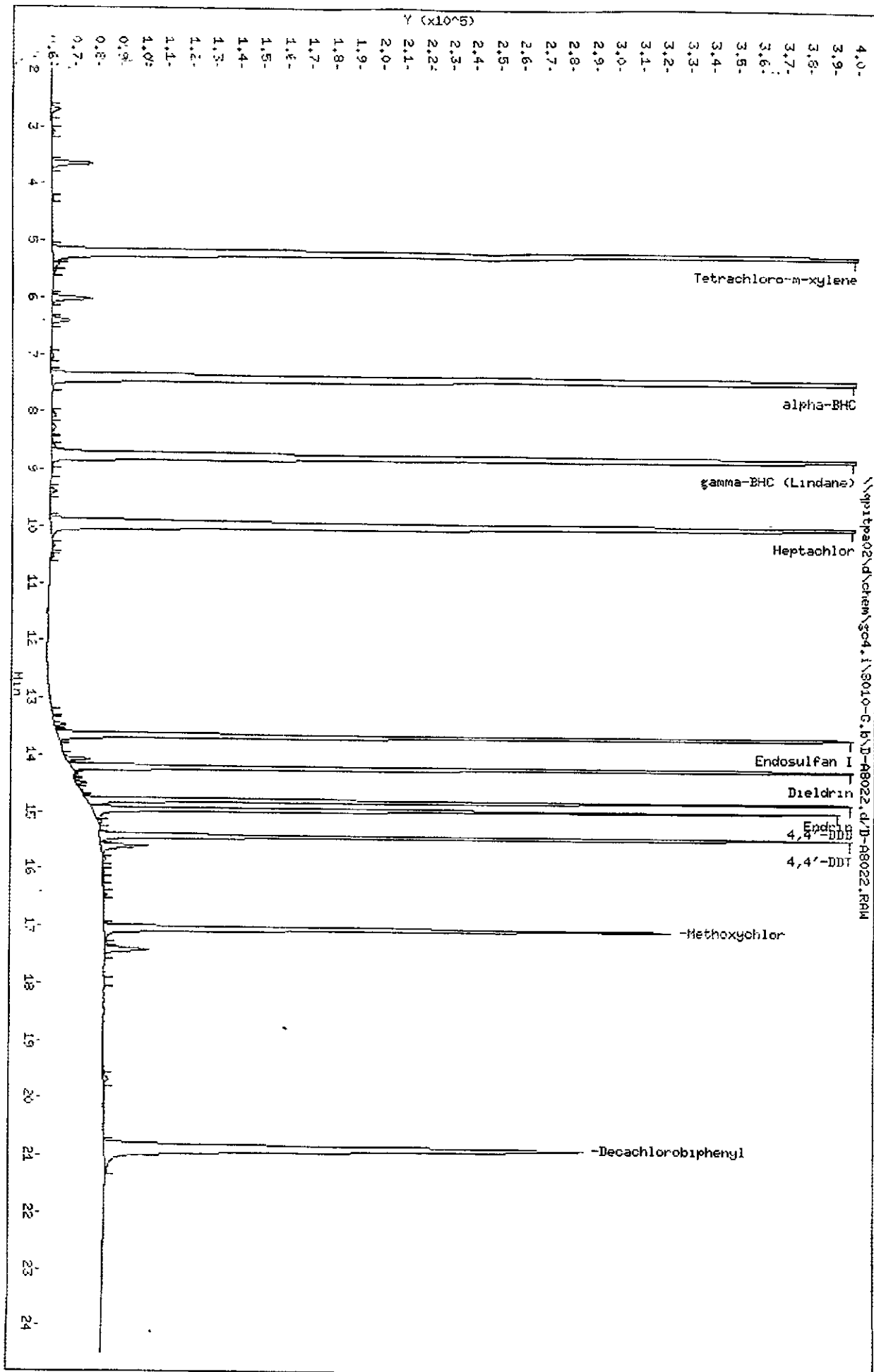
Sample Info: HICHA,8010-G.b,,3-INDA.sub,,1,5

Column phase: DB608

Instrument: gc4.1

Operator: 1891

Column diameter: 0.53



STL-Pittsburgh

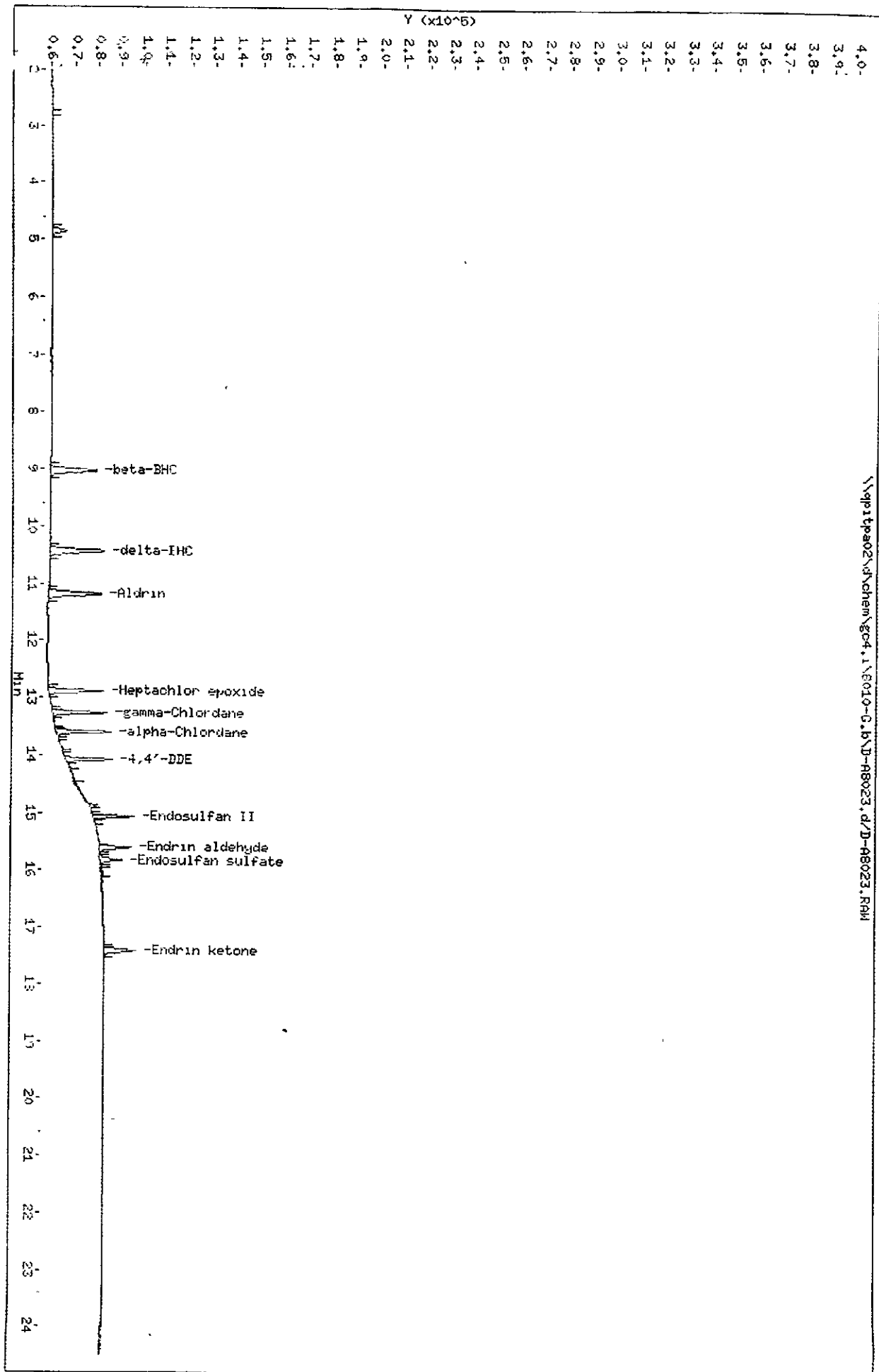
Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8023.d  
Lab Smp Id: LOWB  
Inj Date : 02-NOV-2000 14:57  
Operator : 1891 Inst ID: gc4.i  
Smp Info : LOWB,8010-G.b,,4-INDB.sub,,1,1  
Misc Info : 190-100-12  
Comment :  
Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 03-Nov-2000 09:48 matkol Quant Type: ESTD  
Cal Date : 02-NOV-2000 15:52 Cal File: D-A8025.d  
Als bottle: 1 Calibration Sample, Level: 1  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 4-INDB.sub  
Target Version: 4.04  
Processing Host: PITPC044

| Compounds             | AMOUNTS |        |        |          |                  |                 |
|-----------------------|---------|--------|--------|----------|------------------|-----------------|
|                       | RT      | EXP RT | DLT RT | RESPONSE | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                 | ==      | =====  | =====  | =====    | =====            | =====           |
| 21 Aldrin             | 11.180  | 11.180 | 0.000  | 22267    | 0.00500          | 0.005016        |
| 7 beta-BHC            | 9.026   | 9.026  | 0.000  | 19308    | 0.00500          | 0.005370        |
| 8 delta-BHC           | 10.433  | 10.433 | 0.000  | 23110    | 0.00500          | 0.004869        |
| 12 Heptachlor epoxide | 12.886  | 12.886 | 0.000  | 23060    | 0.00500          | 0.005026        |
| 13 gamma-Chlordane    | 13.260  | 13.260 | 0.000  | 23173    | 0.00500          | 0.005015        |
| 14 alpha-Chlordane    | 13.593  | 13.593 | 0.000  | 23153    | 0.00500          | 0.005025        |
| 16 4,4'-DDE           | 14.073  | 14.073 | 0.000  | 19930    | 0.00500          | 0.004873        |
| 22 Endosulfan II      | 15.060  | 15.060 | 0.000  | 17727    | 0.00500          | 0.004981        |
| 24 Endrin aldehyde    | 15.593  | 15.593 | 0.000  | 13606    | 0.00500          | 0.005075        |
| 26 Endosulfan sulfate | 15.813  | 15.813 | 0.000  | 9393     | 0.00500          | 0.004787        |
| 27 Endrin ketone      | 17.406  | 17.406 | 0.000  | 13501    | 0.00500          | 0.004847        |

674 339

Data File: \\pittpa02\chem\gc4,1\8010-G.b\D-A8023.d  
Date: 02-NOV-2000 14:57  
Client ID:  
Sample Info: LOMB,8010-G.b,4-INDB,sub.,1.1  
Column phase: DB606

Instrument: gc4.1  
Operator: 1891  
Column diameter: 0.53





STL-Pittsburgh

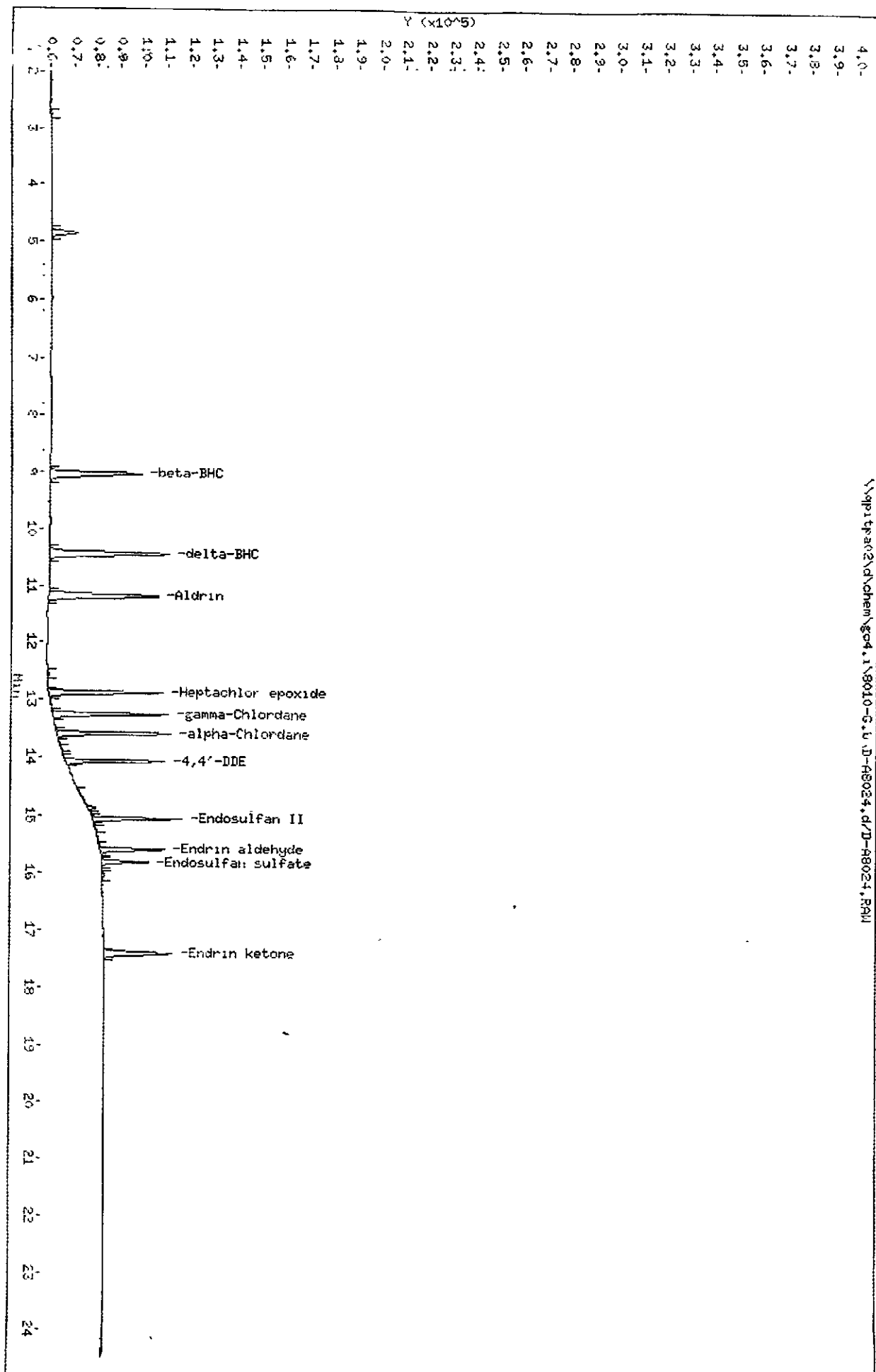
Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8024.d  
Lab Smp Id: MLOWB  
Inj Date : 02-NOV-2000 15:24  
Operator : 1891  
Smp Info : MLOWB,8010-G.b,,4-INDB.sub,,1,2  
Misc Info : 190-100-13  
Comment :  
Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 03-Nov-2000 09:48 matkol  
Cal Date : 02-NOV-2000 15:52  
Als bottle: 1  
Dil Factor: 1.00000  
Integrator: Falcon  
Target Version: 4.04  
Processing Host: PITPC044

Inst ID: gc4.i  
Quant Type: ESTD  
Cal File: D-A8025.d  
Calibration Sample, Level: 2  
Compound Sublist: 4-INDB.sub

| Compounds             | RT     | EXP RT | DLT RT | RESPONSE | AMOUNTS          |                 |
|-----------------------|--------|--------|--------|----------|------------------|-----------------|
|                       |        |        |        |          | CAL-AHT<br>( ng) | ON-COL<br>( ng) |
| =====                 | ==     | =====  | =====  | =====    | =====            | =====           |
| 11 Aldrin             | 11.180 | 11.180 | 0.000  | 46913    | 0.01000          | 0.01037         |
| 7 beta-BHC            | 9.026  | 9.026  | 0.000  | 38931    | 0.01000          | 0.01054         |
| 8 delta-BHC           | 10.433 | 10.433 | 0.000  | 50698    | 0.01000          | 0.01044         |
| 12 Heptachlor epoxide | 12.886 | 12.886 | 0.000  | 48550    | 0.01000          | 0.01038         |
| 13 gamma-Chlordane    | 13.260 | 13.260 | 0.000  | 49101    | 0.01000          | 0.01041         |
| 14 alpha-Chlordane    | 13.593 | 13.593 | 0.000  | 48902    | 0.01000          | 0.01040         |
| 16 4,4'-DDE           | 14.073 | 14.073 | 0.000  | 42524    | 0.01000          | 0.01026         |
| 22 Endosulfan II      | 15.060 | 15.060 | 0.000  | 38374    | 0.01000          | 0.01051         |
| 24 Endrin aldehyde    | 15.593 | 15.593 | 0.000  | 28009    | 0.01000          | 0.01029         |
| 26 Endosulfan sulfate | 15.813 | 15.813 | 0.000  | 20357    | 0.01000          | 0.01025         |
| 27 Endrin ketone      | 17.406 | 17.406 | 0.000  | 29075    | 0.01000          | 0.01029         |

Data File: \\pp1tpa02\chem\gc4.1\8010-G.b.D-A8024.d  
 Date: 02-10-2000 15:24  
 Client ID:  
 Sample Info: HClMB,8010-G.b.,4-IND,sub.,1,2  
 Column phase: DB603

Instrument: GC4.1  
 Operator: 1891  
 Column diameter: 0.53



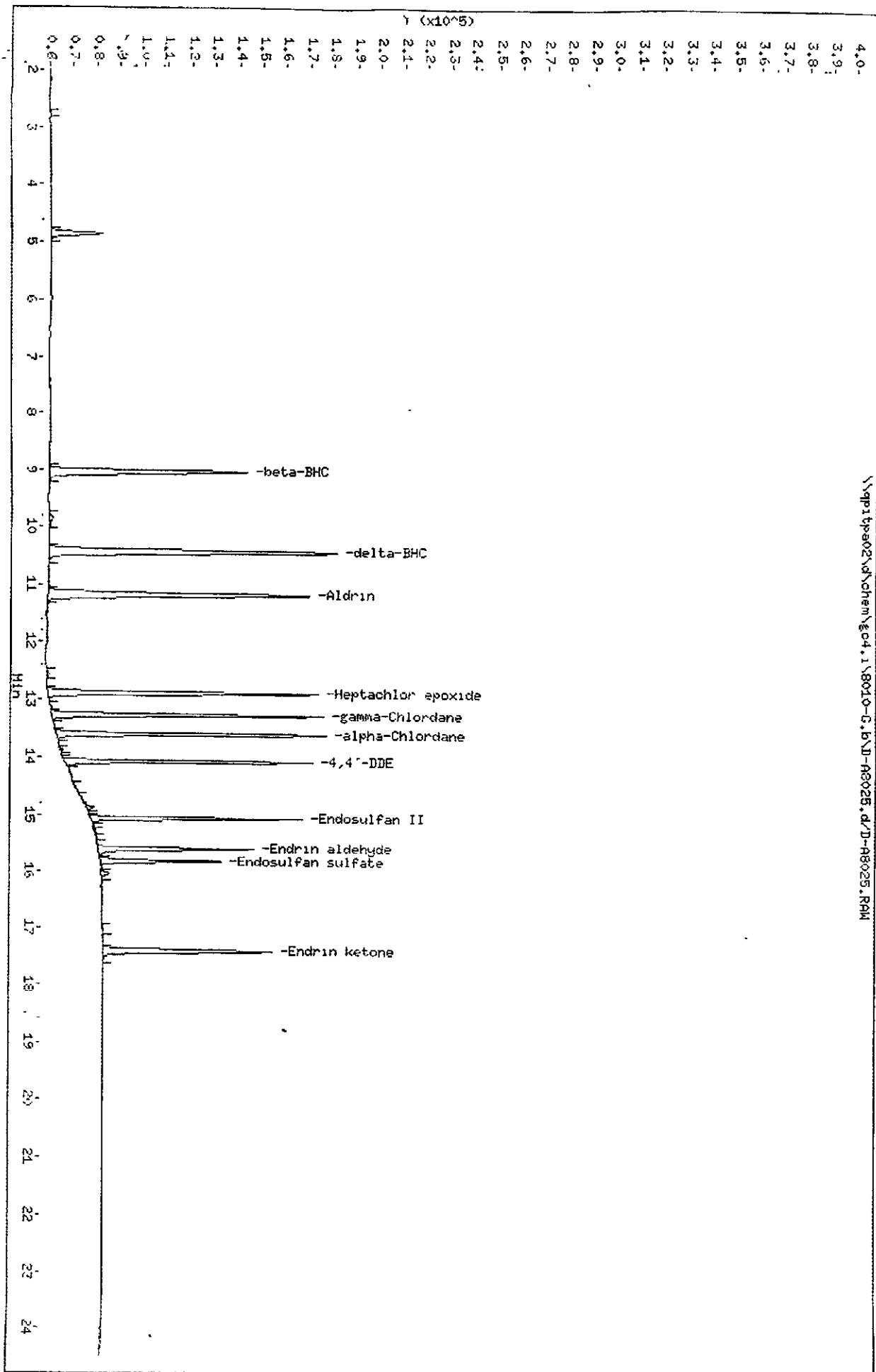
STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8025.d  
Lab Smp Id: MEDB  
Inj Date : 02-NOV-2000 15:52  
Operator : 1891 Inst ID: gc4.i  
Smp Info : MEDB,8010-G.b,,4-INDB.sub,,1,3  
Misc Info : 190-100-14  
Comment :  
Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 03-Nov-2000 09:48 matkol Quant Type: ESTD  
Cal Date : 02-NOV-2000 15:52 Cal File: D-A8025.d  
Als bottle: 1 Calibration Sample, Level: 3  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 4-INDB.sub  
Target Version: 4.04  
Processing Host: PITPC044

| Compounds             | AMOUNTS |        |        |          |                  |                 |
|-----------------------|---------|--------|--------|----------|------------------|-----------------|
|                       | RT      | EXP RT | DLT RT | RESPONSE | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                 | ==      | =====  | =====  | =====    | =====            | =====           |
| 11 Aldrin             | 11 180  | 11 180 | 0 000  | 110622   | 0 02500          | 0 02500         |
| 7 beta-BHC            | 9 026   | 9.026  | 0 000  | 83235    | 0.02500          | 0.02500         |
| 8 delta-BHC           | 10 433  | 10.433 | 0.000  | 121767   | 0 02500          | 0 02500         |
| 12 Heptachlor epoxide | 12 886  | 12 886 | 0.000  | 114125   | 0 02500          | 0 02500         |
| 13 gamma-Chlordane    | 13 260  | 13 260 | 0 000  | 115179   | 0 02500          | 0.02500         |
| 14 alpha-Chlordane    | 13 593  | 13 593 | 0 000  | 114605   | 0.02500          | 0 02500         |
| 16 4,4'-DDE           | 14.073  | 14 073 | 0 000  | 104825   | 0 02500          | 0 02500         |
| 22 Endosulfan II      | 15 060  | 15.060 | 0 000  | 89298    | 0 02500          | 0 02500         |
| 24 Endrin aldehyde    | 15 593  | 15.593 | 0.000  | 66009    | 0 02500          | 0 02500         |
| 26 Endosulfan sulfate | 15 813  | 15.813 | 0 000  | 51152    | 0 02500          | 0 02500         |
| 27 Endrin ketone      | 17 406  | 17 406 | 0.000  | 71768    | 0 02500          | 0 02500         |

Data File: \\pp1tpa02\\chem\\g04.1\\8010-G.b.D-A8025.d  
Date : 02-NOV-2000 15:52  
Client ID:  
Sample Info: MEDB/8010-G.b,4-INDS.sub,1,3  
Column phase: DB608

Instrument: g04.1  
Operator: 1891  
Column diameter: 0.53



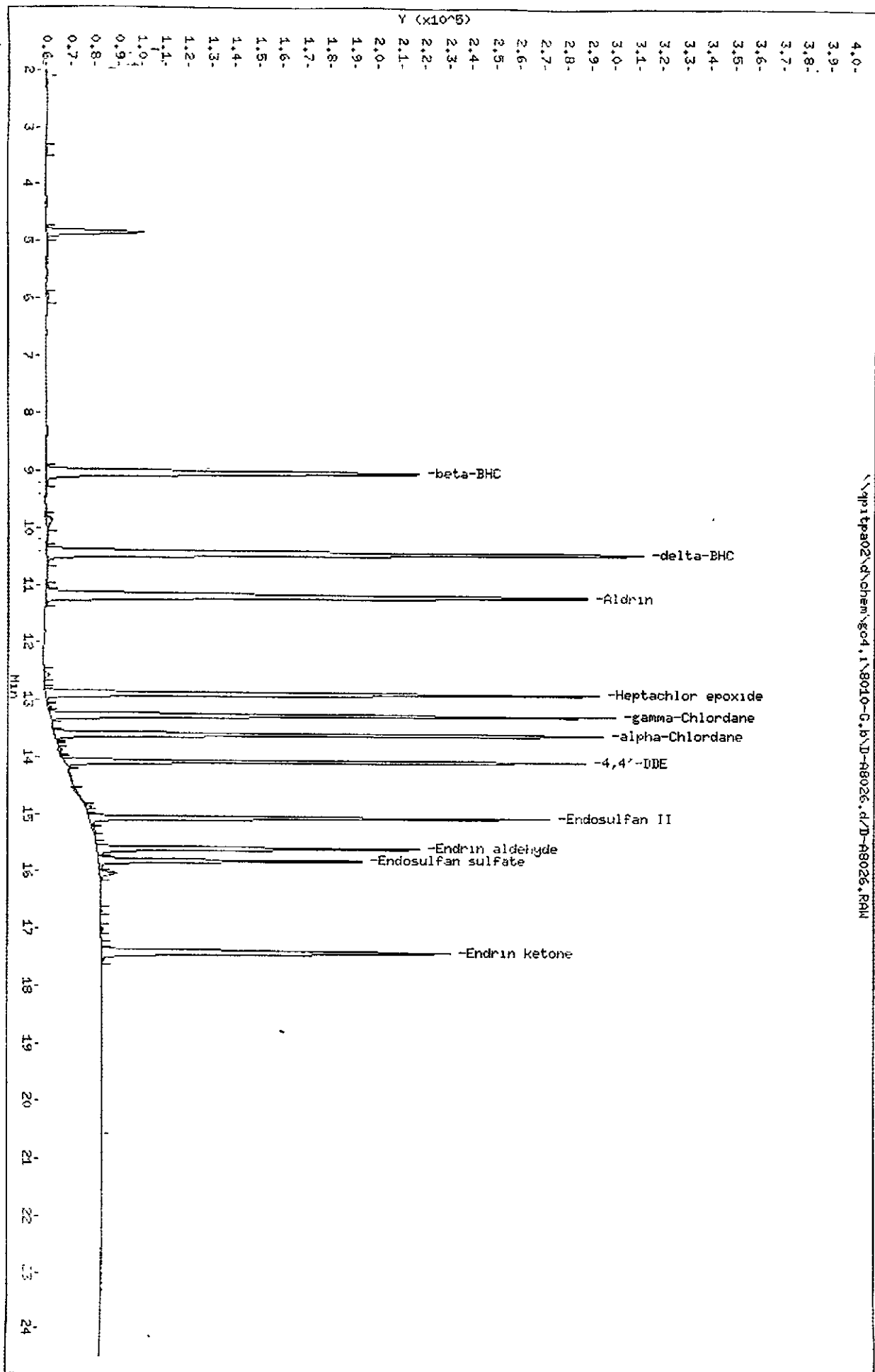
STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8026.d  
Lab Smp Id: MHIGHB  
Inj Date : 02-NOV-2000 16:20  
Operator : 1891 Inst ID: gc4.i  
Smp Info : MHIGHB,8010-G.b,,4-INDB.sub,,1,4  
Misc Info : 190-101-1  
Comment :  
Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 03-Nov-2000 09:48 matkol Quant Type: ESTD  
Cal Date : 02-NOV-2000 16:20 Cal File: D-A8026.d  
Als bottle: 1 Calibration Sample, Level: 4  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 4-INDB.sub  
Target Version: 4.04  
Processing Host: PITPC044

| Compounds             | RT     | EXP RT | DLT RT | RESPONSE | AMOUNTS          |                 |
|-----------------------|--------|--------|--------|----------|------------------|-----------------|
|                       |        |        |        |          | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                 | ==     | =====  | =====  | =====    | =====            | =====           |
| 11 Aldrin             | 11.186 | 11 180 | 0 006  | 227691   | 0.05000          | 0.05025         |
| 7 beta-BHC            | 9.026  | 9 026  | 0 000  | 157411   | 0 05000          | 0 04424         |
| 8 delta-BHC           | 10 433 | 10 433 | 0 000  | 251212   | 0 05000          | 0.05130         |
| 12 Heptachlor epoxide | 12 886 | 12.886 | 0 000  | 232891   | 0 05000          | 0 04984         |
| 13 gamma-Chlordane    | 13 260 | 13 260 | 0.000  | 238333   | 0 05000          | 0 05039         |
| 11 alpha-Chlordane    | 13 593 | 13.593 | 0 000  | 231349   | 0 05000          | 0 04940         |
| 16 4,4'-DDE           | 14 073 | 14 073 | 0.000  | 219735   | 0 05000          | 0 05224         |
| 22 Endosulfan II      | 15.060 | 15 060 | 0 000  | 194118   | 0.05000          | 0.05233         |
| 24 Endrin aldehyde    | 15.593 | 15 593 | 0 000  | 136502   | 0.05000          | 0.05013         |
| 26 Endosulfan sulfate | 15 806 | 15 813 | -0.007 | 111485   | 0.05000          | 0 05445         |
| 27 Endrin ketone      | 17.406 | 17.406 | 0.000  | 146882   | 0.05000          | 0 05146         |

Data File: \\qritpa02\chem\gc4.1\8010-G.b.D-88026.4  
Date: 02-NOV-2000 16:20  
Client ID:  
Sample Info: HHICB-8010-G.b.,4-INDB.sub.,1,4  
Column phase: DB608

Instrument: gc4.1  
Operator: J891  
Column diameter: 0.53



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8027.d  
Lab Smp Id: HIGHB  
Inj Date : 02-NOV-2000 16:47  
Operator : 1891 Inst ID: gc4.i  
Smp Info : HIGHB,8010-G.b,,4-INDB.sub,,1,5  
Misc Info : 190-101-2  
Comment :  
Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 03-Nov-2000 09:48 matkol Quant Type: ESTD  
Cal Date : 02-NOV-2000 16:47 Cal File: D-A8027.d  
Als bottle: 1 Calibration Sample, Level: 5  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 4-INDB.sub  
Target Version: 4.04  
Processing Host: PITPC044

| Compounds             | RT     | EXP RT | DLT RT | RESPONSE | AMOUNTS          |                 |
|-----------------------|--------|--------|--------|----------|------------------|-----------------|
|                       |        |        |        |          | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                 | ==     | =====  | =====  | =====    | =====            | =====           |
| 11 Aldrin             | 11.180 | 11.180 | 0.000  | 438964   | 0.10000          | 0.09749         |
| 7 beta-BHC            | 9.026  | 9.026  | 0.000  | 286980   | 0.10000          | 0.08390         |
| 8 delta-BHC           | 10.433 | 10.433 | 0.000  | 493917   | 0.10000          | 0.1007(A)       |
| 12 Heptachlor epoxide | 12.886 | 12.886 | 0.000  | 455039   | 0.10000          | 0.09790         |
| 13 gamma-Chlordane    | 13.260 | 13.260 | 0.000  | 456755   | 0.10000          | 0.09724         |
| 14 alpha-Chlordane    | 13.593 | 13.593 | 0.000  | 448238   | 0.10000          | 0.09654         |
| 16 4,4'-DDE           | 14.073 | 14.073 | 0.000  | 432826   | 0.10000          | 0.1023(A)       |
| 22 Endosulfan II      | 15.060 | 15.060 | 0.000  | 389906   | 0.10000          | 0.1040(A)       |
| 24 Endrin aldehyde    | 15.593 | 15.593 | 0.000  | 269877   | 0.10000          | 0.09928         |
| 26 Endosulfan sulfate | 15.813 | 15.813 | 0.000  | 233455   | 0.10000          | 0.1109(A)       |
| 27 Endrin ketone      | 17.406 | 17.406 | 0.000  | 298634   | 0.10000          | 0.1037(A)       |

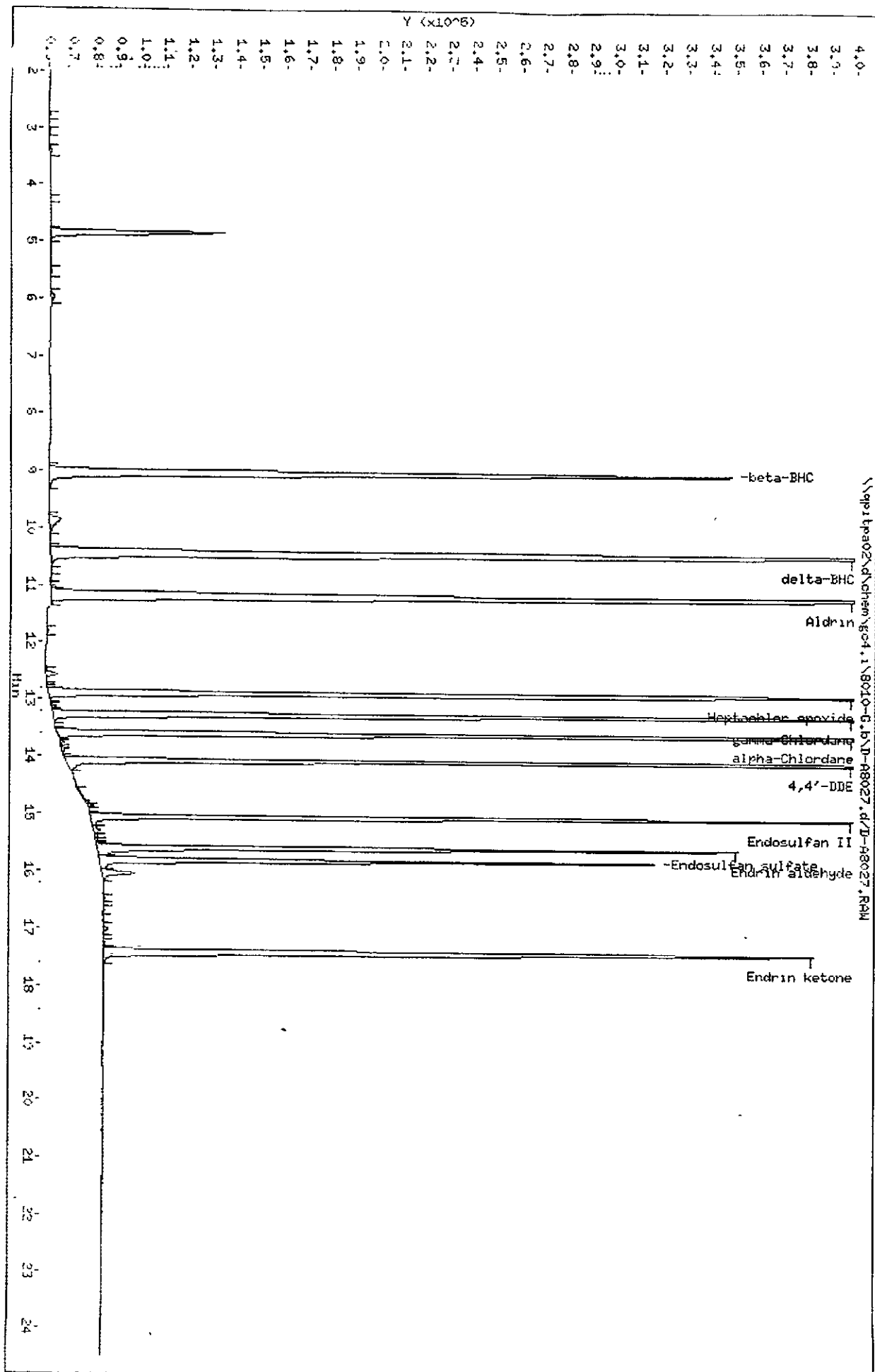
QC Flag Legend

A - Target compound detected but, quantitated amount  
exceeded maximum amount.

674 347

Data File: \\sp1tpa02\chem\gc4.1\8010-G.b.D-A8027.d  
Date: 02-Nov-2000 16:47  
Client ID:  
Sample Info: HICB, 8010-G.b, 4-IND, sub..1.5  
Column phase: DB608

Instrument: GC4.1  
Operator: 1891  
Column diameter: 0.53





STL-Pittsburgh

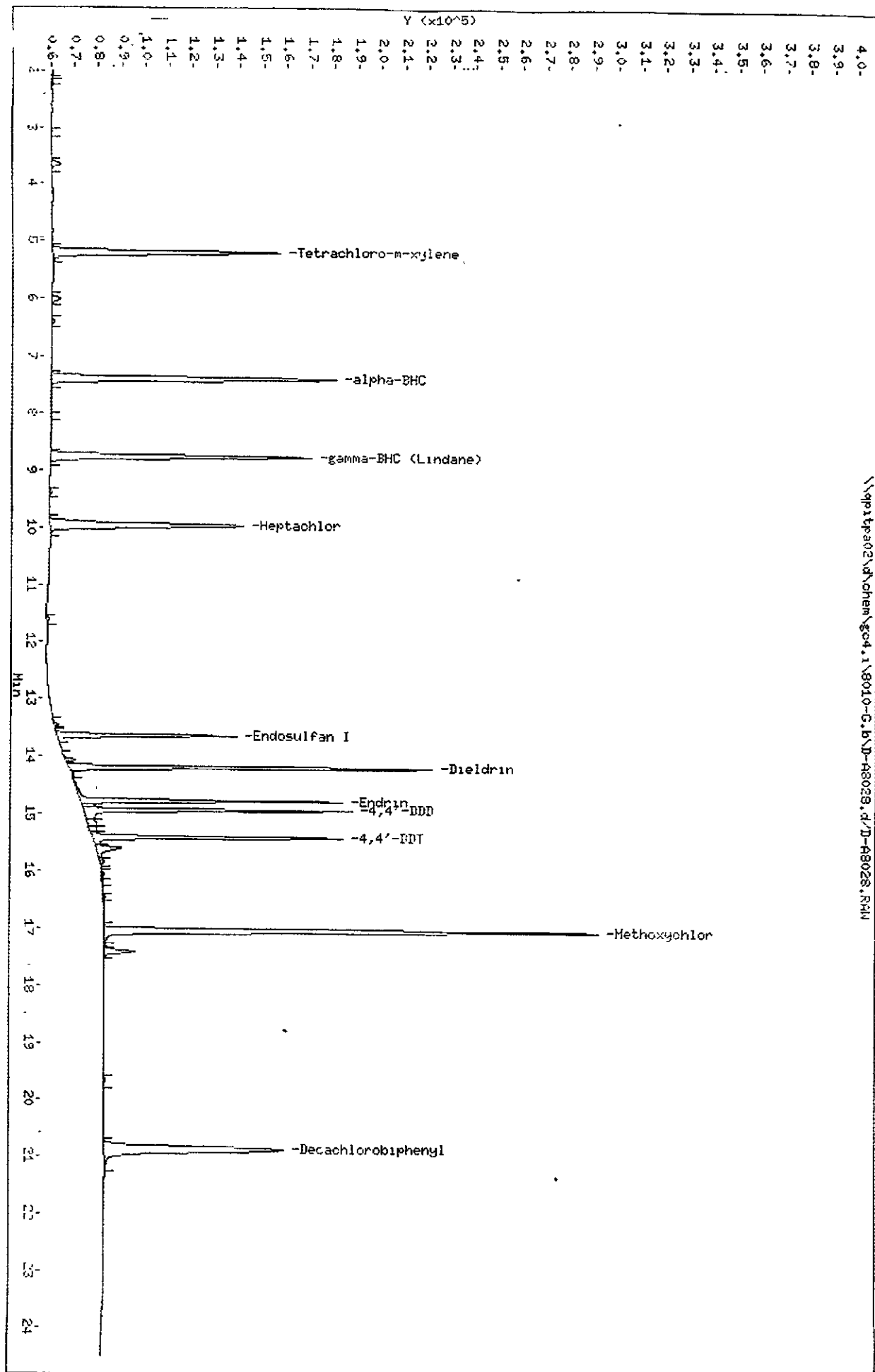
Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8028.d  
Lab Smp Id: 2ND A  
Inj Date : 02-NOV-2000 17:15  
Operator : 1891  
Smp Info : 2ND A, 8010-G.b, , INDA.sub, , 2, 3  
Misc Info : 190-101-7  
Comment :  
Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 03-Nov-2000 09:48 matkol  
Cal Date : 02-NOV-2000 16:47  
Als bottle: 1  
Dil Factor: 1.00000  
Integrator: Falcon  
Target Version: 4.04  
Processing Host: PITPC044  
Inst ID: gc4.1  
Quant Type: ESTD  
Cal File: D-A8027.d  
Continuing Calibration Sample  
Compound Sublist: INDA.sub

| AMOUNTS                   |        |        |        |          |                  |                 |
|---------------------------|--------|--------|--------|----------|------------------|-----------------|
| Compounds                 | RT     | EXP RT | DLT RT | RESPONSE | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                     | ==     | =====  | =====  | =====    | =====            | =====           |
| \$ 1 Tetrachloro-m-xylene | 5.200  | 5.200  | 0.000  | 95364    | 0.02500          | 0.01740         |
| 5 alpha-BHC               | 7.393  | 7.393  | 0.000  | 120428   | 0.02500          | 0.01754         |
| 6 gamma-BHC (Lindane)     | 8.753  | 8.753  | 0.000  | 109665   | 0.02500          | 0.01748         |
| 10 Heptachlor             | 9.953  | 9.953  | 0.000  | 81324    | 0.02500          | 0.01759         |
| 15 Endosulfan I           | 13.640 | 13.640 | 0.000  | 75928    | 0.02500          | 0.01759         |
| 17 Dieldrin               | 14.200 | 14.200 | 0.000  | 153861   | 0.02500          | 0.03475         |
| 22 Endrin                 | 14.780 | 14.780 | 0.000  | 110550   | 0.02500          | 0.03196         |
| 21 4,4'-DDD               | 14.940 | 14.940 | 0.000  | 113331   | 0.02500          | 0.03663         |
| 23 4,4'-DDT               | 15.413 | 15.413 | 0.000  | 105941   | 0.02500          | 0.03629         |
| 25 Methoxychlor           | 17.033 | 17.033 | 0.000  | 208823   | 0.05000          | 0.1832          |
| \$ 30 Decachlorobiphenyl  | 20.880 | 20.880 | 0.000  | 76060    | 0.02500          | 0.03480         |

674 349

Data File: \\pp1tpa02\chem\gc4.1\8010-G.b\D-A8028.d  
Date : 03-NOV-2000 17:15  
Client ID:  
Sample Info: 2ND A, 8010-G.b, INDIA, sub, 2,3  
Column phase: DB608

Instrument: gc4.1  
Operator: 1891  
Column diameter: 0.53



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8029.d  
Lab Smp Id: 2ND B  
Inj Date : 02-NOV-2000 17:43  
Operator : 1891  
Smp Info : 2ND B, 8010-G.b, , INDB.sub, , 2, 3  
Misc Info : 190-101-10  
Comment :  
Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 03-Nov-2000 09:48 matkol  
Cal Date : 02-NOV-2000 16:47  
Als bottle: 1  
Dil Factor: 1.00000  
Integrator: Falcon  
Target Version: 4.04  
Processing Host: PITPC044

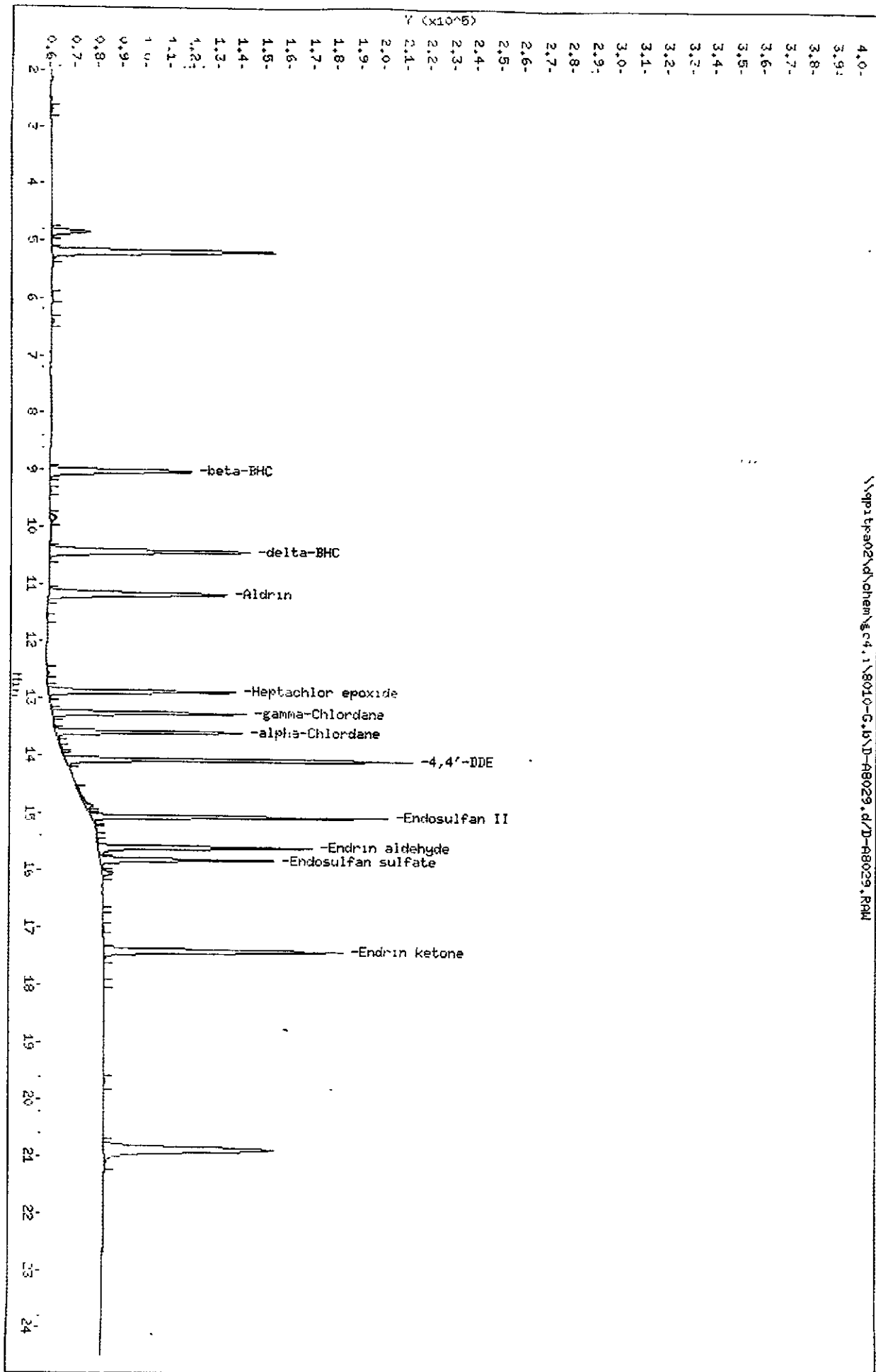
Inst ID: gc4.i  
Quant Type: ESTD  
Cal File: D-A8027.d  
Continuing Calibration Sample  
Compound Sublist: INDB.sub

| Compounds             | AMOUNTS |        |        |          |                  |                 |
|-----------------------|---------|--------|--------|----------|------------------|-----------------|
|                       | RT      | EXP RT | DLT RT | RESPONSE | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                 | ==      | =====  | =====  | =====    | =====            | =====           |
| 11 Aldrin             | 11 180  | 11 180 | 0.000  | 75068    | 0 02500          | 0.01667         |
| 7 beta-BHC            | 9 026   | 9.026  | 0.000  | 59466    | 0 02500          | 0 01738         |
| 8 delta-BHC           | 10 433  | 10 433 | 0.000  | 84716    | 0.02500          | 0.01727         |
| 12 Heptachlor epoxide | 12 886  | 12 886 | 0 000  | 78992    | 0 02500          | 0 01699         |
| 13 gamma-Chlordane    | 13 260  | 13 260 | 0 000  | 82086    | 0.02500          | 0 01748         |
| 14 alpha-Chlordane    | 13 593  | 13 593 | 0.000  | 78719    | 0 02500          | 0 01695         |
| 16 4,4'-DDE           | 14 073  | 14.073 | 0 000  | 146437   | 0 02500          | 0 03461         |
| 22 Endosulfan II      | 15.060  | 15.060 | 0 000  | 124999   | 0 02500          | 0 03336         |
| 24 Endrin aldehyde    | 15 593  | 15 593 | 0 000  | 90022    | 0.02500          | 0 03312         |
| 26 Endosulfan sulfate | 15.813  | 15 813 | 0.000  | 73551    | 0.02500          | 0 03494         |
| 27 Endrin ketone      | 17 406  | 17.406 | 0 000  | 100504   | 0 02500          | 0 03489         |

674 351

Data File: \\pp1tpa02\chem\sc4.1\8010-G.b\D-A8029.d  
Date: 02-NOV-2007 17:43  
Client ID:  
Sample Info: 2ND B, 3010-G.b, INDB, sub, 2,3  
Column Phase: DB608

Instrument: GC4.1  
Operator: 1891  
Column diameter: 0.53



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8030.d  
Lab Smp Id: EVALB  
Inj Date : 02-NOV-2000 18:11  
Operator : 1891 Inst ID: gc4.i  
Smp Info : EVALB, 8010-G.b, , EVALBR.sub, , 3, 1  
Misc Info : 190-102-10  
Comment :  
Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 03-Nov-2000 09:48 matkol Quant Type: ESTD  
Cal Date : 02-NOV-2000 16:47 Cal File: D-A8027.d  
Als bottle: 1 QC Sample: PEM  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: EVALBR.sub  
Target Version: 4.04  
Processing Host: PITPC044

| Compounds                 | RT                    | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS     |                |
|---------------------------|-----------------------|--------|--------|----------|--------------------|----------------|
|                           |                       |        |        |          | ON-COLUMN<br>( ng) | FINAL<br>( ng) |
| =====                     | ==                    | =====  | =====  | =====    | =====              | =====          |
| \$ 1 Tetrachloro-m-xylene | 5.200                 | 5 200  | 0.000  | 108808   | 0 01986            | 0 01986 (R)    |
| 16 4,4'-DDE               | 14.073                | 14.073 | 0 000  | 3282     | <0.0               | 0.0007757      |
| 20 Endrin                 | 14 780                | 14 780 | 0.000  | 84459    | 0 02441            | 0 02441        |
| 21 4,4'-DDD               | Compound Not Detected |        |        |          |                    |                |
| 23 4,4'-DDT               | 15 406                | 15 413 | -0.007 | 71235    | 0 02440            | 0 02440        |
| 24 Endrin aldehyde        | 15 593                | 15 593 | 0 000  | 5369     | 0.00198            | 0.001975       |
| 27 Endrin ketone          | 17 406                | 17 406 | 0 000  | 5437     | 0 00189            | 0 001888       |
| \$ 30 Decachlorobiphenyl  | 20 880                | 20 880 | 0 000  | 43759    | 0.02002            | 0 02002 (R)    |

QC Flag Legend

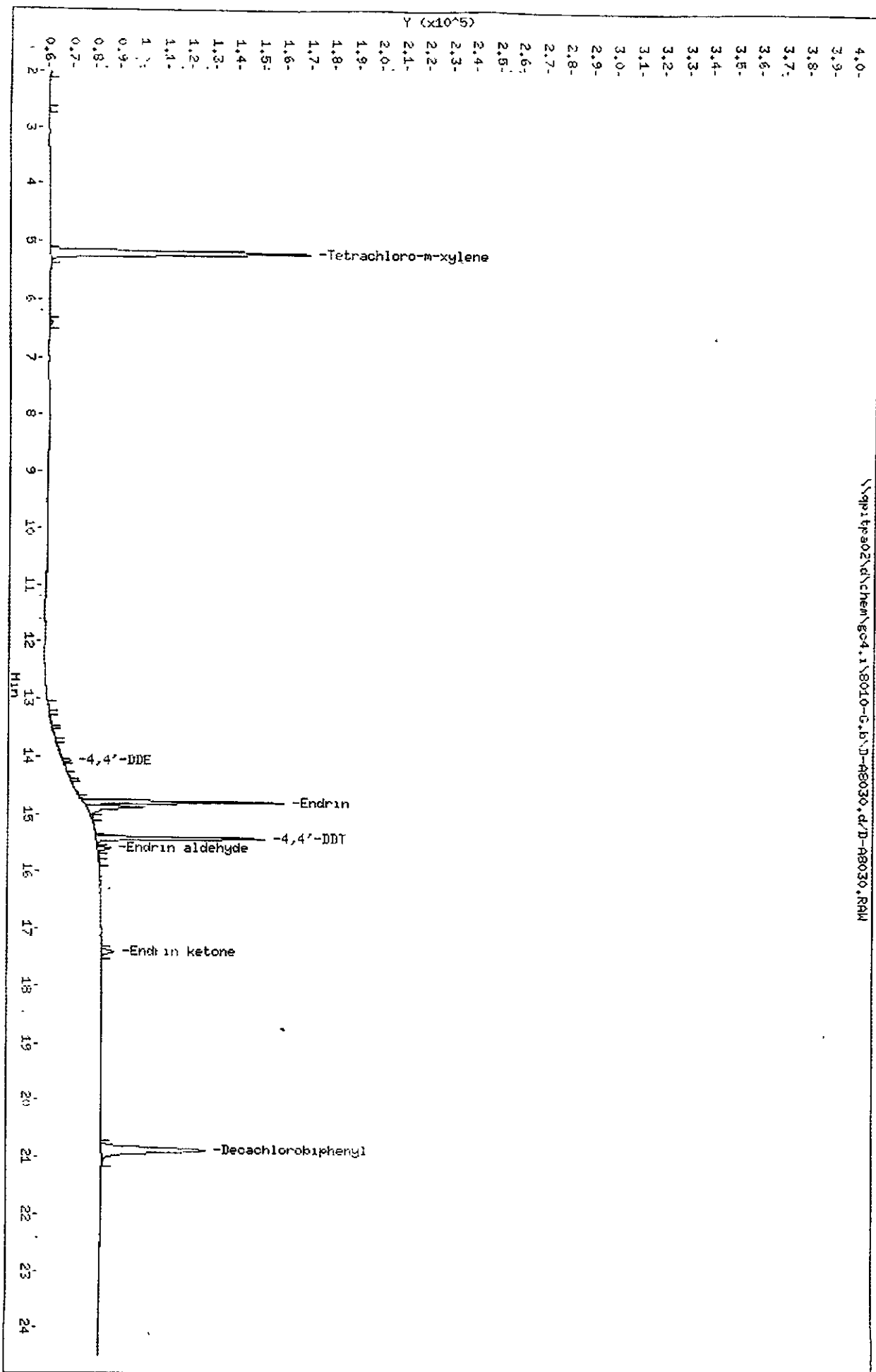
R - Spike/Surrogate failed recovery limits.

DDT = 4.4  
Endrin = 11.3

674 353

Data File: \\sp1tpa02\chem\gc4.1\8010-G.b.D-AB030.d  
Date: 02-NOV-2000 18:11  
Client ID:  
Sample Info: EVALB,8010-G.b, EVALBR,sub.,3,1  
Column Phase: DB608

Instrument: gc4.1  
Operator: 1891  
Column diameter: 0.53



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8168.d  
Lab Smp Id: EVALB  
Inj Date : 07-NOV-2000 09:18  
Operator : 1891 Inst ID: gc4.i  
Smp Info : EVALB,8010-G.b,,EVALBR.sub,,3,1  
Misc Info : 190-102-10  
Comment :  
Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 07-Nov-2000 15:07 matkol Quant Type: ESTD  
Cal Date : 02-NOV-2000 16:47 Cal File: D-A8027.d  
Als bottle: 1 QC Sample: PEM  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: EVALBR.sub  
Target Version: 4.04  
Processing Host: PITPC061

| Compounds                 | CONCENTRATIONS         |        |        |          |                    |                |
|---------------------------|------------------------|--------|--------|----------|--------------------|----------------|
|                           | RT                     | EXP RT | DLT RT | RESPONSE | ON-COLUMN<br>( ng) | FINAL<br>( ng) |
| =====                     | ==                     | =====  | =====  | =====    | =====              | =====          |
| \$ 1 Tetrachloro-m-xylene | 5.193                  | 5.193  | 0.000  | 116890   | 0.02133            | 0.02133 (R)    |
| 16 4,4'-DDE               | 14.066                 | 14.066 | 0.000  | 2099     | <0.0               | 0.0004961      |
| 20 Endrin                 | 14.773                 | 14.773 | 0.000  | 102929   | 0.02975            | 0.02975        |
| 21 4,4'-DDD               | Compound Not Detected. |        |        |          |                    |                |
| 23 4,4'-DDT               | 15.406                 | 15.406 | 0.000  | 87565    | 0.03000            | 0.03000        |
| 24 Endrin aldehyde        | 15.586                 | 15.580 | 0.006  | 4266     | 0.00157            | 0.001569       |
| 27 Endrin ketone          | 17.393                 | 17.393 | 0.000  | 2798     | <0.0               | 0.0009714      |
| \$ 30 Decachlorobiphenyl  | 20.860                 | 20.853 | 0.007  | 43857    | 0.02006            | 0.02006 (R)    |

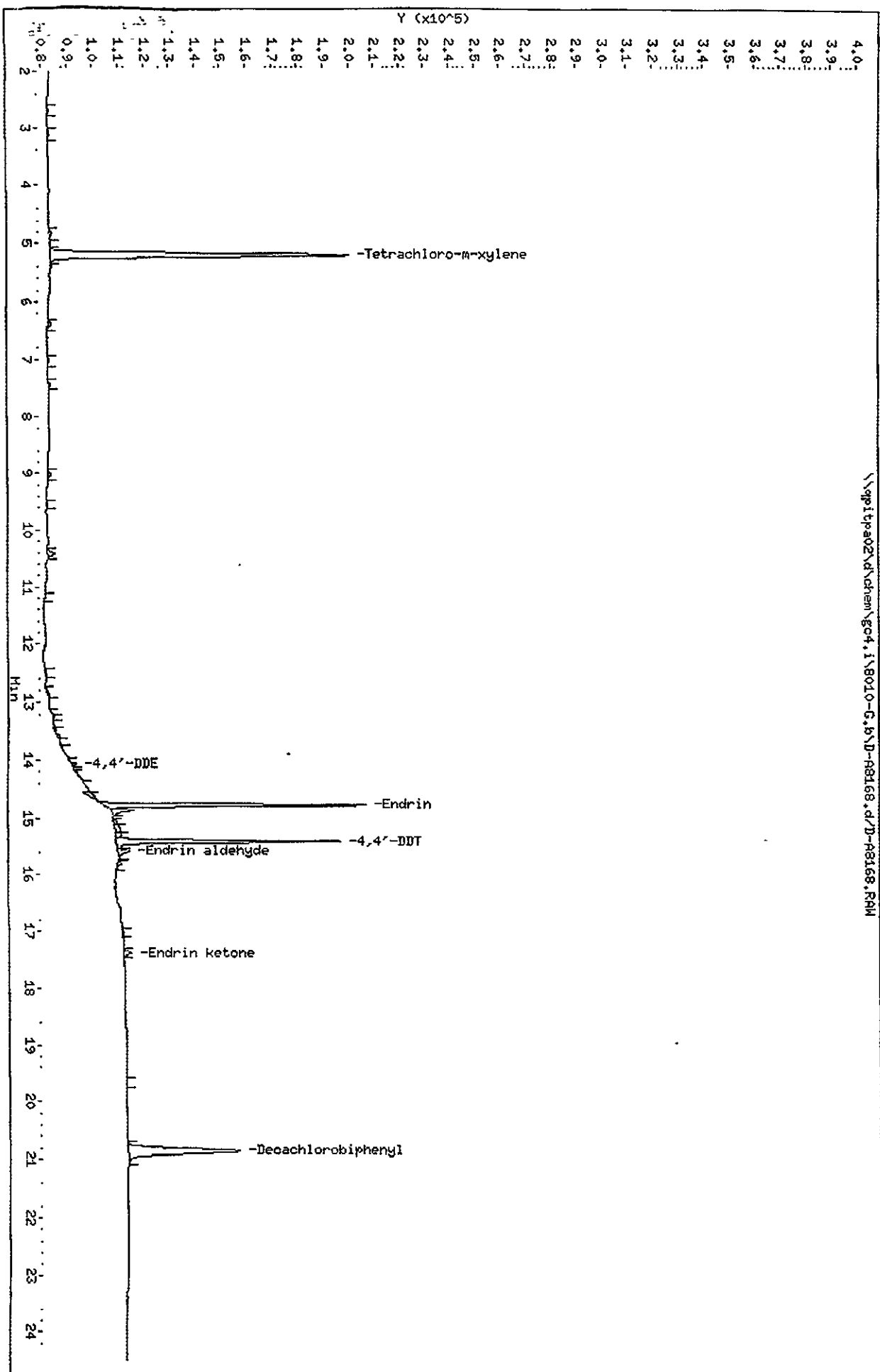
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT = 2.3  
Endrin = 6.4

Data File: \\qpitpa02\chem\gc4.1\8010-G.b\D-R8168.d  
Date: 07-NOV-2000 09:18  
Client ID:  
Sample Info: EVALB,8010-G.b.,EVALBR,sub,3,1  
Column phase: DB608

Instrument: gc4.1  
Operator: 1891  
Column diameter: 0.53





STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8169.d  
Lab Smp Id: MEDA  
Inj Date : 07-NOV-2000 09:46  
Operator : 1891 Inst ID: gc4.i  
Smp Info : MEDA,8010-G.b,, INDA.sub,, 2,3  
Misc Info : 190-100-8  
Comment :  
Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 07-Nov-2000 15:07 matkol Quant Type: ESTD  
Cal Date : 02-NOV-2000 16:47 Cal File: D-A8027.d  
Als bottle: 1 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: INDA.sub  
Target Version: 4.04  
Processing Host: PITPC044

| Compounds                 | RT     | EXP RT | DLT RT | RESPONSE | AMOUNTS          |                 |
|---------------------------|--------|--------|--------|----------|------------------|-----------------|
|                           |        |        |        |          | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| \$ 1 Tetrachloro-m-xylene | 5.193  | 5.193  | 0.000  | 148280   | 0.02500          | 0.02706         |
| 5 alpha-BHC               | 7.380  | 7.380  | 0.000  | 186356   | 0.02500          | 0.02714         |
| 6 gamma-BHC (Lindane)     | 8.740  | 8.740  | 0.000  | 166762   | 0.02500          | 0.02658         |
| 10 Heptachlor             | 9.933  | 9.933  | 0.000  | 126727   | 0.02500          | 0.02741         |
| 15 Endosulfan I           | 13.633 | 13.633 | 0.000  | 111435   | 0.02500          | 0.02582         |
| 17 Dieldrin               | 14.186 | 14.186 | 0.000  | 116722   | 0.02500          | 0.02636         |
| 20 Endrin                 | 14.773 | 14.773 | 0.000  | 105150   | 0.02500          | 0.03040         |
| 21 4,4'-DDD               | 14.933 | 14.933 | 0.000  | 90622    | 0.02500          | 0.02929         |
| 23 4,4'-DDT               | 15.406 | 15.406 | 0.000  | 86540    | 0.02500          | 0.02965         |
| 25 Methoxychlor           | 17.020 | 17.020 | 0.000  | 76924    | 0.05000          | 0.06748         |
| \$ 30 Decachlorobiphenyl  | 20.853 | 20.853 | 0.000  | 55435    | 0.02500          | 0.02536         |

Data File: \\pittpa02\chem\gc4.1\8010-G.b\D-48169.d  
 Date: 07-NOV-2000 09:46

Client ID:

Sample Info: MEDA,8010-G.b,INDA,sub,2,3

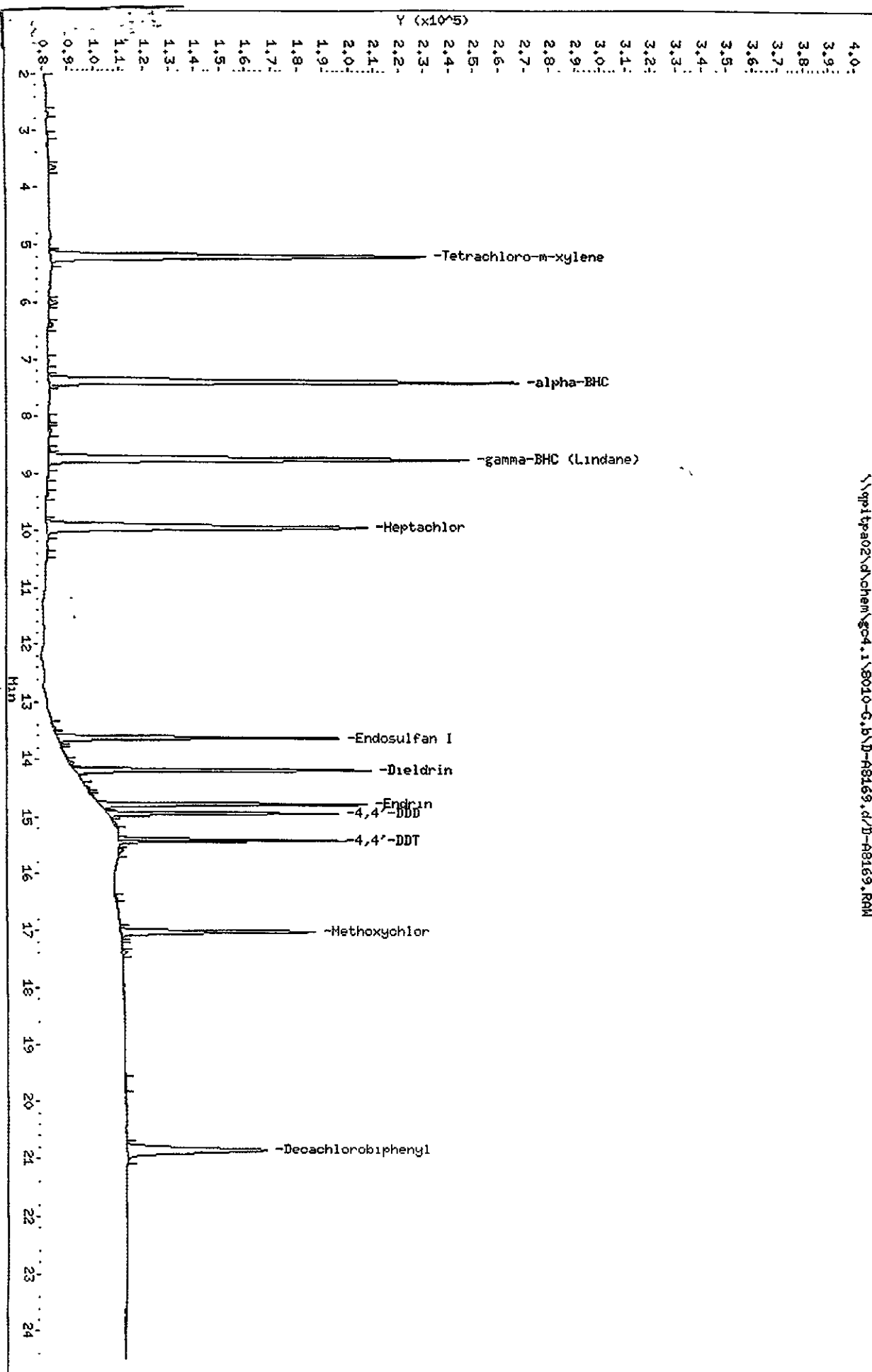
Column Phase: DB608

Instrument: gc4.1

Operator: 1891

Column diameter: 0.53

\\pittpa02\chem\gc4.1\8010-G.b\D-48169.d\I-48169.RAW



STL-Pittsburgh

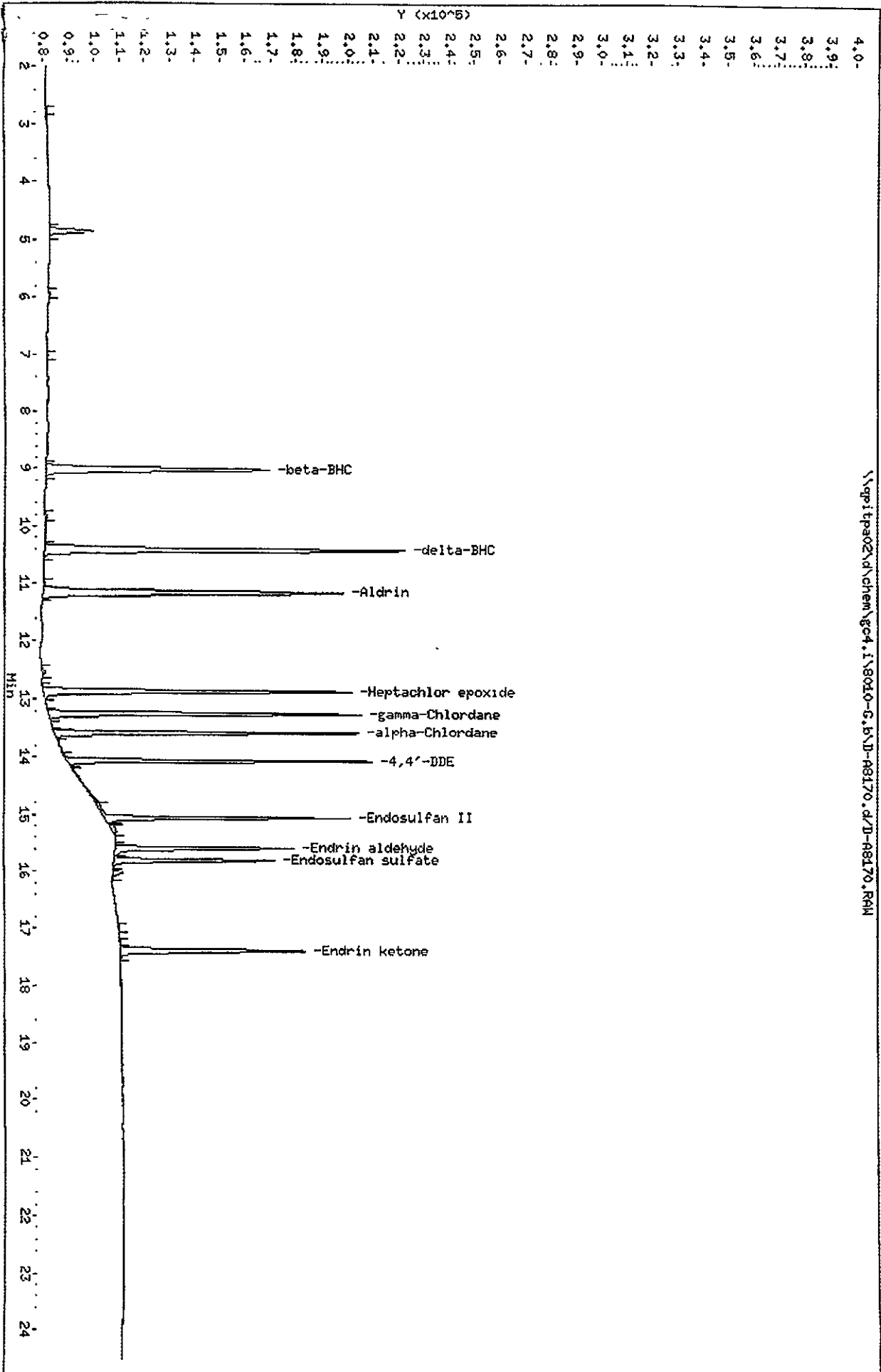
Data file : \\gpitpa02\d\chem\gc4.i\8010-G.b\D-A8170.d  
Lab Smp Id: MEDB  
Inj Date : 07-NOV-2000 10:14  
Operator : 1891  
Smp Info : MEDB,8010-G.b,,INDB.sub,,2,3  
Misc Info : 190-100-14  
Comment :  
Method : \\gpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 07-Nov-2000 15:07 matkol  
Cal Date : 02-NOV-2000 16:47  
Als bottle: 1  
Dil Factor: 1.00000  
Integrator: Falcon  
Target Version: 4.04  
Processing Host: PITPC044

Inst ID: gc4.i  
Quant Type: ESTD  
Cal File: D-A8027.d  
Continuing Calibration Sample  
Compound Sublist: INDB.sub

| Compounds             | AMOUNTS |        |        |          |                  |                 |
|-----------------------|---------|--------|--------|----------|------------------|-----------------|
|                       | RT      | EXP RT | DLT RT | RESPONSE | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                 | ==      | =====  | =====  | =====    | =====            | =====           |
| 11 Aldrin             | 11.160  | 11.160 | 0.000  | 118021   | 0.02500          | 0.02621         |
| 7 beta-BHC            | 9.020   | 9.020  | 0.000  | 87986    | 0.02500          | 0.02572         |
| 8 delta-BHC           | 10.420  | 10.420 | 0.000  | 141941   | 0.02500          | 0.02894         |
| 12 Heptachlor epoxide | 12.873  | 12.873 | 0.000  | 121272   | 0.02500          | 0.02609         |
| 13 gamma-Chlordane    | 13.253  | 13.253 | 0.000  | 122914   | 0.02500          | 0.02617         |
| 14 alpha-Chlordane    | 13.580  | 13.580 | 0.000  | 119527   | 0.02500          | 0.02574         |
| 16 4,4'-DDE           | 14.066  | 14.066 | 0.000  | 119942   | 0.02500          | 0.02835         |
| 22 Endosulfan II      | 15.053  | 15.053 | 0.000  | 96497    | 0.02500          | 0.02575         |
| 24 Endrin aldehyde    | 15.580  | 15.580 | 0.000  | 70594    | 0.02500          | 0.02597         |
| 26 Endosulfan sulfate | 15.800  | 15.800 | 0.000  | 63081    | 0.02500          | 0.02997         |
| 27 Endrin ketone      | 17.393  | 17.393 | 0.000  | 72773    | 0.02500          | 0.02826         |

Data File: \\qpltpa02\chem\gc4.i\8040-G.b\D-88170.d  
Date: 07-NOV-2000 10:14  
Client ID:  
Sample Info: HEDB,8040-G.b, INDB.sub,2,3  
Column Phase: DB608

Instrument: gc4.i  
Operator: 1891  
Column diameter: 0.53



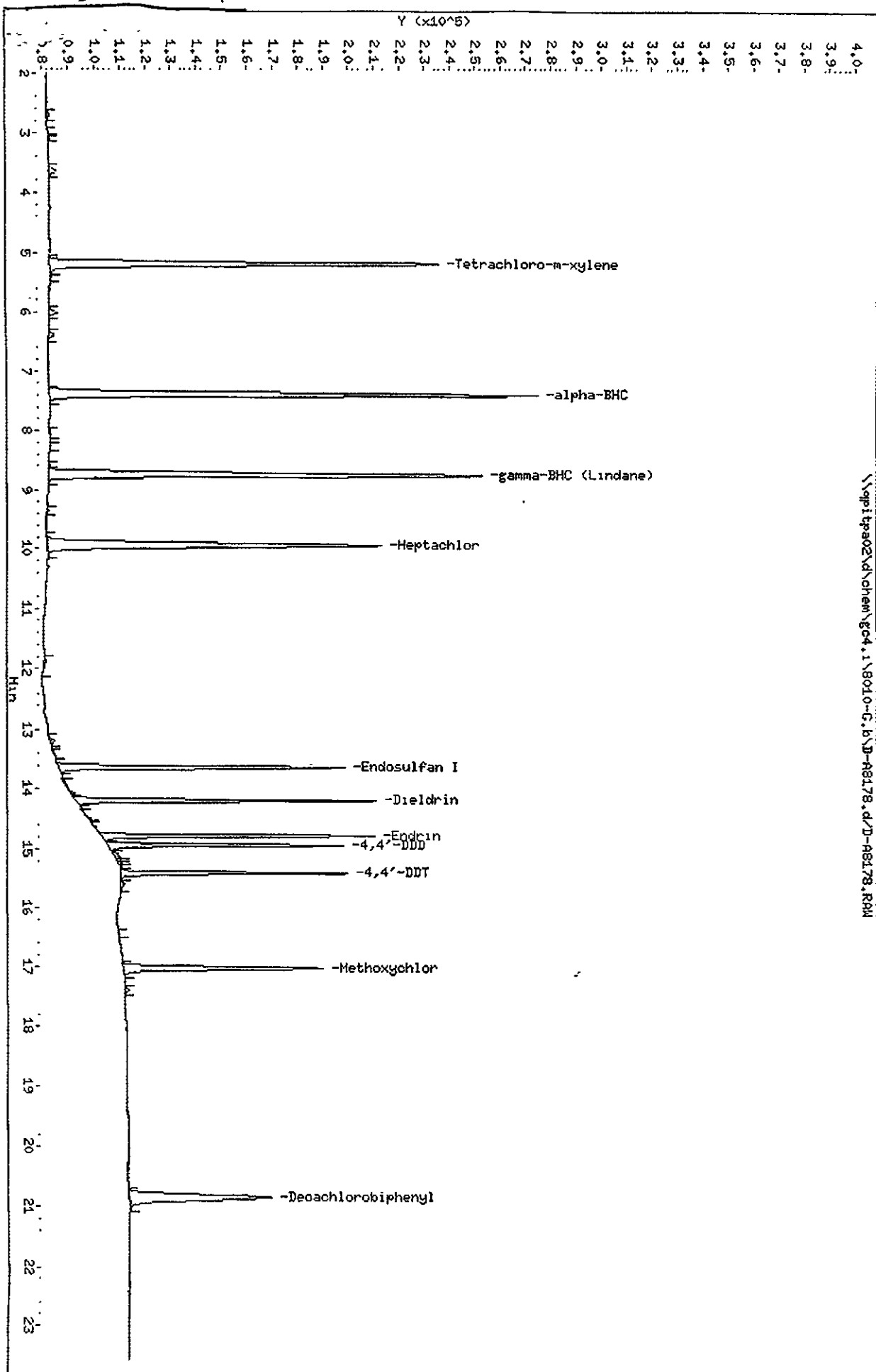
STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8178.d  
Lab Smp Id: MEDA  
Inj Date : 07-NOV-2000 14:25  
Operator : 1891 Inst ID: gc4.i  
Smp Info : MEDA,8010-G.b,, INDA.sub,,2,3  
Misc Info : 190-100-8  
Comment :  
Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 07-Nov-2000 15:07 matkol Quant Type: ESTD  
Cal Date : 02-NOV-2000 16:47 Cal File: D-A8027.d  
Als bottle: 1 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: INDA.sub  
Target Version: 4.04  
Processing Host: PITPC044

|           |                        | AMOUNTS- |        |        |          |                  |                 |
|-----------|------------------------|----------|--------|--------|----------|------------------|-----------------|
| Compounds |                        | RT       | EXP RT | DLT RT | RESPONSE | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====     |                        | ==       | =====  | =====  | =====    | =====            | =====           |
| \$        | 1 Tetrachloro-m-xylene | 5.193    | 5.193  | 0.000  | 153133   | 0.02500          | 0.02795         |
|           | 5 alpha-BHC            | 7.380    | 7.380  | 0.000  | 193084   | 0.02500          | 0.02812         |
|           | 6 gamma-BHC (Lindane)  | 8.733    | 8.740  | -0.007 | 171201   | 0.02500          | 0.02728         |
|           | 10 Heptachlor          | 9.933    | 9.933  | 0.000  | 131809   | 0.02500          | 0.02851         |
|           | 15 Endosulfan I        | 13.633   | 13.633 | 0.000  | 112911   | 0.02500          | 0.02616         |
|           | 17 Dieldrin            | 14.186   | 14.186 | 0.000  | 118534   | 0.02500          | 0.02677         |
|           | 20 Endrin              | 14.773   | 14.773 | 0.000  | 108427   | 0.02500          | 0.03134         |
|           | 21 4,4'-DDD            | 14.933   | 14.933 | 0.000  | 93058    | 0.02500          | 0.03008         |
|           | 23 4,4'-DDT            | 15.400   | 15.406 | -0.006 | 89436    | 0.02500          | 0.03064         |
|           | 25 Methoxychlor        | 17.020   | 17.020 | 0.000  | 79499    | 0.05000          | 0.06974         |
| \$        | 30 Decachlorobiphenyl  | 20.853   | 20.853 | 0.000  | 56625    | 0.02500          | 0.02591         |

Data File: \\ppitpa02\chem\gc4.1\8010-G.b\D-A8178.d  
Date: 07-NOV-2000 14:25  
Client ID:  
Sample Info: HEDA,8010-G.b,,INDR,sub,,2,3  
Column phase: DB608

Instrument: gc4.1  
Operator: 1891  
Column diameter: 0.53



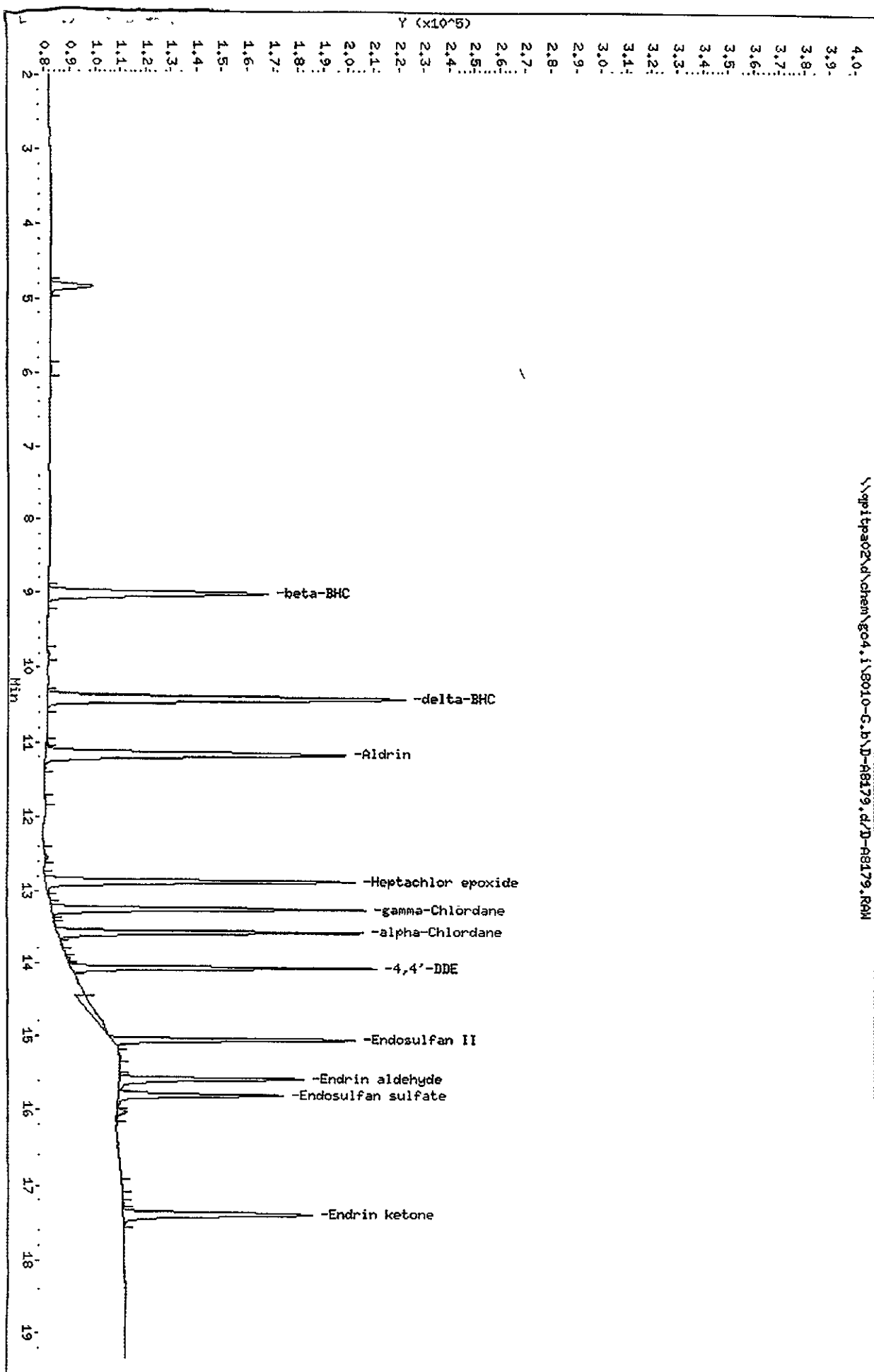
STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8179.d  
Lab Smp Id: MEDB  
Inj Date : 07-NOV-2000 14:53  
Operator : 1891 Inst ID: gc4.i  
Smp Info : MEDB,8010-G.b,,INDB.sub,,2,3  
Misc Info : 190-100-14  
Comment :  
Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
Meth Date : 07-Nov-2000 15:19 matkol Quant Type: ESTD  
Cal Date : 02-NOV-2000 16:47 Cal File: D-A8027.d  
Als bottle: 1 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: INDB.sub  
Target Version: 4.04  
Processing Host: PITPC044

| Compounds             | AMOUNTS |        |        |          |                  |                 |
|-----------------------|---------|--------|--------|----------|------------------|-----------------|
|                       | RT      | EXP RT | DLT RT | RESPONSE | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====                 | ==      | =====  | =====  | =====    | =====            | =====           |
| 11 Aldrin             | 11.160  | 11.160 | 0.000  | 118926   | 0.02500          | 0.02641         |
| 7 beta-BHC            | 9.020   | 9.020  | 0.000  | 87286    | 0.02500          | 0.02552         |
| 8 delta-BHC           | 10.420  | 10.420 | 0.000  | 142214   | 0.02500          | 0.02899         |
| 12 Heptachlor epoxide | 12.873  | 12.873 | 0.000  | 122563   | 0.02500          | 0.02637         |
| 13 gamma-Chlordane    | 13.253  | 13.253 | 0.000  | 124098   | 0.02500          | 0.02642         |
| 14 alpha-Chlordane    | 13.580  | 13.580 | 0.000  | 120792   | 0.02500          | 0.02602         |
| 16 4,4'-DDE           | 14.066  | 14.066 | 0.000  | 120967   | 0.02500          | 0.02859         |
| 22 Endosulfan II      | 15.053  | 15.053 | 0.000  | 96018    | 0.02500          | 0.02562         |
| 24 Endrin aldehyde    | 15.580  | 15.580 | 0.000  | 73204    | 0.02500          | 0.02693         |
| 26 Endosulfan sulfate | 15.800  | 15.800 | 0.000  | 65489    | 0.02500          | 0.03111         |
| 27 Endrin ketone      | 17.393  | 17.393 | 0.000  | 74374    | 0.02500          | 0.02582         |

Data File: \\ppitpa02\chem\gc4.1\8010-G.b\D-88179.d  
Date: 07-NOV-2000 14:53  
Client ID:  
Sample Info: MEDB,8010-G.b, INDB.sdb, 2,3  
Column phase: DB608

Instrument: gc4.1  
Operator: 1891  
Column diameter: 0.53





674 364

**PESTICIDE  
QC DATA**



UXB INTERNATIONAL  
METHOD BLANK COMPOUNDS

674 365

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID  
Method: SW846 8081A  
Pesticides (8081A)

Lab Sample ID: COK060000 599

Sample WT/Vol: 100 / mL  
Work Order: DPFF11AA  
Dilution factor: 1  
Moisture %: NA

Date Received: 10/31/00  
Date Extracted: 11/06/00  
Date Analyzed: 11/07/00

QC Batch: 0311599

Client Sample Id: INTRA-LAB BLANK

| CONCENTRATION UNITS: |                       |                      |   |
|----------------------|-----------------------|----------------------|---|
| CAS NO.              | COMPOUND              | (ug/L or ug/kg) mg/L | Q |
| 57-74-9              | Chlordane (technical) | 0.0050               | U |
| 72-20-8              | Endrin                | 0.00050              | U |
| 76-44-8              | Heptachlor            | 0.00050              | U |
| 1024-57-3            | Heptachlor epoxide    | 0.00050              | U |
| 58-89-9              | Lindane               | 0.00050              | U |
| 72-43-5              | Methoxychlor          | 0.0010               | U |
| 8001-35-2            | Toxaphene             | 0.020                | U |

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8171.d  
 Lab Smp Id: DPFF11AA Client Smp ID: PBLK  
 Inj Date : 07-NOV-2000 11:11  
 Operator : 1891 Inst ID: gc4.i  
 Smp Info : DPFF11AA,8010-G.b,,PEST.sub,,3,  
 Misc Info : 310200blk  
 Comment :  
 Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
 Meth Date : 07-Nov-2000 15:07 matkol Quant Type: ESTD  
 Cal Date : 02-NOV-2000 16:47 Cal File: D-A8027.d  
 Als bottle: 1 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: PEST.sub  
 Target Version: 4.04  
 Processing Host: PITPC044

Concentration Formula: Amt \* DF \* (Vt/Vo)/Vi

| Name | Value   | Description                     |
|------|---------|---------------------------------|
| DF   | 1.000   | Dilution Factor                 |
| Vt   | 10.000  | Volume of final extract (uL)    |
| Vo   | 100.000 | Volume of sample extracted (mL) |
| Vi   | 1.000   | Volume injected                 |

| Compounds                 | RT    | EXP RT | DLT RT | RESPONSE               | CONCENTRATIONS     |                  |
|---------------------------|-------|--------|--------|------------------------|--------------------|------------------|
|                           |       |        |        |                        | ON-COLUMN<br>( ng) | FINAL<br>( mg/L) |
| \$ 1 Tetrachloro-m-xylene | 5.200 | 5.193  | 0.007  | 114504                 | 0.02090            | 0.002090 (aR)    |
| 5 alpha-BHC               |       |        |        | Compound Not Detected. |                    |                  |
| 6 gamma-BHC (Lindane)     |       |        |        | Compound Not Detected. |                    |                  |
| 7 beta-BHC                |       |        |        | Compound Not Detected. |                    |                  |
| 9 Chlordane               |       |        |        | Compound Not Detected. |                    |                  |
| 10 Heptachlor             |       |        |        | Compound Not Detected. |                    |                  |
| 8 delta-BHC               |       |        |        | Compound Not Detected. |                    |                  |
| 11 Aldrin                 |       |        |        | Compound Not Detected. |                    |                  |
| 12 Heptachlor epoxide     |       |        |        | Compound Not Detected. |                    |                  |
| 13 gamma-Chlordane        |       |        |        | Compound Not Detected. |                    |                  |
| 14 alpha-Chlordane        |       |        |        | Compound Not Detected. |                    |                  |
| 15 Endosulfan I           |       |        |        | Compound Not Detected. |                    |                  |
| 16 4,4'-DDB               |       |        |        | Compound Not Detected. |                    |                  |
| 17 Dieldrin               |       |        |        | Compound Not Detected. |                    |                  |
| 20 Endrin                 |       |        |        | Compound Not Detected. |                    |                  |

| Compounds                | RT                     | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS     |                  |
|--------------------------|------------------------|--------|--------|----------|--------------------|------------------|
|                          |                        |        |        |          | ON-COLUMN<br>( ng) | FINAL<br>( mg/L) |
| =====                    | ==                     | =====  | =====  | =====    | =====              | =====            |
| 21 4,4'-DDD              | 14.900                 | 14.933 | -0.033 | 2628     | <0.0               | 0.00008495(a)    |
| 18 Toxaphene             | Compound Not Detected. |        |        |          |                    |                  |
| 22 Endosulfan II         | 15.060                 | 15.053 | 0.007  | 2478     | <0.0               | 0.00006613(a)    |
| 23 4,4'-DDT              | Compound Not Detected. |        |        |          |                    |                  |
| 24 Endrin aldehyde       | 15.593                 | 15.580 | 0.013  | 1942     | <0.0               | 0.00007144(a)    |
| 26 Endosulfan sulfate    | 15.800                 | 15.800 | 0.000  | 1307     | <0.0               | 0.00006209(a)    |
| 25 Methoxychlor          | Compound Not Detected. |        |        |          |                    |                  |
| 27 Endrin ketone         | Compound Not Detected. |        |        |          |                    |                  |
| \$ 30 Decachlorobiphenyl | 20.860                 | 20.853 | 0.007  | 43193    | 0.01976            | 0.001976(aR)     |

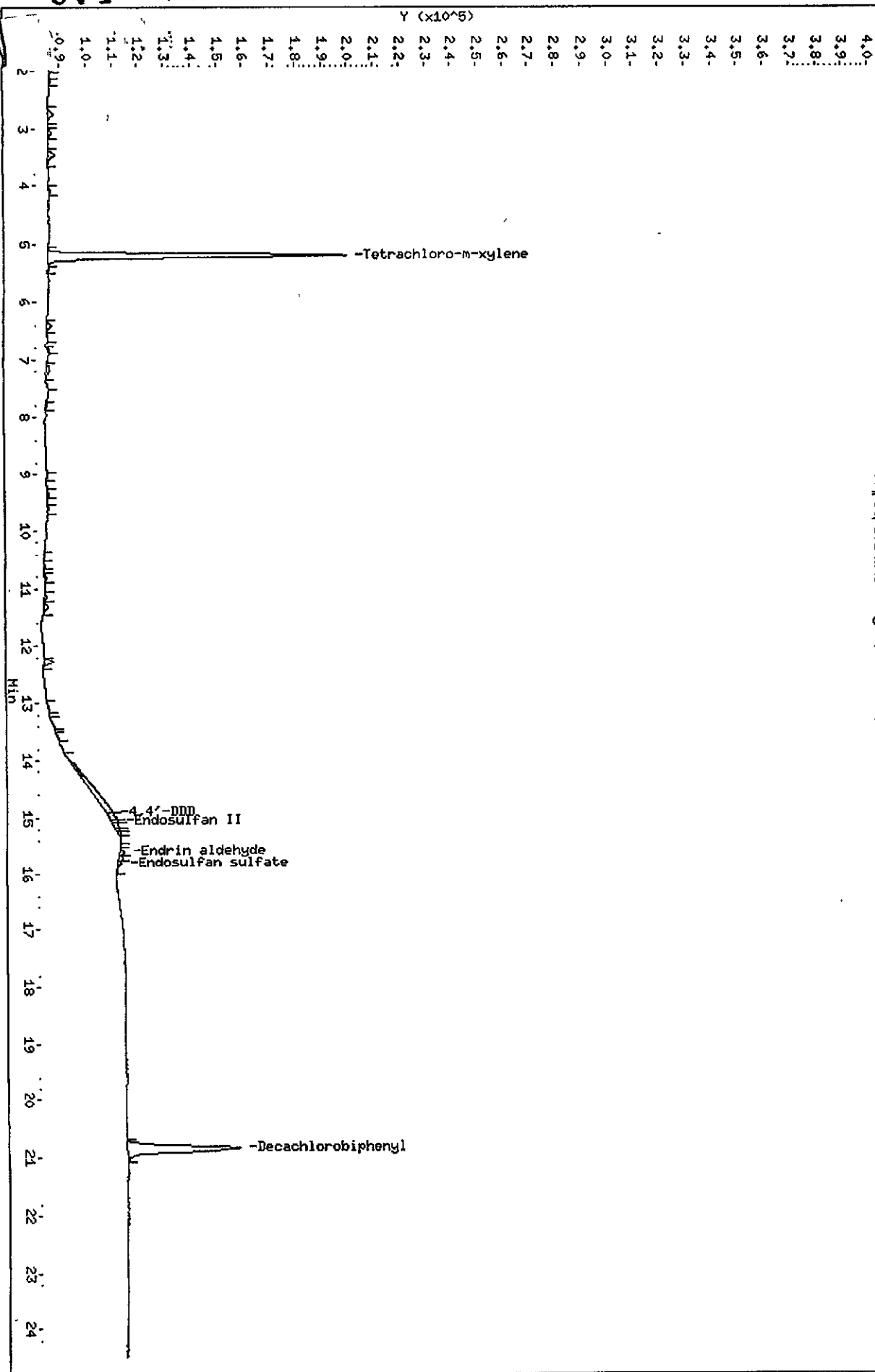
# QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

Data File: \\xp1tpa02\chem\gc4.i\8010-G.b\D-48171.d  
Date: 07-NOV-2000 11:11  
Client ID: PRLK  
Sample Info: DPFF14A,8010-G.b,,PEST.sub,,3,  
Volume Injected (uL): 1.0  
Column phase: DB608

Instrument: gc4.i  
Operator: 1891  
Column diameter: 0.53

\\xp1tpa02\chem\gc4.i\8010-G.b\D-48171.d\J-48171.RAW



UXB INTERNATIONAL  
CHECK SAMPLE COMPOUNDS

674 369

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID  
Method: SW846 8081A  
Pesticides (8081A)

Lab Sample ID: COK060000 599

Sample WT/Vol: 100 / mL  
Work Order: DPFF11AC  
Dilution factor: 1  
Moisture %: NA

Date Received: 10/31/00  
Date Extracted: 11/06/00  
Date Analyzed: 11/07/00

QC Batch: 0311599

Client Sample Id: CHECK SAMPLE

|           |                    | CONCENTRATION UNITS: |   |
|-----------|--------------------|----------------------|---|
| CAS NO.   | COMPOUND           | (ug/L or ug/kg) mg/L | Q |
| 72-20-8   | Endrin             | 0.00280              |   |
| 76-44-8   | Heptachlor         | 0.00253              |   |
| 1024-57-3 | Heptachlor epoxide | 0.00241              |   |
| 58-89-9   | Lindane            | 0.00237              |   |
| 72-43-5   | Methoxychlor       | 0.00325              |   |

**674 370**

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8172.d  
 Lab Smp Id: DPFF11AC Client Smp ID: LCS  
 Inj Date : 07-NOV-2000 11:39  
 Operator : 1891 Inst ID: gc4.i  
 Smp Info : DPFF11AC, 8010-G.b, , PEST.sub, , 3,  
 Misc Info : 310200LCS  
 Comment :  
 Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
 Meth Date : 07-Nov-2000 15:07 matkol Quant Type: ESTD  
 Cal Date : 02-NOV-2000 16:47 Cal File: D-A8027.d  
 Als bottle: 1 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: PEST.sub  
 Target Version: 4.04  
 Processing Host: PITPC044

Concentration Formula: Amt \* DF \* (Vt/Vo)/Vi

| Name | Value   | Description                     |
|------|---------|---------------------------------|
| DF   | 1.000   | Dilution Factor                 |
| Vt   | 10.000  | Volume of final extract (uL)    |
| Vo   | 100.000 | Volume of sample extracted (mL) |
| Vi   | 1.000   | Volume injected                 |

| Compounds                 | RT                     | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS     |                  |
|---------------------------|------------------------|--------|--------|----------|--------------------|------------------|
|                           |                        |        |        |          | ON-COLUMN<br>( ng) | FINAL<br>( mg/L) |
| \$ 1 Tetrachloro-m-xylene | 5.193                  | 5.193  | 0.000  | 230160   | 0.04200            | 0.004200 (aR)    |
| 5 alpha-BHC               | 7.380                  | 7.380  | 0.000  | 168022   | 0.02447            | 0.002447 (a)     |
| 6 gamma-BHC (Lindane)     | 8.723                  | 8.740  | -0.007 | 148926   | 0.02373            | 0.002373 (aR)    |
| 7 beta-BHC                | 9.020                  | 9.020  | 0.000  | 81831    | 0.02392            | 0.002392 (a)     |
| 9 Chlordane               | 9.353                  | 9.353  | 0.000  | 918      | 0.27852            | 0.02785 (a)      |
| 10 Heptachlor             | 9.933                  | 9.933  | 0.000  | 117010   | 0.02531            | 0.002531 (aR)    |
| 8 delta-BHC               | 10.420                 | 10.420 | 0.000  | 129722   | 0.02645            | 0.002644 (a)     |
| 11 Aldrin                 | 11.160                 | 11.160 | 0.000  | 107657   | 0.02391            | 0.002391 (aR)    |
| 12 Heptachlor epoxide     | 12.873                 | 12.873 | 0.000  | 111899   | 0.02407            | 0.002407 (a)     |
| 13 gamma-Chlordane        | 13.253                 | 13.253 | 0.000  | 114048   | 0.02428            | 0.002428 (a)     |
| 14 alpha-Chlordane        | 13.586                 | 13.580 | 0.006  | 116507   | 0.02509            | 0.002509 (a)     |
| 15 Endosulfan I           | Compound Not Detected. |        |        |          |                    |                  |
| 16 4,4'-DDE               | 14.066                 | 14.066 | 0.000  | 112480   | 0.02659            | 0.002658 (a)     |
| 17 Dieldrin               | 14.186                 | 14.186 | 0.000  | 105339   | 0.02379            | 0.002379 (aR)    |
| 20 Endrin                 | 14.773                 | 14.773 | 0.000  | 97047    | 0.02805            | 0.002805 (aR)    |

| Compounds                | RT                     | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS     |                  |
|--------------------------|------------------------|--------|--------|----------|--------------------|------------------|
|                          |                        |        |        |          | ON-COLUMN<br>( ng) | FINAL<br>( mg/L) |
| =====                    | ==                     | =====  | =====  | =====    | =====              | =====            |
| 21 4,4'-DDD              | 14.933                 | 14.933 | 0.000  | 85486    | 0.02763            | 0.002763(a)      |
| 18 Toxaphene             | Compound Not Detected. |        |        |          |                    |                  |
| 22 Endosulfan II         | 15.053                 | 15.053 | 0.000  | 75878    | 0.02025            | 0.002025(a)      |
| 23 4,4'-DDT              | 15.400                 | 15.406 | -0.006 | 83044    | 0.02845            | 0.002845(aR)     |
| 24 Endrin aldehyde       | 15.580                 | 15.580 | 0.000  | 65887    | 0.02424            | 0.002424(a)      |
| 26 Endosulfan sulfate    | 15.800                 | 15.800 | 0.000  | 61044    | 0.02900            | 0.002900(a)      |
| 25 Methoxychlor          | 17.020                 | 17.020 | 0.000  | 37009    | 0.03247            | 0.003246(a)      |
| 27 Endrin ketone         | 17.393                 | 17.393 | 0.000  | 72413    | 0.02514            | 0.002514(a)      |
| \$ 30 Decachlorobiphenyl | 20.853                 | 20.853 | 0.000  | 91520    | 0.04187            | 0.004187(aR)     |

# QC Flag Legend

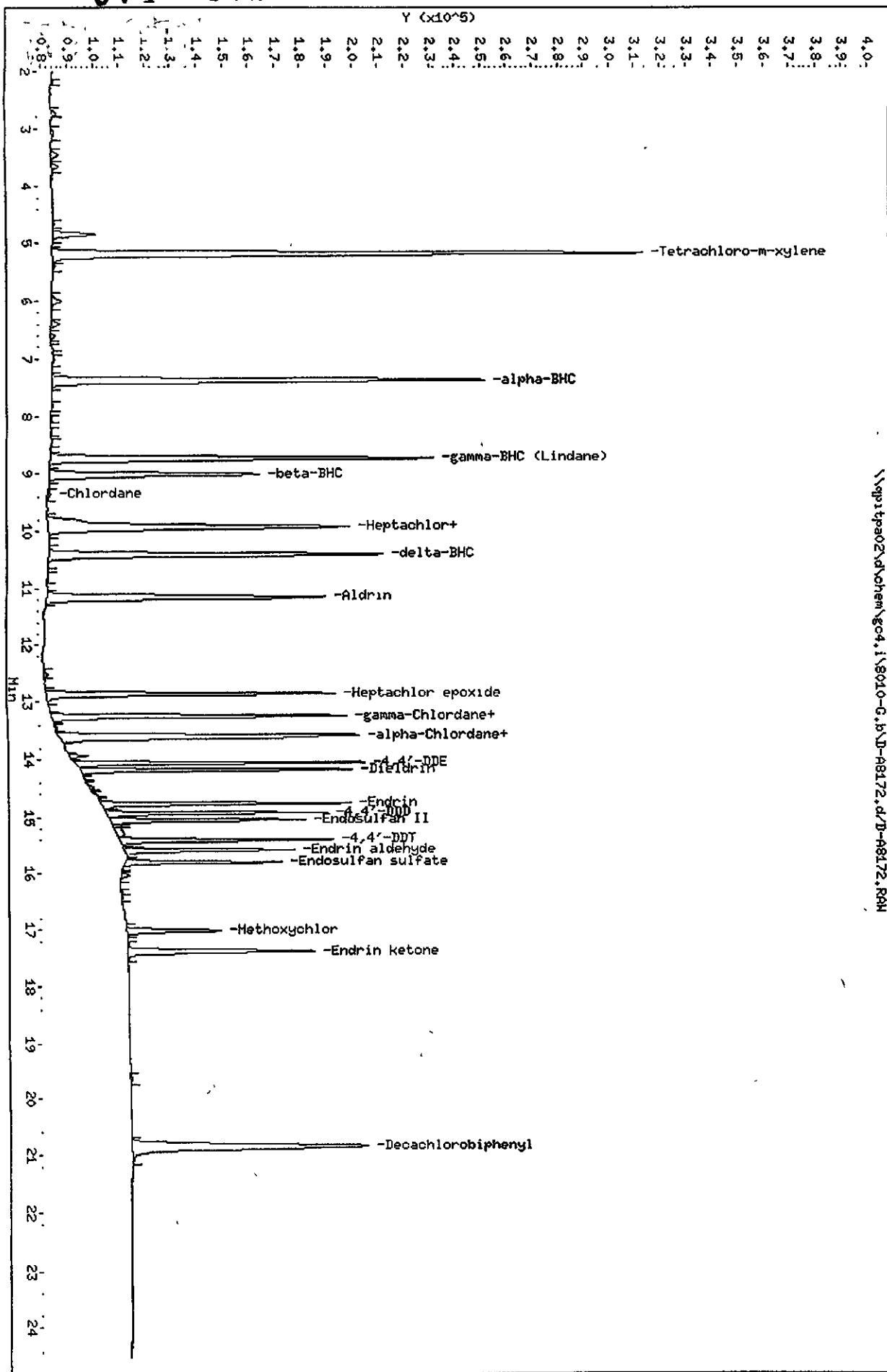
- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.



674 372

Data File: \\qptipao2\chem\gc4.i\8010-G.b.D-A8172.d  
 Date: 07-NOV-2000 11:39  
 Client ID: LCS  
 Sample Info: DPFF1AC,8010-G.b.,PEST.sub.,3,  
 Volume Injected (uL): 1.0  
 Column phase: DB608

Instrument: gc4.i  
 Operator: 1891  
 Column diameter: 0.53



UXB INTERNATIONAL  
MATRIX SPIKE COMPOUNDS

674 373

Lab Name: Severn Trent Laboratories, Inc.      SDG Number:

Matrix: (soil/water) SOLID  
Method: SW846 8081A  
Pesticides (8081A)

Lab Sample ID: C0J310200 001

Sample WT/Vol: 100 / mL  
Work Order: DN4P61CN  
Dilution factor: 1  
Moisture %: 16

Date Received: 10/31/00  
Date Extracted: 11/06/00  
Date Analyzed: 11/07/00

QC Batch: 0311599

Client Sample Id: DF/24-A/0304/CSV/008

| CAS NO.   | COMPOUND           | CONCENTRATION UNITS: |   |
|-----------|--------------------|----------------------|---|
|           |                    | (ug/L or ug/kg) mg/L | Q |
| 72-20-8   | Endrin             | 0.00270              |   |
| 76-44-8   | Heptachlor         | 0.00231              |   |
| 1024-57-3 | Heptachlor epoxide | 0.00224              |   |
| 58-89-9   | Lindane            | 0.00221              |   |
| 72-43-5   | Methoxychlor       | 0.00304              |   |

Data File: \\gpitpa02\d\chem\gc4.i\8010-G.b\D-A8173.d  
 Report Date: 07-Nov-2000 15:10

## STL-Pittsburgh

Data file : \\gpitpa02\d\chem\gc4.i\8010-G.b\D-A8173.d  
 Lab Smp Id: DN4P61CN Client Smp ID: DF/24-A/0304/CVSMS  
 Inj Date : 07-NOV-2000 12:06.  
 Operator : 1891 Inst ID: gc4.i  
 Smp Info : DN4P61CN,8010-G.b,,PEST.sub,,3,  
 Misc Info : 310200001S  
 Comment :  
 Method : \\gpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
 Meth Date : 07-Nov-2000 15:07 matkol Quant Type: ESTD  
 Cal Date : 02-NOV-2000 16:47 Cal File: D-A8027.d  
 Als bottle: 1 QC Sample: MS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: PEST.sub  
 Target Version: 4.04  
 Processing Host: PITPC044

Concentration Formula: Amt \* DF \* (Vt/Vo)/Vi

| Name | Value   | Description                     |
|------|---------|---------------------------------|
| DF   | 1.000   | Dilution Factor                 |
| Vt   | 10.000  | Volume of final extract (uL)    |
| Vo   | 100.000 | Volume of sample extracted (mL) |
| Vi   | 1.000   | Volume injected                 |

| Compoundo                 | RT                     | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS     |                  |
|---------------------------|------------------------|--------|--------|----------|--------------------|------------------|
|                           |                        |        |        |          | ON-COLUMN<br>( ng) | FINAL<br>( mg/L) |
| =====                     | ==                     | =====  | =====  | =====    | =====              | =====            |
| \$ 1 Tetrachloro-m-xylene | 5.193                  | 5.193  | 0.000  | 205720   | 0.03754            | 0.003754 (aR)    |
| 5 alpha-BHC               | 7.380                  | 7.380  | 0.000  | 152893   | 0.02227            | 0.002226 (a)     |
| 6 gamma-BHC (Lindane)     | 8.733                  | 8.740  | -0.007 | 138542   | 0.02208            | 0.002208 (aR)    |
| 7 beta-BHC                | 9.020                  | 9.020  | 0.000  | 76085    | 0.02224            | 0.002224 (a)     |
| 9 Chlordane               | 9.346                  | 9.353  | -0.007 | 1256     | 0.25692            | 0.02569 (a)      |
| 10 Heptachlor             | 9.933                  | 9.933  | 0.000  | 106723   | 0.02308            | 0.002308 (aR)    |
| 8 delta-BHC               | 10.420                 | 10.420 | 0.000  | 122963   | 0.02507            | 0.002507 (a)     |
| 11 Aldrin                 | 11.160                 | 11.160 | 0.000  | 97417    | 0.02164            | 0.002164 (aR)    |
| 12 Heptachlor epoxide     | 12.873                 | 12.873 | 0.000  | 103869   | 0.02235            | 0.002235 (a)     |
| 13 gamma-Chlordane        | 13.253                 | 13.253 | 0.000  | 105522   | 0.02246            | 0.002246 (a)     |
| 14 alpha-Chlordane        | 13.586                 | 13.580 | 0.006  | 108687   | 0.02341            | 0.002341 (a)     |
| 15 Endosulfan I           | Compound Not Detected. |        |        |          |                    |                  |
| 16 4,4'-DDE               | 14.066                 | 14.066 | 0.000  | 105333   | 0.02490            | 0.002490 (a)     |
| 17 Dieldrin               | 14.186                 | 14.186 | 0.000  | 100278   | 0.02265            | 0.002265 (aR)    |
| 20 Endrin                 | 14.773                 | 14.773 | 0.000  | 93341    | 0.02698            | 0.002698 (aR)    |

| Compounds                | RT                     | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS     |                  |
|--------------------------|------------------------|--------|--------|----------|--------------------|------------------|
|                          |                        |        |        |          | ON-COLUMN<br>( ng) | FINAL<br>( mg/L) |
| =====                    | ==                     | =====  | =====  | =====    | =====              | =====            |
| 21 4,4'-DDD              | 14.933                 | 14.933 | 0.000  | 85997    | 0.02780            | 0.002780(a)      |
| 18 Toxaphene             | Compound Not Detected. |        |        |          |                    |                  |
| 22 Endosulfan II         | 15.053                 | 15.053 | 0.000  | 78638    | 0.02099            | 0.002098(a)      |
| 23 4,4'-DDT              | 15.400                 | 15.406 | -0.006 | 84610    | 0.02899            | 0.002899(aR)     |
| 24 Endrin aldehyde       | 15.580                 | 15.580 | 0.000  | 70385    | 0.02589            | 0.002589(a)      |
| 26 Endosulfan sulfate    | 15.800                 | 15.800 | 0.000  | 64678    | 0.03073            | 0.003073(a)      |
| 25 Methoxychlor          | 17.020                 | 17.020 | 0.000  | 34601    | 0.03035            | 0.003035(a)      |
| 27 Endrin ketone         | 17.393                 | 17.393 | 0.000  | 69705    | 0.02420            | 0.002420(a)      |
| \$ 30 Decachlorobiphenyl | 20.853                 | 20.853 | 0.000  | 88074    | 0.04029            | 0.004029(aR)     |

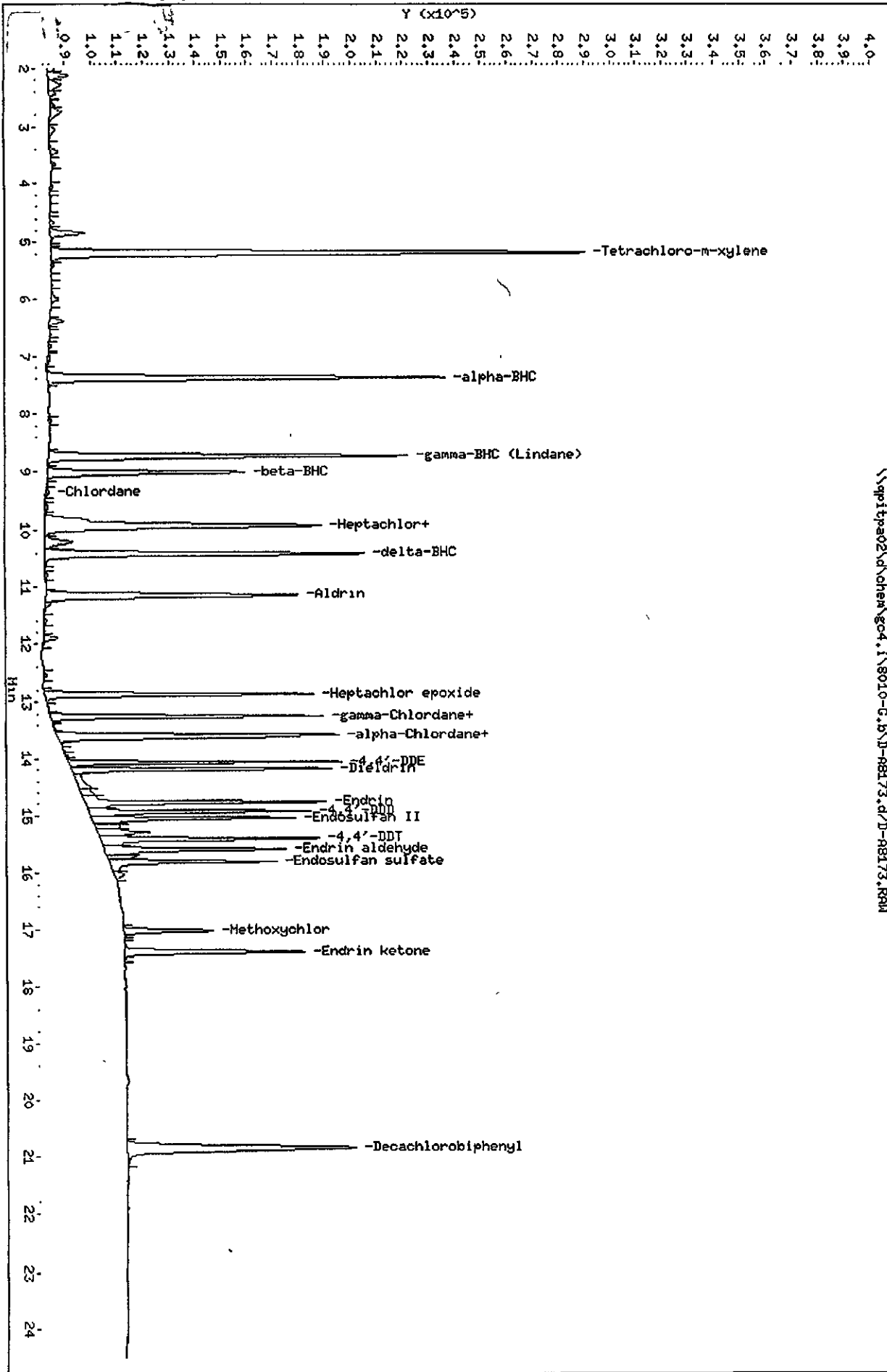
# QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

674 376

Data File: \\gpihp02\chem\gc4.1\8010-G.b\D-88173.d  
 Date : 07-NOV-2000 12:06  
 Client ID: DF/24-A/0304/CVSHS  
 Sample Info: DM4P61CN,8010-G.b,,PEST,sub,,3,  
 Volume Injected (uL): 1.0  
 Column phase: DB608

Instrument: gc4.1  
 Operator: 1891  
 Column diameter: 0.53



UXB INTERNATIONAL  
MATRIX SPIKE DUPLICATE COMPOUNDS

674 377

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID  
Method: SW846 8081A  
Pesticides (8081A)

Lab Sample ID: C0J310200 001

Sample WT/Vol: 100 / mL  
Work Order: DN4P61CP  
Dilution factor: 1  
Moisture %: 16

Date Received: 10/31/00  
Date Extracted: 11/06/00  
Date Analyzed: 11/07/00

QC Batch: 0311599

Client Sample Id: DF/24-A/0304/CVS/008

|           |                    | CONCENTRATION UNITS: |   |
|-----------|--------------------|----------------------|---|
| CAS NO.   | COMPOUND           | (ug/L or ug/kg) mg/L | Q |
| 72-20-8   | Endrin             | 0.00271              |   |
| 76-44-8   | Heptachlor         | 0.00229              |   |
| 1024-57-3 | Heptachlor epoxide | 0.00220              |   |
| 58-89-9   | Lindane            | 0.00218              |   |
| 72-43-5   | Methoxychlor       | 0.00307              |   |

FORM I

Data File: \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8174.d  
 Report Date: 07-Nov-2000 15:10

## STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\8010-G.b\D-A8174.d  
 Lab Smp Id: DN4P61CP Client Smp ID: DF/24-A/0304/CVSMSD  
 Inj Date : 07-NOV-2000 12:34  
 Operator : 1891 Inst ID: gc4.i  
 Smp Info : DN4P61CP,8010-G.b,,PEST.sub,,3,  
 Misc Info : 310200001D  
 Comment :  
 Method : \\qpitpa02\d\chem\gc4.i\8010-G.b\PESTA.m  
 Meth Date : 07-Nov-2000 15:07 matkol Quant Type: ESTD  
 Cal Date : 02-NOV-2000 16:47 Cal File: D-A8027.d  
 Als bottle: 1 QC Sample: MSD  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: PEST.sub  
 Target Version: 4.04  
 Processing Host: PITPC044

Concentration Formula: Amt \* DF \* (Vt/Vo)/Vi

| Name | Value   | Description                     |
|------|---------|---------------------------------|
| DF   | 1.000   | Dilution Factor                 |
| Vt   | 10.000  | Volume of final extract (uL)    |
| Vo   | 100.000 | Volume of sample extracted (mL) |
| Vi   | 1.000   | Volume injected                 |

| Compounds              | RT                     | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS     |                  |
|------------------------|------------------------|--------|--------|----------|--------------------|------------------|
|                        |                        |        |        |          | ON-COLUMN<br>( ng) | FINAL<br>( mg/L) |
| 1 Tetrachloro-m-xylene | 5.193                  | 5.193  | 0.000  | 203385   | 0.03712            | 0.003712 (aR)    |
| 5 alpha-BHC            | 7.380                  | 7.380  | 0.000  | 150365   | 0.02190            | 0.002190 (a)     |
| 6 gamma-BHC (Lindane)  | 8.733                  | 8.740  | -0.007 | 136975   | 0.02183            | 0.002183 (aR)    |
| 7 beta-BHC             | 9.020                  | 9.020  | 0.000  | 75122    | 0.02196            | 0.002196 (a)     |
| 9 Chlordane            | 9.346                  | 9.353  | -0.007 | 1204     | 0.025432           | 0.002543 (a)     |
| 10 Heptachlor          | 9.933                  | 9.933  | 0.000  | 106059   | 0.02294            | 0.002294 (aR)    |
| 8 delta-BHC            | 10.420                 | 10.420 | 0.000  | 119919   | 0.02445            | 0.002445 (a)     |
| 11 Aldrin              | 11.160                 | 11.160 | 0.000  | 95958    | 0.02131            | 0.002131 (aR)    |
| 12 Heptachlor epoxide  | 12.873                 | 12.873 | 0.000  | 102027   | 0.02195            | 0.002195 (a)     |
| 13 gamma-Chlordane     | 13.253                 | 13.253 | 0.000  | 104552   | 0.02226            | 0.002226 (a)     |
| 14 alpha-Chlordane     | 13.586                 | 13.580 | 0.006  | 106791   | 0.02300            | 0.002300 (a)     |
| 15 Endosulfan I        | Compound Not Detected. |        |        |          |                    |                  |
| 16 4,4'-DDE            | 14.066                 | 14.066 | 0.000  | 104124   | 0.02461            | 0.002461 (a)     |
| 17 Dieldrin            | 14.186                 | 14.186 | 0.000  | 99177    | 0.02240            | 0.002240 (aR)    |
| 20 Endrin              | 14.773                 | 14.773 | 0.000  | 93756    | 0.02710            | 0.002710 (aR)    |

| Compounds                | RT                     | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS     |                  |
|--------------------------|------------------------|--------|--------|----------|--------------------|------------------|
|                          |                        |        |        |          | ON-COLUMN<br>( ng) | FINAL<br>( mg/L) |
| =====                    | ==                     | =====  | =====  | =====    | =====              | =====            |
| 21 4,4'-DDD              | 14.933                 | 14.933 | 0.000  | 86608    | 0.02799            | 0.002799 (a)     |
| 18 Toxaphene             | Compound Not Detected. |        |        |          |                    |                  |
| 22 Endosulfan II         | 15.053                 | 15.053 | 0.000  | 78622    | 0.02098            | 0.002098 (a)     |
| 23 4,4'-DDT              | 15.400                 | 15.406 | -0.006 | 84201    | 0.02885            | 0.002885 (aR)    |
| 24 Endrin aldehyde       | 15.580                 | 15.580 | 0.000  | 70362    | 0.02588            | 0.002588 (a)     |
| 26 Endosulfan sulfate    | 15.800                 | 15.800 | 0.000  | 63823    | 0.03032            | 0.003032 (a)     |
| 25 Methoxychlor          | 17.020                 | 17.020 | 0.000  | 35029    | 0.03073            | 0.003073 (a)     |
| 27 Endrin ketone         | 17.393                 | 17.393 | 0.000  | 69497    | 0.02413            | 0.002413 (a)     |
| \$ 30 Decachlorobiphenyl | 20.853                 | 20.853 | 0.000  | 87196    | 0.03989            | 0.003989 (aR)    |

# QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation (BLOQ).
- R - Spike/Surrogate failed recovery limits.

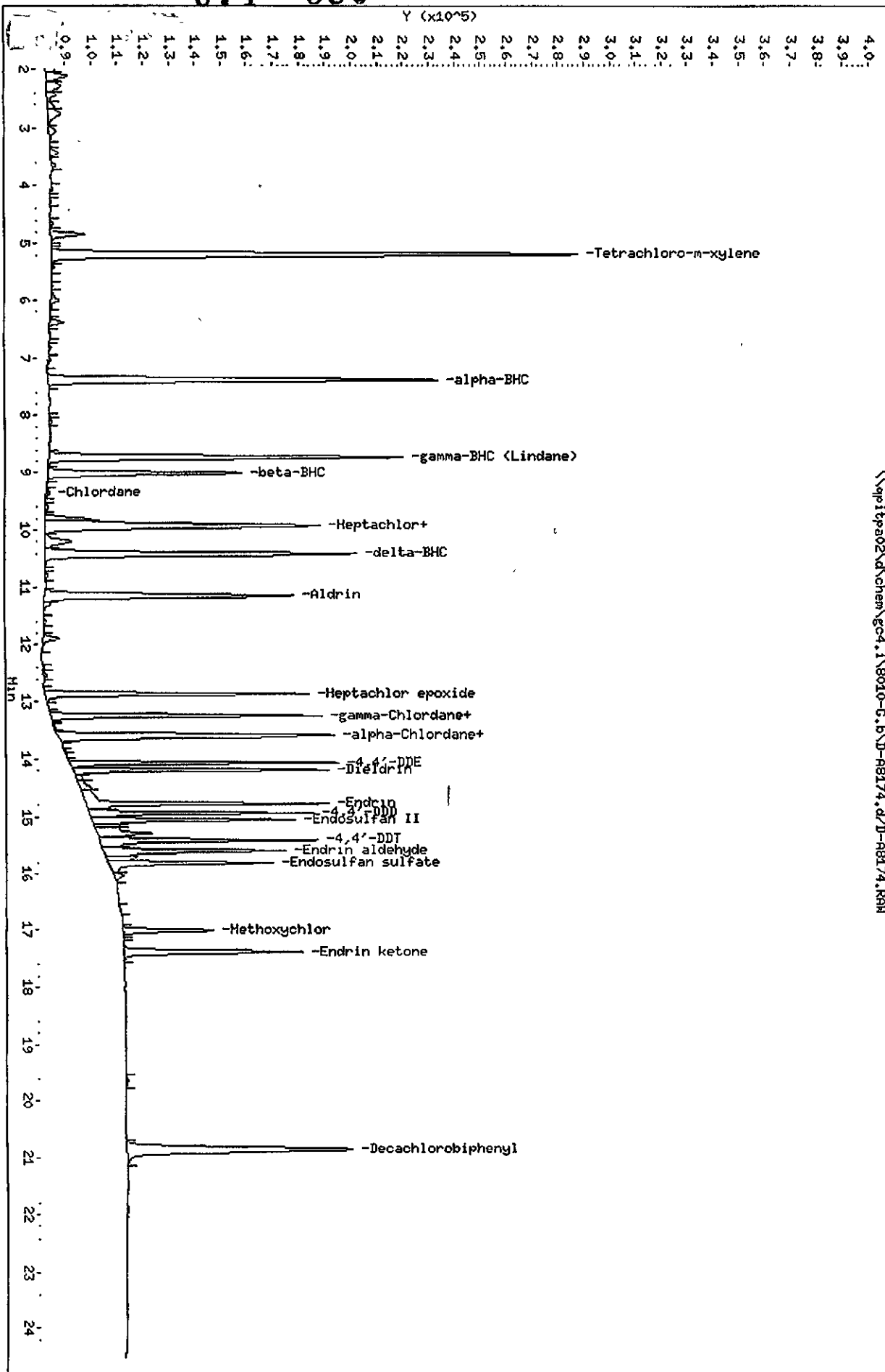


674 380

Data File: \\qpitpa02\chem\gc4.1\8010-G.b\D-A8174.d  
 Date: 07-NOV-2000 12:34  
 Client ID: DF/24-A/0304/CVSHSD  
 Sample Info: DN4P61CP,8010-G.b,PEST,sub,3,  
 Volume Injected (uL): 1.0  
 Column phase: DB608

Instrument: gc4.1  
 Operator: 1891  
 Column diameter: 0.53

\\qpitpa02\chem\gc4.1\8010-G.b\D-A8174.d\J-A8174.RAW



674 381

**PESTICIDE  
MISCELLANEOUS**

**Committed To Your Success**

**STL Pittsburgh  
450 William Pitt Way  
Pittsburgh, PA 15238  
412-820-8380**

## Committed To Your Success

|                           |              |                           |                    |         |            |         |
|---------------------------|--------------|---------------------------|--------------------|---------|------------|---------|
| Analyst                   | Room Temp.   | Date                      | Client             | Date    | Probe      | Balance |
| James D. Murphy           | 24.0C        | 11-2-00                   | Clifford B. Murphy | 11-2-00 | SK100S1657 | 254.817 |
| Lab #                     | Client Codes | Solution # 1 - Log book # |                    |         |            |         |
| 0000000000                | 0000000000   | 0000000000                |                    |         |            |         |
| Solution # 2 - Log book # |              |                           |                    |         |            |         |
| 0000000000                |              |                           |                    |         |            |         |

### **TCLP Extraction**

| Sample ID | Wgt/Vol | Init. pH | Final pH | Extract fluid #1 or #2 | Sample ID | Wgt (g) Wet/Dry | Fluid Vol. | Vessel glass/plastic | Final pH after Tumbling | Conc. HNO <sub>3</sub> to Acidity (for Metals) |
|-----------|---------|----------|----------|------------------------|-----------|-----------------|------------|----------------------|-------------------------|------------------------------------------------|
| 1. DN4P6  | 500g    | 6.60     | 1.54     | SLH #1                 | PB-TCLP   | ---             | 2000ml     | Glass                | 4.75                    | 5ml                                            |
| 2. DN4Q3  | 1       | 7.55     | 1.53     |                        | ↓         | ↓               |            |                      | 4.80                    | 6ml                                            |
| 3. DN4QK  | 1       | 7.80     | 1.52     |                        | DN4P6     | 100.0g          |            |                      | 4.90                    | ↓                                              |
| 4. DN6N4  | 1       | 14.07    | 1.80     |                        | ↓         | ↓               |            |                      | 4.88                    | ↓                                              |
| 5. DN6N6  | 1       | 14.13    | 2.24     |                        | DN4Q3     | ↓               |            |                      | 4.86                    | ↓                                              |
| 6. DN6N7  | 1       | 9.84     | 1.45     |                        | DN4QK     | ↓               |            |                      | 4.86                    | 7ml                                            |
| 7. DN6N8  | 1       | 10.22    | 1.50     |                        | DN6N4     | ↓               |            | Plastic              | 11.76                   | ↓                                              |
| 8. DN6XR  | 1       | 13.49    | 1.78     |                        | DN6N6     | ↓               |            | ↓                    | 13.33                   | ↓                                              |
| 9. ---    | ---     | ---      | ---      | ↓                      | DN6N7     | ↓               |            | ↓                    | 5.04                    | 10ml                                           |
| 10. ---   | ---     | ---      | ---      | ↓                      | DN6N8     | ↓               |            | ↓                    | 5.08                    | ↓                                              |
| 11. ---   | ---     | ---      | ---      | ↓                      | DN6XR     | ↓               |            | Glass                | 6.43                    | ↓                                              |
| 12. ---   | ---     | ---      | ---      | ↓                      | ---       | ---             |            | ---                  | ---                     | ---                                            |
| 13. ---   | ---     | ---      | ---      | ↓                      | ---       | ---             |            | ---                  | ---                     | ---                                            |
| 14. ---   | ---     | ---      | ---      | ↓                      | ---       | ---             |            | ---                  | ---                     | ---                                            |
| 15. ---   | ---     | ---      | ---      | ↓                      | ---       | ---             |            | ---                  | ---                     | ---                                            |

| Extract(s)<br>(Record line number from above) | Extract(s) Received |      | Extract(s) Relinquished |         |      |          |
|-----------------------------------------------|---------------------|------|-------------------------|---------|------|----------|
|                                               | Date                | Time | Analyst                 | Date    | Time | Location |
| Alicia Bare                                   | 11-3-00             | 1300 | J. Murphy               | 11-3-00 | 1350 | 3017     |
|                                               |                     |      | M.D.                    |         |      |          |

Comments

\* = Sample determined to have free liquid, % solid determination was performed.

5 = Extraction fluid # 1 5.7mL Glacial acetic acid dil 500mL + 64.3mL NaOH dil to 1L (pH 4.93 ± 0.05)

>5 = Extraction fluid #2 5.7mL Glacial acetic acid dil to 1L (pH 2.88  $\pm$  0.05)

| Date/Time On   | Date/Time Off  | Agitation Apparatus RPM's |
|----------------|----------------|---------------------------|
| 11-2-00 (1600) | 11-3-00 (400)  | checked by J.M.           |
|                | pH calibration | (4.0) (7.0) (10.0)        |
| Date 11-2-00   | 4.00           | 7.02 10.05                |
| Date 11-3-00   | ↓              | ↓                         |

Filter Lot # 8320701041

83 1070141

Log Book Number IP-00-0081



Turbochrom Sequence File : H:\ACQUIRE\MET\_SEQ\8010-G.SEQ  
 Created by : DE11/02/98 on : 11/1/00 16:27  
 Edited by : LM11/01/00 on : 11/3/00 08:03  
 Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701  
 REVIEWED BY :

674 384

6

Number of Times Edited : 4

Sequence File Header Information:

Number of Rows : 60  
 Instrument Type : 760 / 900 Series Intelligent Interface  
 Injection Type : SINGLE

✓ DE  
 \* 11-3-00

8010G.PDF  
 8010G-EX.PDF

| Row | Type         | Sample Name      | Sample Number | Sequence Sample Descriptions - Channel A |               |             |               |             |       |         |        | Norm. factor |
|-----|--------------|------------------|---------------|------------------------------------------|---------------|-------------|---------------|-------------|-------|---------|--------|--------------|
|     |              |                  |               | Study Name                               | Sample Amount | ISTD Amount | Sample Volume | Dil. Factor | Mult  | Divisor | Addend |              |
| 1   | Std Check    | EVALB, 8010-G b, | 190-102-10    |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 2   | Cal: Replace | MEDTOX, 8010-G.b | 190-98-12     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 3   | Cal: Replace | MEDCHLOR, 8010-G | 190-102-9     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 4   | Cal: Replace | LAPPX9, 8010-G.b | 190-104-2     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 5   | Cal: Replace | MLAPPX9, 8010-G. | 190-104-3     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 6   | Cal: Replace | MAPPX9, 8010-G.b | 190-104-4     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 7   | Cal: Replace | MHAPPX9, 8010-G. | 190-104-5     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 8   | Cal: Replace | HAPPX9, 8010-G.b | 190-104-6     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 9   | Cal: Replace | LOWA, 8010-G.b,, | 190-100-6     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 10  | Cal: Replace | MLOWA, 8010-G b, | 190-100-7     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 11  | Cal: Replace | MEDA, 8010-G.b,, | 190-100-8     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 12  | Cal: Replace | MHIGHA, 8010-G.b | 190-100-9     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 13  | Cal: Replace | HIGHA, 8010-G.b, | 190-100-10    |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 14  | Cal: Replace | LOWB, 8010-G b,, | 190-100-12    |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 15  | Cal: Replace | MLOWB, 8010-G.b, | 190-100-13    |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 16  | Cal: Replace | MEDB, 8010-G.b,, | 190-100-14    |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 17  | Cal: Replace | MHIGHB, 8010-G.b | 190-101-1     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 18  | Cal: Replace | HIGHB, 8010-G.b, | 190-101-2     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 19  | Std Check    | 2ND A, 8010-G.b, | 190-101-7     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 20  | Std Check    | 2ND B, 8010-G.b, | 190-101-10    |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 21  | Std Check    | EVALB, 8010-G.b, | 190-102-10    |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 22  | Sample       | DNCNH1AE, 8010-G | 180197-1      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 23  | Sample       | DNCNH1CG, 8010-G | 180197-1S     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 24  | Sample       | DNCNH1CH, 8010-G | 180197-1D     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 25  | Sample       | DNCNJ1AQ, 8010-G | 180197-2      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 26  | Sample       | DNCNN1AQ, 8010-G | 180197-3      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 27  | Sample       | DNDTG1AE, 8010-G | 180342-1      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 28  | Sample       | DNDTM1AQ, 8010-G | 180342-2      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 29  | Sample       | DNGKW1AC, 8010-G | 190367-10     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 30  | Sample       | DNKCP1AE, 8010-G | 210128-1      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 31  | Sample       | DNKCR1AQ, 8010-G | 210128-2      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 32  | Sample       | DNMCD1AE, 8010-G | 240126-1      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 33  | Sample       | DNMCE1AD, 8010-G | 240126-2      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 34  | Sample       | DNN4K1AC, 8010-G | 240277-6      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 35  | Sample       | DNRWPLAC, 8010-G | 260110013     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 36  | Sample       | DNRWQ1AC, 8010-G | 260110014     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 37  | Sample       | DNRWR1AC, 8010-G | 260110015     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 38  | Sample       | DNX5A1CJ, 8010-G | 270217-2      |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 39  | Sample       | DN3J01AA, 8010-G | 180197BLK     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 40  | Sample       | DN3J01AC, 8010-G | 180197LCS     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 41  | Std Check    | MAPPX9, 8010-G b | 190-104-4     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 42  | Std Check    | MEDA, 8010-G b,, | 190-100-8     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 43  | Std Check    | MEDB, 8010-G.b,, | 190-100-14    |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 44  | Std Check    | EVALB, 8010-G.b, | 190-102-10    |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 45  | Std Check    |                  |               |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 46  | Std Check    |                  |               |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 47  | Sample       | DNKCC1AD, 8010-G | 210126001     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 48  | Sample       | DNKCF1AP, 8010-G | 210126002     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 49  | Sample       | DNMA51AD, 8010-G | 240123001     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 50  | Sample       | DNMA81AP, 8010-G | 240123002     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 51  | Sample       | DNMCA1AP, 8010-G | 240123003     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 52  | Sample       | DNQ331AA, 8010-G | 210126BLK     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 53  | Sample       | DNQ331AC, 8010-G | 210126LCS     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 54  | Sample       | DNQ331AD, 8010-G | 210126LCD     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 55  | Sample       | DNX711AA, 8010-G | 270226001     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 56  | Sample       | DN3MK1AA, 8010-G | 270226BLK     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 57  | Sample       | DN3MK1AC, 8010-G | 270226LCS     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 58  | Sample       | DN3MK1AD, 8010-G | 270226LCD     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 59  | Std Check    | MEDA, 8010-G.b,, | 190-100-8     |                                          | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |

674 385

## Sequence Process Information - Channel A

| Row | Site | Rack | Vial | Inst<br>Method | Process<br>Method | Calib<br>Method | Report<br>Format | Raw<br>File | Result<br>File | Baseline<br>File | Modified<br>Raw File | Cal<br>Rpt | Level<br>Name | Update<br>RT | Out<br>Dev |
|-----|------|------|------|----------------|-------------------|-----------------|------------------|-------------|----------------|------------------|----------------------|------------|---------------|--------------|------------|
| 1   | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8010     | D-A8010        |                  | D-A8010              | -          | -             | -            | LPT1.      |
| 2   | -    | 1    | 2    | GEN4C          | GEN4A             | 122190A         | TOX              | D-A8011     | D-A8011        |                  | D-A8011              | N          | MED           | N            | LPT1:,,LP  |
| 3   | -    | 1    | 2    | GEN4C          | GEN4A             | 122190A         | TOX              | D-A8012     | D-A8012        |                  | D-A8012              | N          | MED           | N            | LPT1:,,LP  |
| 4   | -    | 1    | 4    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8013     | D-A8013        |                  | D-A8013              | N          | LOW           | N            | LPT1:      |
| 5   | -    | 1    | 5    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8014     | D-A8014        |                  | D-A8014              | N          | MLOW          | N            | LPT1:      |
| 6   | -    | 1    | 6    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8015     | D-A8015        |                  | D-A8015              | N          | MLOW          | N            | LPT1:      |
| 7   | -    | 1    | 7    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8016     | D-A8016        |                  | D-A8016              | N          | MLOW          | N            | LPT1:      |
| 8   | -    | 1    | 8    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8017     | D-A8017        |                  | D-A8017              | N          | MLOW          | N            | LPT1:      |
| 9   | -    | 1    | 4    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8018     | D-A8018        |                  | D-A8018              | N          | LOW           | N            | LPT1:      |
| 10  | -    | 1    | 5    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8019     | D-A8019        |                  | D-A8019              | N          | MLOW          | N            | LPT1:      |
| 11  | -    | 1    | 6    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8020     | D-A8020        |                  | D-A8020              | N          | MLOW          | N            | LPT1:      |
| 12  | -    | 1    | 7    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8021     | D-A8021        |                  | D-A8021              | N          | MLOW          | N            | LPT1:      |
| 13  | -    | 1    | 8    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8022     | D-A8022        |                  | D-A8022              | N          | MLOW          | N            | LPT1:      |
| 14  | -    | 1    | 9    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8023     | D-A8023        |                  | D-A8023              | N          | LOW           | N            | LPT1:      |
| 15  | -    | 1    | 10   | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8024     | D-A8024        |                  | D-A8024              | N          | MLOW          | N            | LPT1:      |
| 16  | -    | 1    | 11   | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8025     | D-A8025        |                  | D-A8025              | N          | MLOW          | N            | LPT1:      |
| 17  | -    | 1    | 12   | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8026     | D-A8026        |                  | D-A8026              | N          | MLOW          | N            | LPT1:      |
| 18  | -    | 1    | 13   | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8027     | D-A8027        |                  | D-A8027              | N          | MLOW          | N            | LPT1:      |
| 19  | -    | 1    | 23   | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8028     | D-A8028        |                  | D-A8028              | -          | -             | -            | LPT1:      |
| 20  | -    | 1    | 24   | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8029     | D-A8029        |                  | D-A8029              | -          | -             | -            | LPT1:      |
| 21  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8030     | D-A8030        |                  | D-A8030              | -          | -             | -            | LPT1:      |
| 22  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8031     | D-A8031        |                  | D-A8031              | -          | -             | -            | LPT1:      |
| 23  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8032     | D-A8032        |                  | D-A8032              | -          | -             | -            | LPT1:      |
| 24  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8033     | D-A8033        |                  | D-A8033              | -          | -             | -            | LPT1:      |
| 25  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8034     | D-A8034        |                  | D-A8034              | -          | -             | -            | LPT1:      |
| 26  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8035     | D-A8035        |                  | D-A8035              | -          | -             | -            | LPT1:      |
| 27  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8036     | D-A8036        |                  | D-A8036              | -          | -             | -            | LPT1:      |
| 28  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8037     | D-A8037        |                  | D-A8037              | -          | -             | -            | LPT1:      |
| 29  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8038     | D-A8038        |                  | D-A8038              | -          | -             | -            | LPT1:      |
| 30  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8039     | D-A8039        |                  | D-A8039              | -          | -             | -            | LPT1:      |
| 31  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8040     | D-A8040        |                  | D-A8040              | -          | -             | -            | LPT1:      |
| 32  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8041     | D-A8041        |                  | D-A8041              | -          | -             | -            | LPT1:      |
| 33  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8042     | D-A8042        |                  | D-A8042              | -          | -             | -            | LPT1:      |
| 34  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8043     | D-A8043        |                  | D-A8043              | -          | -             | -            | LPT1:      |
| 35  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8044     | D-A8044        |                  | D-A8044              | -          | -             | -            | LPT1:      |
| 36  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8045     | D-A8045        |                  | D-A8045              | -          | -             | -            | LPT1:      |
| 37  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8046     | D-A8046        |                  | D-A8046              | -          | -             | -            | LPT1:      |
| 38  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8047     | D-A8047        |                  | D-A8047              | -          | -             | -            | LPT1:      |
| 39  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8048     | D-A8048        |                  | D-A8048              | -          | -             | -            | LPT1:      |
| 40  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8049     | D-A8049        |                  | D-A8049              | -          | -             | -            | LPT1:      |
| 41  | -    | 1    | 6    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8050     | D-A8050        |                  | D-A8050              | -          | -             | -            | LPT1:      |
| 42  | -    | 1    | 6    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8051     | D-A8051        |                  | D-A8051              | -          | -             | -            | LPT1:      |
| 43  | -    | 1    | 11   | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8052     | D-A8052        |                  | D-A8052              | -          | -             | -            | LPT1:      |
| 44  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8053     | D-A8053        |                  | D-A8053              | -          | -             | -            | LPT1:      |
| 45  | -    | 1    | 6    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8054     | D-A8054        |                  | D-A8054              | -          | -             | -            | LPT1:      |
| 46  | -    | 1    | 11   | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8055     | D-A8055        |                  | D-A8055              | -          | -             | -            | LPT1:      |
| 47  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8056     | D-A8056        |                  | D-A8056              | -          | -             | -            | LPT1:      |
| 48  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8057     | D-A8057        |                  | D-A8057              | -          | -             | -            | LPT1:      |
| 49  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8058     | D-A8058        |                  | D-A8058              | -          | -             | -            | LPT1:      |
| 50  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8059     | D-A8059        |                  | D-A8059              | -          | -             | -            | LPT1:      |
| 51  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8060     | D-A8060        |                  | D-A8060              | -          | -             | -            | LPT1:      |
| 52  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8061     | D-A8061        |                  | D-A8061              | -          | -             | -            | LPT1:      |
| 53  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8062     | D-A8062        |                  | D-A8062              | -          | -             | -            | LPT1:      |
| 54  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8063     | D-A8063        |                  | D-A8063              | -          | -             | -            | LPT1:      |
| 55  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8064     | D-A8064        |                  | D-A8064              | -          | -             | -            | LPT1:      |
| 56  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8065     | D-A8065        |                  | D-A8065              | -          | -             | -            | LPT1:      |
| 57  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8066     | D-A8066        |                  | D-A8066              | -          | -             | -            | LPT1:      |
| 58  | -    | 1    | 1    | GEN4C          | GEN4A             | 122190A         | EVAL             | D-A8067     | D-A8067        |                  | D-A8067              | -          | -             | -            | LPT1:      |
| 59  | -    | 1    | 6    | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8068     | D-A8068        |                  | D-A8068              | -          | -             | -            | LPT1:      |
| 60  | -    | 1    | 11   | GEN4C          | GEN4A             | 122190A         | INDA             | D-A8069     | D-A8069        |                  | D-A8069              | -          | -             | -            | LPT1:      |

Turbochrom Sequence File : H:\ACQUIRE\MET\_SEQ\8070-G.SEQ  
 Created by : DE11/02/98 on : 11/7/00 10:58  
 Edited by : LM11/07/00 on : 11/7/00 12:36  
 Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701  
 REVIEWED BY:

674 386

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Number of Times Edited : 2

✓d mm 11-8-00

# Sequence File Header Information:

Number of Rows : 12  
 Instrument Type : 760 / 900 Series Intelligent Interface  
 Injection Type : SINGLE

| Row | Type      | Sample Name      | Sample Number | Sequence Sample Descriptions - Channel A |        | Sample Amount | ISTD Amount | Sample Volume | Dil. Factor | Mult  | Divisor | Addend | Norm. factor |
|-----|-----------|------------------|---------------|------------------------------------------|--------|---------------|-------------|---------------|-------------|-------|---------|--------|--------------|
|     |           |                  |               | Study Name                               | Sample |               |             |               |             |       |         |        |              |
| 1   | Std Check | EVALB,8010-G.b,, | 190-102-10    |                                          |        | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 2   | Std Check | MEDB,8010-G.b,,  | 190-100-8     |                                          |        | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 3   | Std Check | MEDB,8010-G.b,,  | 190-100-14    |                                          |        | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 4   | Sample    | DPFF11AA,8010-G  | 310200blk     |                                          |        | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 5   | Sample    | DPFF11AC,8010-G  | 310200LCS     |                                          |        | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 6   | Sample    | DN4P61CN,8010-G  | 310200001S    |                                          |        | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 7   | Sample    | DN4P61CP,8010-G  | 310200001D    |                                          |        | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 8   | Sample    | DN4P61AE,8010-G  | 310200001     |                                          |        | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 9   | Sample    | DN4QJ1AE,8010-G  | 310200002     |                                          |        | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 10  | Sample    | DN4QK1AE,8010-G  | 310200003     |                                          |        | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 11  | Std Check | MEDB,8010-G.b,,  | 190-100-8     |                                          |        | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |
| 12  | Std Check | MEDB,8010-G.b,,  | 190-100-14    |                                          |        | 1.000         | 1.000       | 1.000         | 1.000       | 1.000 | 1.000   | 0.000  | 100.000      |

| Row | Site | Rack | Vial | Inst Method | Process Method | Calib Method | Sequence Process Information - Channel A |          |             |               |                   |         |            | Update RT | Out Dev |
|-----|------|------|------|-------------|----------------|--------------|------------------------------------------|----------|-------------|---------------|-------------------|---------|------------|-----------|---------|
|     |      |      |      |             |                |              | Report Format                            | Raw File | Result File | Baseline File | Modified Raw File | Cal Rpt | Level Name |           |         |
| 1   | -    | 1    | 1    | GEN4C       | GEN4A          | 122190A      | EVAL                                     | D-A8168  | D-A8168     |               | D-A8168           | -       | -          | -         | LPT1:   |
| 2   | -    | 1    | 6    | GEN4C       | GEN4A          | 122190A      | INDA                                     | D-A8169  | D-A8169     |               | D-A8169           | -       | -          | -         | LPT1:   |
| 3   | -    | 1    | 11   | GEN4C       | GEN4A          | 122190A      | INDA                                     | D-A8170  | D-A8170     |               | D-A8170           | -       | -          | -         | LPT1:   |
| 4   | -    | 1    | 1    | GEN4C       | GEN4A          | 122190A      | EVAL                                     | D-A8171  | D-A8171     |               | D-A8171           | -       | -          | -         | LPT1:   |
| 5   | -    | 1    | 1    | GEN4C       | GEN4A          | 122190A      | EVAL                                     | D-A8172  | D-A8172     |               | D-A8172           | -       | -          | -         | LPT1:   |
| 6   | -    | 1    | 1    | GEN4C       | GEN4A          | 122190A      | EVAL                                     | D-A8173  | D-A8173     |               | D-A8173           | -       | -          | -         | LPT1:   |
| 7   | -    | 1    | 1    | GEN4C       | GEN4A          | 122190A      | EVAL                                     | D-A8174  | D-A8174     |               | D-A8174           | -       | -          | -         | LPT1:   |
| 8   | -    | 1    | 1    | GEN4C       | GEN4A          | 122190A      | EVAL                                     | D-A8175  | D-A8175     |               | D-A8175           | -       | -          | -         | LPT1:   |
| 9   | -    | 1    | 1    | GEN4C       | GEN4A          | 122190A      | EVAL                                     | D-A8176  | D-A8176     |               | D-A8176           | -       | -          | -         | LPT1:   |
| 10  | -    | 1    | 1    | GEN4C       | GEN4A          | 122190A      | EVAL                                     | D-A8177  | D-A8177     |               | D-A8177           | -       | -          | -         | LPT1:   |
| 11  | -    | 1    | 6    | GEN4C       | GEN4A          | 122190A      | INDA                                     | D-A8178  | D-A8178     |               | D-A8178           | -       | -          | -         | LPT1:   |
| 12  | -    | 1    | 11   | GEN4C       | GEN4A          | 122190A      | INDA                                     | D-A8179  | D-A8179     |               | D-A8179           | -       | -          | -         | LPT1:   |

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## SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY: MORPHYJ

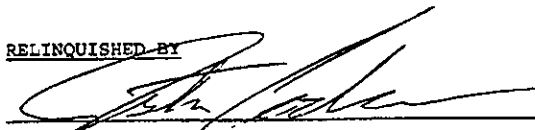
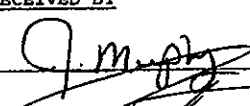
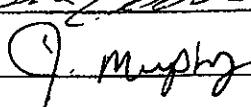
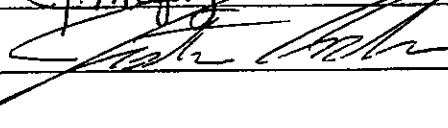
METHOD: QO Inductively Coupled Plasma (6010B)

| STORAGE LOCATION | WORK ORDER # | PICKED | CONTROL # | CLIENT # | ANALYSIS | LOTID     | SMP# | SFX | MATRIX<br>DESCRIPTION | QTY  | QTY  |
|------------------|--------------|--------|-----------|----------|----------|-----------|------|-----|-----------------------|------|------|
|                  |              | CNTR#  |           |          |          |           |      |     |                       | RCVD | REQD |
| 12D CLP1         | DN4P6        | — — —  | 279790    | 399411   | A-34-QO  | C0J310200 | 001  |     | SOLID                 | 0    | 3 1  |
| 12D CLP1         | DN4QJ        | — — —  | 279791    | 399411   | A-34-QO  | C0J310200 | 002  |     | SOLID                 | 0    | 3 1  |
| 12D CLP1         | DN4QK        | — — —  | 279792    | 399411   | A-34-QO  | C0J310200 | 003  |     | SOLID                 | 0    | 3 1  |
| 12E              | DN6N4        | — — —  | 279786    | 413315   | A-34-QO  | C0K010182 | 001  |     | SOLID                 | 0    | 1 1  |
| 12E              | DN6N6        | — — —  | 279787    | 413315   | A-34-QO  | C0K010182 | 002  |     | SOLID                 | 0    | 1 1  |
| 12E              | DN6N7        | — — —  | 279788    | 413315   | A-34-QO  | C0K010182 | 003  |     | SOLID                 | 0    | 1 1  |
| 12E              | DN6N8        | — — —  | 279789    | 413315   | A-34-QO  | C0K010182 | 004  |     | SOLID                 | 0    | 1 1  |

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|   |   | 11-2-00 1200  |
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|                                                                                     |                                                                                      |               |

\*\*\*\*\* END OF REPORT \*\*\*\*\*

STL Pittsburgh

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PSR024 11/02/00 11:45:31 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY: MORPHYJ

METHOD: QO Inductively Coupled Plasma (6010B)

| STORAGE LOCATION | WORK ORDER # | PICKED<br>CNTR# | CONTROL # | CLIENT # | ANALYSIS | LOTID     | SMP# | SEX | MATRIX<br>DESCRIPTION | QTY  |      |
|------------------|--------------|-----------------|-----------|----------|----------|-----------|------|-----|-----------------------|------|------|
|                  |              |                 |           |          |          |           |      |     |                       | RCVD | REQD |
| 10D              | DNRXG        | — — —           | 279793    | 016512   | I-34-QO  | C0J260114 | 007  |     | WATER                 | 0    | 1 1  |
| 10D              | DNRXR        | — — —           | 279794    | 016512   | A-34-QO  | C0J260114 | 013  |     | SOLID                 | 0    | 1 1  |

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REQUESTED BY: YUSHINSC

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METHOD: QJ Pesticides (8081A)

| STORAGE LOCATION | WORK ORDER # | PICKED<br>CNTR# | CONTROL # | CLIENT # | ANALYSIS | LOTID     | SMP# | SFX | MATRIX<br>DESCRIPTION | QTY  |      |   |
|------------------|--------------|-----------------|-----------|----------|----------|-----------|------|-----|-----------------------|------|------|---|
|                  |              |                 |           |          |          |           |      |     |                       | RCVD | REQD |   |
| 12D CLP1         | DN4P6-1-AE   | ___             | 281192    | 399411   | A-36-QJ  | COJ310200 | 001  |     | SOLID                 | 0    | 3    | 1 |
| 12D CLP1         | DN4QJ-1-AE   | ___             | 281193    | 399411   | A-36-QJ  | COJ310200 | 002  |     | SOLID                 | 0    | 3    | 1 |
| 12D CLP1         | DN4QK-1-AE   | ___             | 281194    | 399411   | A-36-QJ  | COJ310200 | 003  |     | SOLID                 | 0    | 3    | 1 |

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|                     |                     |                     |
|---------------------|---------------------|---------------------|
| <i>P. Yushinski</i> | <i>P. Yushinski</i> | <i>11-6-00 154</i>  |
| <i>P. Yushinski</i> | <i>P. Yushinski</i> | <i>11-6-00 2100</i> |
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|                     |                     |                     |

\*\*\*\*\* END OF REPORT \*\*\*\*\*

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**HERBICIDE DATA**

HERBICIDE  
QC SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT QESSDG:

Lot #: C0J310200

|    | CLIENT ID.             | SRG01 | TOT OUT |
|----|------------------------|-------|---------|
|    | =====                  | ===== | =====   |
| 01 | DF/24-A/0304/CVS/008   | 50    | 00      |
| 02 | DF/24-A/0304/CVS/010   | 55    | 00      |
| 03 | DF/24-A/0304/CVS/012   | 69    | 00      |
| 04 | METHOD BLK. DPFF01AA   | 83    | 00      |
| 05 | LCS DPFF01AC           | 79    | 00      |
| 06 | DF/24-A/0304/CVS/008 D | 64    | 00      |
| 07 | DF/24-A/0304/CVS/008 S | 71    | 00      |

SURROGATES  
SRG01 = DCAA

QC LIMITS  
( 42-125)

# Column to be used to flag recovery values  
\* Values outside of required QC Limits  
D System monitoring Compound diluted out

FORM II

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: COK060000

WO #: DPFF01AC

BATCH: 0311597

| COMPOUND          | SPIKE<br>ADDED<br>(mg/L ) | SAMPLE<br>CONCENT.<br>(mg/L ) | %<br>REC | QC<br>LIMITS<br>REC | QUAL  |
|-------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| =====             | =====                     | =====                         | =====    | =====               | ===== |
| 2,4-D             | 0.160                     | 0.107                         | 67       | 28 - 136            |       |
| 2,4,5-TP (Silvex) | 0.0400                    | 0.0287                        | 72       | 50 - 128            |       |

## NOTES(S) :

\* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0304/CVS/008

Lot #: C0J310200

WO #: DN4P61CL

BATCH: 0311597

| COMPOUND          | SPIKE<br>ADDED<br>(mg/L ) | SAMPLE<br>CONCENT.<br>(mg/L ) | MS<br>CONCENT.<br>(mg/L ) | MS<br>%<br>REC | LIMITS<br>REC | QUAL  |
|-------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| =====             | =====                     | =====                         | =====                     | =====          | =====         | ===== |
| 2,4,5-TP (Silvex) | 0.0400                    | ND                            | 0.0304                    | 76             | 50 - 131      |       |
| 2,4-D             | 0.160                     | ND                            | 0.118                     | 74             | 35 - 133      |       |

## NOTES(S):

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD. 0 out of 0 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0304/CVS/008

Lot #: C0J310200

WO #: DN4P61CM

BATCH: 0311597

| COMPOUND          | SPIKE<br>ADDED | MSD<br>CONCENT. | MSD<br>% | QC LIMITS  | QUAL |
|-------------------|----------------|-----------------|----------|------------|------|
|                   | (mg/L )        | (mg/L )         | REC RPD  | RPD REC    |      |
| 2,4-D             | 0.160          | 0.125           | 78 5.1   | 20 35- 133 |      |
| 2,4,5-TP (Silvex) | 0.0400         | 0.0319          | 80 4.6   | 20 50- 131 |      |

## NOTES(S):

# Column to be used to flag recovery and RPD values with an asterisk  
\* Values outside of QC limits

RPD: 0 out of 2 outside limits  
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III



674 396

SW846 8151A METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DPFF01AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: A-B80019.

Lot Number: C0J310200

Matrix: SOLID

Extraction Method:

Date Extracted: 11/06/00

Date Analyzed(1): 11/08/00

Date Analyzed(2): N/A

Time Analyzed(1): 12:19

Time Analyzed(2): N/A

Instrument ID(1): A/B

Instrument ID(2): N/A

GC Column(1): DB5/DB1701 ID: 053

GC Column(2): N/A

ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

| CLIENT ID. | SAMPLE<br>WORK ORDER #           | DATE<br>ANALYZED (1) | DATE<br>ANALYZED (2) |
|------------|----------------------------------|----------------------|----------------------|
| 01         | DF/24-A/0304/CVS/008 DN4P61AF    | 11/08/00             | N/A                  |
| 02         | DF/24-A/0304/CVS/008 DN4P61CL S' | 11/08/00             | N/A                  |
| 03         | DF/24-A/0304/CVS/008 DN4P61CM D  | 11/08/00             | N/A                  |
| 04         | DF/24-A/0304/CVS/010 DN4QJ1AF    | 11/08/00             | N/A                  |
| 05         | DF/24-A/0304/CVS/012 DN4QK1AF    | 11/08/00             | N/A                  |
| 06         | CHECK SAMPLE DPFF01AC C          | 11/08/00             | N/A                  |
| 07         |                                  |                      |                      |
| 08         |                                  |                      |                      |
| 09         |                                  |                      |                      |
| 10         |                                  |                      |                      |
| 11         |                                  |                      |                      |
| 12         |                                  |                      |                      |
| 13         |                                  |                      |                      |
| 14         |                                  |                      |                      |
| 15         |                                  |                      |                      |
| 16         |                                  |                      |                      |
| 17         |                                  |                      |                      |
| 18         |                                  |                      |                      |
| 19         |                                  |                      |                      |
| 20         |                                  |                      |                      |

COMMENTS:

FORM IV

**HERBICIDE  
SAMPLE DATA**

674 398

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 10/31/00

Work Order: DN4P61AF

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/08/00

Moisture %: 16

QC Batch: 0311597

Client Sample Id: DF/24-A/0304/CVS/008

| CAS NO. | COMPOUND          | CONCENTRATION UNITS: |   |
|---------|-------------------|----------------------|---|
|         |                   | (ug/L or ug/kg) mg/L | Q |
| 94-75-7 | 2,4-D             | 0.040                | U |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.010                | U |

FORM I

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80013.D  
 Report Date: 08-Nov-2000 11:03

674 399

STL-Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80013.D  
 Lab Smp Id: DN4P61AF Client Smp ID: DF/24-A/0304/CVS/00  
 Inj Date : 08-NOV-2000 09:26  
 Operator : 01797 Inst ID: gc1.i  
 Smp Info : DN4P61AF,7180A.b  
 Misc Info : 310200001  
 Comment :  
 Method : \\QPITPA02\D\chem\gc1.i\7180A.b\LONGHB.m  
 Meth Date : 08-Nov-2000 10:54 morganw Quant Type: ESTD  
 Cal Date : 18-OCT-2000 19:53 Cal File: A-B70377.D  
 Als bottle: 3  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: all.sub  
 Target Version: 4.04  
 Processing Host: PITPC085

Concentration Formula: Amt \* DF \* 20\*Vt/Vo/Vi

| Name | Value   | Description                     |
|------|---------|---------------------------------|
| DF   | 1.000   | Dilution Factor                 |
| Vt   | 10.000  | Volume of final extract (uL)    |
| Vo   | 100.000 | Volume of sample extracted (mL) |
| Vi   | 1.000   | Volume injected                 |

| Compounds           | RT     | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS     |                  |
|---------------------|--------|--------|--------|----------|--------------------|------------------|
|                     |        |        |        |          | ON-COLUMN<br>( ng) | FINAL<br>( ug/L) |
| 1 DALAPON           |        |        |        |          |                    |                  |
| 2 DCAA              | 11 151 | 11.152 | -0.001 | 810906   | 0 02506            | 0.05012 (a)      |
| 3 DICAMBA           |        |        |        |          |                    |                  |
| 4 MCPP              | 12 183 | 12.192 | -0.009 | 8171     | 0.34744            | 0 6949           |
| 5 MCPA              |        |        |        |          |                    |                  |
| 6 DICHLOROPROP      |        |        |        |          |                    |                  |
| 7 2,4-D             |        |        |        |          |                    |                  |
| 8 PENTACHLOROPHENOL |        |        |        |          |                    |                  |
| 9 2,4,5-TP (SILVEX) | 17.866 | 17.801 | 0.065  | 87652    | 0.00137            | 0.002733 (a)     |
| 10 2,4,5-T          |        |        |        |          |                    |                  |
| 11 2,4-DB           |        |        |        |          |                    |                  |
| 12 DINOSEB          |        |        |        |          |                    |                  |

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80013.D  
Report Date: 08-Nov-2000 11:03

674 400

#### QC Flag Legend

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

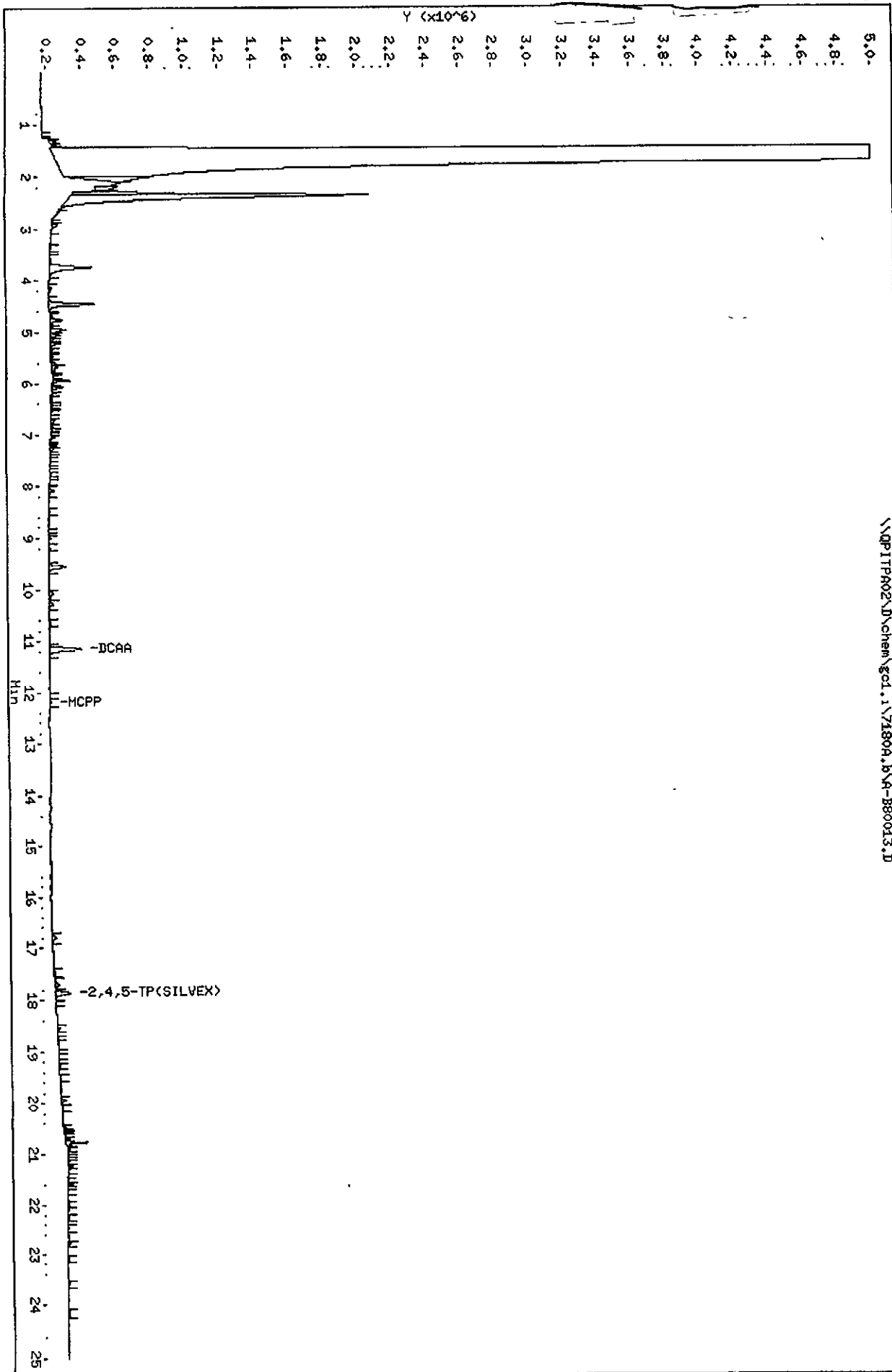
674

401

Data File: \\NPITPA02\Nchem\ec1.1\7180A.b\A-B80013.D  
Date : 08-NOV-2000 09:26  
Client ID: DF/24-A/0304/CVS/00  
Sample Info: DN4P61AF,7180A.b  
Volume Injected (uL): 1.0  
Column phase: DB1701

Instrument: ec1.i  
Operator: 01797  
Column diameter: 0.53

\\NPITPA02\Nchem\ec1.1\7180A.b\A-B80013.D



674 402

## UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID .

Lab Sample ID: C0J310200 002

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 10/31/00

Work Order: DN4QJ1AF

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/08/00

Moisture %: 13

QC Batch: 0311597

Client Sample Id: DF/24-A/0304/CVS/010

|         |                   | CONCENTRATION UNITS: |   |
|---------|-------------------|----------------------|---|
| CAS NO. | COMPOUND          | (ug/L or ug/kg) mg/L | Q |
| 94-75-7 | 2,4-D             | 0.040                | U |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.010                | U |

FORM I

STL-Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80016.D  
 Lab Smp Id: DN4QJ1AF Client Smp ID: DF/24-A/0304/CVS/01  
 Inj Date : 08-NOV-2000 10:53  
 Operator : 01797 Inst ID: gc1.i  
 Smp Info : DN4QJ1AF,7180A.b  
 Misc Info : 310200002  
 Comment :  
 Method : \\QPITPA02\D\chem\gc1.i\7180A.b\LONGHB.m  
 Meth Date : 08-Nov-2000 10:54 morganw Quant Type: ESTD  
 Cal Date : 18-OCT-2000 19:53 Cal File: A-B70377.D  
 Als bottle: 6  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: all.sub  
 Target Version: 4.04  
 Processing Host: PITPC085

Concentration Formula: Amt \* DF \* 20\*Vt/Vo/Vi

| Name | Value   | Description                     |
|------|---------|---------------------------------|
| DF   | 1.000   | Dilution Factor                 |
| Vt   | 10.000  | Volume of final extract (uL)    |
| Vo   | 100.000 | Volume of sample extracted (mL) |
| Vi   | 1.000   | Volume injected                 |

| Compounds           | RT     | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS     |                  |
|---------------------|--------|--------|--------|----------|--------------------|------------------|
|                     |        |        |        |          | ON-COLUMN<br>( ng) | FINAL<br>( ug/L) |
| 1 DALAPON           |        |        |        |          |                    |                  |
| 2 DCAA              | 11.150 | 11.152 | -0.002 | 883650   | 0.02731            | 0.05461(a)       |
| 3 DICAMBA           |        |        |        |          |                    |                  |
| 4 MCPP              | 12.176 | 12.192 | -0.016 | 12774    | 0.54317            | 1.086            |
| 5 MCPA              |        |        |        |          |                    |                  |
| 6 DICHLOROPROP      |        |        |        |          |                    |                  |
| 7 2,4-D             |        |        |        |          |                    |                  |
| 8 PENTACHLOROPHENOL |        |        |        |          |                    |                  |
| 9 2,4,5-TP(SILVEX)  | 17.867 | 17.801 | 0.066  | 83616    | 0.00130            | 0.002607(a)      |
| 10 2,4,5-T          |        |        |        |          |                    |                  |
| 11 2,4-DB           |        |        |        |          |                    |                  |
| 12 DINOSEB          |        |        |        |          |                    |                  |



**674 404**

Data File: J:\QIPITPA02\D\chem\gc1.i\7180A.b\A-B80016.D  
Report Date: 08-Nov-2000 11:39

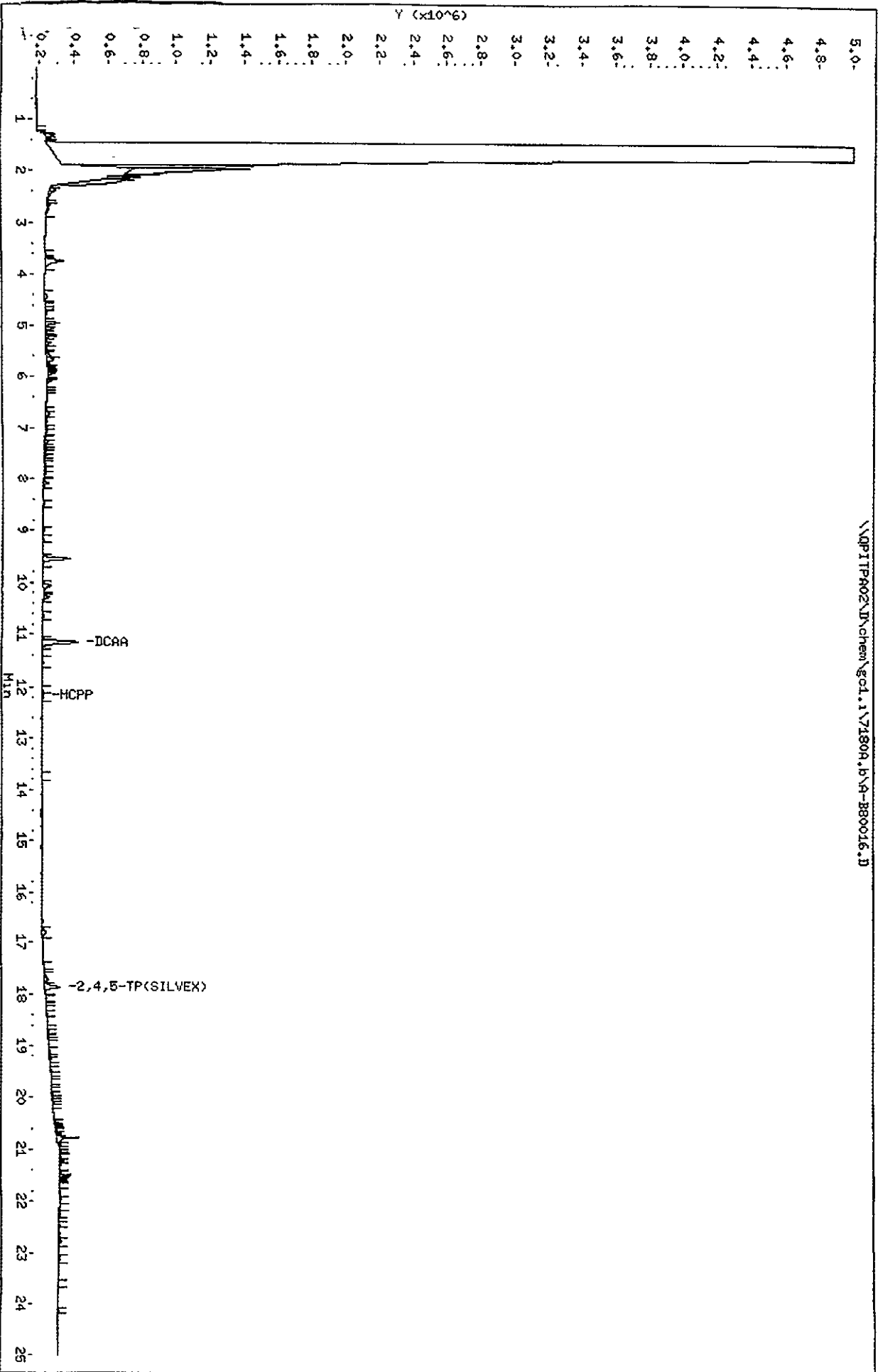
QC Flag Legend

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

674 405

Data File: \\NPITPA02\N\chem\gcl.1\71809.b\A-B80016.D  
 Date: 08-NOV-2000 10:53  
 Client ID: DF/24-A/0304/CVS/01  
 Sample Info: DN4001AF, 71809.b  
 Volume Injected (uL): 1.0  
 Column phase: DB1701

Instrument: gcl.1  
 Operator: 01797  
 Column diameter: 0.53



UXB INTERNATIONAL

674 406

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 003

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 10/31/00

Work Order: DN4QK1AF

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/08/00

Moisture %: 17

QC Batch: 0311597

Client Sample Id: DF/24-A/0304/CVS/012

| CAS NO. | COMPOUND          | CONCENTRATION UNITS: |   |
|---------|-------------------|----------------------|---|
|         |                   | (ug/L or ug/kg) mg/L | Q |
| 94-75-7 | 2,4-D             | 0.040                | U |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.010                | U |

FORM I

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80017.D  
 Report Date: 08-Nov-2000 12:01

674 407

# STL-Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80017.D  
 Lab Smp Id: DN4QK1AF Client Smp ID: DF/24-A/0304/CVS/01  
 Inj Date : 08-NOV-2000 11:22  
 Operator : 01797 Inst ID: gc1.i  
 Smp Info : DN4QK1AF, 7180A.b  
 Misc Info : 310200003  
 Comment :  
 Method : \\QPITPA02\D\chem\gc1.i\7180A.b\LONGHB.m  
 Meth Date : 08-Nov-2000 10:54 morganw Quant Type: ESTD  
 Cal Date : 18-OCT-2000 19:53 Cal File: A-B70377.D  
 Als bottle: 7  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: all.sub  
 Target Version: 4.04  
 Processing Host: PITPC085

Concentration Formula: Amt \* DF \* 20\*Vt/Vo/Vi

| Name | Value   | Description                     |
|------|---------|---------------------------------|
| DF   | 1.000   | Dilution Factor                 |
| Vt   | 10.000  | Volume of final extract (uL)    |
| Vo   | 100.000 | Volume of sample extracted (mL) |
| Vi   | 1.000   | Volume injected                 |

| Compounds           | RT     | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS     |                  |
|---------------------|--------|--------|--------|----------|--------------------|------------------|
|                     |        |        |        |          | ON-COLUMN<br>( ng) | FINAL<br>( ug/L) |
| 1 DALAPON           |        |        |        |          |                    |                  |
| 2 DCAA              | 11.152 | 11 152 | 0 000  | 1109775  | 0.03429            | 0.06858(a)       |
| 3 DICAMBA           |        |        |        |          |                    |                  |
| 4 MCPP              | 12 185 | 12.192 | -0.007 | 13018    | 0 55354            | 1 107            |
| 5 MCPA              |        |        |        |          |                    |                  |
| 6 DICHLOROPROP      |        |        |        |          |                    |                  |
| 7 2,4-D             |        |        |        |          |                    |                  |
| 8 PENTACHLOROPHENOL |        |        |        |          |                    |                  |
| 9 2,4,5-TP (SILVEX) | 17.869 | 17 801 | 0.068  | 83253    | 0.00130            | 0.002596(a)      |
| 10 2,4,5-T          |        |        |        |          |                    |                  |
| 11 2,4-DB           |        |        |        |          |                    |                  |
| 12 DINOSEB          |        |        |        |          |                    |                  |

Data File: \\QPITPA02\D\chem\gcl.i\7180A.b\A-B80017.D  
Report Date: 08-Nov-2000 12:01

674 408

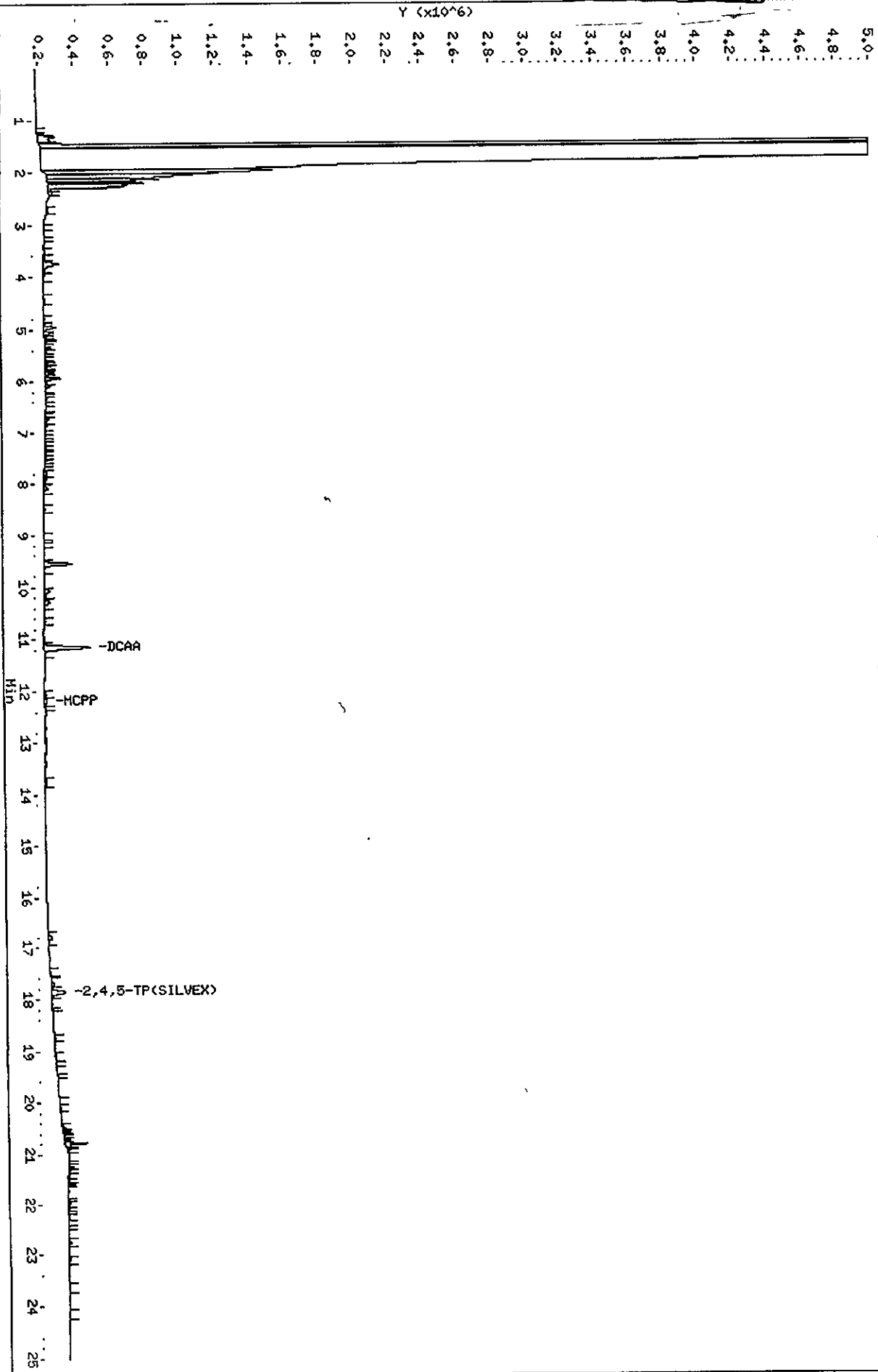
#### QC Flag Legend

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

Data File: \\QP1TPA02\B\chem\gc1.i\7180A.b\A-B80017.D  
Date: 08-NOV-2000 11:22  
Client ID: DF/24-A/0304/CVS/01  
Sample Info: D140K1AF,7180A.b  
Volume Injected (uL): 1.0  
Column phase: DB1701

Instrument: gc1.i  
Operator: 01797  
Column diameter: 0.53

\\QP1TPA02\B\chem\gc1.i\7180A.b\A-B80017.D



674 410

**HERBICIDE  
CALIBRATION DATA**

Report Date : 08-Nov-2000 10:53

6D  
68901B  
DB1701

674 411

STL-Pittsburgh

COMPOUND LISTING

Method file : \\QPITPA02\D\chem\gc1.i\7180A.b\LONGHB.m  
Quant Method : ESTD Target Version : 4.04  
Last Update : 08-Nov-2000 10:35 Number of Cpnds : 12  
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events

Values

-----  
Initial:Start Threshold 449.000000  
Initial:End Threshold 224.500000  
Initial:Area Threshold 4490.000000  
Initial:P-P Resolution 1.000000  
Initial:Bunch Factor 8.000000  
Initial:Negative Peaks ON  
Initial:Tension 0.200000

| Compound            | RT     | RT Window     | RF        |
|---------------------|--------|---------------|-----------|
| 1 DALAPON           | 4.265  | 4.195-4.335   | 1.48e+007 |
| 2 DCAA              | 11.152 | 11.082-11.222 | 3.24e+007 |
| 3 DICAMBA           | 11.751 | 11.681-11.821 | 2.78e+007 |
| 4 MCPP              | 12.193 | 12.123-12.263 | 2.35e+004 |
| 5 MCPA              | 13.070 | 13.000-13.140 | 3.50e+004 |
| 6 DICHLOROPROP      | 14.215 | 14.145-14.285 | 5.99e+006 |
| 7 2,4-D             | 15.715 | 15.645-15.785 | 6.21e+006 |
| 8 PENTACHLOROPHENOL | 16.133 | 16.063-16.203 | 8.17e+007 |
| 9 2,4,5-TP (SILVEX) | 17.801 | 17.731-17.871 | 6.41e+007 |
| 10 2,4,5-T          | 18.567 | 18.497-18.637 | 7.05e+007 |
| 11 2,4-DB           | 19.143 | 19.073-19.213 | 1.04e+007 |
| 12 DINOSEB          | 19.850 | 19.780-19.919 | 6.82e+007 |



674 412  
Report Date : 19-Oct-2000 09:12

6 E  
689013  
DB1701

STL - Pittsburgh

# INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2000 17:56  
End Cal Date : 18-OCT-2000 19:53  
Quant Method : ESTD  
Origin : Disabled  
Target Version : 4.04  
Integrator : Falcon  
Method file : \\QPITPA02\D\chem\gc1.i\7180A.b\LONGHB.m  
Cal Date : 19-Oct-2000 09:08 morganw  
Curve Type : Average

## Calibration File Names:

Level 1: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B70373.D  
Level 2: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B70374.D  
Level 3: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B70375.D  
Level 4: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B70376.D  
Level 5: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B70377.D

| Compound            | 0.00500  | 0.01000  | 0.02500  | 0.05000  | 0.10000  | RRF      | % RSD  |
|---------------------|----------|----------|----------|----------|----------|----------|--------|
| 1 DALAPON           | 16896818 | 15853636 | 14561298 | 13522369 | 13071136 | 14781052 | 10.795 |
| 3 DICAMBA           | 30754528 | 29614648 | 27867647 | 25745394 | 24996176 | 27795679 | 8.833  |
| 4 MCPP              | 29682    | 26712    | 23250    | 20166    | 17778    | 23518    | 20.442 |
| 5 MCPA              | 47520    | 40273    | 33535    | 28244    | 25396    | 34993    | 25.742 |
| 6 DICHLOROPROP      | 6930377  | 6553703  | 6028042  | 5438371  | 5004876  | 5991074  | 13.138 |
| 7 2,4-D             | 6786493  | 6636165  | 6295253  | 5832882  | 5483488  | 6206856  | 8.792  |
| 8 PENTACHLOROPHENOL | 84773308 | 84225188 | 81955921 | 78899671 | 78773866 | 81725591 | 3.476  |
| 9 2,4,5-TP(SILVEX)  | 67239048 | 66907714 | 65041896 | 61994751 | 59543762 | 64145434 | 5.159  |
| 10 2,4,5-T          | 69988046 | 72315524 | 71742133 | 69888649 | 68773045 | 70541479 | 2.060  |
| 11 2,4-DB           | 10637678 | 10682512 | 10353467 | 10030769 | 10075311 | 10355947 | 2.939  |
| 12 DINOSEB          | 69240694 | 70630709 | 69077953 | 66604134 | 65636260 | 68237950 | 3.010  |
| \$ 2 DCAA           | 37964038 | 36021952 | 32385734 | 28812482 | 26624824 | 32361806 | 14.681 |

9.9 %D  
AVG.

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80012.D  
 Report Date: 08-Nov-2000 10:30

7E  
 669013  
 DB1701

674 413

STL-Pittsburgh

# CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 08-NOV-2000 08:57  
 Lab File ID: A-B80012.D Init. Cal. Date(s): 18-OCT-2000 18-OCT-2000  
 Analysis Type: Init. Cal. Times: 17:56 19:53  
 Lab Sample ID: MHERB Quant Type: ESTD  
 Method: \\QPITPA02\D\chem\gc1.i\7180A.b\LONGHB.m

| COMPOUND            | RRF      | RFC      | MIN   | RD   | MAX  |
|---------------------|----------|----------|-------|------|------|
| 1 DALAPON           | 14781052 | 14587768 | 0.010 | -1.3 | 15.0 |
| 2 DCAA              | 32361806 | 32650576 | 0.010 | 0.9  | 15.0 |
| 3 DICAMBA           | 27795679 | 28118165 | 0.010 | 1.2  | 15.0 |
| 4 MCPP              | 23518    | 26009    | 0.010 | 10.6 | 15.0 |
| 5 MCPA              | 34993    | 35005    | 0.010 | 0.0  | 15.0 |
| 6 DICHLOROPROP      | 5991074  | 6072771  | 0.010 | 1.4  | 15.0 |
| 7 2,4-D             | 6206856  | 6195875  | 0.010 | -0.2 | 15.0 |
| 8 PENTACHLOROPHENOL | 81725591 | 82371147 | 0.010 | 0.8  | 15.0 |
| 9 2,4,5-TP(SILVEX)  | 64145434 | 66045877 | 0.010 | 3.0  | 15.0 |
| 10 2,4,5-T          | 70541479 | 70958104 | 0.010 | 0.6  | 15.0 |
| 11 2,4-DB           | 10355947 | 10581941 | 0.010 | 2.2  | 15.0 |
| 12 DINOSEB          | 68237950 | 72163701 | 0.010 | 5.8  | 15.0 |

674 414

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80020.D  
 Report Date: 18-Nov-2000 13:59

ME  
 689018  
 DB1701

STL-Pittsburgh

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 08-NOV-2000 12:48  
 Lab File ID: A-B80020.D Init. Cal. Date(s): 18-OCT-2000 18-OCT-2000  
 Analysis Type: Init. Cal. Times: 17:56 19:53  
 Lab Sample ID: MHERB Quant Type: ESTD  
 Method: \\QPITPA02\D\chem\gc1.i\7180A.b\LONGHB.m

| COMPOUND            | RRF      | RFO      | MIN   | MAX       |
|---------------------|----------|----------|-------|-----------|
| =====               | =====    | =====    | ===== | =====     |
| 1 DALAPON           | 14781052 | 15546219 | 0.010 | 5.2 15.0  |
| 2 DCAA              | 32361806 | 34403502 | 0.010 | 6.3 15.0  |
| 3 DICAMBA           | 27795679 | 29984376 | 0.010 | 7.9 15.0  |
| 4 MCPP              | 23518    | 25951    | 0.010 | 10.3 15.0 |
| 5 MCPA              | 34993    | 35669    | 0.010 | 1.9 15.0  |
| 6 DICHLOROPROP      | 5991074  | 6435083  | 0.010 | 7.4 15.0  |
| 7 2,4-D             | 6206856  | 6707897  | 0.010 | 8.1 15.0  |
| 8 PENTACHLOROPHENOL | 81725591 | 87398120 | 0.010 | 6.9 15.0  |
| 9 2,4,5-TP (SILVEX) | 64145434 | 69703839 | 0.010 | 8.7 15.0  |
| 10 2,4,5-T          | 70541479 | 77275450 | 0.010 | 9.5 15.0  |
| 11 2,4-DB           | 10355947 | 11191195 | 0.010 | 8.1 15.0  |
| 12 DINOSEB          | 68237950 | 71953465 | 0.010 | 5.4 15.0  |

8D  
PESTICIDE ANALYTICAL SEQUENCE

674 415

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C0J310200

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 10/18/00 10/18/00

Instrument ID: GC1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
SAMPLES, AND STANDARDS IS GIVEN BELOW:

| MEAN SURROGATE RT FROM INITIAL CALIBRATION<br>S1 : 11.16 |                   |                  |                  |                  |            |
|----------------------------------------------------------|-------------------|------------------|------------------|------------------|------------|
|                                                          | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | DATE<br>ANALYZED | TIME<br>ANALYZED | S1<br>RT # |
| 01                                                       |                   | LHERB            | 10/18/00         | 1756             | 11.16      |
| 02                                                       |                   | MLHERB           | 10/18/00         | 1825             | 11.15      |
| 03                                                       |                   | MHERB            | 10/18/00         | 1855             | 11.16      |
| 04                                                       |                   | MHHERB           | 10/18/00         | 1924             | 11.16      |
| 05                                                       |                   | HHERB            | 10/18/00         | 1953             | 11.15      |
| 06                                                       |                   | MHERB            | 11/08/00         | 0857             | 11.15      |
| 07                                                       | DF/24-A/0304      | DN4P61AF         | 11/08/00         | 0926             | 11.15      |
| 08                                                       | DF/24-A/0304      | DN4P61CL         | 11/08/00         | 0955             | 11.15      |
| 09                                                       | DF/24-A/0304      | DN4P61CM         | 11/08/00         | 1024             | 11.15      |
| 10                                                       | DF/24-A/0304      | DN4QJ1AF         | 11/08/00         | 1053             | 11.15      |
| 11                                                       | DF/24-A/0304      | DN4QK1AF         | 11/08/00         | 1122             | 11.15      |
| 12                                                       | LCS               | DPFF01AC         | 11/08/00         | 1150             | 11.15      |
| 13                                                       | BLK               | DPFF01AA         | 11/08/00         | 1219             | 11.15      |
| 14                                                       |                   | MHERB            | 11/08/00         | 1248             | 11.15      |
| 15                                                       |                   |                  |                  |                  |            |
| 16                                                       |                   |                  |                  |                  |            |
| 17                                                       |                   |                  |                  |                  |            |
| 18                                                       |                   |                  |                  |                  |            |
| 19                                                       |                   |                  |                  |                  |            |
| 20                                                       |                   |                  |                  |                  |            |
| 21                                                       |                   |                  |                  |                  |            |
| 22                                                       |                   |                  |                  |                  |            |
| 23                                                       |                   |                  |                  |                  |            |
| 24                                                       |                   |                  |                  |                  |            |
| 25                                                       |                   |                  |                  |                  |            |
| 26                                                       |                   |                  |                  |                  |            |
| 27                                                       |                   |                  |                  |                  |            |
| 28                                                       |                   |                  |                  |                  |            |
| 29                                                       |                   |                  |                  |                  |            |
| 30                                                       |                   |                  |                  |                  |            |
| 31                                                       |                   |                  |                  |                  |            |
| 32                                                       |                   |                  |                  |                  |            |

S1 = DCAA                      QC LIMITS  
(+/- 0.07 MINUTES)

# Column used to flag retention time values with an asterisk.  
\* Values outside of QC limits.

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B70373.D  
Report Date: 19-Oct-2000 09:09

674 416

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\7180A.b\A-B70373.D  
Lab Smp Id: LHERB  
Inj Date : 18-OCT-2000 17:56  
Operator : 01797  
Smp Info : LHERB,7180A.b  
Misc Info : 190-94-1  
Comment :  
Method : \\QPITPA02\D\chem\gc1.i\7180A.b\LONGHB.m  
Meth Date : 19-Oct-2000 09:08 morganw  
Cal Date : 18-OCT-2000 17:56  
Als bottle: 2  
Dil Factor: 1.00000  
Integrator: Falcon  
Target Version: 4.04  
Processing Host: PITPC085

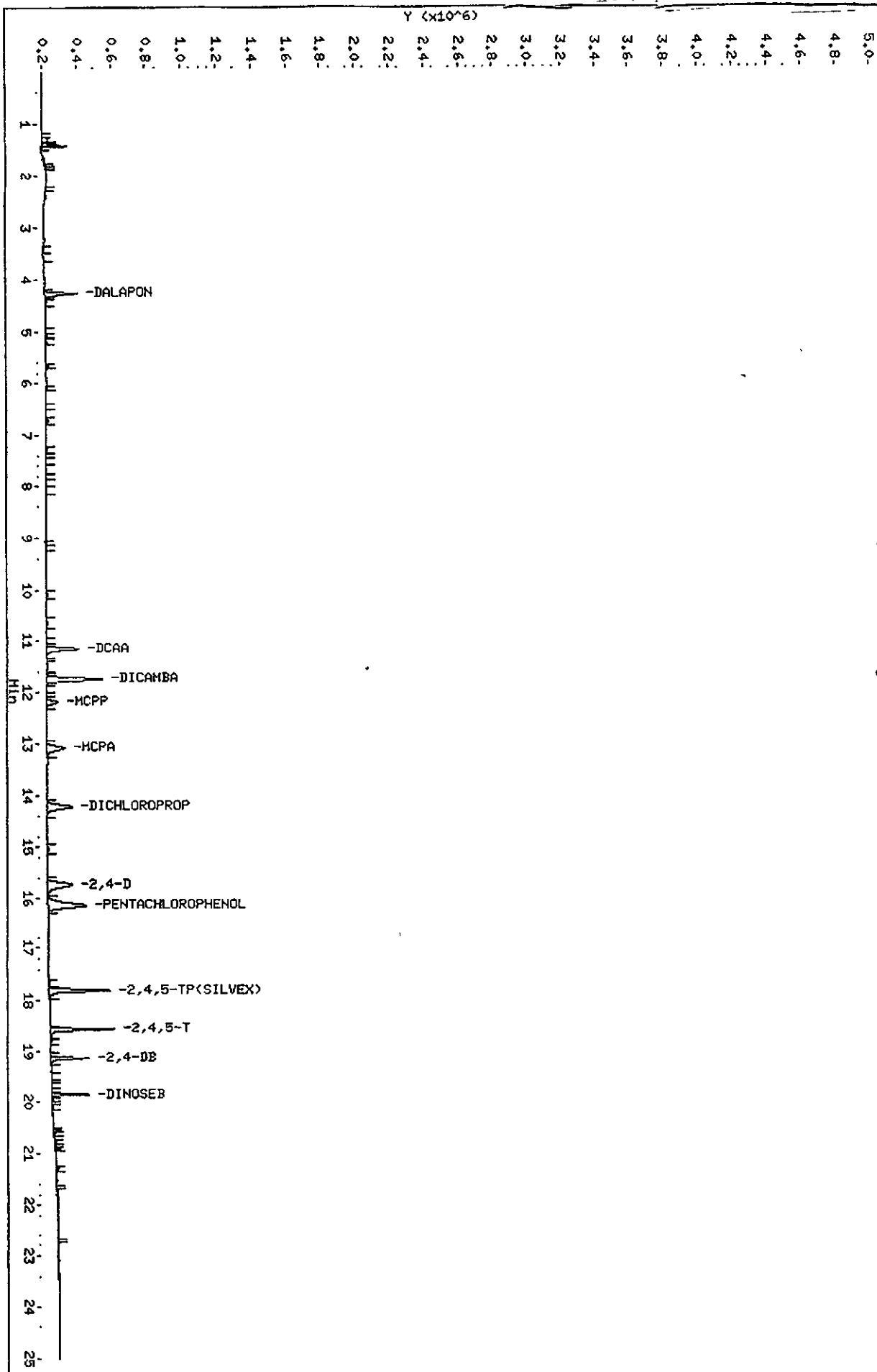
Inst ID: gc1.i  
Quant Type: ESTD  
Cal File: A-B70373.D  
Calibration Sample, Level: 1  
Compound Sublist: all.sub

| Compounds           | RT     | EXP RT | DLT RT | RESPONSE | AMOUNTS          |                 |
|---------------------|--------|--------|--------|----------|------------------|-----------------|
|                     |        |        |        |          | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| 1 DALAPON           | 4.265  | 4.269  | -0.004 | 185865   | 0.01100          | 0.01100         |
| \$ 2 DCAA           | 11.157 | 11.153 | 0.004  | 808634   | 0.02130          | 0.02130         |
| 3 DICAMBA           | 11.754 | 11.757 | -0.003 | 325998   | 0.01060          | 0.01060         |
| 4 MCPP              | 12.198 | 12.199 | -0.001 | 62926    | 2.12000          | 2.120           |
| 5 MCPA              | 13.077 | 13.076 | 0.001  | 101692   | 2.14000          | 2.140           |
| 6 DICHLOROPROP      | 14.222 | 14.220 | 0.002  | 146924   | 0.02120          | 0.02120         |
| 7 2,4-D             | 15.725 | 15.711 | 0.014  | 143195   | 0.02110          | 0.02110         |
| 8 PENTACHLOROPHENOL | 16.141 | 16.142 | -0.001 | 225497   | 0.00266          | 0.002660        |
| 9 2,4,5-TP(SILVEX)  | 17.802 | 17.803 | -0.001 | 353005   | 0.00525          | 0.005250        |
| 10 2,4,5-T          | 18.569 | 18.566 | 0.003  | 368837   | 0.00527          | 0.005270        |
| 11 2,4-DB           | 19.146 | 19.142 | 0.004  | 224455   | 0.02110          | 0.02110         |
| 12 DINOSEB          | 19.851 | 19.851 | 0.000  | 219493   | 0.00317          | 0.003170        |

Data File: \\QPI1TPA02\N\chem\gcl.1\7180A.b\A-B70373.D  
Date: 18-OCT-2000 17:56  
Client ID:  
Sample Info: LHERB, 7180A.b  
Column phase: DB1701

Instrument: gcl.1  
Operator: 01797  
Column diameter: 0.53

\\QPI1TPA02\N\chem\gcl.1\7180A.b\A-B70373.D



674 418

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B70374.D  
 Report Date: 19-Oct-2000 09:09

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\7180A.b\A-B70374.D  
 Lab Smp Id: MLHERB  
 Inj Date : 18-OCT-2000 18:25  
 Operator : 01797  
 Smp Info : MLHERB,7180A.b  
 Misc Info : 190-94-2  
 Comment :  
 Method : \\QPITPA02\D\chem\gc1.i\7180A.b\LONGHB.m  
 Meth Date : 19-Oct-2000 09:08 morganw  
 Cal Date : 18-OCT-2000 18:25  
 Als bottle: 3  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.04  
 Processing Host: PITPC085

Inst ID: gc1.i  
 Quant Type: ESTD  
 Cal File: A-B70374.D  
 Calibration Sample, Level: 2  
 Compound Sublist: all.sub

| Compounds           | RT     | EXP RT | DLT RT | RESPONSE | AMOUNTS          |                 |
|---------------------|--------|--------|--------|----------|------------------|-----------------|
|                     |        |        |        |          | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| 1 DALAPON           | 4.265  | 4.269  | -0.004 | 348780   | 0.02200          | 0.02130         |
| 2 DCAA              | 11.153 | 11.153 | 0.000  | 1530933  | 0.04250          | 0.04138         |
| 3 DICAMBA           | 11.754 | 11.757 | -0.003 | 630792   | 0.02130          | 0.02090         |
| 4 MCPP              | 12.196 | 12.199 | -0.003 | 113792   | 4.26000          | 4.036           |
| 5 MCPA              | 13.073 | 13.076 | -0.003 | 172367   | 4.28000          | 3.927           |
| 6 DICHLOROPROP      | 14.219 | 14.220 | -0.001 | 277877   | 0.04240          | 0.04122         |
| 7 2,4-D             | 15.720 | 15.711 | 0.009  | 282037   | 0.04250          | 0.04202         |
| 8 PENTACHLOROPHENOL | 16.139 | 16.142 | -0.003 | 448078   | 0.00532          | 0.005303        |
| 9 2,4,5-TP(SILVEX)  | 17.801 | 17.803 | -0.002 | 702531   | 0.01050          | 0.01047         |
| 10 2,4,5-T          | 18.568 | 18.566 | 0.002  | 759313   | 0.01050          | 0.01067         |
| 11 2,4-DB           | 19.144 | 19.142 | 0.002  | 450802   | 0.04220          | 0.04229         |
| 12 DINOSEB          | 19.851 | 19.851 | 0.000  | 448505   | 0.00635          | 0.006413        |

Date File: \\QP1TPA02\chem\gcl.1\7180A.b\A-870374.D

Date: 18-OCT-2000 18:25

Client ID:

Sample Info: HLHERB, 7180A.b

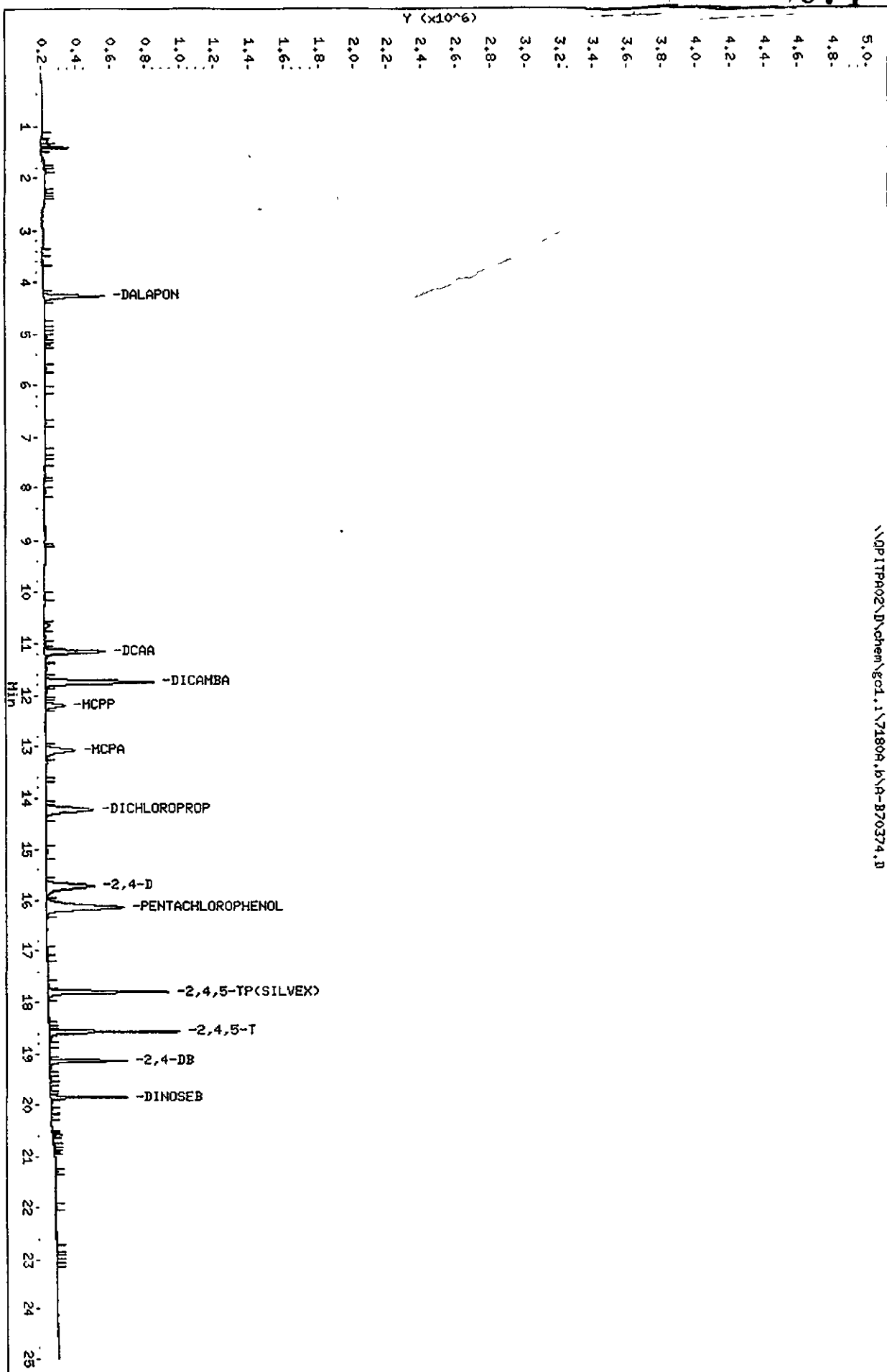
Column phase: DB1701

Instrument: gcl.1

Operator: 01797

Column diameter: 0.53

\\QP1TPA02\chem\gcl.1\7180A.b\A-870374.D





674 420

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B70375.D  
 Report Date: 19-Oct-2000 09:09

## STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\7180A.b\A-B70375.D  
 Lab Smp Id: MHERB  
 Inj Date : 18-OCT-2000 18:55  
 Operator : 01797  
 Smp Info : MHERB,7180A.b  
 Misc Info : 190-94-3  
 Comment :  
 Method : \\QPITPA02\D\chem\gc1.i\7180A.b\LONGHB.m  
 Meth Date : 19-Oct-2000 09:08 morganw  
 Cal Date : 18-OCT-2000 18:55  
 Als bottle: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.04  
 Processing Host: PITPC085

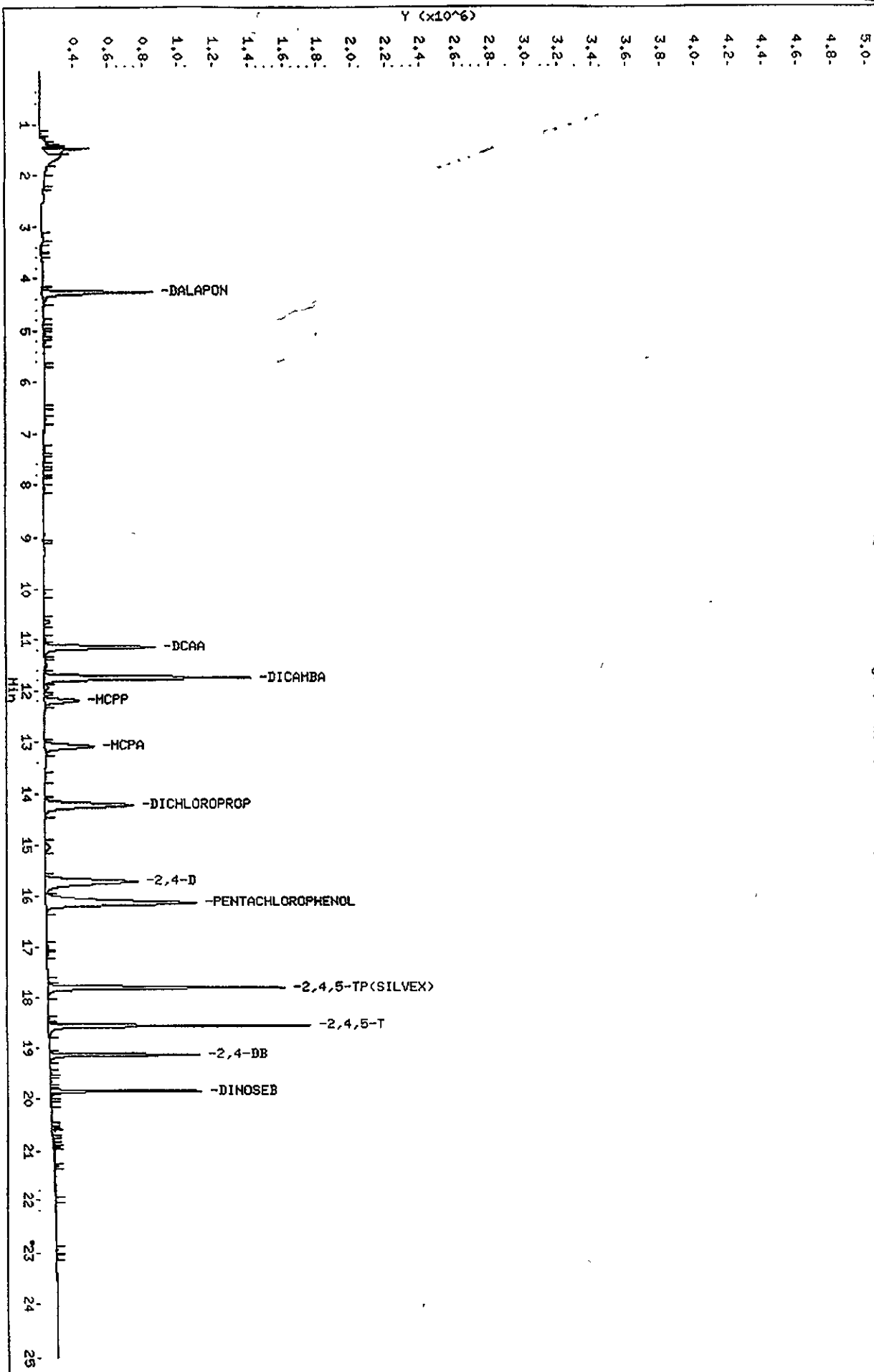
Inst ID: gc1.1  
 Quant Type: ESTD  
 Cal File: A-B70375.D  
 Calibration Sample, Level: 3  
 Compound Sublist: all.sub

| Compounds           | AMOUNTS |        |        |          |                  |              |
|---------------------|---------|--------|--------|----------|------------------|--------------|
|                     | RT      | EXP RT | DLT RT | RESPONSE | CAL-AMT<br>( ng) | ON-COL<br>ng |
| -----               | --      | -----  | -----  | -----    | -----            | -----        |
| 1 DALAPON           | 4.267   | 4.269  | -0.002 | 639241   | 0.04390          | 0.04053      |
| \$ 2 DCAA           | 11.156  | 11.153 | 0.003  | 2756026  | 0.08510          | 0.07773      |
| 3 DICAMBA           | 11.757  | 11.757 | 0.000  | 1184375  | 0.04250          | 0.04027      |
| 4 MCPP              | 12.196  | 12.199 | -0.003 | 198088   | 8.52000          | 7.462        |
| 5 MCPA              | 13.077  | 13.076 | 0.001  | 287058   | 8.56000          | 7.098        |
| 6 DICHLOROPROP      | 14.221  | 14.220 | 0.001  | 511178   | 0.08480          | 0.07859      |
| 7 2,4-D             | 15.720  | 15.711 | 0.009  | 535726   | 0.08510          | 0.08151      |
| 8 PENTACHLOROPHENOL | 16.142  | 16.142 | 0.000  | 872011   | 0.01064          | 0.01042      |
| 9 2,4,5-TP(SILVEX)  | 17.802  | 17.803 | -0.001 | 1372384  | 0.02110          | 0.02067      |
| 10 2,4,5-T          | 18.568  | 18.566 | 0.002  | 1513759  | 0.02110          | 0.02122      |
| 11 2,4-DB           | 19.143  | 19.142 | 0.001  | 874868   | 0.08450          | 0.08286      |
| 12 DINOSEB          | 19.852  | 19.851 | 0.001  | 877290   | 0.01270          | 0.01260      |

Data File: \\NPITP02\Nchem\col.1\7180A.b\A-B70375.D  
Date: 18-OCT-2000 18:55  
Client ID:  
Sample Info: HHERB.7180A.b  
Column phase: DB1701

Instrument: col.1  
Operator: 01797  
Column diameter: 0.53

\\NPITP02\Nchem\col.1\7180A.b\A-B70375.D



674 422

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B70376.D  
 Report Date: 19-Oct-2000 09:09

## STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\7180A.b\A-B70376.D  
 Lab Smp Id: MHHERB  
 Inj Date : 18-OCT-2000 19:24  
 Operator : 01797  
 Smp Info : MHHERB,7180A.b  
 Misc Info : 190-94-4  
 Comment :  
 Method : \\QPITPA02\D\chem\gc1.i\7180A.b\LONGHB.m  
 Meth Date : 19-Oct-2000 09:08 morganw  
 Cal Date : 18-OCT-2000 19:24  
 Als bottle: 5  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.04  
 Processing Host: PITPC085

Inst ID: gc1.i  
 Quant Type: ESTD  
 Cal File: A-B70376.D  
 Calibration Sample, Level: 4  
 Compound Sublist: all.sub

| Compounds           | RT     | EXP RT | DLT RT | RESPONSE | AMOUNTS          |                 |
|---------------------|--------|--------|--------|----------|------------------|-----------------|
|                     |        |        |        |          | CAL-AMT<br>( ng) | ON-COL<br>' ng' |
| 1 DALAPON           | 4.267  | 4.269  | -0.002 | 1187264  | 0.08780          | 0.07806         |
| \$ 2 DCAA           | 11.158 | 11.153 | 0.005  | 4898122  | 0.17000          | 0.1449          |
| 3 DICAMBA           | 11.759 | 11.757 | 0.002  | 2190933  | 0.08510          | 0.07689         |
| 4 MCPP              | 12.200 | 12.199 | 0.001  | 342828   | 17.0000          | 13.74           |
| 5 MCPA              | 13.079 | 13.076 | 0.003  | 482975   | 17.1000          | 12.92           |
| 6 DICHLOROPROP      | 14.223 | 14.220 | 0.003  | 924523   | 0.17000          | 0.1482          |
| 7 2,4-D             | 15.716 | 15.711 | 0.005  | 991590   | 0.17000          | 0.1552          |
| 8 PENTACHLOROPHENOL | 16.144 | 16.142 | 0.002  | 1678985  | 0.02128          | 0.02036         |
| 9 2,4,5-TP(SILVEX)  | 17.806 | 17.803 | 0.003  | 2609979  | 0.04210          | 0.03997         |
| 10 2,4,5-T          | 18.568 | 18.566 | 0.002  | 2949301  | 0.04220          | 0.04155         |
| 11 2,4-DB           | 19.143 | 19.142 | 0.001  | 1695200  | 0.16900          | 0.1626          |
| 12 DINOSEB          | 19.853 | 19.851 | 0.002  | 1691745  | 0.02540          | 0.02456         |

Data File: \NP1P002\chem\col.1\7180A.b\A-B70376.D

Date: 18-OCT-2000 19:24

Client ID:

Sample Info: MHHERB,7180A.b

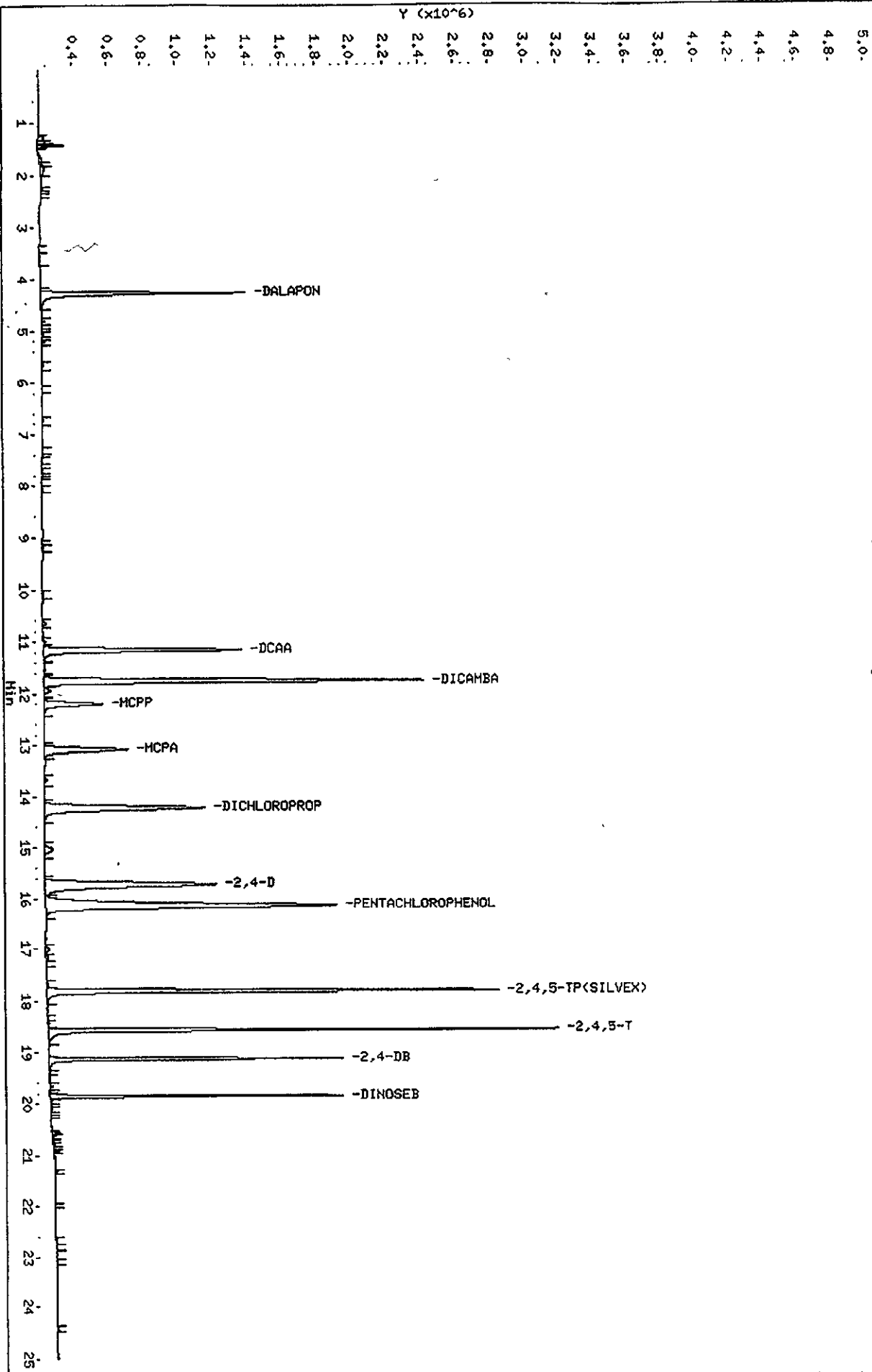
Column phase: DB1701

Instrument: col.1

Operator: 01797

Column diameter: 0.53

\\NP1P002\chem\col.1\7180A.b\A-B70376.D



674 424

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B70377.D  
 Report Date: 19-Oct-2000 09:09

## STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\7180A.b\A-B70377.D  
 Lab Smp Id: HHERB  
 Inj Date : 18-OCT-2000 19:53  
 Operator : 01797  
 Smp Info : HHERB,7180A.b  
 Misc Info : 190-94-5  
 Comment :  
 Method : \\QPITPA02\D\chem\gc1.i\7180A.b\LONGHB.m  
 Meth Date : 19-Oct-2000 09:08 morganw  
 Cal Date : 18-OCT-2000 19:53  
 Als bottle: 6  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.04  
 Processing Host: PITPC085

Inst ID: gc1.i  
 Quant Type: ESTD  
 Cal File: A-B70377.D  
 Calibration Sample, Level: 5  
 Compound Sublist: all.sub

| Compounds           | AMOUNTS |        |        |          |               |              |
|---------------------|---------|--------|--------|----------|---------------|--------------|
|                     | RT      | EXP RT | DLT RT | RESPONSE | CAL-AMT<br>ng | ON-COL<br>ng |
| 1 DALAPON           | 4.269   | 4.269  | 0.000  | 2300520  | 0.17600       | 0.1556       |
| 2 DCAA              | 11.153  | 11.153 | 0.000  | 9052440  | 0.34000       | 0.2797       |
| 3 DICAMBA           | 11.757  | 11.757 | 0.000  | 4249350  | 0.17000       | 0.1529       |
| 4 MCPP              | 12.199  | 12.199 | 0.000  | 606232   | 34.1000       | 25.78        |
| 5 MCPA              | 13.076  | 13.076 | 0.000  | 863457   | 34.0000       | 24.67        |
| 6 DICHLOROPROP      | 14.220  | 14.220 | 0.000  | 1696653  | 0.33900       | 0.2832       |
| 7 2,4-D             | 15.711  | 15.711 | 0.000  | 1864386  | 0.34000       | 0.3004       |
| 8 PENTACHLOROPHENOL | 16.142  | 16.142 | 0.000  | 3351828  | 0.04255       | 0.04101      |
| 9 2,4,5-TP(SILVEX)  | 17.803  | 17.803 | 0.000  | 5001676  | 0.08400       | 0.07797      |
| 10 2,4,5-T          | 18.566  | 18.566 | 0.000  | 5804445  | 0.08440       | 0.08228      |
| 11 2,4-DB           | 19.142  | 19.142 | 0.000  | 3405455  | 0.33800       | 0.3288       |
| 12 DINOSEB          | 19.851  | 19.851 | 0.000  | 3334322  | 0.05080       | 0.04886      |

674

425

Data File: \NPITPA02\Nchem\col.1\7180A.b\A-B70377.D  
Date: 18-OCT-2000 19:53

Client ID:

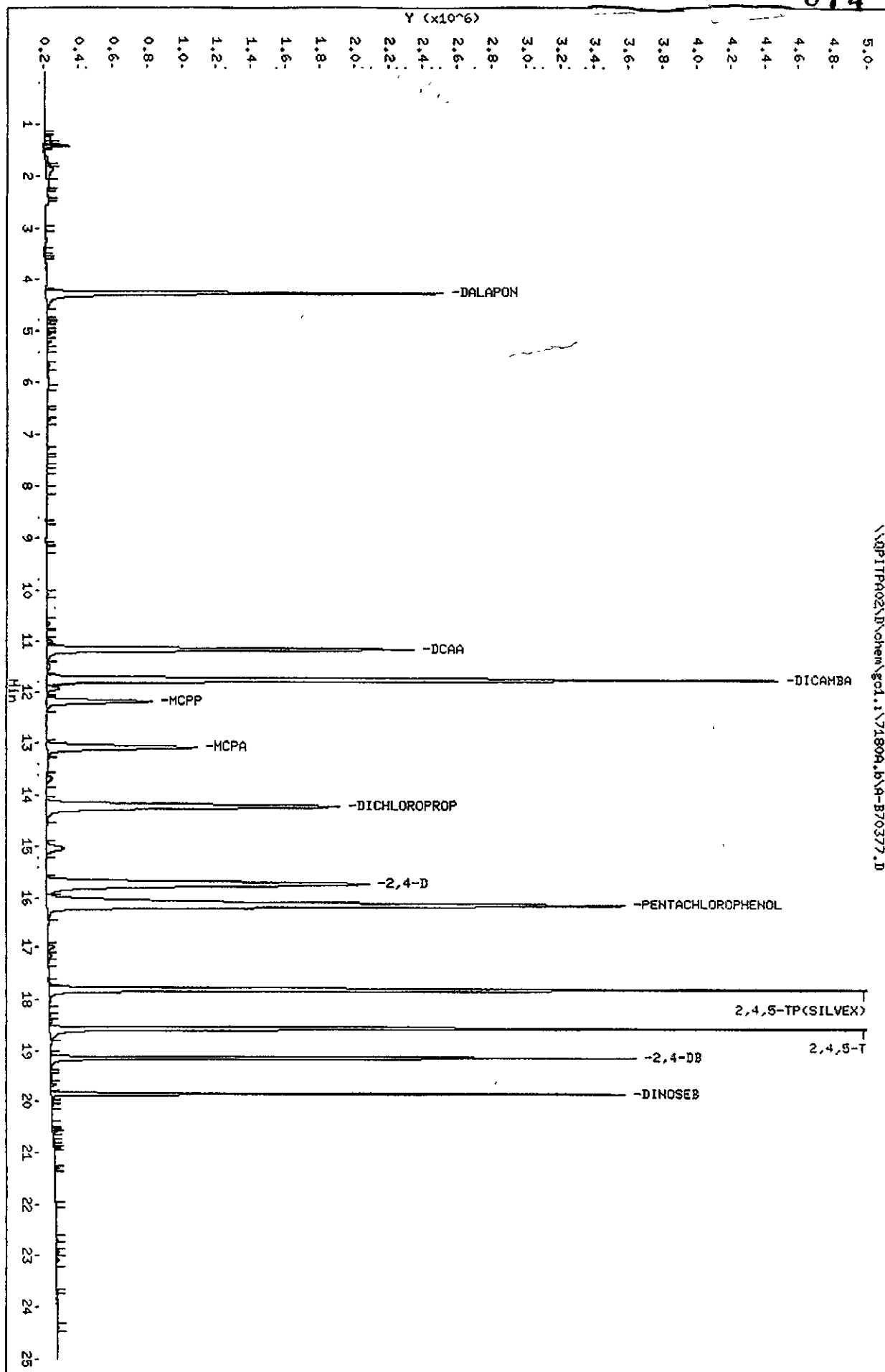
Sample Info: HHERB.7180A.b

Column phase: DB1701

Instrument: col.1

Operator: 01797

Column diameter: 0.53



674 426

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80012.D  
 Report Date: 08-Nov-2000 10:54

STL-Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80012.D  
 Lab Smp Id: MHERB  
 Inj Date : 08-NOV-2000 08:57  
 Operator : 01797  
 Smp Info : MHERB,7180A.b  
 Misc Info : 190-94-3  
 Comment :  
 Method : \\QPITPA02\D\chem\gc1.i\7180A.b\LONGHB.m  
 Meth Date : 08-Nov-2000 10:54 morganw  
 Cal Date : 18-OCT-2000 19:53  
 Als bottle: 2  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.04  
 Processing Host: PITPC085

Inst ID: gc1.i  
 Quant Type: ESTD  
 Cal File: A-B70377.D  
 Continuing Calibration Sample  
 Compound Sublist: all.sub

| Compounds           | RT     | EXP RT | DLT RT | RESPONSE | AMOUNTS          |                 |
|---------------------|--------|--------|--------|----------|------------------|-----------------|
|                     |        |        |        |          | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| 1 DALAPON           | 4.265  | 4.265  | 0.000  | 640403   | 0.04390          | 0.04332         |
| 2 DCAA              | 11.152 | 11.152 | 0.000  | 2778564  | 0.08510          | 0.08586         |
| 3 DICAMBA           | 11.751 | 11.751 | 0.000  | 1195022  | 0.04250          | 0.04299         |
| 4 MCPP              | 12.192 | 12.192 | 0.000  | 221598   | 8.52000          | 9.423           |
| 5 MCPA              | 13.069 | 13.069 | 0.000  | 299644   | 8.56000          | 8.563           |
| 6 DICHLOROPROP      | 14.215 | 14.215 | 0.000  | 514971   | 0.08480          | 0.08596         |
| 7 2,4-D             | 15.715 | 15.715 | 0.000  | 527269   | 0.08510          | 0.08495         |
| 8 PENTACHLOROPHENOL | 16.132 | 16.132 | 0.000  | 876429   | 0.01064          | 0.01072         |
| 9 2,4,5-TP(SILVEX)  | 17.801 | 17.801 | 0.000  | 1393568  | 0.02110          | 0.02172         |
| 10 2,4,5-T          | 18.567 | 18.567 | 0.000  | 1497216  | 0.02110          | 0.02122         |
| 11 2,4-DB           | 19.142 | 19.142 | 0.000  | 894174   | 0.08450          | 0.08634         |
| 12 DINOSBB          | 19.849 | 19.849 | 0.000  | 916479   | 0.01270          | 0.01343         |

674

427

Data File: \\QPITPA02\chem\gcl.1\7180A.b\A-B80012.D

Date : 06-NOV-2000 08:57

Client ID:

Sample Info: HHERB, 7180A.b

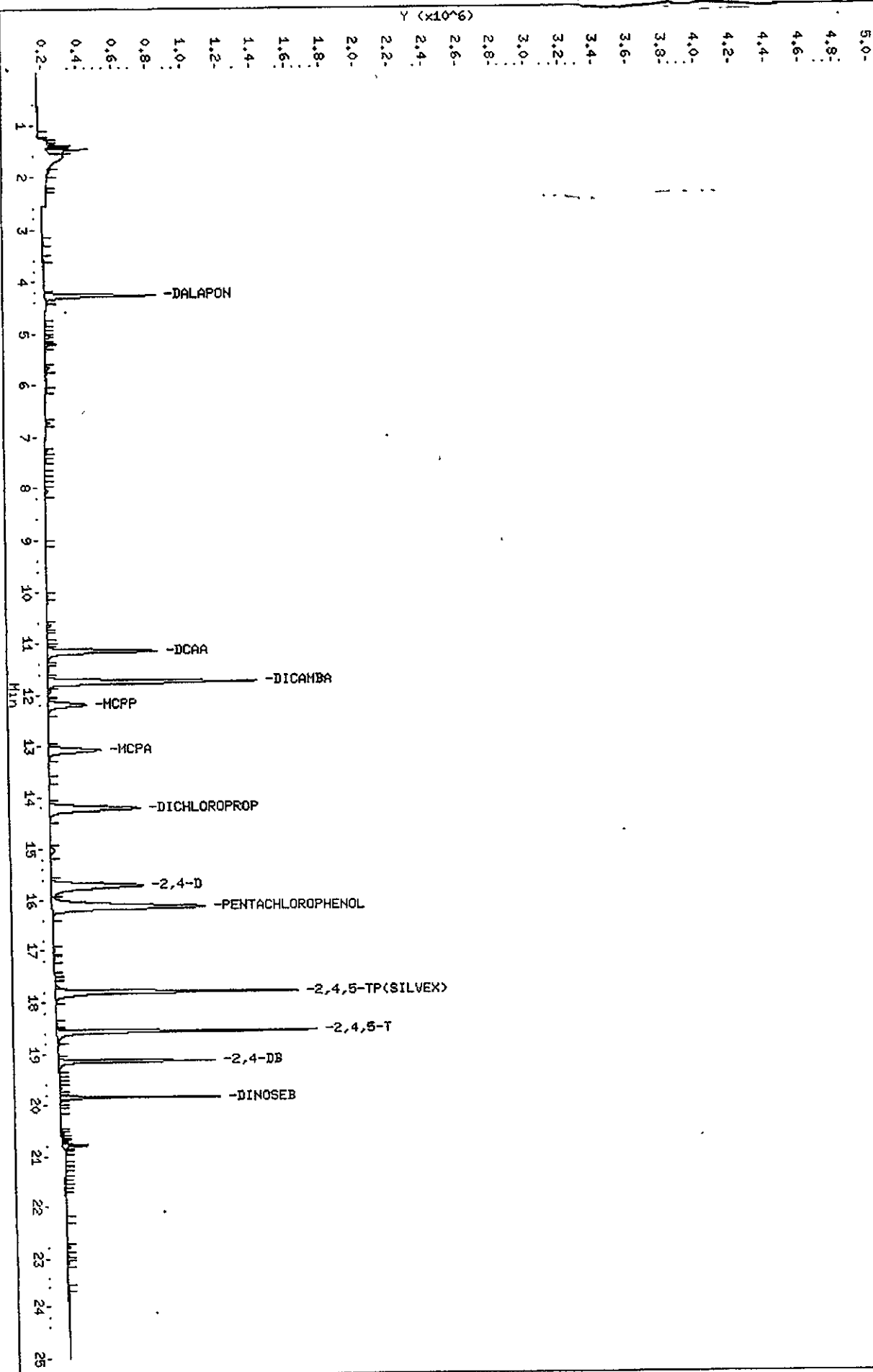
Column phase: DB1701

Instrument: gcl.1

Operator: 01797

Column diameter: 0.53

\\QPITPA02\chem\gcl.1\7180A.b\A-B80012.D





674 428

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80020.D  
 Report Date: 08-Nov-2000 13:59

## STL-Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80020.D  
 Lab Smp Id: MHERB  
 Inj Date : 08-NOV-2000 12:48  
 Operator : 01797  
 Smp Info : MHERB,7180A.b  
 Misc Info : 190-94-3  
 Comment :  
 Method : \\QPITPA02\D\chem\gc1.i\7180A.b\LONGHB.m  
 Meth Date : 08-Nov-2000 13:57 morganw  
 Cal Date : 18-OCT-2000 19:53  
 Als bottle: 10  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.04  
 Processing Host: PITPC085

Inst ID: gc1.i  
 Quant Type: ESTD  
 Cal File: A-B70377.D  
 Continuing Calibration Sample  
 Compound Sublist: all.sub

| Compounds           | AMOUNTS |        |        |          |                  |                 |
|---------------------|---------|--------|--------|----------|------------------|-----------------|
|                     | RT      | EXP RT | DLT RT | RESPONSE | CAL-AMT<br>( ng) | ON-COL<br>( ng) |
| =====               | ==      | =====  | =====  | =====    | =====            | =====           |
| 1 DALAPON           | 4.267   | 4.265  | 0.002  | 682479   | 0.04390          | 0.04617         |
| \$ 2 DCAA           | 11.152  | 11.152 | 0.000  | 2927738  | 0.08510          | 0.09047         |
| 3 DICAMBA           | 11.752  | 11.751 | 0.001  | 1274336  | 0.04250          | 0.04585         |
| 4 MCPP              | 12.193  | 12.192 | 0.001  | 221105   | 8.52000          | 9.402           |
| 5 MCPA              | 13.071  | 13.069 | 0.002  | 305329   | 8.56000          | 8.725           |
| 6 DICHLOROPROP      | 14.217  | 14.215 | 0.002  | 545695   | 0.08480          | 0.09108         |
| 7 2,4-D             | 15.711  | 15.715 | -0.004 | 570842   | 0.08510          | 0.09197         |
| 8 PENTACHLOROPHENOL | 16.136  | 16.132 | 0.004  | 929916   | 0.01064          | 0.01138         |
| 9 2,4,5-TP(SILVEX)  | 17.801  | 17.801 | 0.000  | 1470751  | 0.02110          | 0.02293         |
| 10 2,4,5-T          | 18.566  | 18.567 | -0.001 | 1630512  | 0.02110          | 0.02311         |
| 11 2,4-DB           | 19.141  | 19.142 | -0.001 | 945656   | 0.08450          | 0.09132         |
| 12 DINOSEB          | 19.848  | 19.849 | -0.001 | 913809   | 0.01270          | 0.01339         |

674

429

Data File: \\QPI1TPA02\N\chem\ec1.1\7180A.b\A-B80020.D

Date: 08-NOV-2000 12:48

Client ID:

Sample Info: FHERB,7180A.b

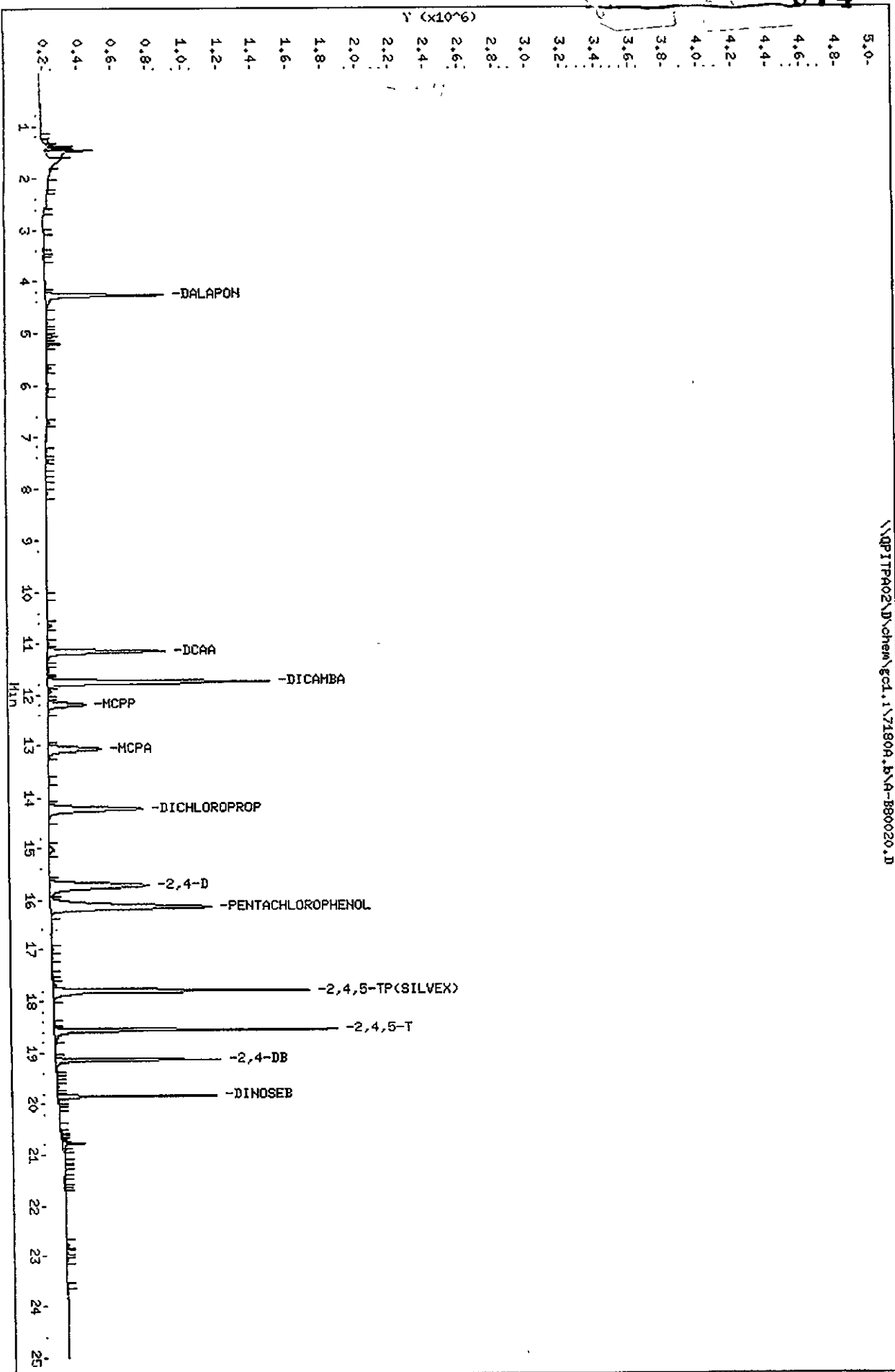
Column phase: DB1701

Instrument: ec1.i

Operator: 01797

Column diameter: 0.53

\\QPI1TPA02\N\chem\ec1.1\7180A.b\A-B80020.D



674 430

**HERBICIDE  
QC DATA**

UXB INTERNATIONAL  
METHOD BLANK COMPOUNDS

674 431

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COK060000 597

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 10/31/00

Work Order: DPFF01AA

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/08/00

Moisture %: NA

QC Batch: 0311597

Client Sample Id: INTRA-LAB BLANK

| CAS NO. | COMPOUND          | CONCENTRATION UNITS: |   |
|---------|-------------------|----------------------|---|
|         |                   | (ug/L or ug/kg) mg/L | Q |
| 94-75-7 | 2,4-D             | 0.040                | U |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.010                | U |

FORM I

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80019.D  
 Report Date: 08-Nov-2000 12:57

## STL-Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80019.D  
 Lab Smp Id: DPFF01AA Client Smp ID: BLK  
 Inj Date : 08-NOV-2000 12:19  
 Operator : 01797 Inst ID: gc1.i  
 Smp Info : DPFF01AA,7180A.b  
 Misc Info : 310200BLK  
 Comment :  
 Method : \\QPITPA02\D\chem\gc1.i\7180A.b\LONGHB.m  
 Meth Date : 08-Nov-2000 10:54 morganw Quant Type: ESTD  
 Cal Date : 18-OCT-2000 19:53 Cal File: A-B70377.D  
 Als bottle: 9 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: all.sub  
 Target Version: 4.04  
 Processing Host: PITPC085

Concentration Formula: Amt \* DF \* 20\*Vt/Vo/Vi

| Name | Value   | Description                     |
|------|---------|---------------------------------|
| DF   | 1.000   | Dilution Factor                 |
| Vt   | 10.000  | Volume of final extract (uL)    |
| Vo   | 100.000 | Volume of sample extracted (mL) |
| Vi   | 1.000   | Volume injected                 |

| Compounds           | RT     | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS     |                  |
|---------------------|--------|--------|--------|----------|--------------------|------------------|
|                     |        |        |        |          | ON-COLUMN<br>( ng) | FINAL<br>( ug/L) |
| 1 DALAPON           |        |        |        |          |                    |                  |
| 2 DCAA              | 11.152 | 11.152 | 0.000  | 1349066  | 0.04169            | 0.08337(a)       |
| 3 DICAMBA           |        |        |        |          |                    |                  |
| 4 MCPP              |        |        |        |          |                    |                  |
| 5 MCPA              |        |        |        |          |                    |                  |
| 6 DICHLOROPROP      |        |        |        |          |                    |                  |
| 7 2,4-D             |        |        |        |          |                    |                  |
| 8 PENTACHLOROPHENOL |        |        |        |          |                    |                  |
| 9 2,4,5-TP(SILVEX)  | 17.867 | 17.801 | 0.066  | 89122    | 0.00139            | 0.002779(a)      |
| 10 2,4,5-T          |        |        |        |          |                    |                  |
| 11 2,4-DB           |        |        |        |          |                    |                  |
| 12 DINOSEB          |        |        |        |          |                    |                  |

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80019.D  
Report Date: 08-Nov-2000 12:57

674

433

#### QC Flag Legend

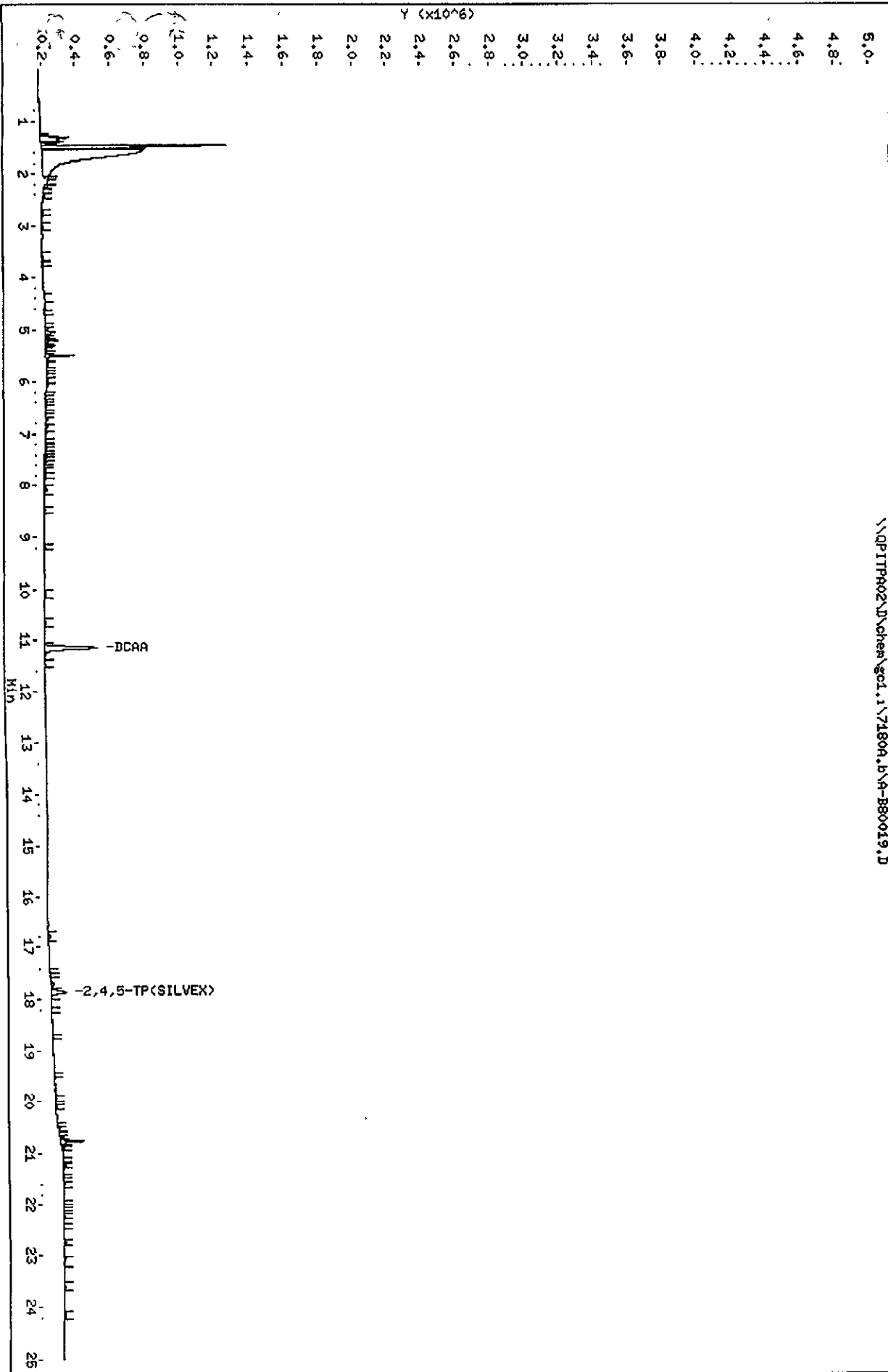
a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).

674 434

Data File: \\GPITPA02\Nchem\gc1.1\7180A.b\A-B80019.D  
Date : 08-NOV-2000 12:19  
Client ID: BLK  
Sample Info: DPF01A0,7180A.b  
Volume Injected (uL): 1.0  
Column phase: DB1701

Instrument: gc1.1  
Operator: 01797  
Column diameter: 0.53

\\GPITPA02\Nchem\gc1.1\7180A.b\A-B80019.D



UXB INTERNATIONAL  
CHECK SAMPLE COMPOUNDS

674 435

Lab Name: Severn Trent Laboratories, Inc.      SDG Number:

Matrix: (soil/water) SOLID  
Method: SW846 8151A  
Herbicides (8151A)

Lab Sample ID: COK060000 597

Sample WT/Vol: 100 / mL  
Work Order: DPFF01AC  
Dilution factor: 1  
Moisture %: NA

Date Received: 10/31/00  
Date Extracted: 11/06/00  
Date Analyzed: 11/08/00

QC Batch: 0311597

Client Sample Id: CHECK SAMPLE

| CAS NO. | COMPOUND          | CONCENTRATION UNITS: |   |
|---------|-------------------|----------------------|---|
|         |                   | (ug/L or ug/kg) mg/L | Q |
| 94-75-7 | 2,4-D             | 0.107                |   |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.0287               |   |

FORM I



674 436

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80018.D  
 Report Date: 08-Nov-2000 12:27

## STL-Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80018.D  
 Lab Smp Id: DPFF01AC Client Smp ID: LCS  
 Inj Date : 08-NOV-2000 11:50  
 Operator : 01797 Inst ID: gc1.i  
 Smp Info : DPFF01AC,7180A.b  
 Misc Info : 310200LCS  
 Comment :  
 Method : \\QPITPA02\D\chem\gc1.i\7180A.b\LONGHB.m  
 Meth Date : 08-Nov-2000 10:54 morganw Quant Type: ESTD  
 Cal Date : 18-OCT-2000 19:53 Cal File: A-B70377.D  
 Als bottle: 8 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: all.sub  
 Target Version: 4.04  
 Processing Host: PITPC085

Concentration Formula: Amt \* DF \* 20\*Vt/Vo/Vi

| Name | Value   | Description                     |
|------|---------|---------------------------------|
| DF   | 1.000   | Dilution Factor                 |
| Vt   | 10.000  | Volume of final extract (uL)    |
| Vo   | 100.000 | Volume of sample extracted (mL) |
| Vi   | 1.000   | Volume injected                 |

| Compounds           | RT     | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS     |                  |
|---------------------|--------|--------|--------|----------|--------------------|------------------|
|                     |        |        |        |          | ON-COLUMN<br>( ng) | FINAL<br>( ug/L) |
| =====               | ==     | =====  | =====  | =====    | =====              | =====            |
| 1 DALAPON           | 4.266  | 4.265  | 0.001  | 403386   | 0.02729            | 0.05458 (aR)     |
| \$ 2 DCAA           | 11.149 | 11.152 | -0.003 | 1280903  | 0.03958            | 0.07916 (a)      |
| 3 DICAMBA           | 11.749 | 11.751 | -0.002 | 828781   | 0.02982            | 0.05963 (a)      |
| 4 MCPP              | 12.191 | 12.192 | -0.001 | 160463   | 6 82310            | 13.65            |
| 5 MCPA              | 13.068 | 13.069 | -0.001 | 214524   | 6 13041            | 12.26            |
| 6 DICHLOROPROP      | 14.214 | 14.215 | -0.001 | 348139   | 0 05811            | 0 1162 (a)       |
| 7 2,4-D             | 15.710 | 15.715 | -0.005 | 330716   | 0 05328            | 0.1066 (aR)      |
| 8 PENTACHLOROPHENOL | 16.135 | 16.132 | 0.003  | 602269   | 0 00737            | 0.01474 (a)      |
| 9 2,4,5-TP (SILVEX) | 17.800 | 17.801 | -0.001 | 919314   | 0 01433            | 0.02866 (aR)     |
| 10 2,4,5-T          | 18.565 | 18.567 | -0.002 | 972097   | 0.01378            | 0.02756 (aR)     |
| 11 2,4-DB           | 19.141 | 19.142 | -0.001 | 544960   | 0.05262            | 0 1052 (a)       |
| 12 DINOSEB          | 19.848 | 19.849 | -0.001 | 37797    | <0 0               | 0.001108 (a)     |

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80018.D  
Report Date: 08-Nov-2000 12:27

674. 437

QC Flag Legend

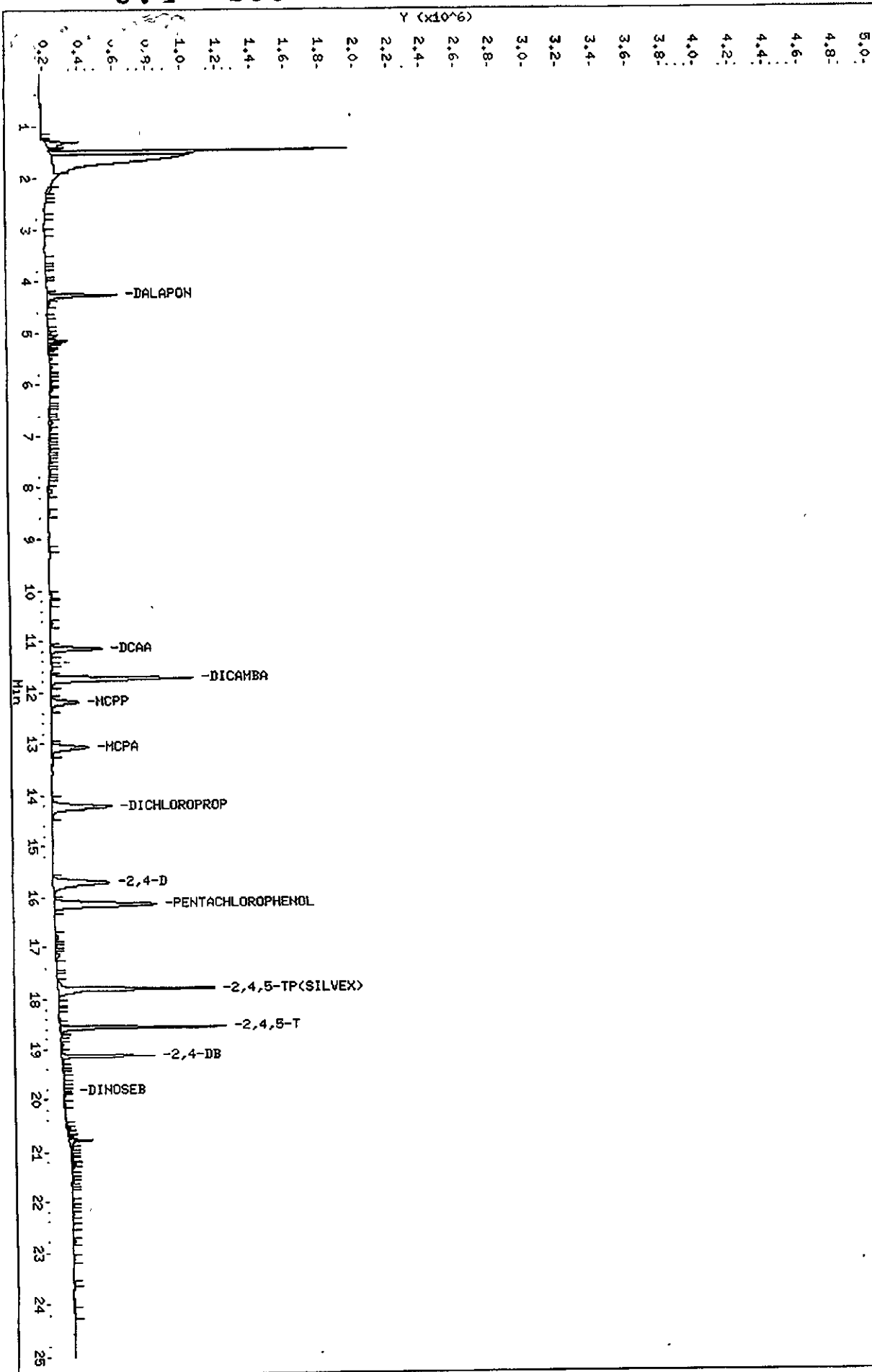
- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

674 438

Data File: \\NPITPA02\chem\gc1.1\71804.b\A-B80018.D  
Date: 08-NOV-2000 11:50  
Client ID: LCS  
Sample Info: DPF01AC,71804.b  
Volume Injected (ul): 1.0  
Column phase: DB1701

Instrument: gc1.1  
Operator: 01797  
Column diameter: 0.53

\\NPITPA02\chem\gc1.1\71804.b\A-B80018.D



UXB INTERNATIONAL  
MATRIX SPIKE COMPOUNDS

674

439

Lab Name: Severn Trent Laboratories, Inc.      SDG Number:

Matrix: (soil/water) SOLID  
Method: SW846 8151A  
Herbicides (8151A)

Lab Sample ID: C0J310200 001

Sample WT/Vol: 100 / mL  
Work Order: DN4P61CL  
Dilution factor: 1  
Moisture %: 16

Date Received: 10/31/00  
Date Extracted: 11/06/00  
Date Analyzed: 11/08/00

QC Batch: 0311597

Client Sample Id: DF/24-A/0304/CVS/008

| CAS NO. | COMPOUND          | CONCENTRATION UNITS: |   |
|---------|-------------------|----------------------|---|
|         |                   | (ug/L or ug/kg) mg/L | Q |
| 94-75-7 | 2,4-D             | 0.118                |   |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.0304               |   |

FORM I

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80014.D  
 Report Date: 08-Nov-2000 11:03

## STL-Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80014.D  
 Lab Smp Id: DN4P61CL Client Smp ID: DF/24-A/0304/CVS/MS  
 Inj Date : 08-NOV-2000 09:55  
 Operator : 01797 Inst ID: gc1.i  
 Smp Info : DN4P61CL, 7180A.b  
 Misc Info : 310200001MS  
 Comment :  
 Method : \\QPITPA02\D\chem\gc1.i\7180A.b\LONGHB.m  
 Meth Date : 08-Nov-2000 10:54 morgaw Quant Type: ESTD  
 Cal Date : 18-OCT-2000 19:53 Cal File: A-B70377.D  
 Als bottle: 4 QC Sample: MS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: all.sub  
 Target Version: 4.04  
 Processing Host: PITPC085

Concentration Formula: Amt \* DF \* 20\*Vt/Vo/Vi

| Name | Value   | Description                     |
|------|---------|---------------------------------|
| DF   | 1.000   | Dilution Factor                 |
| Vt   | 10.000  | Volume of final extract (uL)    |
| Vo   | 100.000 | Volume of sample extracted (mL) |
| Vi   | 1.000   | Volume injected                 |

| Compounds           | RT     | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS     |                  |
|---------------------|--------|--------|--------|----------|--------------------|------------------|
|                     |        |        |        |          | ON-COLUMN<br>( ng) | FINAL<br>( ug/L) |
| 1 DALAPON           | 4.265  | 4.265  | 0.000  | 360040   | 0.02436            | 0.04872 (aR)     |
| \$ 2 DCAA           | 11.149 | 11.152 | -0.003 | 1144581  | 0.03537            | 0.07074 (a)      |
| 3 DICAMBA           | 11.748 | 11.751 | -0.003 | 859623   | 0.03093            | 0.06185 (a)      |
| 4 MCPP              | 12.190 | 12.192 | -0.002 | 177221   | 7.53568            | 15.07            |
| 5 MCPA              | 13.067 | 13.069 | -0.002 | 229078   | 6.54632            | 13.09            |
| 6 DICHLOROPROP      | 14.210 | 14.215 | -0.005 | 369778   | 0.06172            | 0.1234 (a)       |
| 7 2,4-D             | 15.706 | 15.715 | -0.009 | 367536   | 0.05921            | 0.1184 (aR)      |
| 8 PENTACHLOROPHENOL | 16.135 | 16.132 | 0.003  | 259303   | 0.00317            | 0.006346 (a)     |
| 9 2,4,5-TP (SILVEX) | 17.798 | 17.801 | -0.003 | 976188   | 0.01522            | 0.03044 (aR)     |
| 10 2,4,5-T          | 18.564 | 18.567 | -0.003 | 1094440  | 0.01551            | 0.03103 (aR)     |
| 11 2,4-DB           | 19.141 | 19.142 | -0.001 | 318758   | 0.03078            | 0.06156 (a)      |
| 12 DINOSEB          | 19.848 | 19.849 | -0.001 | 21524    | <0.0               | 0.0006308 (a)    |

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80014.D  
Report Date: 08-Nov-2000 11:03

674 441

#### QC Flag Legend

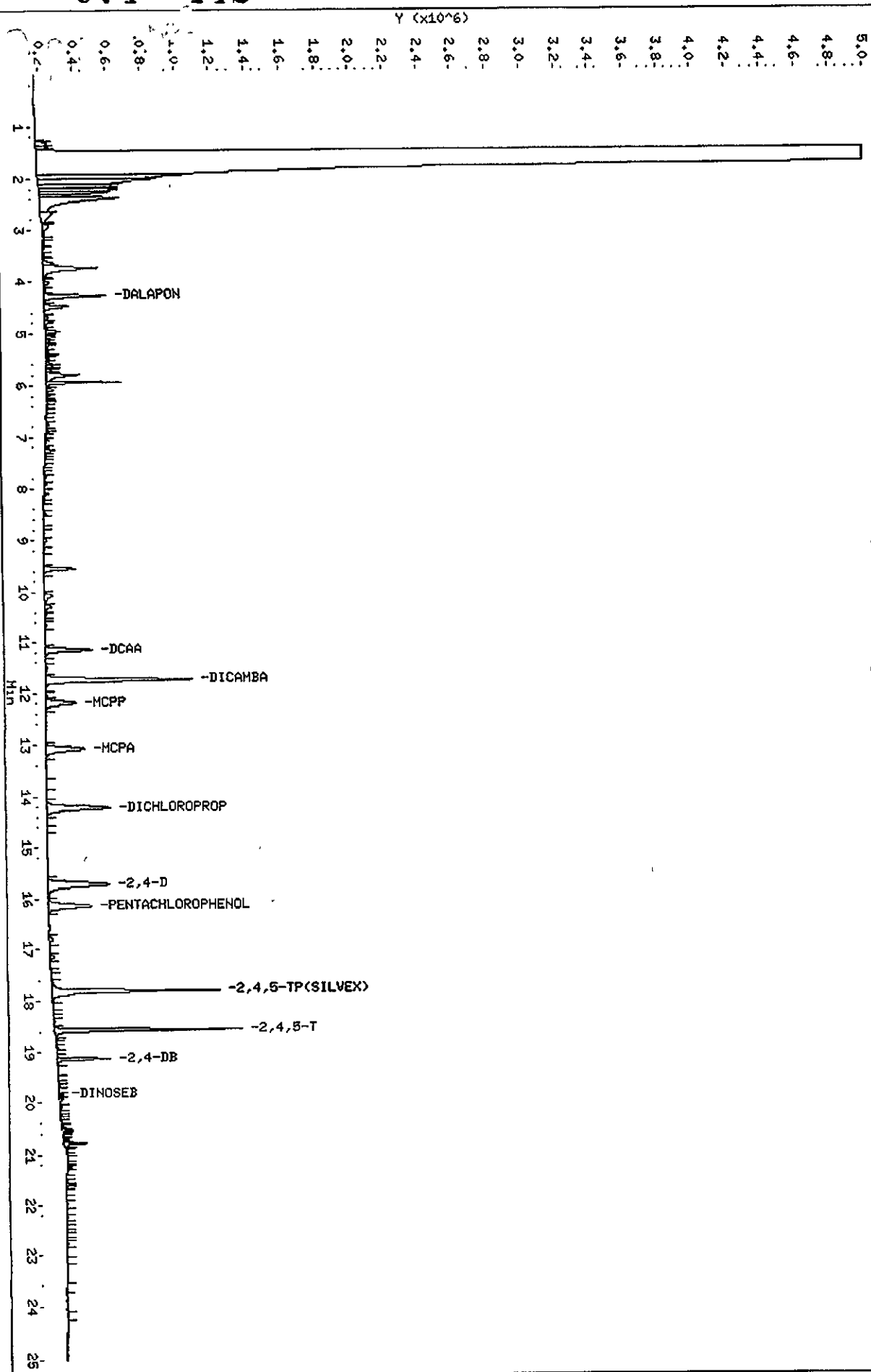
- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

674 442

Data File: \\QPITPA02\N\chem\gc1.1\7180A.b\A-B80014.D  
Date : 08-NOV-2000 09:55  
Client ID: DF/24-R/0304/CVS/HS  
Sample Info: DN4P6CL,7180A.b  
Volume Injected (uL): 1.0  
Column phase: DB1701

Instrument: gc1.1  
Operator: 01797  
Column diameter: 0.53

\\QPITPA02\N\chem\gc1.1\7180A.b\A-B80014.D



UXB INTERNATIONAL  
MATRIX SPIKE DUPLICATE COMPOUNDS

674 443

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0J310200 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 10/31/00

Work Order: DN4P61CM

Date Extracted: 11/06/00

Dilution factor: 1

Date Analyzed: 11/08/00

Moisture %: 16

QC Batch: 0311597

Client Sample Id: DF/24-A/0304/CVS/008

|         |                   | CONCENTRATION UNITS: |   |
|---------|-------------------|----------------------|---|
| CAS NO. | COMPOUND          | (ug/L or ug/kg) mg/L | Q |
| 94-75-7 | 2,4-D             | 0.125                |   |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.0319               |   |

FORM I



674 444

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80015.D  
 Report Date: 08-Nov-2000 11:04

STL-Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80015.D  
 Lab Smp Id: DN4P61CM Client Smp ID: DF/24-A/0304/CVSMSD  
 Inj Date : 08-NOV-2000 10:24  
 Operator : 01797 Inst ID: gc1.i  
 Smp Info : DN4P61CM, 7180A.b  
 Misc Info : 310200001MSD  
 Comment :  
 Method : \\QPITPA02\D\chem\gc1.i\7180A.b\LONGHB.m  
 Meth Date : 08-Nov-2000 10:54 morganw Quant Type: ESTD  
 Cal Date : 18-OCT-2000 19:53 Cal File: A-B70377.D  
 Als bottle: 5 QC Sample: MSD  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: all.sub  
 Target Version: 4.04  
 Processing Host: PITPC085

Concentration Formula: Amt \* DF \* 20\*Vt/Vo/Vi

| Name | Value   | Description                     |
|------|---------|---------------------------------|
| DF   | 1.000   | Dilution Factor                 |
| Vt   | 10.000  | Volume of final extract (uL)    |
| Vo   | 100.000 | Volume of sample extracted (mL) |
| Vi   | 1.000   | Volume injected                 |

| Compounds           | RT     | EXP RT | DLT RT | RESPONSE | CONCENTRATIONS     |                  |
|---------------------|--------|--------|--------|----------|--------------------|------------------|
|                     |        |        |        |          | ON-COLUMN<br>( ng) | FINAL<br>( ug/L) |
| 1 DALAPON           | 4.264  | 4.265  | -0.001 | 358834   | 0.02428            | 0.04855 (aR)     |
| 2 DCAA              | 11.150 | 11.152 | -0.002 | 1035638  | 0.03200            | 0.06400 (a)      |
| 3 DICAMBA           | 11.749 | 11.751 | -0.002 | 916222   | 0.03296            | 0.06592 (a)      |
| 4 MCPP              | 12.192 | 12.192 | 0.000  | 184351   | 7.83885            | 15.68            |
| 5 MCPA              | 13.070 | 13.069 | 0.001  | 237655   | 6.79142            | 13.58            |
| 6 DICHLOROPROP      | 14.215 | 14.215 | 0.000  | 388668   | 0.06487            | 0.1297 (a)       |
| 7 2,4-D             | 15.705 | 15.715 | -0.010 | 386701   | 0.06230            | 0.1246 (aR)      |
| 8 PENTACHLOROPHENOL | 16.135 | 16.132 | 0.003  | 178564   | 0.00218            | 0.004370 (a)     |
| 9 2,4,5-TP (SILVEX) | 17.798 | 17.801 | -0.003 | 1022377  | 0.01594            | 0.03188 (aR)     |
| 10 2,4,5-T          | 18.563 | 18.567 | -0.004 | 1178421  | 0.01671            | 0.03341 (aR)     |
| 11 2,4-DB           | 19.142 | 19.142 | 0.000  | 257432   | 0.02486            | 0.04972 (a)      |
| 12 DINOSEB          | 19.850 | 19.849 | 0.001  | 11817    | <0.0003463         | 0.0003463 (a)    |

Data File: \\QPITPA02\D\chem\gc1.i\7180A.b\A-B80015.D  
Report Date: 08-Nov-2000 11:04

674 445

#### QC Flag Legend

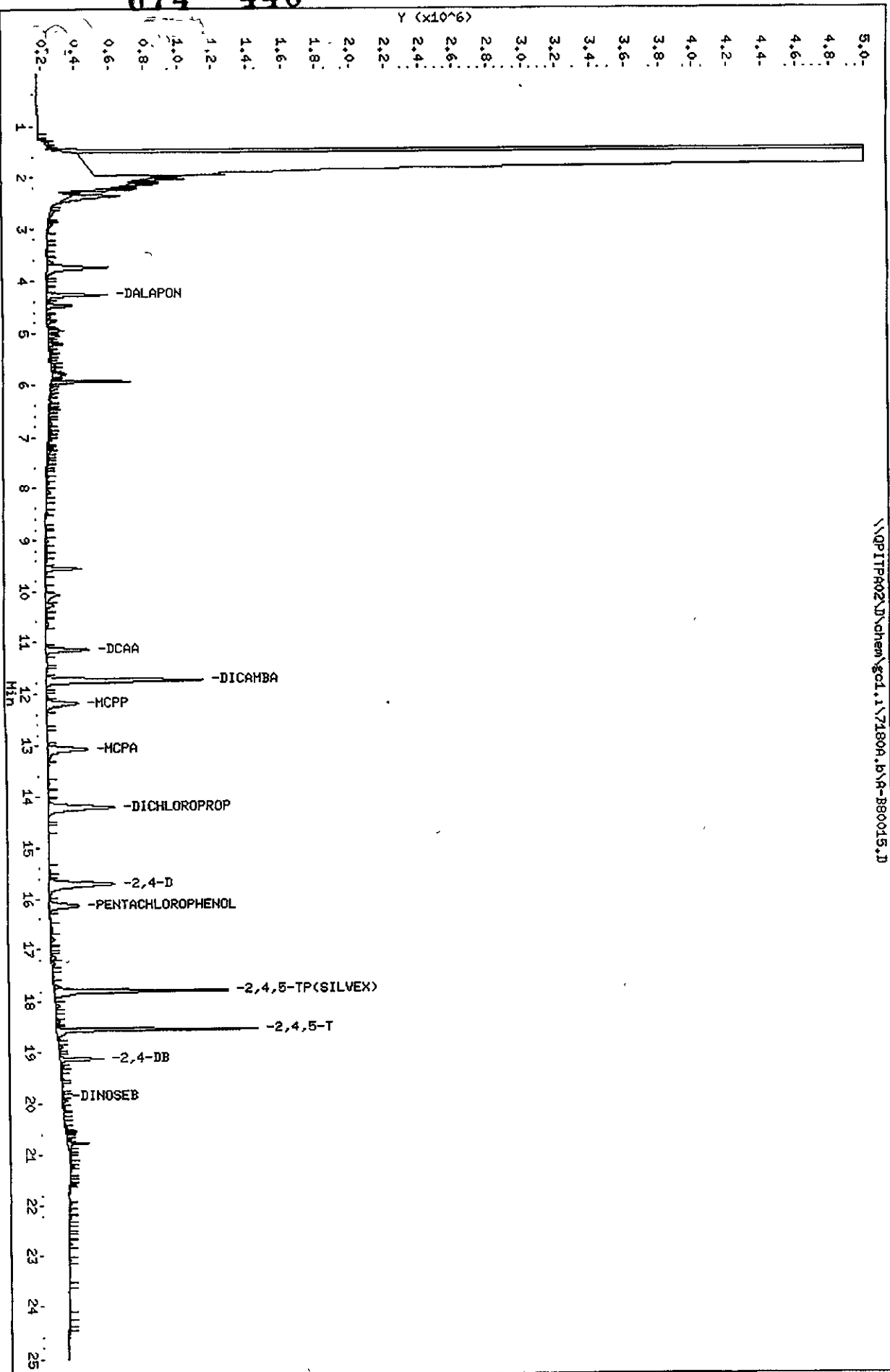
- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

674 446

Data File: \\QPIITPA02\chem\gcl.1\7180A.b\A-B80015.D  
 Date: 08-NOV-2000 10:24  
 Client ID: DF/24-R/0304/CVSHSD  
 Sample Info: DNAP64CH, 7180A.b  
 Volume Injected (uL): 1.0  
 Column phase: DB1701

Instrument: gcl.1  
 Operator: 01797  
 Column diameter: 0.53

\\QPIITPA02\chem\gcl.1\7180A.b\A-B80015.D



674 447

**HERBICIDE  
MISCELLANEOUS**



## Sequence Table (Front Injector):

674 449

## Vial Information Part:

| Line | Vial | Vial Information   |
|------|------|--------------------|
| ==== | ==== | =====              |
| 1    | 1    | 8151 HERB ANALYSIS |
| 2    | 2    | 190-94-1           |
| 3    | 3    | 190-94-2           |
| 4    | 4    | 190-94-3           |
| 5    | 5    | 190-94-4           |
| 6    | 6    | 190-94-5           |

Created: 10-18-00 uwm B

## Method and Injection Info Part:

| Line | Vial | SampleName    | Method | Inj | SampleType | InjVolume | DataFile |
|------|------|---------------|--------|-----|------------|-----------|----------|
| ==== | ==== | =====         | =====  | === | =====      | =====     | =====    |
| 1    | 1    | HEXANE        | HERB   | 1   | Sample     |           |          |
| 2    | 2    | LHERB,7180.b  | HERB   | 1   | Sample     |           |          |
| 3    | 3    | MLHERB,7180.b | HERB   | 1   | Sample     |           |          |
| 4    | 4    | MHERB,7180.b  | HERB   | 1   | Sample     |           |          |
| 5    | 5    | MHHERB,7180.b | HERB   | 1   | Sample     |           |          |
| 6    | 6    | HHHERB,7180.b | HERB   | 1   | Sample     |           |          |

## Sequence Table (Back Injector):

## Vial Information Part:

| Line | Vial | Vial Information   |
|------|------|--------------------|
| ==== | ==== | =====              |
| 1    | 100  | 8151 HERB ANALYSIS |
| 2    | 1    | 8151 HERB ANALYSIS |
| 3    | 2    | 190-94-1 373       |
| 4    | 3    | 190-94-2 374       |
| 5    | 4    | 190-94-3 375       |
| 6    | 5    | 190-94-4 376       |
| 7    | 6    | 190-94-5 377       |

## Method and Injection Info Part:

674 450

| Line | Vial | SampleName     | Method | Inj | SampleType | InjVolume | DataFile |
|------|------|----------------|--------|-----|------------|-----------|----------|
| ---- | ---- | -----          | -----  | --- | -----      | -----     | -----    |
| 1    | 100  | HEXANE         | HERBA  | 1   | Sample     |           |          |
| 2    | 1    | HEXANE         | HERBA  | 1   | Sample     |           |          |
| 3    | 2    | LHERB,7180A.b  | HERBA  | 1   | Sample     |           |          |
| 4    | 3    | MLHERB,7180A.b | HERBA  | 1   | Sample     |           |          |
| 5    | 4    | MHERB,7180A.b  | HERBA  | 1   | Sample     |           |          |
| 6    | 5    | MHHERB,7180A.b | HERBA  | 1   | Sample     |           |          |
| 7    | 6    | HHHERB,7180A.b | HERBA  | 1   | Sample     |           |          |

## 2 Sequence Table (Front Injector):

No entries - empty table!

## Sequence Table (Back Injector):

## Vial Information Part:

| Line | Vial | Vial Information        |
|------|------|-------------------------|
| ==== | ==== | =====                   |
| 1    | 1    | 8151 HERB ANALYSIS      |
| 2    | 2    | 190-94-3 12             |
| 3    | 3    | 310200001 13            |
| 4    | 4    | 310200001MS 14          |
| 5    | 5    | 310200001MSD 15         |
| 6    | 6    | 310200002 16            |
| 7    | 7    | 310200003 17            |
| 8    | 8    | 310200LCS 18            |
| 9    | 9    | 310200BLK 19            |
| 10   | 10   | 190-94-3 20             |
| 11   | 11   | 310113001 21            |
| 12   | 12   | 310113BLK 22            |
| 13   | 13   | <del>010196002</del> 23 |
| 14   | 14   | B 010196003 24          |
| 15   | 15   | B 010196004 25          |
| 16   | 16   | 010196006 26            |
| 17   | 17   | A 010196011 27          |
| 18   | 18   | 190-94-3 28             |

created: 11-8-00 wmm B  
✓ DE  
11-13-00

## Method and Injection Info Part:

| Line | Vial | SampleName        | Method | Inj | SampleType | InjVolume | DataFile |
|------|------|-------------------|--------|-----|------------|-----------|----------|
| ==== | ==== | =====             | =====  | === | =====      | =====     | =====    |
| 1    | 1    | HEXANE            | HERBA  | 1   | Sample     |           |          |
| 2    | 2    | MHERB, 7180A.b    | HERBA  | 1   | Sample     |           |          |
| 3    | 3    | DN4P61AF, 7180A.b | HERBA  | 1   | Sample     |           |          |
| 4    | 4    | DN4P61CL, 7180A.b | HERBA  | 1   | Sample     |           |          |



| Line | Vial | SampleName        | Method | Inj | SampleType | InjVolume | DataFile |
|------|------|-------------------|--------|-----|------------|-----------|----------|
| 5    | 5    | DN4P61CM, 7180A.b | HERBA  | 1   | Sample     |           |          |
| 6    | 6    | DN4QJ1AF, 7180A.b | HERBA  | 1   | Sample     |           |          |
| 7    | 7    | DN4QK1AF, 7180A.b | HERBA  | 1   | Sample     |           |          |
| 8    | 8    | DPFF01AC, 7180A.b | HERBA  | 1   | Sample     |           |          |
| 9    | 9    | DPFF01AA, 7180A.b | HERBA  | 1   | Sample     |           |          |
| 10   | 10   | MHERB, 7180A.b    | HERBA  | 1   | Sample     |           |          |
| 11   | 11   | DN3WK1CD, 7180A.b | HERBA  | 1   | Sample     |           |          |
| 12   | 12   | DPCRR1AA, 7180A.b | HERBA  | 1   | Sample     |           |          |
| 13   | 13   | DN6RL1AA, 7180A.b | HERBA  | 1   | Sample     |           |          |
| 14   | 14   | DN6RN1AA, 7180A.b | HERBA  | 1   | Sample     |           |          |
| 15   | 15   | DN6RQ1AA, 7180A.b | HERBA  | 1   | Sample     |           |          |
| 16   | 16   | DN6R31AA, 7180A.b | HERBA  | 1   | Sample     |           |          |
| 17   | 17   | DN6TE1AA, 7180A.b | HERBA  | 1   | Sample     |           |          |
| 18   | 18   | MHERB, 7180A.b    | HERBA  | 1   | Sample     |           |          |

REQUESTED BY: YUSHINSC

674 453

METHOD: QS Herbicides (8151A)

| <u>STORAGE LOCATION</u> | <u>WORK ORDER #</u> | <u>PICKED</u><br><u>CNTR#</u> | <u>CONTROL #</u> | <u>CLIENT #</u> | <u>ANALYSIS</u> | <u>LOTID</u> | <u>SMP#</u> | <u>SFX</u> | <u>MATRIX</u><br><u>DESCRIPTION</u> | <u>QTY</u><br><u>RCVD</u> | <u>QTY</u><br><u>REQD</u> |
|-------------------------|---------------------|-------------------------------|------------------|-----------------|-----------------|--------------|-------------|------------|-------------------------------------|---------------------------|---------------------------|
| 12D CLP1                | DN4P6-1-AF          | — — —                         | 281189           | 399411          | A-64-QS         | COJ310200    | 001         |            | SOLID                               | 0                         | 3 1                       |
| 12D CLP1                | DN4QJ-1-AF          | — — —                         | 281190           | 399411          | A-64-QS         | COJ310200    | 002         |            | SOLID                               | 0                         | 3 1                       |
| 12D CLP1                | DN4QK-1-AF          | — — —                         | 281191           | 399411          | A-64-QS         | COJ310200    | 003         |            | SOLID                               | 0                         | 3 1                       |

RELINQUISHED BY

*P. Yushinski*  
*P. Yushinski*

RECEIVED BY

*P. Yushinski*  
*P. Yushinski*

DATE/TIME

*11-6-00 154*  
*11-6-00 210*

\*\*\*\*\* END OF REPORT \*\*\*\*\*

674 454

## METALS DATA

**STL-Pittsburgh****Cover Page - Inorganic Analysis Data Package**

| <u>Client ID</u>             | <u>Lab Sample ID:</u> |
|------------------------------|-----------------------|
| <u>DF/24-A/0304/CVS/008</u>  | <u>DN4P6</u>          |
| <u>DF/24-A/0304/CVS/008D</u> | <u>DN4P6D</u>         |
| <u>DF/24-A/0304/CVS/008S</u> | <u>DN4P6S</u>         |
| <u>DF/24-A/0304/CVS/010</u>  | <u>DN4QJ</u>          |
| <u>DF/24-A/0304/CVS/012</u>  | <u>DN4QK</u>          |

**Comments:** UXB DUNN FIELD  
C0J310200  
6010B

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than conditions detailed above. Release of the data combined in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: \_\_\_\_\_ Name: \_\_\_\_\_  
Date: \_\_\_\_\_ Title: \_\_\_\_\_

|                                                  |
|--------------------------------------------------|
| REVIEWED BY: <u>TRB</u><br>DATE: <u>11-10-00</u> |
|--------------------------------------------------|

674 456

METALS  
RESULTS

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: DN4P6 Client ID: DF/24-A/0304/CVS/008  
Matrix: Soil Units: mg/kg Prep Date: 11/6/00 Prep Batch: 0311161  
Weight: 0.50 Volume: 50 Percent Moisture: 15.95

| Element | WL/<br>Mass | MDL  | Report<br>Limit | Conc | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|------|-----------------|------|---|----|-------|--------------|--------------|
| Arsenic | 189.04      | 0.31 | 1.2             | 12.5 |   | 1  | ICPST | 11/8/00      | 16:54        |

Comments: Lot #: C0J310200 Sample #: 1

Version 4.10.3

U Result is less than the MDL  
B Result is between MDL and RL

Form 1 Equivalent

674 458 STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DN4QJ Client ID: DF/24-A/0304/CVS/010  
Matrix: Soil Units: mg/kg Prep Date: 11/6/00 Prep Batch: 0311161  
Weight: 0.50 Volume: 50 Percent Moisture: 12.53

| Element | WL/<br>Mass | MDL  | Report<br>Limit | Conc | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|------|-----------------|------|---|----|-------|--------------|--------------|
| Arsenic | 189.04      | 0.29 | 1.1             | 12.7 |   | 1  | ICPST | 11/8/00      | 17:10        |

Comments: Lot #: C0J310200 Sample #: 2

Version 4.10.3

U Result is less than the MDL  
B Result is between MDL and RL

Form 1 Equivalent

## Metals Data Reporting Form

Sample Results

Lab Sample ID: DN4QK Client ID: DF/24-A/0304/CVS/012  
Matrix: Soil Units: mg/kg Prep Date: 11/6/00 Prep Batch: 0311161  
Weight: 0.50 Volume: 50 Percent Moisture: 16.64

| Element | WL/<br>Mass | MDL  | Report<br>Limit | Conc | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|------|-----------------|------|---|----|-------|--------------|--------------|
| Arsenic | 189.04      | 0.31 | 1.2             | 12.5 |   | 1  | ICPST | 11/8/00      | 17:14        |

Comments: Lot #: C0J310200 Sample #: 3

Version 4.10.3

U Result is less than the MDL  
B Result is between MDL and RL

*Form 1 Equivalent*



674 460

STL-Pittsburgh

## Metals Data Reporting Form

## Initial Calibration Verification Standard

Instrument: ICPSTUnits: ug/LChart Number: T01108A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0057-124-2

| Element | WL/<br>Mass | True<br>Conc | ICV3-1<br>11/8/00<br>9:22 AM |          |       |          |       |          |       |          |       |          |
|---------|-------------|--------------|------------------------------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
|         |             |              | Found                        | %<br>Rec | Found | %<br>Rec | Found | %<br>Rec | Found | %<br>Rec | Found | %<br>Rec |
| Arsenic | 189.042     | 250.0        | 255.32                       | 102.1    |       |          |       |          |       |          |       |          |

**STL-Pittsburgh**  
Metals Data Reporting Form

**674 461**

**Continuing Calibration Verification**

**Instrument:** ICPST

**Units:** ug/L

**Chart Number:** T01108A.ARC

**Acceptable Range:** 90% - 110%

**Standard Source:** Inorganic Ventures

**Standard ID:** 0057-137-2

| Element | WL/<br>Mass | True<br>Conc | CCV3-1<br>11/8/00<br>10:10 AM |          | CCV3-2<br>11/8/00<br>11:00 AM |          | CCV3-3<br>11/8/00<br>11:49 AM |          | CCV3-4<br>11/8/00<br>12:43 PM |          | CCV3-5<br>11/8/00<br>1:33 PM |          |
|---------|-------------|--------------|-------------------------------|----------|-------------------------------|----------|-------------------------------|----------|-------------------------------|----------|------------------------------|----------|
|         |             |              | Found                         | %<br>Rec | Found                         | %<br>Rec | Found                         | %<br>Rec | Found                         | %<br>Rec | Found                        | %<br>Rec |
| Arsenic | 189.042     | 500.0        | 499.57                        | 99.9     | 519.01                        | 103.8    | 506.97                        | 101.4    | 512.73                        | 102.5    | 510.04                       | 102.0    |

674

462

STL-Pittsburgh

## Metals Data Reporting Form

## Continuing Calibration Verification

Instrument: ICPSTUnits: ug/LChart Number: T01108A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0057-137-2

| Element | WL/<br>Mass | True<br>Conc | CCV3-6<br>11/8/00<br>2:23 PM |          | CCV3-7<br>11/8/00<br>3:03 PM |          | CCV3-8<br>11/8/00<br>3:59 PM |          | CCV3-9<br>11/8/00<br>4:37 PM |          | CCV3-10<br>11/8/00<br>5:27 PM |          |
|---------|-------------|--------------|------------------------------|----------|------------------------------|----------|------------------------------|----------|------------------------------|----------|-------------------------------|----------|
|         |             |              | Found                        | %<br>Rec | Found                        | %<br>Rec | Found                        | %<br>Rec | Found                        | %<br>Rec | Found                         | %<br>Rec |
| Arsenic | 189.042     | 500.0        | 513.90                       | 102.8    | 510.43                       | 102.1    | 506.32                       | 101.3    | 511.58                       | 102.3    | 508.90                        | 101.8    |

## Metals Data Reporting Form

## Initial Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T01108A.ARC

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

| Element | WL/<br>Mass | Report<br>Limit | ICB1<br>11/8/00<br>9:26 AM |   |       |   |       |   |       |   |
|---------|-------------|-----------------|----------------------------|---|-------|---|-------|---|-------|---|
|         |             |                 | Found                      | Q | Found | Q | Found | Q | Found | Q |
| Arsenic | 189.042     | 10              | 2.6                        | U |       |   |       |   |       |   |

674 464 STL-Pittsburgh

## Metals Data Reporting Form

## Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T01108A.ARC

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

| Element | WL/<br>Mass | Report<br>Limit | CCB1<br>11/8/00<br>10:14 AM | CCB2<br>11/8/00<br>11:04 AM | CCB3<br>11/8/00<br>11:53 AM | CCB4<br>11/8/00<br>12:47 PM | CCB5<br>11/8/00<br>1:37 PM |
|---------|-------------|-----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|
|         |             |                 | Found Q                     | Found Q                     | Found Q                     | Found Q                     | Found Q                    |
| Arsenic | 189.042     | 10              | 2.6 U                       | 2.6 U                       | 2.6 U                       | 2.6 U                       | 2.6 U                      |

## Metals Data Reporting Form

## Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T01108A.ARC

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

| Element | WL/<br>Mass | Report<br>Limit | CCB6<br>11/8/00<br>2:27 PM | CCB7<br>11/8/00<br>3:07 PM | CCB8<br>11/8/00<br>4:04 PM | CCB9<br>11/8/00<br>4:41 PM | CCB10<br>11/8/00<br>5:31 PM |
|---------|-------------|-----------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|
|         |             |                 | Found Q                    | Found Q                    | Found Q                    | Found Q                    | Found Q                     |
| Arsenic | 189.042     | 10              | 2.6 U                      | 2.6 U                      | 2.6 U                      | 2.6 U                      | 2.6 U                       |

674 466

## STL-Pittsburgh

## Metals Data Reporting Form

## Preparation Blank Results

Lab Sample ID: DPD8KBMatrix: Soil Units: mg/kg Prep Date: 11/6/00 Prep Batch: 0311161Weight: 0.50 Volume: 50 Percent Moisture: NA

| Element | WL/<br>Mass | MDL  | Report<br>Limit | Conc | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|------|-----------------|------|---|----|-------|--------------|--------------|
| Arsenic | 189.042     | 0.26 | 1.0             | 0.26 | U | 1  | ICPST | 11/8/00      | 16:45        |

Comments: Lot #: C0J310200

Version 4.10.3

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

## Interference Check Standard A

Instrument: ICPSTUnits: ug/LChart Number: T01108A.ARCAcceptable Range: 0% - 0%Standard Source: Inorganic VenturesStandard ID: 0057-115-1

| Element | WL/<br>Mass | Reporting<br>Limit | True<br>Conc | ICSA<br>11/8/00<br>9:30 AM | Found | Found | Found | Found | Found |
|---------|-------------|--------------------|--------------|----------------------------|-------|-------|-------|-------|-------|
|         |             |                    |              | Found                      |       |       |       |       |       |
| Arsenic | 189.042     | 10                 |              | 1                          |       |       |       |       |       |



## Metals Data Reporting Form

## Interference Check Standard AB

Instrument: ICPSTUnits: ug/LChart Number: T01108A.ARCAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0057-102-1

| Element | WL/<br>Mass | True<br>Conc | ICSAB<br>11/8/00<br>9:34 AM |          |       |          |       |          |       |          |       |          |
|---------|-------------|--------------|-----------------------------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
|         |             |              | Found                       | %<br>Rec | Found | %<br>Rec | Found | %<br>Rec | Found | %<br>Rec | Found | %<br>Rec |
| Arsenic | 189.042     | 1000         | 1033.0                      | 103.3    |       |          |       |          |       |          |       |          |

## Metals Data Reporting Form

## Matrix Spike Sample Results

Spike Sample ID: DN4P6S  
Original Sample ID: DN4P6 Client ID: DF/24-A/0304/CVS/008S  
Matrix: Soil Units: mg/kg Prep Date: 11/6/00 Prep Batch: 0311161  
Weight: 0.50 Volume: 50 Percent Moisture: 15.95

| Element | WL/<br>Mass | OS<br>Conc | Q | MS<br>Conc | Q | Spike<br>Level | %<br>Rec | OS<br>DF | MS<br>DF | Instr | OS<br>Anal<br>Date | OS<br>Anal<br>Time | MS<br>Anal<br>Date | MS<br>Anal<br>Time |
|---------|-------------|------------|---|------------|---|----------------|----------|----------|----------|-------|--------------------|--------------------|--------------------|--------------------|
| Arsenic | 189.0       | 12.5       |   | 223        |   | 237.95         | 88.2     | 1        | 1        | ICPST | 11/8/00            | 16:54              | 11/8/00            | 17:02              |

Comments: Lot #: C0J310200 Sample #: 1

Version 4.10.3

U Result is less than the MDL  
B Result is between MDL and RL  
N Spike recovery failed  
NC Percent recovery was not calculated  
\* Duplicate analysis RPD was not within limits

Form 5A Equivalent

674 470

STL-Pittsburgh

## Metals Data Reporting Form

## Matrix Spike Duplicate Sample Results

Spike Sample ID: DN4P6D

Original Sample ID: DN4P6 Client ID: DF/24-A/0304/CVS/008D

Matrix: Soil Units: mg/kg Prep Date: 11/6/00 Prep Batch: 0311161

Weight: 0.50 Volume: 50 Percent Moisture: 15.95

| Element | WL/<br>Mass | OS<br>Conc | Q | MSD<br>Conc | Q | Spike<br>Level | %<br>Rec | OS<br>DF | MSD<br>DF | Instr | OS<br>Anal<br>Date | OS<br>Anal<br>Time | MSD<br>Anal<br>Date | MSD<br>Anal<br>Time |
|---------|-------------|------------|---|-------------|---|----------------|----------|----------|-----------|-------|--------------------|--------------------|---------------------|---------------------|
| Arsenic | 189.0       | 12.5       |   | 221         |   | 237.95         | 87.8     | 1        | 1         | ICPST | 11/8/00            | 16:54              | 11/8/00             | 17:06               |

Comments: Lot #: C0J310200 Sample #: 1

Version 4 10.3

U Result is less than the MDL

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

\* Duplicate analysis RPD was not within limits

Form 5A Equivalent

## Metals Data Reporting Form

## Laboratory Control Sample Results

Lab Sample ID: DPD8KCMatrix: Soil Units: mg/kg Prep Date: 11/6/00 Prep Batch: 0311161Weight: 0.50 Volume: 50 Percent Moisture: NA

| Element | WL/<br>Mass | Spike<br>Level | Conc | Percent<br>Recovery | Q | Range  | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|----------------|------|---------------------|---|--------|----|-------|--------------|--------------|
| Arsenic | 189.042     | 200            | 201  | 100.7               |   | 80-120 | 1  | ICPST | 11/8/00      | 16:49        |

Comments: Lot #: C0J310200

Version 4 10.3

U Result is less than the MDL

Form 7 Equivalent

B Result is between MDL and RL

674

472 STL-Pittsburgh

## Metals Data Reporting Form

Instrument Detection Limits

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Instrument: ICPSTUnits: ppb

| Element | Wavelength<br>/Mass | Reporting<br>Limit | MDL | Date of MDL |
|---------|---------------------|--------------------|-----|-------------|
| Arsenic | 189.04              | 10                 | 2.6 | 4/1/00      |

STL-Pittsburgh  
Metals Data Reporting Form

674 473

Inter-Element Correction Factors

Instrument: ICPST Date of IEC's: 10/13/00

| Interfering Element | Wavelength /Mass | Correction Factor(s)                                                                               |
|---------------------|------------------|----------------------------------------------------------------------------------------------------|
| Aluminum            | 308.215          | Pb(-0.000163)                                                                                      |
| Aluminum            | 308.215          | Pb(0.000539)                                                                                       |
| Chromium            | 267.716          | Sb(0.007445)                                                                                       |
| Chromium            | 267.716          | As(-0.003079), Sb(0.013117)                                                                        |
| Cobalt              | 228.616          | Pb(0.000043), Se(-0.000467)                                                                        |
| Cobalt              | 228.616          | Cd(-0.000073), Fe(0.086957), Ni(-0.000735), Pb(0.000049), Se(0.000496), Tl(0.002407)               |
| Iron                | 271.441          | Cd(0.000118), Pb(0.000082), Sb(0.000025), Se(-0.00001), Tl(-0.000021), V(-0.000341), Zn(0.000124)  |
| Iron                | 271.441          | Pb(0.000048), Se(-0.000347)                                                                        |
| Magnesium           | 279.078          | Fe(-0.00058)                                                                                       |
| Manganese           | 257.61           | Se(-0.000214), Tl(-0.003614)                                                                       |
| Manganese           | 257.61           | Se(0.000533)                                                                                       |
| Molybdenum          | 202.03           | As(-0.000927), Pb(-0.000446), Sb(-0.002435), Tl(-0.000488)                                         |
| Molybdenum          | 202.03           | Pb(-0.000742), Sb(-0.011507), Se(0.000246)                                                         |
| Nickel              | 231.604          | Pb(0.000124)                                                                                       |
| Nickel              | 231.604          | Pb(0.000274), Sb(-0.00125), Zn(0.005251)                                                           |
| Vanadium            | 292.402          | Al(0.020017), Be(-0.008152), Cr(-0.00015), Fe(0.009334), Sb(-0.008099), Se(0.000269), Tl(0.001468) |
| Vanadium            | 292.402          | Pb(-0.000307), Se(0.000106)                                                                        |

674 474 STL-Pittsburgh

Metals Data Reporting Form

Linear Dynamic Ranges

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Instrument: ICPST

Units: ppb

| Element | Wavelength<br>/Mass | Linear<br>Range | Date of Linear<br>Range |
|---------|---------------------|-----------------|-------------------------|
| Arsenic | 189.04              | 10000           | 9/18/00                 |

**STL-Pittsburgh**  
**Metals Data Reporting Form**

**674 475**

**Preparation Log**

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**Preparation Batch:** 0311161      **Instrument:** ICP      **Matrix:** Soil

| Sample ID | Prep Date | Weight (g) | Volume (ml) | % Moisture |
|-----------|-----------|------------|-------------|------------|
| DPD8KB    | 11/6/00   | 0.50       | 50          | NA         |
| DPD8KC    | 11/6/00   | 0.50       | 50          | NA         |
| DN4P6     | 11/6/00   | 0.50       | 50          | 15.95      |
| DN4P6D    | 11/6/00   | 0.50       | 50          | 15.95      |
| DN4P6S    | 11/6/00   | 0.50       | 50          | 15.95      |
| DN4QJ     | 11/6/00   | 0.50       | 50          | 12.53      |
| DN4QK     | 11/6/00   | 0.50       | 50          | 16.64      |



## Metals Data Reporting Form

## Instrument Runlog

Instrument: ICPSTChart Number: T01108A.ARC

| Lab Sample Name | Client Sample Name | Date of Analysis | Time of Analysis |
|-----------------|--------------------|------------------|------------------|
| STD1            |                    | 11/8/00          | 9:10             |
| STD6            |                    | 11/8/00          | 9:14             |
| STD7            |                    | 11/8/00          | 9:18             |
| ICV3-1          |                    | 11/8/00          | 9:22             |
| ICB1            |                    | 11/8/00          | 9:26             |
| ICSA            |                    | 11/8/00          | 9:30             |
| ICSAB           |                    | 11/8/00          | 9:34             |
| ZZZZZZ          |                    | 11/8/00          | 9:41             |
| ZZZZZZ          |                    | 11/8/00          | 9:45             |
| ZZZZZZ          |                    | 11/8/00          | 9:49             |
| ZZZZZZ          |                    | 11/8/00          | 9:53             |
| ZZZZZZ          |                    | 11/8/00          | 9:57             |
| ZZZZZZ          |                    | 11/8/00          | 10:01            |
| ZZZZZZ          |                    | 11/8/00          | 10:06            |
| CCV3-1          |                    | 11/8/00          | 10:10            |
| CCB1            |                    | 11/8/00          | 10:14            |
| ZZZZZZ          |                    | 11/8/00          | 10:18            |
| ZZZZZZ          |                    | 11/8/00          | 10:22            |
| ZZZZZZ          |                    | 11/8/00          | 10:26            |
| ZZZZZZ          |                    | 11/8/00          | 10:30            |
| ZZZZZZ          |                    | 11/8/00          | 10:35            |
| ZZZZZZ          |                    | 11/8/00          | 10:39            |
| ZZZZZZ          |                    | 11/8/00          | 10:43            |
| ZZZZZZ          |                    | 11/8/00          | 10:47            |
| ZZZZZZ          |                    | 11/8/00          | 10:51            |
| ZZZZZZ          |                    | 11/8/00          | 10:55            |
| CCV3-2          |                    | 11/8/00          | 11:00            |
| CCB2            |                    | 11/8/00          | 11:04            |
| ZZZZZZ          |                    | 11/8/00          | 11:08            |
| ZZZZZZ          |                    | 11/8/00          | 11:12            |
| ZZZZZZ          |                    | 11/8/00          | 11:16            |
| ZZZZZZ          |                    | 11/8/00          | 11:20            |
| ZZZZZZ          |                    | 11/8/00          | 11:24            |
| ZZZZZZ          |                    | 11/8/00          | 11:29            |
| ZZZZZZ          |                    | 11/8/00          | 11:33            |
| ZZZZZZ          |                    | 11/8/00          | 11:37            |
| ZZZZZZ          |                    | 11/8/00          | 11:41            |
| ZZZZZZ          |                    | 11/8/00          | 11:45            |
| CCV3-3          |                    | 11/8/00          | 11:49            |

**STL-Pittsburgh**  
Metals Data Reporting Form

674 477

**Instrument Runlog**

**Instrument:** ICPST

**Chart Number:** T01108A.ARC

| Lab Sample Name | Client Sample Name | Date of Analysis | Time of Analysis |
|-----------------|--------------------|------------------|------------------|
| CCB3            |                    | 11/8/00          | 11:53            |
| ZZZZZZ          |                    | 11/8/00          | 11:58            |
| ZZZZZZ          |                    | 11/8/00          | 12:02            |
| ZZZZZZ          |                    | 11/8/00          | 12:06            |
| ZZZZZZ          |                    | 11/8/00          | 12:10            |
| ZZZZZZ          |                    | 11/8/00          | 12:14            |
| ZZZZZZ          |                    | 11/8/00          | 12:18            |
| ZZZZZZ          |                    | 11/8/00          | 12:26            |
| ZZZZZZ          |                    | 11/8/00          | 12:30            |
| ZZZZZZ          |                    | 11/8/00          | 12:34            |
| ZZZZZZ          |                    | 11/8/00          | 12:39            |
| CCV3-4          |                    | 11/8/00          | 12:43            |
| CCB4            |                    | 11/8/00          | 12:47            |
| ZZZZZZ          |                    | 11/8/00          | 12:51            |
| ZZZZZZ          |                    | 11/8/00          | 12:55            |
| ZZZZZZ          |                    | 11/8/00          | 12:59            |
| ZZZZZZ          |                    | 11/8/00          | 13:04            |
| ZZZZZZ          |                    | 11/8/00          | 13:08            |
| ZZZZZZ          |                    | 11/8/00          | 13:12            |
| ZZZZZZ          |                    | 11/8/00          | 13:16            |
| ZZZZZZ          |                    | 11/8/00          | 13:20            |
| ZZZZZZ          |                    | 11/8/00          | 13:24            |
| ZZZZZZ          |                    | 11/8/00          | 13:28            |
| CCV3-5          |                    | 11/8/00          | 13:33            |
| CCB5            |                    | 11/8/00          | 13:37            |
| ZZZZZZ          |                    | 11/8/00          | 13:41            |
| ZZZZZZ          |                    | 11/8/00          | 13:45            |
| ZZZZZZ          |                    | 11/8/00          | 13:49            |
| ZZZZZZ          |                    | 11/8/00          | 13:53            |
| ZZZZZZ          |                    | 11/8/00          | 13:58            |
| ZZZZZZ          |                    | 11/8/00          | 14:02            |
| ZZZZZZ          |                    | 11/8/00          | 14:06            |
| ZZZZZZ          |                    | 11/8/00          | 14:10            |
| ZZZZZZ          |                    | 11/8/00          | 14:14            |
| ZZZZZZ          |                    | 11/8/00          | 14:18            |
| CCV3-6          |                    | 11/8/00          | 14:23            |
| CCB6            |                    | 11/8/00          | 14:27            |
| ZZZZZZ          |                    | 11/8/00          | 14:33            |
| ZZZZZZ          |                    | 11/8/00          | 14:37            |

## Metals Data Reporting Form

## Instrument Runlog

Instrument: ICPSTChart Number: T01108A.ARC

| Lab Sample Name | Client Sample Name    | Date of Analysis | Time of Analysis |
|-----------------|-----------------------|------------------|------------------|
| ZZZZZZ          |                       | 11/8/00          | 14:41            |
| ZZZZZZ          |                       | 11/8/00          | 14:46            |
| ZZZZZZ          |                       | 11/8/00          | 14:50            |
| ZZZZZZ          |                       | 11/8/00          | 14:58            |
| CCV3-7          |                       | 11/8/00          | 15:03            |
| CCB7            |                       | 11/8/00          | 15:07            |
| ZZZZZZ          |                       | 11/8/00          | 15:18            |
| ZZZZZZ          |                       | 11/8/00          | 15:22            |
| ZZZZZZ          |                       | 11/8/00          | 15:26            |
| ZZZZZZ          |                       | 11/8/00          | 15:30            |
| ZZZZZZ          |                       | 11/8/00          | 15:34            |
| ZZZZZZ          |                       | 11/8/00          | 15:39            |
| ZZZZZZ          |                       | 11/8/00          | 15:43            |
| ZZZZZZ          |                       | 11/8/00          | 15:47            |
| ZZZZZZ          |                       | 11/8/00          | 15:51            |
| ZZZZZZ          |                       | 11/8/00          | 15:55            |
| CCV3-8          |                       | 11/8/00          | 15:59            |
| CCB8            |                       | 11/8/00          | 16:04            |
| ZZZZZZ          |                       | 11/8/00          | 16:08            |
| ZZZZZZ          |                       | 11/8/00          | 16:12            |
| ZZZZZZ          |                       | 11/8/00          | 16:16            |
| ZZZZZZ          |                       | 11/8/00          | 16:20            |
| ZZZZZZ          |                       | 11/8/00          | 16:24            |
| ZZZZZZ          |                       | 11/8/00          | 16:29            |
| ZZZZZZ          |                       | 11/8/00          | 16:33            |
| CCV3-9          |                       | 11/8/00          | 16:37            |
| CCB9            |                       | 11/8/00          | 16:41            |
| DPD8KB          |                       | 11/8/00          | 16:45            |
| DPD8KC          |                       | 11/8/00          | 16:49            |
| DN4P6           | DF/24-A/0304/CVS/008  | 11/8/00          | 16:54            |
| DN4P6P          | DF/24-A/0304/CVS/008  | 11/8/00          | 16:58            |
| DN4P6S          | DF/24-A/0304/CVS/008S | 11/8/00          | 17:02            |
| DN4P6D          | DF/24-A/0304/CVS/008D | 11/8/00          | 17:06            |
| DN4QJ           | DF/24-A/0304/CVS/010  | 11/8/00          | 17:10            |
| DN4QK           | DF/24-A/0304/CVS/012  | 11/8/00          | 17:14            |
| ZZZZZZ          |                       | 11/8/00          | 17:19            |
| ZZZZZZ          |                       | 11/8/00          | 17:23            |
| CCV3-10         |                       | 11/8/00          | 17:27            |
| CCB10           |                       | 11/8/00          | 17:31            |

STL-Pittsburgh  
Metals Data Reporting Form

674 479

Instrument Runlog

Instrument: ICPST

Chart Number: T01108A.ARC

| Lab Sample Name | Client Sample Name | Date of Analysis | Time of Analysis |
|-----------------|--------------------|------------------|------------------|
| ZZZZZZ          |                    | 11/8/00          | 17:35            |
| ZZZZZZ          |                    | 11/8/00          | 17:39            |
| ZZZZZZ          |                    | 11/8/00          | 17:44            |
| ZZZZZZ          |                    | 11/8/00          | 17:48            |
| ZZZZZZ          |                    | 11/8/00          | 17:52            |
| ZZZZZZ          |                    | 11/8/00          | 17:56            |
| ZZZZZZ          |                    | 11/8/00          | 18:00            |
| ZZZZZZ          |                    | 11/8/00          | 18:05            |
| ZZZZZZ          |                    | 11/8/00          | 18:09            |
| ZZZZZZ          |                    | 11/8/00          | 18:13            |
| ZZZZZZ          |                    | 11/8/00          | 18:17            |

674 480

METALS  
RAW DATA

# Sample Name *Perrygled 11-900* AS

|    |                   |         |
|----|-------------------|---------|
| 1  | STD1              | -.00866 |
| 2  | STD6              | 5.43587 |
| 3  | STD7              |         |
| 4  | ICV3-1 0057-124-2 | .25532  |
| 5  | ICB1              | -.00158 |
| 6  | ICSA 0057-115-1   | .00124  |
| 7  | ICSAB 0057-102-1  | 1.0330  |
| 8  | DN18LB            | -.00042 |
| 9  | DN18LC            | 2.0187  |
| 10 | DM8XM             | .00277  |
| 11 | DM8XMP5           | .00093  |
| 12 | DM8XMS            | 2.2370  |
| 13 | DM8XMD            | 2.1225  |
| 14 | DM8XN             | .00143  |
| 15 | CCV3-1 0057-137-2 | .49957  |
| 16 | CCB1              | -.00056 |
| 17 | DN18JB            | -.00059 |
| 18 | DN18JC            | 2.0654  |
| 19 | DM8W3             | .04770  |
| 20 | DM8W3P5           | .01136  |
| 21 | DM8W3S            | 1.9633  |
| 22 | DM8W3D            | 1.9228  |
| 23 | DM8W4             | .03328  |
| 24 | DM8W5             | .02884  |
| 25 | DM8W6             | .03796  |
| 26 | DM8W7             | .05028  |
| 27 | CCV3-2            | .51901  |
| 28 | CCB2              | -.00046 |
| 29 | DM8W7P5           | .01058  |
| 30 | DM8W7S            | 1.9345  |
| 31 | DM8W7D            | 1.9139  |
| 32 | DM8W8             | .03728  |
| 33 | DM8W9             | .02597  |
| 34 | DM8XA             | .03237  |
| 35 | DM8XC             | .04785  |
| 36 | DM8XD             | .04685  |
| 37 | DM8XE             | .04951  |
| 38 | DM8XF             | .03388  |
| 39 | CCV3-3            | .50697  |
| 40 | CCB3              | -.00014 |
| 41 | DM8XG             | .03825  |
| 42 | DM8XH             | .03107  |
| 43 | DM8XJ             | .05200  |
| 44 | DM8XK             | .02555  |
| 45 | DM8XL             | .02934  |
| 46 | DNC2P             | .04165  |
| 47 | DNC2P T1 Rerun    | .04242  |
| 48 | DM8W7/2 Mn        | .02714  |
| 49 | DM8W7P10 Mn       | .00555  |
| 50 | DM8XA/2 Mn        | .01620  |
| 51 | CCV3-4            | .51273  |
| 52 | CCB4              | .00061  |
| 53 | DN2EDB            | .00042  |

| #   | Sample Name | AS      |
|-----|-------------|---------|
| 54  | DN2EDC      | 2.0182  |
| 55  | DM61P       | .10882  |
| 56  | DM61Q       | .03554  |
| 57  | DM61QP5     | .00644  |
| 58  | DM61QS      | 1.9824  |
| 59  | DM61QD      | 1.9710  |
| 60  | DM61V       | .02248  |
| 61  | DM61W       | .01688  |
| 62  | DM61X       | .01675  |
| 63  | CCV3-5      | .51004  |
| 64  | CCB5        | .00094  |
| 65  | DM613       | .01971  |
| 66  | DN3P6B      | -.00102 |
| 67  | DN3P6C      | 2.0335  |
| 68  | DNKCP       | .05512  |
| 69  | DNKCPP5     | .01227  |
| 70  | DNKCPS      | 1.9316  |
| 71  | DNKCPD      | 1.8763  |
| 72  | DNKCR       | .06123  |
| 73  | DNMCD       | .08596  |
| 74  | DNMCE       | .08845  |
| 75  | CCV3-6      | .51390  |
| 76  | CCB6        | -.00015 |
| 77  | DNKCP/2 Mn  | .02940  |
| 78  | DNKCPP10 Mn | .00508  |
| 79  | DNKCPS/2 Mn | .98519  |
| 80  | DNKCR/2 Mn  | .03165  |
| 81  | DNMCE/10 Mn | .00815  |
| 82  | DNMCE/25    | .00438  |
| 83  | CCV3-7      | .51043  |
| 84  | CCB7        | -.00036 |
| 85  | DPD8NBE     | .00028  |
| 86  | DN8R8BE     | -.00046 |
| 87  | DPD8NCE     | 2.0609  |
| 88  | DN3JWE      | .00018  |
| 89  | DN3JWP5E    | .00069  |
| 90  | DN3JWSE     | 2.0202  |
| 91  | DN3JWDE     | 2.1102  |
| 92  | DN3JXE      | .00160  |
| 93  | DN3J1E      | -.00102 |
| 94  | DN3J2E      | .00025  |
| 95  | CCV3-8      | .50632  |
| 96  | CCB8        | .00033  |
| 97  | DN3J3E      | -.00030 |
| 98  | DN3J4E      | .00165  |
| 99  | DN3J5E      | .00045  |
| 100 | DN3J6E      | .00049  |
| 101 | DN3J7E      | .00007  |
| 102 | DN3J9E      | .00019  |
| 103 | DN3KAE      | .00192  |
| 104 | CCV3-9      | .51158  |
| 105 | CCB9        | .00054  |
| 106 | DPD8KB      | -.00015 |
| 107 | DPK8KC      | 2.0134  |

D 11/9/00

# Sample Name

AS

674 483

|     |         |         |
|-----|---------|---------|
| 108 | DN4P6   | .10509  |
| 109 | DN4P6P5 | .02353  |
| 110 | DN4P6S  | 1.8700  |
| 111 | DN4P6D  | 1.8607  |
| 112 | DN4QJ   | .11064  |
| 113 | DN4QK   | .10399  |
| 114 | DPFJVB  | .00072  |
| 115 | DPFJVC  | 2.0322  |
| 116 | CCV3-10 | .50890  |
| 117 | CCB10   | -.00022 |
| 118 | DNX75   | .01766  |
| 119 | DN7CD   | .01617  |
| 120 | DN7CJ   | .02181  |
| 121 | DN7CL   | .04471  |
| 122 | DN7CV   | .20743  |
| 123 | DN9AF   | .01004  |
| 124 | DN9AFP5 | .00149  |
| 125 | DN9AFS  | 1.7590  |
| 126 | DN9AFD  | 1.7674  |
| 127 | CCV3-11 | .50923  |
| 128 | CCB11   | .00077  |



RB 11-960

| #  | Sample Name       | File    | Method | Date     | Time  | OpID | Type | Mode |
|----|-------------------|---------|--------|----------|-------|------|------|------|
| 1  | STD1              | T01108A | METTRA | 11/08/00 | 09:10 |      | X    | IR   |
| 2  | STD6              | T01108A | METTRA | 11/08/00 | 09:14 |      | X    | IR   |
| 3  | STD7              | T01108A | METTRA | 11/08/00 | 09:18 |      | X    | IR   |
| 4  | ICV3-1 0057-124-2 | T01108A | METTRA | 11/08/00 | 09:22 | RJG  | S    | CONC |
| 5  | ICB1              | T01108A | METTRA | 11/08/00 | 09:26 | RJG  | S    | CONC |
| 6  | ICSA 0057-115-1   | T01108A | METTRA | 11/08/00 | 09:30 | RJG  | Q    | CONC |
| 7  | ICSAB 0057-102-1  | T01108A | METTRA | 11/08/00 | 09:34 | RJG  | Q    | CONC |
| 8  | DN18LB            | T01108A | METTRA | 11/08/00 | 09:41 | RJG  | S    | CONC |
| 9  | DN18LC            | T01108A | METTRA | 11/08/00 | 09:45 | RJG  | S    | CONC |
| 10 | DM8XM             | T01108A | METTRA | 11/08/00 | 09:49 | RJG  | S    | CONC |
| 11 | DM8XMP5           | T01108A | METTRA | 11/08/00 | 09:53 | RJG  | S    | CONC |
| 12 | DM8XMS            | T01108A | METTRA | 11/08/00 | 09:57 | RJG  | S    | CONC |
| 13 | DM8XMD            | T01108A | METTRA | 11/08/00 | 10:01 | RJG  | S    | CONC |
| 14 | DM8XN             | T01108A | METTRA | 11/08/00 | 10:06 | RJG  | S    | CONC |
| 15 | CCV3-1 0057-137-2 | T01108A | METTRA | 11/08/00 | 10:10 | RJG  | S    | CONC |
| 16 | CCB1              | T01108A | METTRA | 11/08/00 | 10:14 | RJG  | S    | CONC |
| 17 | DN18JB            | T01108A | METTRA | 11/08/00 | 10:18 | RJG  | S    | CONC |
| 18 | DN18JC            | T01108A | METTRA | 11/08/00 | 10:22 | RJG  | S    | CONC |
| 19 | DM8W3             | T01108A | METTRA | 11/08/00 | 10:26 | RJG  | S    | CONC |
| 20 | DM8W3P5           | T01108A | METTRA | 11/08/00 | 10:30 | RJG  | S    | CONC |
| 21 | DM8W3S            | T01108A | METTRA | 11/08/00 | 10:35 | RJG  | S    | CONC |
| 22 | DM8W3D            | T01108A | METTRA | 11/08/00 | 10:39 | RJG  | S    | CONC |
| 23 | DM8W4             | T01108A | METTRA | 11/08/00 | 10:43 | RJG  | S    | CONC |
| 24 | DM8W5             | T01108A | METTRA | 11/08/00 | 10:47 | RJG  | S    | CONC |
| 25 | DM8W6             | T01108A | METTRA | 11/08/00 | 10:51 | RJG  | S    | CONC |
| 26 | DM8W7             | T01108A | METTRA | 11/08/00 | 10:55 | RJG  | S    | CONC |
| 27 | CCV3-2            | T01108A | METTRA | 11/08/00 | 11:00 | RJG  | S    | CONC |
| 28 | CCB2              | T01108A | METTRA | 11/08/00 | 11:04 | RJG  | S    | CONC |
| 29 | DM8W7P5           | T01108A | METTRA | 11/08/00 | 11:08 | RJG  | S    | CONC |
| 30 | DM8W7S            | T01108A | METTRA | 11/08/00 | 11:12 | RJG  | S    | CONC |
| 31 | DM8W7D            | T01108A | METTRA | 11/08/00 | 11:16 | RJG  | S    | CONC |
| 32 | DM8W8             | T01108A | METTRA | 11/08/00 | 11:20 | RJG  | S    | CONC |
| 33 | DM8W9             | T01108A | METTRA | 11/08/00 | 11:24 | RJG  | S    | CONC |
| 34 | DM8XA             | T01108A | METTRA | 11/08/00 | 11:29 | RJG  | S    | CONC |
| 35 | DM8XC             | T01108A | METTRA | 11/08/00 | 11:33 | RJG  | S    | CONC |
| 36 | DM8XD             | T01108A | METTRA | 11/08/00 | 11:37 | RJG  | S    | CONC |
| 37 | DM8XE             | T01108A | METTRA | 11/08/00 | 11:41 | RJG  | S    | CONC |
| 38 | DM8XF             | T01108A | METTRA | 11/08/00 | 11:45 | RJG  | S    | CONC |
| 39 | CCV3-3            | T01108A | METTRA | 11/08/00 | 11:49 | RJG  | S    | CONC |
| 40 | CCB3              | T01108A | METTRA | 11/08/00 | 11:53 | RJG  | S    | CONC |
| 41 | DM8XG             | T01108A | METTRA | 11/08/00 | 11:58 | RJG  | S    | CONC |
| 42 | DM8XH             | T01108A | METTRA | 11/08/00 | 12:02 | RJG  | S    | CONC |
| 43 | DM8XJ             | T01108A | METTRA | 11/08/00 | 12:06 | RJG  | S    | CONC |
| 44 | DM8XK             | T01108A | METTRA | 11/08/00 | 12:10 | RJG  | S    | CONC |
| 45 | DM8XL             | T01108A | METTRA | 11/08/00 | 12:14 | RJG  | S    | CONC |
| 46 | DNC2P             | T01108A | METTRA | 11/08/00 | 12:18 | RJG  | S    | CONC |
| 47 | DNC2P T1 Rerun    | T01108A | METTRA | 11/08/00 | 12:26 | RJG  | S    | CONC |
| 48 | DM8W7/2 Mn        | T01108A | METTRA | 11/08/00 | 12:30 | RJG  | S    | CONC |
| 49 | DM8W7P10 Mn       | T01108A | METTRA | 11/08/00 | 12:34 | RJG  | S    | CONC |
| 50 | DM8XA/2 Mn        | T01108A | METTRA | 11/08/00 | 12:39 | RJG  | S    | CONC |
| 51 | CCV3-4            | T01108A | METTRA | 11/08/00 | 12:43 | RJG  | S    | CONC |
| 52 | CCB4              | T01108A | METTRA | 11/08/00 | 12:47 | RJG  | S    | CONC |
| 53 | DN2EDB            | T01108A | METTRA | 11/08/00 | 12:51 | RJG  | S    | CONC |

| #   | Sample Name | File    | Method | Date     | Time  | OpID | Type | Mode |
|-----|-------------|---------|--------|----------|-------|------|------|------|
| 54  | DN2EDC      | T01108A | METTRA | 11/08/00 | 12:55 | RJG  | S    | CONC |
| 55  | DM61P       | T01108A | METTRA | 11/08/00 | 12:59 | RJG  | S    | CONC |
| 56  | DM61Q       | T01108A | METTRA | 11/08/00 | 13:04 | RJG  | S    | CONC |
| 57  | DM61QP5     | T01108A | METTRA | 11/08/00 | 13:08 | RJG  | S    | CONC |
| 58  | DM61QS      | T01108A | METTRA | 11/08/00 | 13:12 | RJG  | S    | CONC |
| 59  | DM61QD      | T01108A | METTRA | 11/08/00 | 13:16 | RJG  | S    | CONC |
| 60  | DM61V       | T01108A | METTRA | 11/08/00 | 13:20 | RJG  | S    | CONC |
| 61  | DM61W       | T01108A | METTRA | 11/08/00 | 13:24 | RJG  | S    | CONC |
| 62  | DM61X       | T01108A | METTRA | 11/08/00 | 13:28 | RJG  | S    | CONC |
| 63  | CCV3-5      | T01108A | METTRA | 11/08/00 | 13:33 | RJG  | S    | CONC |
| 64  | CCB5        | T01108A | METTRA | 11/08/00 | 13:37 | RJG  | S    | CONC |
| 65  | DM613       | T01108A | METTRA | 11/08/00 | 13:41 | RJG  | S    | CONC |
| 66  | DN3P6B      | T01108A | METTRA | 11/08/00 | 13:45 | RJG  | S    | CONC |
| 67  | DN3P6C      | T01108A | METTRA | 11/08/00 | 13:49 | RJG  | S    | CONC |
| 68  | DNKCP       | T01108A | METTRA | 11/08/00 | 13:53 | RJG  | S    | CONC |
| 69  | DNKCPP5     | T01108A | METTRA | 11/08/00 | 13:58 | RJG  | S    | CONC |
| 70  | DNKCPS      | T01108A | METTRA | 11/08/00 | 14:02 | RJG  | S    | CONC |
| 71  | DNKCPD      | T01108A | METTRA | 11/08/00 | 14:06 | RJG  | S    | CONC |
| 72  | DNKCR       | T01108A | METTRA | 11/08/00 | 14:10 | RJG  | S    | CONC |
| 73  | DNMCD       | T01108A | METTRA | 11/08/00 | 14:14 | RJG  | S    | CONC |
| 74  | DNMCE       | T01108A | METTRA | 11/08/00 | 14:18 | RJG  | S    | CONC |
| 75  | CCV3-6      | T01108A | METTRA | 11/08/00 | 14:23 | RJG  | S    | CONC |
| 76  | CCB6        | T01108A | METTRA | 11/08/00 | 14:27 | RJG  | S    | CONC |
| 77  | DNKCP/2 Mn  | T01108A | METTRA | 11/08/00 | 14:33 | RJG  | S    | CONC |
| 78  | DNKCPP10 Mn | T01108A | METTRA | 11/08/00 | 14:37 | RJG  | S    | CONC |
| 79  | DNKCPS/2 Mn | T01108A | METTRA | 11/08/00 | 14:41 | RJG  | S    | CONC |
| 80  | DNKCR/2 Mn  | T01108A | METTRA | 11/08/00 | 14:46 | RJG  | S    | CONC |
| 81  | DNMCE/10 Mn | T01108A | METTRA | 11/08/00 | 14:50 | RJG  | S    | CONC |
| 82  | DNMCE/25    | T01108A | METTRA | 11/08/00 | 14:58 | RJG  | S    | CONC |
| 83  | CCV3-7      | T01108A | METTRA | 11/08/00 | 15:03 | RJG  | S    | CONC |
| 84  | CCB7        | T01108A | METTRA | 11/08/00 | 15:07 | RJG  | S    | CONC |
| 85  | DPD8NBE     | T01108A | METTRA | 11/08/00 | 15:18 | RJG  | S    | CONC |
| 86  | DN8R8BE     | T01108A | METTRA | 11/08/00 | 15:22 | RJG  | S    | CONC |
| 87  | DPD8NCE     | T01108A | METTRA | 11/08/00 | 15:26 | RJG  | S    | CONC |
| 88  | DN3JWE      | T01108A | METTRA | 11/08/00 | 15:30 | RJG  | S    | CONC |
| 89  | DN3JWP5E    | T01108A | METTRA | 11/08/00 | 15:34 | RJG  | S    | CONC |
| 90  | DN3JWSE     | T01108A | METTRA | 11/08/00 | 15:39 | RJG  | S    | CONC |
| 91  | DN3JWDE     | T01108A | METTRA | 11/08/00 | 15:43 | RJG  | S    | CONC |
| 92  | DN3JXE      | T01108A | METTRA | 11/08/00 | 15:47 | RJG  | S    | CONC |
| 93  | DN3J1E      | T01108A | METTRA | 11/08/00 | 15:51 | RJG  | S    | CONC |
| 94  | DN3J2E      | T01108A | METTRA | 11/08/00 | 15:55 | RJG  | S    | CONC |
| 95  | CCV3-8      | T01108A | METTRA | 11/08/00 | 15:59 | RJG  | S    | CONC |
| 96  | CCB8        | T01108A | METTRA | 11/08/00 | 16:04 | RJG  | S    | CONC |
| 97  | DN3J3E      | T01108A | METTRA | 11/08/00 | 16:08 | RJG  | S    | CONC |
| 98  | DN3J4E      | T01108A | METTRA | 11/08/00 | 16:12 | RJG  | S    | CONC |
| 99  | DN3J5E      | T01108A | METTRA | 11/08/00 | 16:16 | RJG  | S    | CONC |
| 100 | DN3J6E      | T01108A | METTRA | 11/08/00 | 16:20 | RJG  | S    | CONC |
| 101 | DN3J7E      | T01108A | METTRA | 11/08/00 | 16:24 | RJG  | S    | CONC |
| 102 | DN3J9E      | T01108A | METTRA | 11/08/00 | 16:29 | RJG  | S    | CONC |
| 103 | DN3KAE      | T01108A | METTRA | 11/08/00 | 16:33 | RJG  | S    | CONC |
| 104 | CCV3-9      | T01108A | METTRA | 11/08/00 | 16:37 | RJG  | S    | CONC |
| 105 | CCB9        | T01108A | METTRA | 11/08/00 | 16:41 | RJG  | S    | CONC |
| 106 | DPD8KB      | T01108A | METTRA | 11/08/00 | 16:45 | RJG  | S    | CONC |
| 107 | DPD8KC      | T01108A | METTRA | 11/08/00 | 16:49 | RJG  | S    | CONC |

D B611900

| #   | Sample Name | File    | Method | Date     | Time  | OpID | Type | Mode |
|-----|-------------|---------|--------|----------|-------|------|------|------|
| 108 | DN4P6       | T01108A | METTRA | 11/08/00 | 16:54 | RJG  | S    | CONC |
| 109 | DN4P6P5     | T01108A | METTRA | 11/08/00 | 16:58 | RJG  | S    | CONC |
| 110 | DN4P6S      | T01108A | METTRA | 11/08/00 | 17:02 | RJG  | S    | CONC |
| 111 | DN4P6D      | T01108A | METTRA | 11/08/00 | 17:06 | RJG  | S    | CONC |
| 112 | DN4QJ       | T01108A | METTRA | 11/08/00 | 17:10 | RJG  | S    | CONC |
| 113 | DN4QK       | T01108A | METTRA | 11/08/00 | 17:14 | RJG  | S    | CONC |
| 114 | DPFJVB      | T01108A | METTRA | 11/08/00 | 17:19 | RJG  | S    | CONC |
| 115 | DPFJVC      | T01108A | METTRA | 11/08/00 | 17:23 | RJG  | S    | CONC |
| 116 | CCV3-10     | T01108A | METTRA | 11/08/00 | 17:27 | RJG  | S    | CONC |
| 117 | CCB10       | T01108A | METTRA | 11/08/00 | 17:31 | RJG  | S    | CONC |
| 118 | DNX75       | T01108A | METTRA | 11/08/00 | 17:35 | RJG  | S    | CONC |
| 119 | DN7CD       | T01108A | METTRA | 11/08/00 | 17:39 | RJG  | S    | CONC |
| 120 | DN7CJ       | T01108A | METTRA | 11/08/00 | 17:44 | RJG  | S    | CONC |
| 121 | DN7CL       | T01108A | METTRA | 11/08/00 | 17:48 | RJG  | S    | CONC |
| 122 | DN7CV       | T01108A | METTRA | 11/08/00 | 17:52 | RJG  | S    | CONC |
| 123 | DN9AF       | T01108A | METTRA | 11/08/00 | 17:56 | RJG  | S    | CONC |
| 124 | DN9AFP5     | T01108A | METTRA | 11/08/00 | 18:00 | RJG  | S    | CONC |
| 125 | DN9AFS      | T01108A | METTRA | 11/08/00 | 18:05 | RJG  | S    | CONC |
| 126 | DN9AFD      | T01108A | METTRA | 11/08/00 | 18:09 | RJG  | S    | CONC |
| 127 | CCV3-11     | T01108A | METTRA | 11/08/00 | 18:13 | RJG  | S    | CONC |
| 128 | CCB11       | T01108A | METTRA | 11/08/00 | 18:17 | RJG  | S    | CONC |

Method: METTRA Standard: STD1

674 487

Run Time: 11/08/00 09:10:15

|      |         |         |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|---------|---------|
| Elem | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Avge | -.00662 | .10059  | -.00867 | .00021  | -.03789 | .00275  | .00097  |
| SDev | .01301  | .00314  | .01260  | .00064  | .00463  | .00045  | .00509  |
| %RSD | 196.58  | 3.1245  | 145.41  | 298.44  | 12.229  | 16.349  | 527.09  |
| #1   | -.01582 | .10281  | -.01757 | -.00024 | -.03461 | .00243  | -.00264 |
| #2   | .00258  | .09837  | .00024  | .00066  | -.04116 | .00307  | .00457  |
| Elem | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Avge | -.00130 | -.00042 | .00369  | -.00082 | -.00145 | .00076  | .00072  |
| SDev | .00041  | .00562  | .00173  | .00027  | .00225  | .00060  | .00036  |
| %RSD | 31.379  | 1345.6  | 46.935  | 33.253  | 155.02  | 78.694  | 49.115  |
| #1   | -.00159 | -.00439 | .00247  | -.00101 | -.00304 | .00034  | .00047  |
| #2   | -.00101 | .00356  | .00492  | -.00063 | .00014  | .00119  | .00098  |
| Elem | NI      | PB/1    | PB/2    | SB/1    | SB/2    | SE/1    | SE/2    |
| Avge | -.00071 | .02077  | .00938  | .01538  | .00313  | -.12813 | .07032  |
| SDev | .00100  | .04639  | .03281  | .09191  | .00060  | .01209  | .01440  |
| %RSD | 141.42  | 223.33  | 349.60  | 597.40  | 19.291  | 9.4381  | 20.482  |
| #1   | -.00142 | -.01203 | .03258  | .08037  | .00270  | -.13668 | .08051  |
| #2   | .00000  | .05358  | -.01381 | -.04960 | .00356  | -.11958 | .06014  |
| Elem | TL      | V_      | ZN      |         |         |         |         |
| Avge | -.03361 | -.00013 | -.00002 |         |         |         |         |
| SDev | .00639  | .00039  | .00002  |         |         |         |         |
| %RSD | 19.003  | 289.76  | 141.42  |         |         |         |         |
| #1   | -.03812 | -.00041 | -.00003 |         |         |         |         |
| #2   | -.02909 | .00014  | .00000  |         |         |         |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14564    | --      | --      | --      | --      | --      | --      |
| SDev   | 325.2339 | --      | --      | --      | --      | --      | --      |
| %RSD   | 2.233155 | --      | --      | --      | --      | --      | --      |
| #1     | 14794    | --      | --      | --      | --      | --      | --      |
| #2     | 14334    | --      | --      | --      | --      | --      | --      |

Method: METTRA Standard: STD6  
Run Time: 11/08/00 09:14:28

00571277

674 489

| Elem | AG     | AS     | CD     | PB/1   | PB/2   | SB/1   | SB/2   |
|------|--------|--------|--------|--------|--------|--------|--------|
| Avge | 9.5956 | 5.4359 | 12.216 | 4.9243 | 6.6938 | 8.4396 | 4.7131 |
| SDev | .0593  | .0201  | .073   | .0388  | .0465  | .0413  | .0877  |
| %RSD | .61797 | .36891 | .59587 | .78711 | .69417 | .48912 | 1.8611 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 9.5537 | 5.4217 | 12.165 | 4.8969 | 6.6609 | 8.4104 | 4.6510 |
| #2 | 9.6375 | 5.4501 | 12.268 | 4.9517 | 6.7267 | 8.4688 | 4.7751 |

| Elem | SE/1   | SE/2   | TL     |
|------|--------|--------|--------|
| Avge | 4.6904 | 3.6128 | 3.3419 |
| SDev | .0501  | .0094  | .0206  |
| %RSD | 1.0672 | .26100 | .61570 |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 4.6550 | 3.6062 | 3.3273 |
| #2 | 4.7258 | 3.6195 | 3.3564 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13956    | --      | --      | --      | --      | --      | --      |
| SDev   | 133.1129 | --      | --      | --      | --      | --      | --      |
| %RSD   | .9537849 | --      | --      | --      | --      | --      | --      |

|    |       |    |    |    |    |    |    |
|----|-------|----|----|----|----|----|----|
| #1 | 14050 | -- | -- | -- | -- | -- | -- |
| #2 | 13862 | -- | -- | -- | -- | -- | -- |

Method: METTRA Standard: STD7  
Run Time: 11/08/00 09:18:39

0057.1278

|      |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|
| Elem | AL     | BA     | BE     | CA     | CO     | CR     | CU     |
| Avge | 6.5359 | 13.038 | 10.653 | 4.5907 | 2.6310 | 10.496 | 3.1087 |
| SDev | .0667  | .119   | .075   | .0406  | .0204  | .082   | .0231  |
| %RSD | 1.0204 | .91531 | .70603 | .88360 | .77354 | .77758 | .74224 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 6.4887 | 12.954 | 10.600 | 4.5620 | 2.6166 | 10.438 | 3.0924 |
| #2 | 6.5831 | 13.123 | 10.706 | 4.6194 | 2.6454 | 10.554 | 3.1250 |

|      |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|
| Elem | FE     | MG     | MN     | MO     | NI     | V      | ZN     |
| Avge | 3.4379 | 12.909 | 8.6942 | 2.3321 | 2.0023 | .79055 | 2.3624 |
| SDev | .0240  | .097   | .0649  | .0224  | .0207  | .00726 | .0162  |
| %RSD | .69921 | .75426 | .74642 | .96231 | 1.0320 | .91804 | .68431 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 3.4209 | 12.840 | 8.6483 | 2.3162 | 1.9877 | .78541 | 2.3509 |
| #2 | 3.4549 | 12.978 | 8.7401 | 2.3480 | 2.0169 | .79568 | 2.3738 |

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13870    | --      | --      | --      | --      | --      | --      |
| SDev   | 2.368532 | --      | --      | --      | --      | --      | --      |
| %RSD   | .0170772 | --      | --      | --      | --      | --      | --      |

|    |       |    |    |    |    |    |    |
|----|-------|----|----|----|----|----|----|
| #1 | 13868 | -- | -- | -- | -- | -- | -- |
| #2 | 13871 | -- | -- | -- | -- | -- | -- |

Method: METTRA

Slope = Conc(SIR)/IR

674 491

| Element | Wavelen | High std | Low std | Slope   | Y-intercept | Date Standardized |
|---------|---------|----------|---------|---------|-------------|-------------------|
| AG      | 328.068 | STD6     | STD1    | .208285 | .001378     | 11/08/00 09:18:39 |
| AL      | 308.215 | STD7     | STD1    | 7.78207 | -.782803    | 11/08/00 09:18:39 |
| AS      | 189.042 | STD6     | STD1    | .183670 | .001592     | 11/08/00 09:18:39 |
| BA      | 493.409 | STD7     | STD1    | .306791 | -.000065    | 11/08/00 09:18:39 |
| BE      | 313.042 | STD7     | STD1    | .371092 | .014059     | 11/08/00 09:18:39 |
| CA      | 317.933 | STD7     | STD1    | 21.7964 | -.059974    | 11/08/00 09:18:39 |
| CD      | 226.502 | STD6     | STD1    | .081864 | -.000079    | 11/08/00 09:18:39 |
| CO      | 228.616 | STD7     | STD1    | 1.51959 | .001976     | 11/08/00 09:18:39 |
| CR      | 267.716 | STD7     | STD1    | .381019 | .000159     | 11/08/00 09:18:39 |
| CU      | 324.753 | STD7     | STD1    | 1.28823 | -.004757    | 11/08/00 09:18:39 |
| FE      | 271.441 | STD7     | STD1    | 14.6356 | .012014     | 11/08/00 09:18:39 |
| MG      | 279.078 | STD7     | STD1    | 7.74585 | .011240     | 11/08/00 09:18:39 |
| MN      | 257.610 | STD7     | STD1    | .460119 | -.000351    | 11/08/00 09:18:39 |
| MO      | 202.030 | STD7     | STD1    | 1.71573 | -.001244    | 11/08/00 09:18:39 |
| NI      | 231.604 | STD7     | STD1    | 1.99553 | .001416     | 11/08/00 09:18:39 |
| PB/1    | 220.351 | STD6     | STD1    | .203936 | -.004236    | 11/08/00 09:18:39 |
| PB/2    | 220.352 | STD6     | STD1    | .149602 | -.001404    | 11/08/00 09:18:39 |
| PB      | 220.353 | NONE     | NONE    | .000000 | .000000     | *NOT STANDARDIZED |
| SB/1    | 206.831 | STD6     | STD1    | .118705 | -.001826    | 11/08/00 09:18:39 |
| SB/2    | 206.832 | STD6     | STD1    | .212317 | -.000665    | 11/08/00 09:18:39 |
| SB      | 220.353 | NONE     | NONE    | .000000 | .000000     | *NOT STANDARDIZED |
| SE/1    | 196.021 | STD6     | STD1    | .207531 | .026590     | 11/08/00 09:18:39 |
| SE/2    | 196.022 | STD6     | STD1    | .282286 | -.019851    | 11/08/00 09:18:39 |
| SE      | 220.353 | NONE     | NONE    | .000000 | .000000     | *NOT STANDARDIZED |
| TL      | 190.864 | STD6     | STD1    | .592511 | .019913     | 11/08/00 09:18:39 |
| V       | 292.402 | STD7     | STD1    | 5.03736 | .000670     | 11/08/00 09:18:39 |
| ZN      | 213.856 | STD7     | STD1    | 1.70471 | .000029     | 11/08/00 09:18:39 |



Method: METTRA Sample Name: ICV3-1 0057-124-2 Operator: RJG  
 Run Time: 11/08/00 09:22:19  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .50961  | 11.912  | .25533  | 1.0077  | 1.0038  | 25.103  | .25075  |
| SDev   | .00358  | .047    | .00479  | .0074   | .0069   | .231    | .00190  |
| %RSD   | .70145  | .39473  | 1.8746  | .73342  | .68272  | .92148  | .75917  |
| #1     | .51214  | 11.945  | .25871  | 1.0130  | 1.0086  | 25.267  | .25209  |
| #2     | .50709  | 11.879  | .25194  | 1.0025  | .99893  | 24.940  | .24940  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .55000  | 13.750  | .27500  | 1.1000  | 1.1000  | 27.500  | .27500  |
| Low    | .45000  | 11.250  | .22500  | .90000  | .90000  | 22.500  | .22500  |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 1.0194  | 1.0190  | .97481  | 12.496  | 24.270  | .99885  | 1.0208  |
| SDev   | .0056   | .0075   | .00400  | .060    | .146    | .00577  | .0056   |
| %RSD   | .54895  | .73184  | .41019  | .48111  | .60240  | .57716  | .54501  |
| #1     | 1.0233  | 1.0242  | .97764  | 12.538  | 24.374  | 1.0029  | 1.0247  |
| #2     | 1.0154  | 1.0137  | .97198  | 12.453  | 24.167  | .99478  | 1.0169  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 1.1000  | 1.1000  | 1.1000  | 13.750  | 27.500  | 1.1000  | 1.1000  |
| Low    | .90000  | .90000  | .90000  | 11.250  | 22.500  | .90000  | .90000  |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 1.0122  | .25769  | .25154  | .25359  | .25178  | .25724  | .25542  |
| SDev   | .0149   | .00001  | .00205  | .00136  | .00069  | .00268  | .00156  |
| %RSD   | 1.4713  | .00412  | .81492  | .53778  | .27255  | 1.0406  | .60955  |
| #1     | 1.0227  | .25768  | .25299  | .25455  | .25129  | .25913  | .25652  |
| #2     | 1.0017  | .25769  | .25009  | .25263  | .25226  | .25535  | .25432  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 1.1000  |         |         | .27500  |         |         | .27500  |
| Low    | .90000  |         |         | .22500  |         |         | .22500  |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .25865  | .25307  | .25493  | .51856  | 1.0101  | 1.0446  |         |
| SDev   | .00179  | .00041  | .00032  | .00424  | .0088   | .0096   |         |
| %RSD   | .69197  | .16105  | .12716  | .81776  | .86836  | .91826  |         |
| #1     | .25992  | .25278  | .25516  | .52156  | 1.0163  | 1.0514  |         |
| #2     | .25739  | .25336  | .25470  | .51556  | 1.0039  | 1.0378  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .27500  | .55000  | 1.1000  | 1.1000  |         |
| Low    |         |         | .22500  | .45000  | .90000  | .90000  |         |

674 493

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14110    | --      | --      | --      | --      | --      | --      |
| SDev   | 69.68523 | --      | --      | --      | --      | --      | --      |
| %RSD   | .4938739 | --      | --      | --      | --      | --      | --      |
| #1     | 14061    | --      | --      | --      | --      | --      | --      |
| #2     | 14159    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: ICB1

Operator: RJG

Run Time: 11/08/00 09:26:28

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00169  | -.00939 | -.00158 | .00070  | -.00061 | .04503  | .00003  |
| SDev   | .00013  | .00256  | .00024  | .00019  | .00004  | .00887  | .00001  |
| %RSD   | 7.4390  | 27.274  | 15.429  | 27.550  | 6.4834  | 19.699  | 24.042  |
| #1     | .00160  | -.01120 | -.00141 | .00056  | -.00058 | .03875  | .00003  |
| #2     | .00178  | -.00758 | -.00175 | .00084  | -.00064 | .05130  | .00004  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00125  | .00193  | .00195  | .01294  | .02277  | .00090  | .00350  |
| SDev   | .00012  | .00002  | .00027  | .00442  | .00545  | .00016  | .00068  |
| %RSD   | 9.2176  | 1.1066  | 13.678  | 34.112  | 23.924  | 18.018  | 19.492  |
| #1     | .00133  | .00191  | .00176  | .00982  | .01892  | .00079  | .00398  |
| #2     | .00117  | .00194  | .00214  | .01607  | .02662  | .00102  | .00301  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00347  | .00488  | -.00077 | .00111  | -.00300 | .00065  | -.00057 |
| SDev   | .00210  | .00032  | .00030  | .00030  | .00071  | .00153  | .00126  |
| %RSD   | 60.495  | 6.4828  | 38.951  | 27.364  | 23.696  | 236.37  | 221.51  |
| #1     | .00495  | .00511  | -.00056 | .00133  | -.00249 | .00173  | .00032  |
| #2     | .00198  | .00466  | -.00098 | .00090  | -.00350 | -.00043 | -.00145 |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00146  | -.00029 | .00029  | -.00013 | .00157  | .00493  |         |
| SDev   | .00083  | .00136  | .00118  | .00137  | .00025  | .00458  |         |
| %RSD   | 56.956  | 468.49  | 403.67  | 1068.4  | 15.939  | 92.951  |         |
| #1     | .00087  | -.00125 | -.00054 | -.00110 | .00174  | .00169  |         |
| #2     | .00205  | .00067  | .00113  | .00084  | .00139  | .00818  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

**674 495**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14116    | --      | --      | --      | --      | --      | --      |
| SDev   | 18.20800 | --      | --      | --      | --      | --      | --      |
| %RSD   | .1289840 | --      | --      | --      | --      | --      | --      |
| #1     | 14129    | --      | --      | --      | --      | --      | --      |
| #2     | 14104    | --      | --      | --      | --      | --      | --      |

Method: METTRA

Sample Name: ICSA 0057-115-1

Operator: RJG

Run Time: 11/08/00 09:30:38

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 674 496

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00097  | 547.28  | .00124  | .00202  | -.00283 | 506.31  | .00178  |
| SDev   | .00084  | 2.20    | .00055  | .00003  | .00004  | .04     | .00009  |
| %RSD   | 86.671  | .40149  | 44.308  | 1.2153  | 1.4733  | .00814  | 5.0389  |
| #1     | .00156  | 545.72  | .00163  | .00204  | -.00280 | 506.28  | .00184  |
| #2     | .00037  | 548.83  | .00085  | .00200  | -.00286 | 506.34  | .00172  |
| Errors | NOCHECK | QC Pass | NOCHECK | NOCHECK | NOCHECK | QC Pass | NOCHECK |
| Value  |         | 500.00  |         |         |         | 500.00  |         |
| Range  |         | 20.000  |         |         |         | 20.000  |         |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00048  | .00273  | .00137  | 213.89  | 554.99  | .00877  | .00061  |
| SDev   | .00004  | .00043  | .00033  | .62     | 1.20    | .00015  | .00204  |
| %RSD   | 9.1830  | 15.779  | 24.373  | .28773  | .21674  | 1.7090  | 332.62  |
| #1     | .00051  | .00303  | .00113  | 213.45  | 554.14  | .00888  | .00206  |
| #2     | .00045  | .00242  | .00160  | 214.32  | 555.84  | .00866  | -.00083 |
| Errors | NOCHECK | NOCHECK | NOCHECK | QC Pass | QC Pass | NOCHECK | NOCHECK |
| Value  |         |         |         | 200.00  | 500.00  |         |         |
| Range  |         |         |         | 20.000  | 20.000  |         |         |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00454  | -.02223 | .00915  | -.00130 | -.00835 | .01026  | .00406  |
| SDev   | .00034  | .00420  | .00322  | .00075  | .01043  | .00288  | .00155  |
| %RSD   | 7.5338  | 18.891  | 35.223  | 57.807  | 124.91  | 28.067  | 38.229  |
| #1     | .00430  | -.01926 | .00687  | -.00183 | -.01573 | .01230  | .00296  |
| #2     | .00478  | -.02520 | .01143  | -.00077 | -.00098 | .00822  | .00516  |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .01312  | -.00653 | .00001  | -.00264 | .01264  | .00375  |         |
| SDev   | .00123  | .00400  | .00308  | .00519  | .00098  | .00014  |         |
| %RSD   | 9.3770  | 61.193  | 26197.  | 196.07  | 7.7458  | 3.6780  |         |
| #1     | .01398  | -.00370 | .00219  | .00102  | .01333  | .00366  |         |
| #2     | .01225  | -.00936 | -.00216 | -.00631 | .01194  | .00385  |         |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |         |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

**674 497**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 12461    | --      | --      | --      | --      | --      | --      |
| SDev   | 9.262822 | --      | --      | --      | --      | --      | --      |
| %RSD   | .0743366 | --      | --      | --      | --      | --      | --      |
| #1     | 12467    | --      | --      | --      | --      | --      | --      |
| #2     | 12454    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: ICSAB 0057-102-1 Operator: RJG

Run Time: 11/08/00 09:34:48

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 674 498

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 1.1018  | 521.59  | 1.0330  | .52358  | .49903  | 481.20  | .93537  |
| SDev   | .0004   | 1.94    | .0003   | .00306  | .00083  | .62     | .00034  |
| %RSD   | .03841  | .37231  | .02701  | .58363  | .16595  | .12944  | .03604  |
| #1     | 1.1021  | 522.97  | 1.0328  | .52574  | .49962  | 481.64  | .93561  |
| #2     | 1.1015  | 520.22  | 1.0332  | .52142  | .49845  | 480.76  | .93513  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | 1.0000  | 500.00  | 1.0000  | .50000  | .50000  | 500.00  | 1.0000  |
| Range  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .49214  | .50832  | .54354  | 203.32  | 523.95  | .51153  | .99941  |
| SDev   | .00108  | .00026  | .00173  | .27     | .52     | .00055  | .00065  |
| %RSD   | .22013  | .05133  | .31858  | .13500  | .09937  | .10812  | .06539  |
| #1     | .49137  | .50850  | .54476  | 203.51  | 524.32  | .51192  | .99988  |
| #2     | .49290  | .50813  | .54232  | 203.12  | 523.59  | .51114  | .99895  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | .50000  | .50000  | .50000  | 200.00  | 500.00  | .50000  | 1.0000  |
| Range  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .98700  | .98472  | .99396  | .99088  | 1.0347  | 1.0540  | 1.0476  |
| SDev   | .00410  | .01071  | .00971  | .01005  | .0073   | .0125   | .0108   |
| %RSD   | .41551  | 1.0878  | .97730  | 1.0139  | .70980  | 1.1867  | 1.0298  |
| #1     | .98990  | .97715  | .98709  | .98378  | 1.0295  | 1.0452  | 1.0400  |
| #2     | .98410  | .99230  | 1.0008  | .99799  | 1.0399  | 1.0629  | 1.0552  |
| Errors | QC Pass | NOCHECK | NOCHECK | QC Pass | NOCHECK | NOCHECK | QC Pass |
| Value  | 1.0000  |         |         | 1.0000  |         |         | 1.0000  |
| Range  | 20.000  |         |         | 20.000  |         |         | 20.000  |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | 1.0379  | 1.0339  | 1.0352  | 1.0700  | .52500  | 1.0578  |         |
| SDev   | .0051   | .0058   | .0056   | .0031   | .00177  | .0018   |         |
| %RSD   | .49586  | .56559  | .54230  | .28563  | .33796  | .16877  |         |
| #1     | 1.0343  | 1.0298  | 1.0313  | 1.0722  | .52626  | 1.0591  |         |
| #2     | 1.0416  | 1.0380  | 1.0392  | 1.0679  | .52375  | 1.0566  |         |
| Errors | NOCHECK | NOCHECK | QC Pass | QC Pass | QC Pass | QC Pass |         |
| Value  |         |         | 1.0000  | 1.0000  | .50000  | 1.0000  |         |
| Range  |         |         | 20.000  | 20.000  | 20.000  | 20.000  |         |

**674 499**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13022    | --      | --      | --      | --      | --      | --      |
| SDev   | 14.53160 | --      | --      | --      | --      | --      | --      |
| %RSD   | .1115963 | --      | --      | --      | --      | --      | --      |
| #1     | 13032    | --      | --      | --      | --      | --      | --      |
| #2     | 13011    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DN18LB

Operator: RJG

Run Time: 11/08/00 09:41:13

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00101  | .02648  | -.00042 | .00052  | -.00110 | .09196  | .00003  |
| SDev   | .00025  | .00122  | .00083  | .00001  | .00003  | .00373  | .00000  |
| %RSD   | 25.114  | 4.6216  | 196.60  | 2.4639  | 2.4004  | 4.0606  | 4.6112  |
| #1     | .00083  | .02562  | .00017  | .00051  | -.00108 | .08932  | .00004  |
| #2     | .00119  | .02735  | -.00101 | .00053  | -.00111 | .09460  | .00003  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00019  | .00242  | .00161  | .04066  | .05089  | .00052  | .00132  |
| SDev   | .00031  | .00035  | .00030  | .00825  | .00918  | .00007  | .00087  |
| %RSD   | 163.80  | 14.637  | 18.418  | 20.276  | 18.040  | 12.721  | 66.159  |
| #1     | -.00003 | .00217  | .00140  | .04649  | .04440  | .00047  | .00194  |
| #2     | .00041  | .00267  | .00182  | .03483  | .05738  | .00056  | .00070  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00248  | .00307  | -.00237 | -.00056 | -.00233 | .00035  | -.00054 |
| SDev   | .00090  | .00077  | .00002  | .00027  | .00170  | .00346  | .00175  |
| %RSD   | 36.264  | 25.019  | .80610  | 48.146  | 72.870  | 984.29  | 322.82  |
| #1     | .00184  | .00253  | -.00238 | -.00075 | -.00113 | -.00210 | -.00178 |
| #2     | .00311  | .00361  | -.00236 | -.00037 | -.00353 | .00280  | .00069  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | -.00017 | -.00068 | -.00051 | -.00572 | .00122  | .00213  |         |
| SDev   | .00423  | .00017  | .00152  | .00357  | .00025  | .00007  |         |
| %RSD   | 2517.1  | 25.081  | 298.08  | 62.344  | 20.334  | 3.4205  |         |
| #1     | -.00316 | -.00080 | -.00159 | -.00824 | .00105  | .00208  |         |
| #2     | .00282  | -.00056 | .00057  | -.00320 | .00140  | .00218  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14058    | --      | --      | --      | --      | --      | --      |
| SDev   | 60.24564 | --      | --      | --      | --      | --      | --      |
| %RSD   | .4285475 | --      | --      | --      | --      | --      | --      |
| #1     | 14016    | --      | --      | --      | --      | --      | --      |
| #2     | 14101    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN18LC Operator: RJG  
 Run Time: 11/08/00 09:45:22  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .05223  | 2.0287  | 2.0187  | 1.9799  | .04953  | 49.550  | .04796  |
| SDev   | .00018  | .0183   | .0023   | .0006   | .00014  | .022    | .00046  |
| %RSD   | .34655  | .90228  | .11552  | .03088  | .28883  | .04503  | .95907  |
| #1     | .05210  | 2.0157  | 2.0204  | 1.9794  | .04963  | 49.565  | .04764  |
| #2     | .05236  | 2.0416  | 2.0171  | 1.9803  | .04943  | 49.534  | .04829  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .06000  | 2.4000  | 2.4000  | 2.4000  | .06000  | 60.000  | .06000  |
| Low    | .04000  | 1.6000  | 1.6000  | 1.6000  | .04000  | 40.000  | .04000  |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .50327  | .20537  | .24702  | 1.0225  | 48.123  | .49544  | .99965  |
| SDev   | .00026  | .00021  | .00071  | .0092   | .025    | .00031  | .00098  |
| %RSD   | .05099  | .10463  | .28596  | .90412  | .05133  | .06231  | .09760  |
| #1     | .50345  | .20522  | .24653  | 1.0290  | 48.106  | .49522  | .99896  |
| #2     | .50309  | .20552  | .24752  | 1.0160  | 48.141  | .49566  | 1.0003  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .60000  | .24000  | .30000  | 1.2000  | 60.000  | .60000  | 1.2000  |
| Low    | .40000  | .16000  | .20000  | .80000  | 40.000  | .40000  | .80000  |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .50397  | .50342  | .49157  | .49551  | .48093  | .50161  | .49472  |
| SDev   | .00194  | .00030  | .00110  | .00083  | .00117  | .00550  | .00328  |
| %RSD   | .38572  | .05907  | .22422  | .16835  | .24357  | 1.0972  | .66317  |
| #1     | .50535  | .50321  | .49079  | .49492  | .48010  | .50550  | .49704  |
| #2     | .50260  | .50363  | .49235  | .49610  | .48176  | .49772  | .49240  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .60000  |         |         | .60000  |         |         | .60000  |
| Low    | .40000  |         |         | .40000  |         |         | .40000  |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | 2.0159  | 2.0060  | 2.0093  | 2.0989  | .50071  | .51528  |         |
| SDev   | .0043   | .0143   | .0081   | .0049   | .00036  | .00004  |         |
| %RSD   | .21335  | .71405  | .40420  | .23259  | .07271  | .00786  |         |
| #1     | 2.0189  | 1.9958  | 2.0035  | 2.0955  | .50097  | .51525  |         |
| #2     | 2.0129  | 2.0161  | 2.0150  | 2.1024  | .50046  | .51531  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 2.4000  | 2.4000  | .60000  | .60000  |         |
| Low    |         |         | 1.6000  | 1.6000  | .40000  | .40000  |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13997    | --      | --      | --      | --      | --      | --      |
| SDev   | 45.74995 | --      | --      | --      | --      | --      | --      |
| %RSD   | .3268484 | --      | --      | --      | --      | --      | --      |
| #1     | 13965    | --      | --      | --      | --      | --      | --      |
| #2     | 14030    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8XM

Operator: RJG

Run Time: 11/08/00 09:49:31

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00139  | .08213  | .00277  | .02195  | -.00171 | 261.66  | .00064  |
| SDev   | .00003  | .00220  | .00000  | .00007  | .00022  | 1.30    | .00012  |
| %RSD   | 2.3717  | 2.6756  | .02451  | .30300  | 12.713  | .49627  | 18.155  |
| #1     | .00136  | .08368  | .00277  | .02190  | -.00156 | 260.74  | .00072  |
| #2     | .00141  | .08057  | .00277  | .02199  | -.00186 | 262.58  | .00056  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00573  | .00468  | .00474  | 3.8109  | 134.20  | 1.0894  | .01571  |
| SDev   | .00018  | .00019  | .00023  | .0211   | .80     | .0074   | .00080  |
| %RSD   | 3.0940  | 4.1378  | 4.7586  | .55353  | .59742  | .67735  | 5.0962  |
| #1     | .00585  | .00481  | .00458  | 3.7960  | 133.63  | 1.0842  | .01628  |
| #2     | .00560  | .00454  | .00490  | 3.8259  | 134.77  | 1.0946  | .01514  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .16037  | .00752  | -.00213 | .00109  | .00136  | .00833  | .00601  |
| SDev   | .00136  | .00360  | .00207  | .00018  | .00270  | .00320  | .00124  |
| %RSD   | .84864  | 47.918  | 97.295  | 16.643  | 197.78  | 38.431  | 20.576  |
| #1     | .16134  | .01007  | -.00359 | .00096  | -.00054 | .01059  | .00689  |
| #2     | .15941  | .00497  | -.00066 | .00121  | .00327  | .00607  | .00514  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00417  | .00065  | .00182  | -.00323 | .00740  | .01588  |         |
| SDev   | .00119  | .00149  | .00139  | .00736  | .00076  | .00029  |         |
| %RSD   | 28.453  | 227.87  | 76.013  | 227.77  | 10.202  | 1.7998  |         |
| #1     | .00333  | -.00040 | .00084  | .00197  | .00793  | .01568  |         |
| #2     | .00501  | .00170  | .00280  | -.00843 | .00686  | .01608  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13458    | --      | --      | --      | --      | --      | --      |
| SDev   | 80.07984 | --      | --      | --      | --      | --      | --      |
| %RSD   | .5950518 | --      | --      | --      | --      | --      | --      |
| #1     | 13514    | --      | --      | --      | --      | --      | --      |
| #2     | 13401    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8XMP5

Operator: RJG

Run Time: 11/08/00 09:53:40

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL      | AS     | BA     | BE      | CA     | CD     |
|-------|--------|---------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00133 | -.00391 | .00094 | .00448 | -.00107 | 51.064 | .00037 |
| SDev  | .00023 | .00170  | .00054 | .00015 | .00006  | .425   | .00012 |
| %RSD  | 17.110 | 43.475  | 57.454 | 3.2838 | 5.5422  | .83313 | 31.434 |

|    |        |         |        |        |         |        |        |
|----|--------|---------|--------|--------|---------|--------|--------|
| #1 | .00150 | -.00271 | .00132 | .00437 | -.00103 | 50.763 | .00046 |
| #2 | .00117 | -.00511 | .00056 | .00458 | -.00111 | 51.365 | .00029 |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN     | MO     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00195 | .00145 | .00218 | .69375 | 24.677 | .20930 | .00377 |
| SDev  | .00026 | .00011 | .00028 | .01428 | .216   | .00203 | .00007 |
| %RSD  | 13.576 | 7.5310 | 12.966 | 2.0589 | .87470 | .96954 | 1.7635 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00176 | .00152 | .00198 | .68365 | 24.524 | .20787 | .00382 |
| #2 | .00214 | .00137 | .00238 | .70385 | 24.829 | .21074 | .00372 |

| Elem  | NI     | PB/1   | PB/2    | PB     | SB/1    | SB/2   | SB     |
|-------|--------|--------|---------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avge  | .09227 | .00259 | -.00122 | .00005 | -.00062 | .00087 | .00037 |
| SDev  | .02130 | .00190 | .00074  | .00113 | .00147  | .00101 | .00116 |
| %RSD  | 23.086 | 73.198 | 60.647  | 2262.1 | 235.84  | 115.82 | 310.11 |

|    |        |        |         |         |         |        |         |
|----|--------|--------|---------|---------|---------|--------|---------|
| #1 | .07721 | .00394 | -.00070 | .00085  | -.00166 | .00016 | -.00045 |
| #2 | .10733 | .00125 | -.00174 | -.00075 | .00041  | .00159 | .00120  |

| Elem  | SE/1   | SE/2    | SE      | TL      | V_     | ZN     |
|-------|--------|---------|---------|---------|--------|--------|
| Units | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    |
| Avge  | .00151 | -.00130 | -.00037 | -.00216 | .00286 | .00345 |
| SDev  | .00046 | .00035  | .00008  | .00005  | .00024 | .00011 |
| %RSD  | 30.277 | 27.251  | 23.110  | 2.2946  | 8.3484 | 3.2934 |

|    |        |         |         |         |        |        |
|----|--------|---------|---------|---------|--------|--------|
| #1 | .00183 | -.00155 | -.00043 | -.00212 | .00303 | .00337 |
| #2 | .00118 | -.00105 | -.00031 | -.00219 | .00269 | .00353 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14206    | --      | --      | --      | --      | --      | --      |
| SDev   | 53.70421 | --      | --      | --      | --      | --      | --      |
| %RSD   | .3780303 | --      | --      | --      | --      | --      | --      |
| #1     | 14244    | --      | --      | --      | --      | --      | --      |
| #2     | 14168    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DM8XMS Operator: RJG  
 Run Time: 11/08/00 09:57:48  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05892  | 2.4852  | 2.2370  | 2.1974  | .05240  | 319.14  | .05125  |
| SDev   | .00092  | .0244   | .0183   | .0194   | .00040  | 3.20    | .00021  |
| %RSD   | 1.5584  | .98295  | .81813  | .88291  | .75928  | 1.0040  | .41755  |
| #1     | .05957  | 2.5025  | 2.2500  | 2.2111  | .05268  | 321.41  | .05140  |
| #2     | .05827  | 2.4680  | 2.2241  | 2.1837  | .05212  | 316.87  | .05110  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .54546  | .22259  | .28366  | 5.0031  | 193.20  | 1.6546  | 1.0953  |
| SDev   | .00376  | .00276  | .00179  | .0465   | 1.54    | .0131   | .0070   |
| %RSD   | .68875  | 1.2416  | .63289  | .92944  | .79933  | .78939  | .63870  |
| #1     | .54812  | .22454  | .28493  | 5.0360  | 194.29  | 1.6638  | 1.1003  |
| #2     | .54281  | .22063  | .28239  | 4.9702  | 192.11  | 1.6454  | 1.0904  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .69643  | .55365  | .53213  | .53930  | .54071  | .56508  | .55697  |
| SDev   | .00770  | .00366  | .00134  | .00212  | .00500  | .00041  | .00139  |
| %RSD   | 1.1052  | .66194  | .25239  | .39240  | .92434  | .07200  | .25010  |
| #1     | .70187  | .55624  | .53308  | .54079  | .53718  | .56537  | .55598  |
| #2     | .69098  | .55106  | .53118  | .53780  | .54425  | .56479  | .55795  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | 2.2495  | 2.2588  | 2.2557  | 2.3343  | .54903  | .58048  |         |
| SDev   | .0032   | .0128   | .0075   | .0212   | .00490  | .00501  |         |
| %RSD   | .14204  | .56590  | .33081  | .91013  | .89200  | .86321  |         |
| #1     | 2.2472  | 2.2678  | 2.2610  | 2.3494  | .55249  | .58402  |         |
| #2     | 2.2517  | 2.2497  | 2.2504  | 2.3193  | .54557  | .57694  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13210    | --      | --      | --      | --      | --      | --      |
| SDev   | 85.38314 | --      | --      | --      | --      | --      | --      |
| %RSD   | .6463535 | --      | --      | --      | --      | --      | --      |
| #1     | 13150    | --      | --      | --      | --      | --      | --      |
| #2     | 13270    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8XMD

Operator: RJG

Run Time: 11/08/00 10:01:56

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05611  | 2.3304  | 2.1225  | 2.0772  | .04988  | 302.33  | .04851  |
| SDev   | .00052  | .0063   | .0093   | .0018   | .00024  | 1.04    | .00067  |
| %RSD   | .93232  | .26923  | .43789  | .08539  | .49132  | .34509  | 1.3749  |
| #1     | .05648  | 2.3259  | 2.1291  | 2.0759  | .05005  | 303.07  | .04898  |
| #2     | .05574  | 2.3348  | 2.1160  | 2.0784  | .04971  | 301.59  | .04804  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .51631  | .21104  | .26869  | 4.7140  | 182.70  | 1.5663  | 1.0428  |
| SDev   | .00128  | .00137  | .00032  | .0145   | .18     | .0031   | .0020   |
| %RSD   | .24819  | .64841  | .11939  | .30777  | .09859  | .19555  | .18874  |
| #1     | .51721  | .21201  | .26891  | 4.7038  | 182.83  | 1.5685  | 1.0442  |
| #2     | .51540  | .21008  | .26846  | 4.7243  | 182.57  | 1.5642  | 1.0414  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .65406  | .52751  | .50835  | .51473  | .51567  | .53746  | .53020  |
| SDev   | .00757  | .00413  | .00355  | .00375  | .00129  | .00588  | .00349  |
| %RSD   | 1.1572  | .78291  | .69907  | .72768  | .25030  | 1.0949  | .65922  |
| #1     | .65941  | .53043  | .51086  | .51738  | .51476  | .54162  | .53268  |
| #2     | .64871  | .52459  | .50584  | .51208  | .51659  | .53330  | .52773  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | 2.1452  | 2.1528  | 2.1502  | 2.2151  | .52280  | .55237  |         |
| SDev   | .0184   | .0100   | .0128   | .0064   | .00039  | .00265  |         |
| %RSD   | .85692  | .46611  | .59594  | .29100  | .07521  | .48024  |         |
| #1     | 2.1582  | 2.1599  | 2.1593  | 2.2196  | .52252  | .55425  |         |
| #2     | 2.1322  | 2.1457  | 2.1412  | 2.2105  | .52308  | .55050  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

**674 511**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13447    | --      | --      | --      | --      | --      | --      |
| SDev   | 147.3613 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.095876 | --      | --      | --      | --      | --      | --      |
| #1     | 13343    | --      | --      | --      | --      | --      | --      |
| #2     | 13551    | --      | --      | --      | --      | --      | --      |

Method: METTRA

Sample Name: DM8XN

Operator: RJG

Run Time: 11/08/00 10:06:05

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00153  | .03648  | .00143  | .03235  | -.00154 | 303.66  | .00098  |
| SDev   | .00034  | .01385  | .00158  | .00067  | .00030  | 5.95    | .00001  |
| %RSD   | 22.332  | 37.968  | 110.57  | 2.0830  | 19.310  | 1.9595  | 1.2805  |
| #1     | .00129  | .04627  | .00031  | .03283  | -.00176 | 307.87  | .00097  |
| #2     | .00177  | .02668  | .00255  | .03187  | -.00133 | 299.46  | .00098  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00366  | .00422  | .00828  | -.00424 | 167.92  | 1.2161  | .01069  |
| SDev   | .00010  | .00020  | .00030  | .02528  | 3.24    | .0243   | .00077  |
| %RSD   | 2.6061  | 4.7883  | 3.6470  | 596.76  | 1.9313  | 1.9989  | 7.2339  |
| #1     | .00359  | .00408  | .00850  | .01364  | 170.21  | 1.2333  | .01124  |
| #2     | .00373  | .00437  | .00807  | -.02211 | 165.63  | 1.1989  | .01014  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .17058  | .00650  | -.00106 | .00146  | -.00104 | .00606  | .00370  |
| SDev   | .00569  | .00104  | .00185  | .00158  | .00155  | .00142  | .00146  |
| %RSD   | 3.3362  | 16.054  | 175.05  | 108.72  | 149.87  | 23.419  | 39.592  |
| #1     | .17460  | .00723  | .00025  | .00258  | .00006  | .00706  | .00473  |
| #2     | .16656  | .00576  | -.00237 | .00034  | -.00213 | .00506  | .00266  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00169  | .00082  | .00111  | -.00041 | .00690  | .01167  |         |
| SDev   | .00081  | .00212  | .00168  | .00251  | .00009  | .00039  |         |
| %RSD   | 47.899  | 259.80  | 151.92  | 612.50  | 1.2984  | 3.3686  |         |
| #1     | .00227  | .00231  | .00230  | .00137  | .00697  | .01195  |         |
| #2     | .00112  | -.00068 | -.00008 | -.00219 | .00684  | .01139  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13734    | --      | --      | --      | --      | --      | --      |
| SDev   | 178.4381 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.299218 | --      | --      | --      | --      | --      | --      |
| #1     | 13608    | --      | --      | --      | --      | --      | --      |
| #2     | 13860    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: CCV3-1 0057-137-2 Operator: RJG  
 Run Time: 11/08/00 10:10:13  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 1.0099  | 23.797  | .49957  | 1.9685  | 2.0040  | 49.864  | .48726  |
| SDev   | .0173   | .293    | .01150  | .0191   | .0381   | .961    | .01131  |
| %RSD   | 1.7158  | 1.2316  | 2.3015  | .97121  | 1.8990  | 1.9274  | 2.3203  |
| #1     | 1.0222  | 24.004  | .50770  | 1.9820  | 2.0309  | 50.543  | .49525  |
| #2     | .99768  | 23.590  | .49144  | 1.9550  | 1.9771  | 49.184  | .47926  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 1.1000  | 27.500  | .55000  | 2.2000  | 2.2000  | 55.000  | .55000  |
| Low    | .90000  | 22.500  | .45000  | 1.8000  | 1.8000  | 45.000  | .45000  |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 2.0048  | 1.9980  | 1.9380  | 24.684  | 48.221  | 1.9734  | 2.0016  |
| SDev   | .0426   | .0403   | .0248   | .450    | .824    | .0358   | .0331   |
| %RSD   | 2.1239  | 2.0190  | 1.2804  | 1.8234  | 1.7098  | 1.8158  | 1.6527  |
| #1     | 2.0349  | 2.0265  | 1.9556  | 25.003  | 48.804  | 1.9987  | 2.0250  |
| #2     | 1.9747  | 1.9695  | 1.9205  | 24.366  | 47.638  | 1.9481  | 1.9782  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.2000  | 2.2000  | 2.2000  | 27.500  | 55.000  | 2.2000  | 2.2000  |
| Low    | 1.8000  | 1.8000  | 1.8000  | 22.500  | 45.000  | 1.8000  | 1.8000  |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 1.9919  | .50213  | .49274  | .49586  | .49996  | .50571  | .50379  |
| SDev   | .0392   | .01973  | .01770  | .01838  | .01668  | .01934  | .01845  |
| %RSD   | 1.9683  | 3.9302  | 3.5926  | 3.7065  | 3.3365  | 3.8237  | 3.6627  |
| #1     | 2.0197  | .51608  | .50525  | .50886  | .51175  | .51938  | .51684  |
| #2     | 1.9642  | .48817  | .48022  | .48287  | .48816  | .49203  | .49075  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 2.2000  |         |         | .55000  |         |         | .55000  |
| Low    | 1.8000  |         |         | .45000  |         |         | .45000  |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | .50766  | .50862  | .50830  | 1.0152  | 1.9861  | 2.0228  |         |
| SDev   | .00957  | .02145  | .01750  | .0176   | .0357   | .0399   |         |
| %RSD   | 1.8843  | 4.2182  | 3.4420  | 1.7371  | 1.7954  | 1.9721  |         |
| #1     | .51442  | .52379  | .52067  | 1.0277  | 2.0113  | 2.0510  |         |
| #2     | .50090  | .49345  | .49593  | 1.0028  | 1.9609  | 1.9946  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .55000  | 1.1000  | 2.2000  | 2.2000  |         |
| Low    |         |         | .45000  | .90000  | 1.8000  | 1.8000  |         |

**674 515**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14124    | --      | --      | --      | --      | --      | --      |
| SDev   | 439.2197 | --      | --      | --      | --      | --      | --      |
| %RSD   | 3.109822 | --      | --      | --      | --      | --      | --      |
| #1     | 13813    | --      | --      | --      | --      | --      | --      |
| #2     | 14434    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: CCB1

Operator: RJG

Run Time: 11/08/00 10:14:22

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS      | BA     | BE      | CA     | CD     |
|-------|--------|--------|---------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00146 | .00441 | -.00056 | .00078 | -.00068 | .06555 | .00002 |
| SDev  | .00024 | .01232 | .00069  | .00026 | .00042  | .01630 | .00024 |
| %RSD  | 16.700 | 279.27 | 122.90  | 33.815 | 61.858  | 24.865 | 962.51 |

|    |        |         |         |        |         |        |         |
|----|--------|---------|---------|--------|---------|--------|---------|
| #1 | .00164 | .01313  | -.00105 | .00059 | -.00097 | .05403 | -.00014 |
| #2 | .00129 | -.00430 | -.00007 | .00096 | -.00038 | .07708 | .00019  |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN     | MO     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00146 | .00159 | .00193 | .01881 | .03941 | .00093 | .00417 |
| SDev  | .00003 | .00026 | .00007 | .00976 | .01278 | .00030 | .00063 |
| %RSD  | 1.9414 | 16.438 | 3.4311 | 51.882 | 32.441 | 32.308 | 15.058 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00148 | .00140 | .00198 | .02571 | .03037 | .00072 | .00461 |
| #2 | .00144 | .00177 | .00189 | .01191 | .04845 | .00114 | .00373 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |

| Elem  | NI     | PB/1   | PB/2    | PB      | SB/1    | SB/2   | SB      |
|-------|--------|--------|---------|---------|---------|--------|---------|
| Units | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avge  | .00299 | .00162 | -.00190 | -.00073 | -.00235 | .00078 | -.00026 |
| SDev  | .00037 | .00092 | .00027  | .00049  | .00298  | .00290 | .00094  |
| %RSD  | 12.506 | 56.560 | 14.349  | 66.629  | 126.73  | 371.66 | 359.06  |

|    |        |        |         |         |         |         |         |
|----|--------|--------|---------|---------|---------|---------|---------|
| #1 | .00272 | .00097 | -.00210 | -.00107 | -.00024 | -.00127 | -.00093 |
| #2 | .00325 | .00226 | -.00171 | -.00039 | -.00446 | .00283  | .00040  |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem  | SE/1   | SE/2   | SE     | TL     | V      | ZN     |
|-------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00217 | .00196 | .00203 | .00067 | .00086 | .00184 |
| SDev  | .00054 | .00026 | .00001 | .00365 | .00026 | .00022 |
| %RSD  | 24.982 | 13.327 | .35125 | 542.57 | 30.493 | 12.080 |

|    |        |        |        |         |        |        |
|----|--------|--------|--------|---------|--------|--------|
| #1 | .00179 | .00214 | .00202 | -.00191 | .00104 | .00168 |
| #2 | .00256 | .00177 | .00203 | .00325  | .00067 | .00200 |

|        |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13960    | --      | --      | --      | --      | --      | --      |
| SDev   | 274.5694 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.966794 | --      | --      | --      | --      | --      | --      |
| #1     | 13766    | --      | --      | --      | --      | --      | --      |
| #2     | 14154    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN18JB

Operator: RJG

Run Time: 11/08/00 10:18:31

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00119  | .01104  | -.00059 | .00067  | -.00111 | .05705  | .00019  |
| SDev   | .00035  | .00600  | .00190  | .00006  | .00001  | .00065  | .00007  |
| %RSD   | 29.757  | 54.313  | 319.04  | 8.8038  | 1.0759  | 1.1339  | 35.773  |
| #1     | .00094  | .01528  | -.00194 | .00063  | -.00112 | .05751  | .00014  |
| #2     | .00144  | .00680  | .00075  | .00071  | -.00111 | .05659  | .00024  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00016  | .00260  | .00167  | .01304  | .02922  | .00077  | .00318  |
| SDev   | .00015  | .00047  | .00026  | .00901  | .00149  | .00003  | .00047  |
| %RSD   | 93.040  | 18.246  | 15.702  | 69.111  | 5.0998  | 3.8796  | 14.624  |
| #1     | .00026  | .00227  | .00148  | .00667  | .02817  | .00079  | .00351  |
| #2     | .00005  | .00294  | .00185  | .01942  | .03027  | .00075  | .00285  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00525  | .00986  | -.00305 | .00125  | -.00407 | .00173  | -.00020 |
| SDev   | .00069  | .00064  | .00076  | .00029  | .00017  | .00211  | .00135  |
| %RSD   | 13.241  | 6.4999  | 24.885  | 23.516  | 4.2433  | 121.83  | 676.43  |
| #1     | .00476  | .01031  | -.00359 | .00104  | -.00395 | .00024  | -.00116 |
| #2     | .00574  | .00941  | -.00252 | .00145  | -.00420 | .00323  | .00076  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V__     | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | -.00518 | .00541  | .00188  | -.00444 | .00140  | .00176  |         |
| SDev   | .00421  | .00153  | .00038  | .00026  | .00052  | .00020  |         |
| %RSD   | 81.222  | 28.223  | 20.399  | 5.8843  | 36.744  | 11.589  |         |
| #1     | -.00816 | .00649  | .00161  | -.00425 | .00104  | .00162  |         |
| #2     | -.00221 | .00433  | .00215  | -.00462 | .00177  | .00191  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13783    | --      | --      | --      | --      | --      | --      |
| SDev   | 76.19076 | --      | --      | --      | --      | --      | --      |
| %RSD   | .5527929 | --      | --      | --      | --      | --      | --      |
| #1     | 13729    | --      | --      | --      | --      | --      | --      |
| #2     | 13837    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN18JC Operator: RJG  
 Run Time: 11/08/00 10:22:40  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05422  | 2.1258  | 2.0654  | 2.0615  | .05183  | 51.808  | .05012  |
| SDev   | .00025  | .0045   | .0003   | .0003   | .00022  | .159    | .00029  |
| %RSD   | .46159  | .21081  | .01294  | .01562  | .42396  | .30618  | .57249  |
| #1     | .05439  | 2.1226  | 2.0656  | 2.0612  | .05199  | 51.921  | .05033  |
| #2     | .05404  | 2.1289  | 2.0652  | 2.0617  | .05168  | 51.696  | .04992  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .06000  | 2.4000  | 2.4000  | 2.4000  | .06000  | 60.000  | .06000  |
| Low    | .04000  | 1.6000  | 1.6000  | 1.6000  | .04000  | 40.000  | .04000  |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .52355  | .21302  | .25823  | .93752  | 50.095  | .51341  | 1.0513  |
| SDev   | .00016  | .00048  | .00086  | .00264  | .007    | .00016  | .0001   |
| %RSD   | .03146  | .22476  | .33398  | .28114  | .01320  | .03145  | .01247  |
| #1     | .52343  | .21336  | .25762  | .93565  | 50.099  | .51352  | 1.0514  |
| #2     | .52366  | .21268  | .25884  | .93938  | 50.090  | .51329  | 1.0512  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .60000  | .24000  | .30000  | 1.2000  | 60.000  | .60000  | 1.2000  |
| Low    | .40000  | .16000  | .20000  | .80000  | 40.000  | .40000  | .80000  |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .52296  | .52529  | .50632  | .51264  | .49180  | .51744  | .50891  |
| SDev   | .00468  | .00090  | .00435  | .00260  | .00509  | .00024  | .00154  |
| %RSD   | .89559  | .17150  | .85908  | .50744  | 1.0347  | .04578  | .30193  |
| #1     | .52627  | .52592  | .50325  | .51080  | .48820  | .51761  | .50782  |
| #2     | .51964  | .52465  | .50940  | .51448  | .49540  | .51728  | .50999  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .60000  |         |         | .60000  |         |         | .60000  |
| Low    | .40000  |         |         | .40000  |         |         | .40000  |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | 1.9950  | 1.9916  | 1.9927  | 2.1816  | .52132  | .53405  |         |
| SDev   | .0011   | .0132   | .0084   | .0067   | .00252  | .00097  |         |
| %RSD   | .05731  | .66161  | .42193  | .30917  | .48382  | .18132  |         |
| #1     | 1.9959  | 1.9823  | 1.9868  | 2.1863  | .52311  | .53474  |         |
| #2     | 1.9942  | 2.0009  | 1.9987  | 2.1768  | .51954  | .53337  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 2.4000  | 2.4000  | .60000  | .60000  |         |
| Low    |         |         | 1.6000  | 1.6000  | .40000  | .40000  |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13433    | --      | --      | --      | --      | --      | --      |
| SDev   | 71.98333 | --      | --      | --      | --      | --      | --      |
| %RSD   | .5358853 | --      | --      | --      | --      | --      | --      |
| #1     | 13382    | --      | --      | --      | --      | --      | --      |
| #2     | 13484    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8W3

Operator: RJG

Run Time: 11/08/00 10:26:49

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | BA     | BE     | CA     | CD     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00195 | 75.450 | .04770 | .65738 | .00409 | 418.37 | .00912 |
| SDev  | .00026 | .239   | .00053 | .00009 | .00008 | .49    | .00052 |
| %RSD  | 13.186 | .31717 | 1.1096 | .01416 | 1.9946 | .11612 | 5.7182 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00177 | 75.281 | .04733 | .65745 | .00415 | 418.03 | .00875 |
| #2 | .00214 | 75.619 | .04808 | .65732 | .00403 | 418.72 | .00949 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN     | MO     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .06371 | .18031 | .26331 | 361.46 | 104.69 | 7.3849 | .01403 |
| SDev  | .00016 | .00105 | .00080 | .96    | .22    | .0149  | .00132 |
| %RSD  | .25200 | .58306 | .30287 | .26634 | .21206 | .20207 | 9.4308 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .06360 | .17956 | .26274 | 360.77 | 104.54 | 7.3744 | .01496 |
| #2 | .06382 | .18105 | .26387 | 362.14 | 104.85 | 7.3955 | .01309 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |

| Elem  | NI     | PB/1   | PB/2   | PB     | SB/1   | SB/2   | SB     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .14752 | .37905 | .36177 | .36752 | .00980 | .02008 | .01666 |
| SDev  | .00034 | .00009 | .00268 | .00176 | .00025 | .00078 | .00060 |
| %RSD  | .23144 | .02402 | .74023 | .47775 | 2.5312 | 3.8684 | 3.6064 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .14728 | .37912 | .35987 | .36628 | .00962 | .01953 | .01623 |
| #2 | .14776 | .37899 | .36366 | .36877 | .00997 | .02063 | .01708 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem  | SE/1    | SE/2    | SE      | TL      | V      | ZN     |
|-------|---------|---------|---------|---------|--------|--------|
| Units | ppm     | ppm     | ppm     | ppm     | ppm    | ppm    |
| Avge  | -.00164 | -.00435 | -.00345 | -.00081 | .18740 | 1.0831 |
| SDev  | .00162  | .00099  | .00120  | .00095  | .00045 | .0014  |
| %RSD  | 98.373  | 22.739  | 34.745  | 117.09  | .24023 | .12579 |

|    |         |         |         |         |        |        |
|----|---------|---------|---------|---------|--------|--------|
| #1 | -.00279 | -.00505 | -.00430 | -.00014 | .18772 | 1.0840 |
| #2 | -.00050 | -.00365 | -.00260 | -.00148 | .18708 | 1.0821 |

|        |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14830    | --      | --      | --      | --      | --      | --      |
| SDev   | 13.64771 | --      | --      | --      | --      | --      | --      |
| %RSD   | .0920249 | --      | --      | --      | --      | --      | --      |
|        |          |         |         |         |         |         |         |
| #1     | 14821    | --      | --      | --      | --      | --      | --      |
| #2     | 14840    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DM8W3P5

Operator: RJG

Run Time: 11/08/00 10:30:59

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | BA     | BE     | CA     | CD     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00126 | 15.246 | .01137 | .14191 | .00007 | 95.212 | .00166 |
| SDev  | .00089 | .286   | .00163 | .00277 | .00012 | 1.550  | .00024 |
| %RSD  | 70.940 | 1.8743 | 14.345 | 1.9517 | 166.28 | 1.6278 | 14.383 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .00063 | 15.448 | .01021 | .14387 | -.00001 | 96.308 | .00149 |
| #2 | .00189 | 15.044 | .01252 | .13995 | .00016  | 94.117 | .00183 |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN     | MO     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .01475 | .04062 | .05445 | 78.937 | 22.112 | 1.5979 | .00466 |
| SDev  | .00040 | .00006 | .00076 | 1.248  | .348   | .0246  | .00009 |
| %RSD  | 2.6760 | .15494 | 1.3979 | 1.5814 | 1.5753 | 1.5371 | 1.9601 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .01447 | .04058 | .05499 | 79.820 | 22.358 | 1.6153 | .00459 |
| #2 | .01502 | .04067 | .05391 | 78.055 | 21.866 | 1.5805 | .00472 |

| Elem  | NI     | PB/1   | PB/2   | PB     | SB/1    | SB/2   | SB     |
|-------|--------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .03400 | .08603 | .07739 | .08027 | -.00004 | .00535 | .00355 |
| SDev  | .00113 | .00361 | .00226 | .00030 | .00140  | .00059 | .00086 |
| %RSD  | 3.3215 | 4.1934 | 2.9142 | .37734 | 3140.5  | 11.013 | 24.208 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .03480 | .08348 | .07898 | .08048 | .00095  | .00577 | .00416 |
| #2 | .03320 | .08859 | .07579 | .08005 | -.00104 | .00493 | .00294 |

| Elem  | SE/1   | SE/2   | SE     | TL      | V      | ZN     |
|-------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00217 | .00164 | .00182 | -.00137 | .04353 | .23951 |
| SDev  | .00079 | .00157 | .00131 | .00065  | .00164 | .00381 |
| %RSD  | 36.316 | 95.633 | 72.029 | 47.470  | 3.7658 | 1.5930 |

|    |        |        |        |         |        |        |
|----|--------|--------|--------|---------|--------|--------|
| #1 | .00161 | .00053 | .00089 | -.00184 | .04469 | .24221 |
| #2 | .00273 | .00275 | .00274 | -.00091 | .04237 | .23681 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14247    | --      | --      | --      | --      | --      | --      |
| SDev   | 190.8477 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.339536 | --      | --      | --      | --      | --      | --      |
| #1     | 14112    | --      | --      | --      | --      | --      | --      |
| #2     | 14382    | --      | --      | --      | --      | --      | --      |

Method: METTRA

Sample Name: DM8W3S

Operator: RJG

Run Time: 11/08/00 10:35:08

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05299  | 108.55  | 1.9633  | 2.7053  | .05237  | 568.81  | .06141  |
| SDev   | .00015  | .39     | .0100   | .0008   | .00003  | .90     | .00051  |
| %RSD   | .28123  | .35606  | .50933  | .02961  | .06477  | .15900  | .83283  |
| #1     | .05289  | 108.28  | 1.9704  | 2.7047  | .05240  | 569.45  | .06105  |
| #2     | .05310  | 108.82  | 1.9563  | 2.7058  | .05235  | 568.17  | .06177  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .52655  | .43710  | .62501  | 277.07  | 206.16  | 8.2941  | .95491  |
| SDev   | .00036  | .00099  | .00169  | .40     | .20     | .0062   | .00274  |
| %RSD   | .06789  | .22746  | .26961  | .14378  | .09773  | .07486  | .28685  |
| #1     | .52629  | .43639  | .62382  | 276.78  | 206.02  | 8.2897  | .95297  |
| #2     | .52680  | .43780  | .62620  | 277.35  | 206.31  | 8.2985  | .95685  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .64855  | 1.0488  | 1.0205  | 1.0299  | .35541  | .37402  | .36782  |
| SDev   | .00488  | .0053   | .0020   | .0004   | .00209  | .00167  | .00042  |
| %RSD   | .75310  | .50721  | .19862  | .04074  | .58801  | .44751  | .11432  |
| #1     | .65200  | 1.0451  | 1.0219  | 1.0296  | .35689  | .37283  | .36752  |
| #2     | .64509  | 1.0526  | 1.0191  | 1.0302  | .35393  | .37520  | .36812  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | 1.8621  | 1.8741  | 1.8701  | 1.9835  | .70177  | 1.7634  |         |
| SDev   | .0085   | .0020   | .0042   | .0021   | .00225  | .0031   |         |
| %RSD   | .45749  | .10838  | .22414  | .10753  | .32093  | .17833  |         |
| #1     | 1.8560  | 1.8726  | 1.8671  | 1.9851  | .70018  | 1.7656  |         |
| #2     | 1.8681  | 1.8755  | 1.8730  | 1.9820  | .70336  | 1.7612  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14227    | --      | --      | --      | --      | --      | --      |
| SDev   | 49.63903 | --      | --      | --      | --      | --      | --      |
| %RSD   | .3489060 | --      | --      | --      | --      | --      | --      |
| #1     | 14262    | --      | --      | --      | --      | --      | --      |
| #2     | 14192    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8W3D

Operator: RJG

Run Time: 11/08/00 10:39:17

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05269  | 104.97  | 1.9228  | 2.5570  | .05137  | 598.84  | .06792  |
| SDev   | .00004  | .58     | .0038   | .0002   | .00017  | .67     | .00064  |
| %RSD   | .08350  | .55305  | .19591  | .00742  | .32266  | .11152  | .93486  |
| #1     | .05272  | 104.56  | 1.9255  | 2.5572  | .05148  | 599.32  | .06747  |
| #2     | .05266  | 105.38  | 1.9202  | 2.5569  | .05125  | 598.37  | .06837  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .51856  | .49283  | .59581  | 275.84  | 228.16  | 6.6697  | .94064  |
| SDev   | .00149  | .00051  | .00223  | .75     | .31     | .0126   | .00324  |
| %RSD   | .28659  | .10272  | .37362  | .27104  | .13618  | .18943  | .34404  |
| #1     | .51751  | .49318  | .59423  | 275.31  | 227.94  | 6.6608  | .93835  |
| #2     | .51962  | .49247  | .59738  | 276.36  | 228.38  | 6.6787  | .94292  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .64691  | 1.1810  | 1.1440  | 1.1563  | .34362  | .36987  | .36112  |
| SDev   | .00165  | .0025   | .0091   | .0069   | .00092  | .00188  | .00156  |
| %RSD   | .25480  | .21563  | .79296  | .59660  | .26781  | .50960  | .43299  |
| #1     | .64807  | 1.1792  | 1.1376  | 1.1514  | .34297  | .36853  | .36002  |
| #2     | .64574  | 1.1828  | 1.1504  | 1.1612  | .34427  | .37120  | .36223  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | 1.8451  | 1.8384  | 1.8406  | 1.9539  | .67963  | 2.1355  |         |
| SDev   | .0067   | .0100   | .0045   | .0014   | .00206  | .0029   |         |
| %RSD   | .36157  | .54418  | .24183  | .06970  | .30379  | .13549  |         |
| #1     | 1.8498  | 1.8313  | 1.8375  | 1.9529  | .67817  | 2.1375  |         |
| #2     | 1.8404  | 1.8455  | 1.8438  | 1.9548  | .68109  | 2.1334  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14316    | --      | --      | --      | --      | --      | --      |
| SDev   | 40.97697 | --      | --      | --      | --      | --      | --      |
| %RSD   | .2862335 | --      | --      | --      | --      | --      | --      |
| #1     | 14287    | --      | --      | --      | --      | --      | --      |
| #2     | 14345    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8W4

Operator: RJG

Run Time: 11/08/00 10:43:26

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00093  | 84.911  | .03329  | 1.0599  | .00436  | 361.23  | .00097  |
| SDev   | .00030  | .406    | .00013  | .0002   | .00014  | .37     | .00032  |
| %RSD   | 32.323  | .47818  | .38930  | .02200  | 3.2281  | .10170  | 33.074  |
| #1     | .00071  | 84.624  | .03338  | 1.0598  | .00446  | 360.97  | .00074  |
| #2     | .00114  | 85.198  | .03319  | 1.0601  | .00426  | 361.49  | .00120  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .06617  | .16151  | .22578  | 177.13  | 84.574  | 4.9082  | .00725  |
| SDev   | .00006  | .00035  | .00098  | .43     | .156    | .0142   | .00081  |
| %RSD   | .08938  | .21667  | .43628  | .24439  | .18441  | .29005  | 11.240  |
| #1     | .06612  | .16126  | .22509  | 176.82  | 84.464  | 4.8982  | .00783  |
| #2     | .06621  | .16176  | .22648  | 177.43  | 84.685  | 4.9183  | .00668  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .15665  | .05132  | .04871  | .04958  | -.00082 | .00623  | .00388  |
| SDev   | .00311  | .00236  | .00230  | .00232  | .00037  | .00225  | .00162  |
| %RSD   | 1.9870  | 4.5945  | 4.7173  | 4.6750  | 44.970  | 36.073  | 41.772  |
| #1     | .15885  | .04966  | .04709  | .04794  | -.00056 | .00781  | .00503  |
| #2     | .15445  | .05299  | .05034  | .05122  | -.00108 | .00464  | .00273  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | -.00213 | .00200  | .00063  | -.00240 | .19427  | .38440  |         |
| SDev   | .00102  | .00035  | .00058  | .00075  | .00148  | .00064  |         |
| %RSD   | 48.037  | 17.609  | 92.130  | 31.263  | .76128  | .16745  |         |
| #1     | -.00285 | .00175  | .00022  | -.00187 | .19323  | .38486  |         |
| #2     | -.00141 | .00225  | .00103  | -.00293 | .19532  | .38395  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14737    | --      | --      | --      | --      | --      | --      |
| SDev   | 13.57659 | --      | --      | --      | --      | --      | --      |
| %RSD   | .0921281 | --      | --      | --      | --      | --      | --      |
| #1     | 14746    | --      | --      | --      | --      | --      | --      |
| #2     | 14727    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DM8W5

Operator: RJG

Run Time: 11/08/00 10:47:35

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00188  | 91.312  | .02885  | .84547  | .00465  | 151.75  | .00702  |
| SDev   | .00040  | .426    | .00082  | .00030  | .00013  | .24     | .00038  |
| %RSD   | 21.447  | .46661  | 2.8467  | .03597  | 2.8209  | .15835  | 5.4336  |
| #1     | .00217  | 91.010  | .02827  | .84525  | .00475  | 151.58  | .00675  |
| #2     | .00160  | 91.613  | .02943  | .84568  | .00456  | 151.92  | .00729  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .07775  | .15203  | .20899  | 174.28  | 50.489  | 7.4815  | .00169  |
| SDev   | .00082  | .00080  | .00026  | .69     | .202    | .0298   | .00094  |
| %RSD   | 1.0568  | .52379  | .12524  | .39641  | .39969  | .39863  | 55.731  |
| #1     | .07717  | .15146  | .20880  | 173.79  | 50.346  | 7.4604  | .00235  |
| #2     | .07833  | .15259  | .20917  | 174.77  | 50.631  | 7.5026  | .00102  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .15543  | .10398  | .09527  | .09817  | .00057  | .00915  | .00629  |
| SDev   | .00023  | .00187  | .00041  | .00090  | .00248  | .00140  | .00176  |
| %RSD   | .14798  | 1.7992  | .43126  | .91373  | 434.46  | 15.298  | 27.962  |
| #1     | .15527  | .10266  | .09498  | .09754  | -.00118 | .00816  | .00505  |
| #2     | .15560  | .10530  | .09556  | .09881  | .00232  | .01013  | .00753  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00374  | -.00363 | -.00118 | -.00205 | .20932  | .68828  |         |
| SDev   | .00237  | .00162  | .00029  | .00120  | .00015  | .00124  |         |
| %RSD   | 63.284  | 44.709  | 25.036  | 58.507  | .07176  | .17951  |         |
| #1     | .00541  | -.00478 | -.00138 | -.00290 | .20921  | .68741  |         |
| #2     | .00207  | -.00248 | -.00097 | -.00120 | .20943  | .68915  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 15197    | --      | --      | --      | --      | --      | --      |
| SDev   | 86.79736 | --      | --      | --      | --      | --      | --      |
| %RSD   | .5711433 | --      | --      | --      | --      | --      | --      |
| #1     | 15258    | --      | --      | --      | --      | --      | --      |
| #2     | 15136    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8W6

Operator: RJG

Run Time: 11/08/00 10:51:44

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00156  | 96.262  | .03797  | 1.1326  | .00542  | 426.31  | .00144  |
| SDev   | .00008  | 1.161   | .00096  | .0090   | .00008  | 1.01    | .00015  |
| %RSD   | 4.9961  | 1.2063  | 2.5167  | .79305  | 1.5106  | .23750  | 10.151  |
| #1     | .00150  | 95.441  | .03729  | 1.1263  | .00548  | 425.59  | .00134  |
| #2     | .00161  | 97.083  | .03864  | 1.1390  | .00536  | 427.03  | .00154  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .11650  | .14843  | .25681  | 206.61  | 97.396  | 7.9471  | .00416  |
| SDev   | .00092  | .00026  | .00206  | 1.45    | .540    | .0460   | .00009  |
| %RSD   | .79182  | .17855  | .80256  | .70323  | .55421  | .57906  | 2.1399  |
| #1     | .11585  | .14824  | .25536  | 205.59  | 97.014  | 7.9145  | .00422  |
| #2     | .11716  | .14862  | .25827  | 207.64  | 97.777  | 7.9796  | .00410  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .21465  | .06413  | .06117  | .06215  | -.00107 | .00531  | .00319  |
| SDev   | .00097  | .00116  | .00050  | .00072  | .00270  | .00038  | .00064  |
| %RSD   | .45293  | 1.8085  | .81849  | 1.1586  | 253.16  | 7.2026  | 20.175  |
| #1     | .21396  | .06331  | .06081  | .06164  | -.00297 | .00558  | .00273  |
| #2     | .21533  | .06495  | .06152  | .06266  | .00084  | .00504  | .00364  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | -.00055 | -.00218 | -.00164 | -.00632 | .21982  | .43588  |         |
| SDev   | .00516  | .00037  | .00147  | .00068  | .00073  | .00076  |         |
| %RSD   | 930.47  | 17.099  | 89.517  | 10.697  | .33319  | .17432  |         |
| #1     | .00309  | -.00245 | -.00060 | -.00680 | .21930  | .43534  |         |
| #2     | -.00420 | -.00192 | -.00268 | -.00584 | .22034  | .43641  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 15083    | --      | --      | --      | --      | --      | --      |
| SDev   | 23.93598 | --      | --      | --      | --      | --      | --      |
| %RSD   | .1586985 | --      | --      | --      | --      | --      | --      |
| #1     | 15066    | --      | --      | --      | --      | --      | --      |
| #2     | 15100    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8W7

Operator: RJG

Run Time: 11/08/00 10:55:52

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00181  | 108.77  | .05028  | 1.3323  | .00634  | 306.76  | .00219  |
| SDev   | .00048  | .09     | .00103  | .0035   | .00011  | .61     | .00051  |
| %RSD   | 26.317  | .08300  | 2.0428  | .26271  | 1.6679  | .20014  | 23.090  |
| #1     | .00215  | 108.71  | .05101  | 1.3348  | .00627  | 307.19  | .00183  |
| #2     | .00147  | 108.84  | .04956  | 1.3299  | .00642  | 306.32  | .00255  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .09960  | .16102  | .23239  | 300.09  | 77.683  | H10.220 | .00168  |
| SDev   | .00010  | .00022  | .00033  | .37     | .106    | .003    | .00014  |
| %RSD   | .10037  | .13833  | .14018  | .12374  | .13644  | .02885  | 8.3382  |
| #1     | .09968  | .16118  | .23216  | 300.35  | 77.758  | H10.222 | .00158  |
| #2     | .09953  | .16086  | .23263  | 299.83  | 77.608  | H10.218 | .00178  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC High | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .18547  | .09164  | .08616  | .08799  | .00268  | .00787  | .00614  |
| SDev   | .00146  | .00261  | .00111  | .00161  | .00245  | .00424  | .00364  |
| %RSD   | .78894  | 2.8488  | 1.2918  | 1.8318  | 91.454  | 53.849  | 59.319  |
| #1     | .18650  | .09348  | .08695  | .08913  | .00442  | .01087  | .00872  |
| #2     | .18443  | .08979  | .08538  | .08685  | .00095  | .00487  | .00357  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | .00217  | .00017  | .00084  | -.00502 | .28299  | .47783  |         |
| SDev   | .00042  | .00236  | .00143  | .00591  | .00129  | .00363  |         |
| %RSD   | 19.360  | 1361.1  | 170.88  | 117.59  | .45430  | .75880  |         |
| #1     | .00247  | -.00149 | -.00017 | -.00085 | .28390  | .48040  |         |
| #2     | .00187  | .00184  | .00185  | -.00920 | .28208  | .47527  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 15234    | --      | --      | --      | --      | --      | --      |
| SDev   | 98.14629 | --      | --      | --      | --      | --      | --      |
| %RSD   | .6442475 | --      | --      | --      | --      | --      | --      |
| #1     | 15165    | --      | --      | --      | --      | --      | --      |
| #2     | 15304    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: CCV3-2 Operator: RJG  
 Run Time: 11/08/00 11:00:01  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 1.0534  | 24.773  | .51901  | 2.0560  | 2.0886  | 51.853  | .50430  |
| SDev   | .0273   | .649    | .01385  | .0609   | .0552   | 1.289   | .01327  |
| %RSD   | 2.5912  | 2.6214  | 2.6682  | 2.9630  | 2.6446  | 2.4862  | 2.6318  |
| #1     | 1.0727  | 25.232  | .52880  | 2.0991  | 2.1277  | 52.764  | .51368  |
| #2     | 1.0341  | 24.314  | .50922  | 2.0130  | 2.0496  | 50.941  | .49491  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 1.1000  | 27.500  | .55000  | 2.2000  | 2.2000  | 55.000  | .55000  |
| Low    | .90000  | 22.500  | .45000  | 1.8000  | 1.8000  | 45.000  | .45000  |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 2.0844  | 2.0781  | 2.0208  | 25.781  | 50.213  | 2.0450  | 2.0798  |
| SDev   | .0504   | .0528   | .0552   | .682    | 1.248   | .0499   | .0468   |
| %RSD   | 2.4169  | 2.5389  | 2.7313  | 2.6471  | 2.4848  | 2.4382  | 2.2515  |
| #1     | 2.1200  | 2.1154  | 2.0598  | 26.264  | 51.095  | 2.0803  | 2.1130  |
| #2     | 2.0488  | 2.0408  | 1.9818  | 25.299  | 49.331  | 2.0097  | 2.0467  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.2000  | 2.2000  | 2.2000  | 27.500  | 55.000  | 2.2000  | 2.2000  |
| Low    | 1.8000  | 1.8000  | 1.8000  | 22.500  | 45.000  | 1.8000  | 1.8000  |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 2.0797  | .51872  | .51195  | .51421  | .51498  | .52718  | .52312  |
| SDev   | .0604   | .00693  | .00917  | .00843  | .01166  | .00369  | .00635  |
| %RSD   | 2.9062  | 1.3361  | 1.7917  | 1.6386  | 2.2640  | .70058  | 1.2131  |
| #1     | 2.1225  | .52362  | .51844  | .52016  | .52323  | .52980  | .52761  |
| #2     | 2.0370  | .51382  | .50546  | .50825  | .50674  | .52457  | .51864  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 2.2000  |         |         | .55000  |         |         | .55000  |
| Low    | 1.8000  |         |         | .45000  |         |         | .45000  |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .52798  | .52393  | .52528  | 1.0556  | 2.0748  | 2.1051  |         |
| SDev   | .00891  | .01271  | .01144  | .0303   | .0568   | .0564   |         |
| %RSD   | 1.6881  | 2.4252  | 2.1785  | 2.8698  | 2.7366  | 2.6776  |         |
| #1     | .53428  | .53292  | .53337  | 1.0770  | 2.1149  | 2.1450  |         |
| #2     | .52168  | .51495  | .51719  | 1.0342  | 2.0346  | 2.0653  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .55000  | 1.1000  | 2.2000  | 2.2000  |         |
| Low    |         |         | .45000  | .90000  | 1.8000  | 1.8000  |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13786    | --      | --      | --      | --      | --      | --      |
| SDev   | 225.6727 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.636973 | --      | --      | --      | --      | --      | --      |
| #1     | 13626    | --      | --      | --      | --      | --      | --      |
| #2     | 13946    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: CCB2

Operator: RJG

Run Time: 11/08/00 11:04:10

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr: Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00171  | .01810  | -.00046 | .00092  | -.00054 | .06902  | .00029  |
| SDev   | .00003  | .00974  | .00099  | .00011  | .00002  | .01086  | .00006  |
| %RSD   | 1.6500  | 53.792  | 212.35  | 11.611  | 3.1290  | 15.727  | 21.846  |
| #1     | .00169  | .02498  | .00023  | .00084  | -.00053 | .06135  | .00033  |
| #2     | .00173  | .01121  | -.00116 | .00099  | -.00055 | .07670  | .00024  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00138  | .00155  | .00199  | .04496  | .03205  | .00201  | .00406  |
| SDev   | .00001  | .00014  | .00045  | .00486  | .00804  | .00033  | .00093  |
| %RSD   | .44342  | 9.0508  | 22.839  | 10.814  | 25.099  | 16.241  | 22.797  |
| #1     | .00137  | .00145  | .00167  | .04152  | .02636  | .00178  | .00471  |
| #2     | .00138  | .00165  | .00231  | .04840  | .03773  | .00224  | .00340  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00335  | .00338  | -.00036 | .00088  | -.00036 | .00091  | .00049  |
| SDev   | .00109  | .00231  | .00073  | .00028  | .00147  | .00062  | .00008  |
| %RSD   | 32.714  | 68.268  | 203.82  | 31.462  | 411.04  | 68.331  | 15.872  |
| #1     | .00257  | .00175  | .00016  | .00069  | .00068  | .00047  | .00054  |
| #2     | .00412  | .00501  | -.00088 | .00108  | -.00140 | .00134  | .00043  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00064  | .00065  | .00065  | .00210  | .00141  | .00172  |         |
| SDev   | .00013  | .00158  | .00101  | .00018  | .00051  | .00006  |         |
| %RSD   | 19.932  | 242.33  | 156.40  | 8.5430  | 35.962  | 3.6520  |         |
| #1     | .00055  | .00177  | .00136  | .00223  | .00105  | .00167  |         |
| #2     | .00073  | -.00047 | -.00007 | .00197  | .00176  | .00176  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13934    | --      | --      | --      | --      | --      | --      |
| SDev   | 141.7038 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.016960 | --      | --      | --      | --      | --      | --      |
| #1     | 13834    | --      | --      | --      | --      | --      | --      |
| #2     | 14034    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8W7P5

Operator: RJG

Run Time: 11/08/00 11:08:18

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|       |        |        |        |         |         |        |        |
|-------|--------|--------|--------|---------|---------|--------|--------|
| Elem  | AG     | AL     | AS     | BA      | BE      | CA     | CD     |
| Units | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    |
| Avge  | .00164 | 21.901 | .01058 | .28498  | .00106  | 68.410 | .00037 |
| SDev  | .00003 | .662   | .00176 | .00751  | .00028  | 1.675  | .00024 |
| %RSD  | 2.1546 | 3.0222 | 16.607 | 2.6361  | 26.548  | 2.4487 | 64.936 |
| #1    | .00162 | 21.433 | .00934 | .27966  | .00126  | 67.225 | .00020 |
| #2    | .00167 | 22.369 | .01182 | .29029  | .00086  | 69.594 | .00055 |
| Elem  | CO     | CR     | CU     | FE      | MG      | MN     | MO     |
| Units | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    |
| Avge  | .02233 | .03625 | .04825 | 64.621  | 16.281  | 2.1879 | .00241 |
| SDev  | .00024 | .00126 | .00133 | 1.691   | .420    | .0560  | .00040 |
| %RSD  | 1.0815 | 3.4856 | 2.7484 | 2.6175  | 2.5826  | 2.5574 | 16.710 |
| #1    | .02216 | .03536 | .04731 | 63.425  | 15.984  | 2.1484 | .00213 |
| #2    | .02250 | .03715 | .04919 | 65.817  | 16.579  | 2.2275 | .00270 |
| Elem  | NI     | PB/1   | PB/2   | PB      | SB/1    | SB/2   | SB     |
| Units | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    |
| Avge  | .04288 | .02409 | .01894 | .02066  | -.00149 | .00239 | .00110 |
| SDev  | .00105 | .00180 | .00146 | .00157  | .00228  | .00141 | .00018 |
| %RSD  | 2.4458 | 7.4719 | 7.7128 | 7.6193  | 152.87  | 58.829 | 16.165 |
| #1    | .04362 | .02282 | .01791 | .01954  | -.00311 | .00338 | .00122 |
| #2    | .04214 | .02536 | .01998 | .02177  | .00012  | .00140 | .00097 |
| Elem  | SE/1   | SE/2   | SE     | TL      | V_      | ZN     |        |
| Units | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    |        |
| Avge  | .00119 | .00196 | .00170 | -.00389 | .06270  | .10342 |        |
| SDev  | .00156 | .00143 | .00147 | .00178  | .00159  | .00210 |        |
| %RSD  | 130.76 | 73.077 | 86.516 | 45.599  | 2.5297  | 2.0262 |        |
| #1    | .00009 | .00095 | .00066 | -.00264 | .06157  | .10193 |        |
| #2    | .00229 | .00297 | .00274 | -.00515 | .06382  | .10490 |        |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14561    | --      | --      | --      | --      | --      | --      |
| SDev   | 278.3522 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.911638 | --      | --      | --      | --      | --      | --      |
| #1     | 14758    | --      | --      | --      | --      | --      | --      |
| #2     | 14364    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8W7S Operator: RJG  
 Run Time: 11/08/00 11:12:27  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05131  | 139.96  | 1.9345  | 2.6923  | .05436  | 238.36  | .04631  |
| SDev   | .00055  | .90     | .0282   | .0318   | .00061  | 2.86    | .00080  |
| %RSD   | 1.0648  | .64199  | 1.4576  | 1.1806  | 1.1293  | 1.2016  | 1.7229  |
| #1     | .05170  | 140.60  | 1.9544  | 2.7148  | .05479  | 240.39  | .04688  |
| #2     | .05092  | 139.33  | 1.9146  | 2.6698  | .05392  | 236.34  | .04575  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .55228  | .37008  | .47805  | 196.17  | 110.55  | 5.8945  | .93756  |
| SDev   | .00481  | .00406  | .00407  | 1.69    | 1.07    | .0541   | .00741  |
| %RSD   | .87014  | 1.0961  | .85154  | .86026  | .96875  | .91771  | .79079  |
| #1     | .55567  | .37295  | .48092  | 197.36  | 111.31  | 5.9327  | .94280  |
| #2     | .54888  | .36721  | .47517  | 194.98  | 109.79  | 5.8562  | .93231  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .64004  | .56400  | .54586  | .55190  | .27720  | .29594  | .28970  |
| SDev   | .01231  | .00718  | .00196  | .00369  | .00407  | .00818  | .00410  |
| %RSD   | 1.9236  | 1.2734  | .35807  | .66955  | 1.4679  | 2.7631  | 1.4149  |
| #1     | .64875  | .56908  | .54725  | .55452  | .27432  | .30172  | .29259  |
| #2     | .63134  | .55893  | .54448  | .54929  | .28007  | .29015  | .28680  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | 1.8501  | 1.8467  | 1.8479  | 1.8542  | .76254  | .98260  |         |
| SDev   | .0234   | .0006   | .0082   | .0244   | .00836  | .01350  |         |
| %RSD   | 1.2651  | .03508  | .44518  | 1.3153  | 1.0963  | 1.3741  |         |
| #1     | 1.8667  | 1.8472  | 1.8537  | 1.8714  | .76845  | .99215  |         |
| #2     | 1.8336  | 1.8463  | 1.8420  | 1.8369  | .75663  | .97306  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

**674 545**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14930    | --      | --      | --      | --      | --      | --      |
| SDev   | 192.8634 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.291760 | --      | --      | --      | --      | --      | --      |
| #1     | 14794    | --      | --      | --      | --      | --      | --      |
| #2     | 15067    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8W7D Operator: RJG  
 Run Time: 11/08/00 11:16:36  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .05074  | 144.20  | 1.9139  | 2.7114  | .05358  | 189.85  | .04560  |
| SDev   | .00080  | 4.21    | .0507   | .0754   | .00156  | 5.37    | .00101  |
| %RSD   | 1.5810  | 2.9198  | 2.6504  | 2.7796  | 2.9117  | 2.8272  | 2.2114  |
| #1     | .05017  | 141.22  | 1.8780  | 2.6581  | .05248  | 186.06  | .04488  |
| #2     | .05131  | 147.18  | 1.9497  | 2.7647  | .05468  | 193.65  | .04631  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .54566  | .37329  | .45395  | 186.60  | 102.12  | 5.2127  | .93353  |
| SDev   | .01539  | .01011  | .01292  | 5.28    | 2.87    | .1457   | .02782  |
| %RSD   | 2.8200  | 2.7091  | 2.8465  | 2.8284  | 2.8095  | 2.7957  | 2.9798  |
| #1     | .53478  | .36614  | .44481  | 182.87  | 100.09  | 5.1097  | .91386  |
| #2     | .55654  | .38044  | .46308  | 190.33  | 104.15  | 5.3158  | .95320  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .62805  | .55929  | .54627  | .55061  | .27694  | .29836  | .29123  |
| SDev   | .01786  | .01586  | .00310  | .00735  | .00180  | .01013  | .00736  |
| %RSD   | 2.8432  | 2.8352  | .56799  | 1.3349  | .65086  | 3.3967  | 2.5272  |
| #1     | .61542  | .54808  | .54407  | .54541  | .27567  | .29119  | .28602  |
| #2     | .64067  | .57051  | .54846  | .55580  | .27822  | .30552  | .29643  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | 1.8253  | 1.8378  | 1.8337  | 1.8875  | .75652  | 1.0221  |         |
| SDev   | .0459   | .0094   | .0215   | .0538   | .02345  | .0273   |         |
| %RSD   | 2.5149  | .51016  | 1.1747  | 2.8514  | 3.0998  | 2.6729  |         |
| #1     | 1.7928  | 1.8312  | 1.8184  | 1.8494  | .73994  | 1.0028  |         |
| #2     | 1.8578  | 1.8445  | 1.8489  | 1.9255  | .77310  | 1.0415  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14741    | --      | --      | --      | --      | --      | --      |
| SDev   | 203.7531 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.382241 | --      | --      | --      | --      | --      | --      |
| #1     | 14885    | --      | --      | --      | --      | --      | --      |
| #2     | 14597    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DM8W8

Operator: RJG

Run Time: 11/08/00 11:20:44

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00154  | 61.958  | .03729  | 1.3951  | .00390  | 469.62  | .00136  |
| SDev   | .00065  | .170    | .00003  | .0016   | .00011  | 1.64    | .00030  |
| %RSD   | 42.447  | .27470  | .07175  | .11557  | 2.8484  | .34834  | 21.835  |
| #1     | .00201  | 61.838  | .03727  | 1.3940  | .00398  | 470.77  | .00157  |
| #2     | .00108  | 62.079  | .03731  | 1.3962  | .00382  | 468.46  | .00115  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .06750  | .17194  | .24163  | 152.55  | 70.435  | 9.4221  | .01776  |
| SDev   | .00025  | .00107  | .00030  | .07     | .083    | .0107   | .00019  |
| %RSD   | .36462  | .62007  | .12501  | .04817  | .11837  | .11348  | 1.0776  |
| #1     | .06767  | .17269  | .24142  | 152.60  | 70.494  | 9.4297  | .01789  |
| #2     | .06732  | .17118  | .24185  | 152.50  | 70.376  | 9.4146  | .01762  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .14538  | .05390  | .04932  | .05084  | .00078  | .00581  | .00414  |
| SDev   | .00044  | .00013  | .00105  | .00066  | .00016  | .00286  | .00186  |
| %RSD   | .30360  | .23188  | 2.1249  | 1.2930  | 21.081  | 49.296  | 44.869  |
| #1     | .14507  | .05398  | .04858  | .05038  | .00090  | .00378  | .00282  |
| #2     | .14570  | .05381  | .05006  | .05131  | .00066  | .00784  | .00545  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00429  | -.00189 | .00017  | -.00582 | .15130  | .31716  |         |
| SDev   | .00299  | .00266  | .00277  | .00145  | .00084  | .00060  |         |
| %RSD   | 69.563  | 140.63  | 1647.1  | 24.870  | .55463  | .18968  |         |
| #1     | .00218  | -.00377 | -.00179 | -.00480 | .15190  | .31759  |         |
| #2     | .00641  | -.00001 | .00213  | -.00685 | .15071  | .31674  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 15308    | --      | --      | --      | --      | --      | --      |
| SDev   | 90.29768 | --      | --      | --      | --      | --      | --      |
| %RSD   | .5898898 | --      | --      | --      | --      | --      | --      |
| #1     | 15244    | --      | --      | --      | --      | --      | --      |
| #2     | 15371    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8W9

Operator: RJG

Run Time: 11/08/00 11:24:53

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00158  | 85.695  | .02597  | .91432  | .00442  | 142.70  | .00116  |
| SDev   | .00015  | .418    | .00105  | .00036  | .00003  | .79     | .00015  |
| %RSD   | 9.1862  | .48776  | 4.0394  | .03885  | .58045  | .55038  | 13.381  |
| #1     | .00148  | 85.400  | .02671  | .91457  | .00440  | 143.26  | .00105  |
| #2     | .00168  | 85.991  | .02523  | .91407  | .00444  | 142.15  | .00127  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .06990  | .12579  | .16842  | 158.47  | 36.931  | 5.8367  | .00226  |
| SDev   | .00036  | .00049  | .00039  | .26     | .111    | .0150   | .00013  |
| %RSD   | .51631  | .39178  | .22929  | .16117  | .30086  | .25762  | 5.6502  |
| #1     | .07015  | .12614  | .16815  | 158.65  | 37.010  | 5.8474  | .00235  |
| #2     | .06964  | .12544  | .16870  | 158.29  | 36.853  | 5.8261  | .00217  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .12819  | .07436  | .06764  | .06988  | -.00066 | .00760  | .00485  |
| SDev   | .00011  | .00019  | .00033  | .00016  | .00083  | .00078  | .00025  |
| %RSD   | .08881  | .25330  | .48916  | .22607  | 124.93  | 10.286  | 5.0702  |
| #1     | .12811  | .07423  | .06788  | .06999  | -.00125 | .00816  | .00502  |
| #2     | .12827  | .07449  | .06741  | .06977  | -.00008 | .00705  | .00468  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00399  | .00325  | .00350  | .00191  | .19189  | .45255  |         |
| SDev   | .00159  | .00165  | .00163  | .00011  | .00000  | .00402  |         |
| %RSD   | 39.823  | 50.662  | 46.549  | 5.5150  | .00100  | .88737  |         |
| #1     | .00286  | .00209  | .00235  | .00184  | .19189  | .45538  |         |
| #2     | .00511  | .00442  | .00465  | .00198  | .19189  | .44971  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14952    | --      | --      | --      | --      | --      | --      |
| SDev   | 198.0962 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.324919 | --      | --      | --      | --      | --      | --      |
| #1     | 14812    | --      | --      | --      | --      | --      | --      |
| #2     | 15092    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8XA

Operator: RJG

Run Time: 11/08/00 11:29:03

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA       | BE      | CA      | CD      |
|--------|---------|---------|---------|----------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .00258  | 81.264  | .03238  | 1.0427   | .00446  | 291.31  | .00339  |
| SDev   | .00024  | 1.758   | .00163  | .0161    | .00018  | 4.74    | .00022  |
| %RSD   | 9.1560  | 2.1639  | 5.0278  | 1.5478   | 4.0898  | 1.6264  | 6.5520  |
| #1     | .00274  | 80.021  | .03353  | 1.0313   | .00459  | 287.96  | .00323  |
| #2     | .00241  | 82.507  | .03123  | 1.0541   | .00433  | 294.66  | .00355  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000   | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000  | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE       | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .07149  | .12243  | .11980  | 185.35   | 155.55  | H13.690 | .00395  |
| SDev   | .00200  | .00266  | .00250  | 3.39     | 2.67    | .246    | .00021  |
| %RSD   | 2.7949  | 2.1707  | 2.0905  | 1.8278   | 1.7180  | 1.7972  | 5.4468  |
| #1     | .07008  | .12055  | .11803  | 182.95   | 153.66  | H13.516 | .00380  |
| #2     | .07291  | .12431  | .12157  | 187.74   | 157.43  | H13.864 | .00411  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC High | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00   | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000  | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB       | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .11962  | .37832  | .36516  | .36954   | -.00068 | .01004  | .00647  |
| SDev   | .00090  | .00017  | .00442  | .00289   | .00109  | .00003  | .00034  |
| %RSD   | .75218  | .04530  | 1.2092  | .78155   | 161.37  | .32692  | 5.2907  |
| #1     | .11898  | .37844  | .36203  | .36750   | -.00145 | .01006  | .00623  |
| #2     | .12025  | .37820  | .36828  | .37158   | .00010  | .01002  | .00671  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass  | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000   |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300  |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL       | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     |         |
| Avge   | .00783  | .00005  | .00264  | L-.01207 | .21349  | .81195  |         |
| SDev   | .00585  | .00246  | .00031  | .00368   | .00457  | .00859  |         |
| %RSD   | 74.688  | 5065.1  | 11.637  | 30.499   | 2.1417  | 1.0583  |         |
| #1     | .01197  | -.00169 | .00286  | -.00946  | .21026  | .80588  |         |
| #2     | .00370  | .00179  | .00242  | L-.01467 | .21673  | .81803  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Low   | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000   | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000  | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14856    | --      | --      | --      | --      | --      | --      |
| SDev   | 148.7755 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.001485 | --      | --      | --      | --      | --      | --      |
| #1     | 14961    | --      | --      | --      | --      | --      | --      |
| #2     | 14750    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8XC

Operator: RJG

Run Time: 11/08/00 11:33:12

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00162  | 83.099  | .04785  | .75020  | .00442  | 395.84  | .00119  |
| SDev   | .00036  | .896    | .00006  | .01065  | .00017  | 6.61    | .00026  |
| %RSD   | 22.290  | 1.0780  | .11467  | 1.4194  | 3.8302  | 1.6696  | 21.947  |
| #1     | .00188  | 83.733  | .04781  | .75773  | .00430  | 400.51  | .00137  |
| #2     | .00136  | 82.466  | .04789  | .74267  | .00454  | 391.17  | .00100  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .08715  | .13374  | .26019  | 182.82  | 88.275  | 6.9047  | .00383  |
| SDev   | .00221  | .00236  | .00357  | 2.68    | 1.401   | .1042   | .00056  |
| %RSD   | 2.5328  | 1.7617  | 1.3713  | 1.4671  | 1.5874  | 1.5098  | 14.519  |
| #1     | .08871  | .13540  | .26272  | 184.71  | 89.266  | 6.9784  | .00343  |
| #2     | .08559  | .13207  | .25767  | 180.92  | 87.284  | 6.8310  | .00422  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .17204  | .05111  | .04627  | .04788  | .00254  | .00748  | .00583  |
| SDev   | .00383  | .00286  | .00049  | .00128  | .00249  | .00156  | .00021  |
| %RSD   | 2.2283  | 5.5888  | 1.0553  | 2.6666  | 98.137  | 20.905  | 3.6421  |
| #1     | .17475  | .05313  | .04662  | .04878  | .00078  | .00858  | .00598  |
| #2     | .16933  | .04909  | .04592  | .04698  | .00430  | .00637  | .00568  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | -.00196 | -.00235 | -.00222 | -.00362 | .19315  | .38546  |         |
| SDev   | .00104  | .00064  | .00008  | .00251  | .00340  | .00711  |         |
| %RSD   | 53.276  | 27.445  | 3.7010  | 69.346  | 1.7623  | 1.8436  |         |
| #1     | -.00270 | -.00189 | -.00216 | -.00540 | .19555  | .39048  |         |
| #2     | -.00122 | -.00280 | -.00228 | -.00185 | .19074  | .38043  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

**674 555**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14874    | --      | --      | --      | --      | --      | --      |
| SDev   | 284.5400 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.913003 | --      | --      | --      | --      | --      | --      |
| #1     | 14673    | --      | --      | --      | --      | --      | --      |
| #2     | 15075    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DM8XD

Operator: RJG

Run Time: 11/08/00 11:37:21

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00144  | 145.41  | .04685  | 1.0938  | .00811  | 66.487  | .00146  |
| SDev   | .00026  | .05     | .00033  | .0033   | .00006  | .330    | .00003  |
| %RSD   | 17.915  | .03477  | .70197  | .30370  | .70166  | .49641  | 1.9866  |
| #1     | .00162  | 145.44  | .04708  | 1.0961  | .00807  | 66.720  | .00148  |
| #2     | .00126  | 145.37  | .04662  | 1.0914  | .00816  | 66.254  | .00144  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .09991  | .20600  | .21956  | 248.01  | 70.031  | 4.6462  | .00115  |
| SDev   | .00031  | .00114  | .00110  | .68     | .257    | .0135   | .00042  |
| %RSD   | .31309  | .55451  | .50143  | .27431  | .36729  | .29043  | 36.403  |
| #1     | .10013  | .20680  | .22034  | 248.49  | 70.213  | 4.6557  | .00144  |
| #2     | .09968  | .20519  | .21878  | 247.53  | 69.849  | 4.6366  | .00085  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .22066  | .08411  | .07652  | .07905  | .00318  | .00809  | .00646  |
| SDev   | .00308  | .00335  | .00041  | .00084  | .00166  | .00087  | .00003  |
| %RSD   | 1.3954  | 3.9777  | .53216  | 1.0658  | 52.155  | 10.749  | .44564  |
| #1     | .22284  | .08648  | .07623  | .07964  | .00200  | .00871  | .00648  |
| #2     | .21848  | .08174  | .07681  | .07845  | .00435  | .00748  | .00644  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | -.00265 | .00034  | -.00066 | -.00457 | .31702  | .48027  |         |
| SDev   | .00025  | .00184  | .00114  | .00165  | .00038  | .00295  |         |
| %RSD   | 9.4438  | 538.46  | 174.17  | 36.156  | .11977  | .61388  |         |
| #1     | -.00283 | .00164  | .00015  | -.00340 | .31675  | .48236  |         |
| #2     | -.00248 | -.00096 | -.00146 | -.00574 | .31728  | .47819  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 15448    | --      | --      | --      | --      | --      | --      |
| SDev   | 159.0638 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.029704 | --      | --      | --      | --      | --      | --      |
| #1     | 15335    | --      | --      | --      | --      | --      | --      |
| #2     | 15560    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8XE

Operator: RJG

Run Time: 11/08/00 11:41:31

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00186  | 50.338  | .04951  | .42594  | .00231  | 341.69  | .00089  |
| SDev   | .00070  | .355    | .00071  | .00369  | .00020  | 4.64    | .00018  |
| %RSD   | 37.774  | .70528  | 1.4313  | .86609  | 8.6688  | 1.3577  | 20.718  |
| #1     | .00236  | 50.589  | .05001  | .42855  | .00216  | 344.97  | .00076  |
| #2     | .00136  | 50.087  | .04901  | .42333  | .00245  | 338.40  | .00102  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05875  | .08929  | .21100  | 136.31  | 68.927  | 5.8257  | .00227  |
| SDev   | .00064  | .00129  | .00164  | 1.39    | .732    | .0619   | .00023  |
| %RSD   | 1.0926  | 1.4472  | .77731  | 1.0188  | 1.0619  | 1.0624  | 10.136  |
| #1     | .05920  | .09020  | .21216  | 137.29  | 69.445  | 5.8695  | .00244  |
| #2     | .05829  | .08837  | .20984  | 135.33  | 68.410  | 5.7820  | .00211  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .11375  | .04197  | .03120  | .03478  | .00135  | .00744  | .00542  |
| SDev   | .00178  | .00666  | .00115  | .00298  | .00544  | .00088  | .00240  |
| %RSD   | 1.5644  | 15.870  | 3.6753  | 8.5748  | 401.97  | 11.848  | 44.337  |
| #1     | .11501  | .04668  | .03201  | .03689  | -.00250 | .00682  | .00372  |
| #2     | .11249  | .03726  | .03039  | .03267  | .00520  | .00807  | .00711  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | -.00267 | -.00123 | -.00171 | -.00570 | .14154  | .28190  |         |
| SDev   | .00084  | .00204  | .00108  | .00052  | .00464  | .00401  |         |
| %RSD   | 31.596  | 166.07  | 63.251  | 9.0887  | 3.2820  | 1.4240  |         |
| #1     | -.00207 | -.00267 | -.00247 | -.00607 | .14482  | .28474  |         |
| #2     | -.00326 | .00021  | -.00094 | -.00534 | .13825  | .27906  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14637    | --      | --      | --      | --      | --      | --      |
| SDev   | 269.5845 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.841848 | --      | --      | --      | --      | --      | --      |
| #1     | 14446    | --      | --      | --      | --      | --      | --      |
| #2     | 14827    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8XF

Operator: RJG

Run Time: 11/08/00 11:45:40

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00128  | 93.107  | .03388  | .87255  | .00569  | 242.95  | .00140  |
| SDev   | .00013  | .400    | .00102  | .00043  | .00000  | .63     | .00012  |
| %RSD   | 10.353  | .42938  | 3.0186  | .04939  | .03922  | .25882  | 8.5589  |
| #1     | .00119  | 92.824  | .03460  | .87225  | .00569  | 242.51  | .00132  |
| #2     | .00138  | 93.390  | .03316  | .87286  | .00569  | 243.39  | .00149  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .06564  | .23548  | .27027  | 172.97  | 45.545  | 4.7251  | .00275  |
| SDev   | .00022  | .00012  | .00086  | .63     | .178    | .0149   | .00016  |
| %RSD   | .33884  | .05274  | .31972  | .36206  | .39082  | .31527  | 5.9781  |
| #1     | .06548  | .23540  | .26966  | 172.52  | 45.419  | 4.7145  | .00263  |
| #2     | .06580  | .23557  | .27089  | 173.41  | 45.671  | 4.7356  | .00286  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .15681  | .05886  | .05889  | .05888  | .00131  | .00625  | .00461  |
| SDev   | .00071  | .00051  | .00120  | .00097  | .00214  | .00051  | .00105  |
| %RSD   | .45499  | .87293  | 2.0445  | 1.6546  | 163.16  | 8.1028  | 22.797  |
| #1     | .15732  | .05922  | .05974  | .05957  | .00282  | .00661  | .00535  |
| #2     | .15631  | .05849  | .05804  | .05819  | -.00020 | .00589  | .00386  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | -.00164 | .00427  | .00230  | -.00243 | .20382  | .45441  |         |
| SDev   | .00544  | .00332  | .00040  | .00304  | .00048  | .00097  |         |
| %RSD   | 331.88  | 77.731  | 17.518  | 125.36  | .23628  | .21298  |         |
| #1     | -.00548 | .00662  | .00259  | -.00028 | .20348  | .45372  |         |
| #2     | .00221  | .00192  | .00202  | -.00458 | .20416  | .45509  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

**674 561**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 15485    | --      | --      | --      | --      | --      | --      |
| SDev   | 28.77939 | --      | --      | --      | --      | --      | --      |
| %RSD   | .1858515 | --      | --      | --      | --      | --      | --      |
| #1     | 15506    | --      | --      | --      | --      | --      | --      |
| #2     | 15465    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: CCV3-3

Operator: RJG

Run Time: 11/08/00 11:49:49

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | BA     | BE     | CA     | CD     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | 1.0267 | 24.004 | .50697 | 2.0002 | 2.0399 | 50.681 | .49299 |
| SDev  | .0059  | .096   | .00535 | .0118  | .0096  | .274   | .00333 |
| %RSD  | .57274 | .40064 | 1.0547 | .58950 | .46969 | .54027 | .67557 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.0309 | 24.072 | .51076 | 2.0085 | 2.0467 | 50.875 | .49534 |
| #2 | 1.0225 | 23.936 | .50319 | 1.9919 | 2.0331 | 50.487 | .49063 |

| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
|--------|---------|---------|---------|---------|---------|---------|---------|
| High   | 1.1000  | 27.500  | .55000  | 2.2000  | 2.2000  | 55.000  | .55000  |
| Low    | .90000  | 22.500  | .45000  | 1.8000  | 1.8000  | 45.000  | .45000  |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN     | MO     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | 2.0320 | 2.0297 | 1.9647 | 25.062 | 49.018 | 1.9939 | 2.0312 |
| SDev  | .0086  | .0088  | .0093  | .109   | .209   | .0084  | .0035  |
| %RSD  | .42382 | .43518 | .47529 | .43362 | .42608 | .42193 | .17465 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.0381 | 2.0359 | 1.9713 | 25.139 | 49.166 | 1.9998 | 2.0338 |
| #2 | 2.0259 | 2.0234 | 1.9581 | 24.985 | 48.871 | 1.9879 | 2.0287 |

| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
|--------|---------|---------|---------|---------|---------|---------|---------|
| High   | 2.2000  | 2.2000  | 2.2000  | 27.500  | 55.000  | 2.2000  | 2.2000  |
| Low    | 1.8000  | 1.8000  | 1.8000  | 22.500  | 45.000  | 1.8000  | 1.8000  |

| Elem  | NI     | PB/1   | PB/2   | PB     | SB/1   | SB/2   | SB     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | 2.0289 | .51132 | .50352 | .50612 | .50730 | .51345 | .51140 |
| SDev  | .0197  | .00201 | .00347 | .00298 | .00404 | .00350 | .00099 |
| %RSD  | .97314 | .39248 | .68939 | .58950 | .79548 | .68091 | .19322 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.0429 | .51274 | .50597 | .50823 | .51015 | .51098 | .51070 |
| #2 | 2.0149 | .50990 | .50106 | .50401 | .50444 | .51592 | .51210 |

| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
|--------|---------|---------|---------|---------|---------|---------|---------|
| High   | 2.2000  |         |         | .55000  |         |         | .55000  |
| Low    | 1.8000  |         |         | .45000  |         |         | .45000  |

| Elem  | SE/1   | SE/2   | SE     | TL     | V_     | ZN     |
|-------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .51579 | .51614 | .51602 | 1.0270 | 2.0219 | 2.0481 |
| SDev  | .00152 | .00664 | .00392 | .0123  | .0147  | .0087  |
| %RSD  | .29386 | 1.2863 | .76036 | 1.1996 | .72616 | .42401 |

|    |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|
| #1 | .51471 | .52083 | .51880 | 1.0357 | 2.0323 | 2.0543 |
| #2 | .51686 | .51145 | .51325 | 1.0183 | 2.0116 | 2.0420 |

| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
|--------|---------|---------|---------|---------|---------|---------|
| High   |         |         | .55000  | 1.1000  | 2.2000  | 2.2000  |
| Low    |         |         | .45000  | .90000  | 1.8000  | 1.8000  |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14122    | --      | --      | --      | --      | --      | --      |
| SDev   | 5.196959 | --      | --      | --      | --      | --      | --      |
| %RSD   | .0368009 | --      | --      | --      | --      | --      | --      |
| #1     | 14126    | --      | --      | --      | --      | --      | --      |
| #2     | 14118    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: CCB3

Operator: RJG

Run Time: 11/08/00 11:53:58

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00186  | .02756  | -.00014 | .00095  | -.00045 | .05929  | .00048  |
| SDev   | .00010  | .01389  | .00000  | .00013  | .00026  | .00701  | .00026  |
| %RSD   | 5.3061  | 50.384  | 2.5872  | 13.125  | 58.781  | 11.826  | 53.311  |
| #1     | .00179  | .03738  | -.00014 | .00086  | -.00063 | .05434  | .00030  |
| #2     | .00193  | .01774  | -.00014 | .00104  | -.00026 | .06425  | .00067  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00116  | .00217  | .00186  | .03931  | .03382  | .00167  | .00439  |
| SDev   | .00006  | .00022  | .00040  | .00256  | .00162  | .00020  | .00105  |
| %RSD   | 5.5873  | 10.145  | 21.479  | 6.5158  | 4.7854  | 12.141  | 23.921  |
| #1     | .00120  | .00202  | .00214  | .03750  | .03268  | .00153  | .00513  |
| #2     | .00111  | .00233  | .00158  | .04112  | .03497  | .00181  | .00365  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00314  | .00396  | -.00291 | -.00062 | -.00436 | .00185  | -.00022 |
| SDev   | .00058  | .00079  | .00285  | .00216  | .00193  | .00178  | .00055  |
| %RSD   | 18.576  | 19.851  | 97.973  | 348.16  | 44.293  | 96.593  | 247.19  |
| #1     | .00273  | .00452  | -.00089 | .00091  | -.00573 | .00311  | .00017  |
| #2     | .00355  | .00341  | -.00493 | -.00215 | -.00299 | .00059  | -.00061 |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00118  | .00205  | .00176  | -.00014 | .00123  | .00120  |         |
| SDev   | .00282  | .00112  | .00169  | .00300  | .00026  | .00011  |         |
| %RSD   | 239.37  | 54.810  | 95.922  | 2083.8  | 21.487  | 8.9806  |         |
| #1     | -.00082 | .00126  | .00057  | -.00227 | .00142  | .00113  |         |
| #2     | .00317  | .00285  | .00295  | .00198  | .00104  | .00128  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13883    | --      | --      | --      | --      | --      | --      |
| SDev   | 217.6121 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.567492 | --      | --      | --      | --      | --      | --      |
|        |          |         |         |         |         |         |         |
| #1     | 13729    | --      | --      | --      | --      | --      | --      |
| #2     | 14037    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8XG

Operator: RJG

Run Time: 11/08/00 11:58:07

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | BA     | BE     | CA     | CD     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00151 | 78.617 | .03825 | .53500 | .00435 | 387.12 | .00085 |
| SDev  | .00007 | .135   | .00124 | .00132 | .00001 | .60    | .00046 |
| %RSD  | 4.6277 | .17204 | 3.2353 | .24730 | .10955 | .15424 | 54.250 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00156 | 78.521 | .03913 | .53594 | .00436 | 387.54 | .00053 |
| #2 | .00146 | 78.712 | .03738 | .53406 | .00435 | 386.69 | .00118 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN     | MO     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .07296 | .12520 | .22338 | 164.88 | 73.292 | 5.8855 | .00339 |
| SDev  | .00018 | .00059 | .00035 | .03    | .079   | .0046  | .00051 |
| %RSD  | .25411 | .47448 | .15567 | .01541 | .10742 | .07793 | 14.909 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .07283 | .12562 | .22363 | 164.86 | 73.347 | 5.8887 | .00375 |
| #2 | .07310 | .12478 | .22314 | 164.90 | 73.236 | 5.8822 | .00303 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |

| Elem  | NI     | PB/1   | PB/2   | PB     | SB/1    | SB/2   | SB     |
|-------|--------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .15439 | .04925 | .04251 | .04475 | -.00015 | .00509 | .00334 |
| SDev  | .00284 | .00183 | .00035 | .00038 | .00234  | .00171 | .00036 |
| %RSD  | 1.8396 | 3.7234 | .83191 | .83749 | 1563.2  | 33.688 | 10.834 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .15640 | .05055 | .04226 | .04502 | -.00181 | .00630 | .00360 |
| #2 | .15238 | .04795 | .04276 | .04449 | .00151  | .00387 | .00309 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem  | SE/1    | SE/2    | SE      | TL      | V      | ZN     |
|-------|---------|---------|---------|---------|--------|--------|
| Units | ppm     | ppm     | ppm     | ppm     | ppm    | ppm    |
| Avge  | -.00072 | -.00218 | -.00170 | -.00491 | .18239 | .35967 |
| SDev  | .00455  | .00237  | .00310  | .00007  | .00037 | .00134 |
| %RSD  | 632.71  | 108.64  | 182.73  | 1.5289  | .20200 | .37157 |

|    |         |         |         |         |        |        |
|----|---------|---------|---------|---------|--------|--------|
| #1 | .00250  | -.00051 | .00050  | -.00496 | .18265 | .36061 |
| #2 | -.00394 | -.00386 | -.00389 | -.00485 | .18213 | .35872 |

|        |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14818    | --      | --      | --      | --      | --      | --      |
| SDev   | 44.54773 | --      | --      | --      | --      | --      | --      |
| %RSD   | .3006244 | --      | --      | --      | --      | --      | --      |
| #1     | 14787    | --      | --      | --      | --      | --      | --      |
| #2     | 14850    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8XH

Operator: RJG

Run Time: 11/08/00 12:02:16

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00108  | 79.041  | .03107  | .63377  | .00416  | 130.49  | .00099  |
| SDev   | .00044  | 1.288   | .00108  | .00752  | .00003  | 1.10    | .00008  |
| %RSD   | 40.230  | 1.6299  | 3.4729  | 1.1866  | .78711  | .84677  | 8.3575  |
| #1     | .00139  | 78.130  | .03031  | .62845  | .00418  | 129.71  | .00104  |
| #2     | .00078  | 79.952  | .03184  | .63909  | .00413  | 131.27  | .00093  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .06686  | .32351  | .45523  | 140.11  | 37.630  | 2.9801  | .00266  |
| SDev   | .00023  | .00310  | .00560  | 1.58    | .346    | .0304   | .00007  |
| %RSD   | .33918  | .95787  | 1.2304  | 1.1301  | .92052  | 1.0206  | 2.4952  |
| #1     | .06702  | .32132  | .45127  | 138.99  | 37.385  | 2.9586  | .00261  |
| #2     | .06670  | .32570  | .45919  | 141.23  | 37.875  | 3.0016  | .00271  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .11556  | .06197  | .05098  | .05464  | .00020  | .00646  | .00438  |
| SDev   | .00114  | .00217  | .00293  | .00123  | .00233  | .00171  | .00191  |
| %RSD   | .98939  | 3.4961  | 5.7389  | 2.2513  | 1156.7  | 26.452  | 43.746  |
| #1     | .11637  | .06350  | .04891  | .05377  | .00185  | .00767  | .00573  |
| #2     | .11476  | .06043  | .05305  | .05551  | -.00144 | .00525  | .00302  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00014  | -.00011 | -.00003 | -.00090 | .18586  | .33748  |         |
| SDev   | .00064  | .00268  | .00200  | .00264  | .00170  | .00215  |         |
| %RSD   | 466.13  | 2342.8  | 6455.8  | 294.42  | .91720  | .63581  |         |
| #1     | -.00031 | -.00201 | -.00145 | -.00276 | .18465  | .33596  |         |
| #2     | .00059  | .00178  | .00138  | .00097  | .18706  | .33899  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 15164    | --      | --      | --      | --      | --      | --      |
| SDev   | 52.99710 | --      | --      | --      | --      | --      | --      |
| %RSD   | .3495027 | --      | --      | --      | --      | --      | --      |
| #1     | 15126    | --      | --      | --      | --      | --      | --      |
| #2     | 15201    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8XJ

Operator: RJG

Run Time: 11/08/00 12:06:25

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | BA     | BE     | CA     | CD     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00136 | 49.224 | .05200 | .51779 | .00259 | 349.96 | .00060 |
| SDev  | .00016 | 2.299  | .00407 | .02064 | .00041 | 13.70  | .00013 |
| %RSD  | 11.629 | 4.6697 | 7.8327 | 3.9855 | 15.890 | 3.9162 | 21.862 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00147 | 47.598 | .04912 | .50320 | .00288 | 340.26 | .00069 |
| #2 | .00125 | 50.849 | .05488 | .53238 | .00230 | 359.65 | .00050 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN     | MO     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .05345 | .08604 | .21077 | 130.57 | 69.835 | 5.9902 | .00146 |
| SDev  | .00188 | .00331 | .00910 | 5.55   | 2.879  | .2450  | .00016 |
| %RSD  | 3.5126 | 3.8518 | 4.3168 | 4.2481 | 4.1222 | 4.0896 | 11.159 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .05212 | .08370 | .20434 | 126.64 | 67.799 | 5.8170 | .00157 |
| #2 | .05478 | .08838 | .21721 | 134.49 | 71.871 | 6.1634 | .00134 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |

| Elem  | NI     | PB/1   | PB/2   | PB     | SB/1    | SB/2   | SB     |
|-------|--------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .10869 | .03455 | .02804 | .03021 | -.00219 | .00403 | .00196 |
| SDev  | .00409 | .00060 | .00376 | .00231 | .00078  | .00283 | .00163 |
| %RSD  | 3.7617 | 1.7290 | 13.406 | 7.6410 | 35.829  | 70.396 | 83.253 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .10580 | .03498 | .02538 | .02858 | -.00274 | .00603 | .00311 |
| #2 | .11158 | .03413 | .03070 | .03184 | -.00163 | .00202 | .00080 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem  | SE/1   | SE/2   | SE     | TL      | V_     | ZN     |
|-------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00455 | .00023 | .00167 | -.00848 | .13169 | .27180 |
| SDev  | .00155 | .00232 | .00206 | .00230  | .00450 | .01127 |
| %RSD  | 34.052 | 1007.5 | 123.71 | 27.116  | 3.4189 | 4.1467 |

|    |        |         |        |          |        |        |
|----|--------|---------|--------|----------|--------|--------|
| #1 | .00345 | -.00141 | .00021 | L-.01011 | .12850 | .26383 |
| #2 | .00564 | .00187  | .00313 | -.00685  | .13487 | .27977 |

|        |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14924    | --      | --      | --      | --      | --      | --      |
| SDev   | 450.3918 | --      | --      | --      | --      | --      | --      |
| %RSD   | 3.017958 | --      | --      | --      | --      | --      | --      |
| #1     | 15242    | --      | --      | --      | --      | --      | --      |
| #2     | 14605    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DM8XX

Operator: RJG

Run Time: 11/08/00 12:10:34

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS       | BA      | BE      | CA      | CD      |
|--------|---------|---------|----------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00129  | 79.898  | .02556   | .73293  | .00433  | 218.53  | .00293  |
| SDev   | .00017  | .458    | .00196   | .00164  | .00001  | .57     | .00010  |
| %RSD   | 13.179  | .57377  | 7.6592   | .22420  | .23405  | .26008  | 3.5240  |
| #1     | .00141  | 79.574  | .02694   | .73177  | .00434  | 218.12  | .00286  |
| #2     | .00117  | 80.222  | .02417   | .73409  | .00432  | 218.93  | .00301  |
| Errors | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000   | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000  | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU       | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     |
| Avge   | .06649  | .12277  | .21165   | 148.87  | 47.704  | 3.6684  | .00602  |
| SDev   | .00002  | .00014  | .00088   | .65     | .152    | .0142   | .00041  |
| %RSD   | .03591  | .11476  | .41747   | .43741  | .31814  | .38672  | 6.8490  |
| #1     | .06647  | .12267  | .21103   | 148.41  | 47.597  | 3.6584  | .00631  |
| #2     | .06651  | .12287  | .21228   | 149.33  | 47.811  | 3.6785  | .00573  |
| Errors | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000   | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500  | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2     | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     |
| Avge   | .13096  | .07338  | .06705   | .06916  | .00268  | .00591  | .00483  |
| SDev   | .00194  | .00161  | .00166   | .00057  | .00235  | .00042  | .00106  |
| %RSD   | 1.4789  | 2.2011  | 2.4745   | .82253  | 87.742  | 7.1028  | 21.970  |
| #1     | .13233  | .07452  | .06588   | .06876  | .00102  | .00561  | .00408  |
| #2     | .12959  | .07224  | .06822   | .06956  | .00434  | .00621  | .00559  |
| Errors | LC Pass | NOCHECK | NOCHECK  | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |          | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |          | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE       | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |         |
| Avge   | -.00331 | -.00271 | -.00291  | -.00515 | .19088  | .54221  |         |
| SDev   | .00368  | .00628  | .00296   | .00237  | .00285  | .00007  |         |
| %RSD   | 111.09  | 231.65  | 101.75   | 45.973  | 1.4928  | .01215  |         |
| #1     | -.00071 | -.00715 | L-.00501 | -.00682 | .18886  | .54217  |         |
| #2     | -.00592 | .00173  | -.00082  | -.00348 | .19289  | .54226  |         |
| Errors | NOCHECK | NOCHECK | LC Pass  | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000   | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500  | -.01000 | -.05000 | -.02000 |         |

**674 573**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14763    | --      | --      | --      | --      | --      | --      |
| SDev   | 2.863644 | --      | --      | --      | --      | --      | --      |
| %RSD   | .0193978 | --      | --      | --      | --      | --      | --      |
| #1     | 14761    | --      | --      | --      | --      | --      | --      |
| #2     | 14765    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8XL

Operator: RJG

Run Time: 11/08/00 12:14:43

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |          |         |         |         |
|--------|---------|---------|---------|----------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA       | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avg    | .00156  | 75.212  | .02934  | .76831   | .00411  | 367.88  | .00134  |
| SDev   | .00009  | .411    | .00021  | .00015   | .00009  | 1.07    | .00015  |
| %RSD   | 5.9320  | .54697  | .70754  | .01892   | 2.2223  | .29025  | 10.910  |
| #1     | .00149  | 74.921  | .02949  | .76842   | .00418  | 367.12  | .00144  |
| #2     | .00162  | 75.503  | .02919  | .76821   | .00405  | 368.63  | .00124  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000   | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000  | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE       | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avg    | .07233  | .11763  | .20124  | 166.00   | 83.604  | 6.5339  | .00217  |
| SDev   | .00077  | .00050  | .00124  | .82      | .338    | .0272   | .00081  |
| %RSD   | 1.0698  | .42246  | .61747  | .49246   | .40434  | .41589  | 37.169  |
| #1     | .07179  | .11728  | .20036  | 165.43   | 83.365  | 6.5147  | .00274  |
| #2     | .07288  | .11798  | .20212  | 166.58   | 83.843  | 6.5532  | .00160  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00   | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000  | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB       | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avg    | .15015  | .04557  | .03845  | .04082   | -.00163 | .00514  | .00289  |
| SDev   | .00261  | .00128  | .00196  | .00088   | .00379  | .00081  | .00072  |
| %RSD   | 1.7378  | 2.8158  | 5.1022  | 2.1586   | 232.40  | 15.671  | 25.108  |
| #1     | .15199  | .04648  | .03706  | .04020   | -.00431 | .00571  | .00237  |
| #2     | .14830  | .04466  | .03984  | .04144   | .00105  | .00457  | .00340  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass  | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000   |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300  |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL       | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     |         |
| Avg    | .00101  | -.00176 | -.00084 | -.00800  | .18008  | .35313  |         |
| SDev   | .00453  | .00036  | .00127  | .00429   | .00022  | .00103  |         |
| %RSD   | 448.18  | 20.286  | 152.02  | 53.596   | .12436  | .29243  |         |
| #1     | .00422  | -.00201 | .00006  | L-.01103 | .18024  | .35240  |         |
| #2     | -.00219 | -.00151 | -.00174 | -.00497  | .17992  | .35386  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass  | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000   | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000  | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14568    | --      | --      | --      | --      | --      | --      |
| SDev   | 114.4097 | --      | --      | --      | --      | --      | --      |
| %RSD   | .7853308 | --      | --      | --      | --      | --      | --      |
| #1     | 14649    | --      | --      | --      | --      | --      | --      |
| #2     | 14487    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DNC2P

Operator: RJG

Run Time: 11/08/00 12:18:52

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |          |         |         |         |
|--------|---------|---------|---------|----------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA       | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .00320  | 87.651  | .04165  | 1.0898   | .00401  | 362.37  | .00117  |
| SDev   | .00206  | 1.272   | .00113  | .0132    | .00067  | 6.67    | .00041  |
| %RSD   | 64.390  | 1.4508  | 2.7026  | 1.2133   | 16.794  | 1.8407  | 35.128  |
| #1     | .00466  | 86.752  | .04086  | 1.0805   | .00353  | 367.09  | .00088  |
| #2     | .00174  | 88.550  | .04245  | 1.0992   | .00448  | 357.66  | .00146  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000   | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000  | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE       | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .08585  | .14073  | .28502  | 192.58   | 91.516  | 6.1745  | .00148  |
| SDev   | .00169  | .00322  | .00111  | 1.71     | 1.010   | .0656   | .00008  |
| %RSD   | 1.9725  | 2.2872  | .39082  | .88641   | 1.1039  | 1.0624  | 5.4968  |
| #1     | .08705  | .14301  | .28424  | 193.79   | 92.230  | 6.2208  | .00153  |
| #2     | .08465  | .13846  | .28581  | 191.38   | 90.802  | 6.1281  | .00142  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00   | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000  | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB       | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .17754  | .05835  | .04782  | .05132   | -.00068 | .00916  | .00588  |
| SDev   | .00363  | .00875  | .00229  | .00444   | .00237  | .00671  | .00368  |
| %RSD   | 2.0438  | 14.990  | 4.7858  | 8.6488   | 349.83  | 73.283  | 62.660  |
| #1     | .18010  | .06453  | .04944  | .05446   | -.00236 | .01390  | .00849  |
| #2     | .17497  | .05216  | .04620  | .04818   | .00100  | .00441  | .00328  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass  | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000   |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300  |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL       | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     |         |
| Avge   | -.00371 | -.00287 | -.00315 | L-.01058 | .20396  | .40757  |         |
| SDev   | .00734  | .00468  | .00068  | .00611   | .00324  | .00897  |         |
| %RSD   | 197.80  | 162.94  | 21.535  | 57.764   | 1.5870  | 2.2001  |         |
| #1     | .00148  | -.00618 | -.00363 | L-.01490 | .20624  | .41391  |         |
| #2     | -.00890 | .00044  | -.00267 | -.00626  | .20167  | .40123  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Low   | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000   | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000  | -.05000 | -.02000 |         |

**674 577**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14200    | --      | --      | --      | --      | --      | --      |
| SDev   | 869.5998 | --      | --      | --      | --      | --      | --      |
| %RSD   | 6.124093 | --      | --      | --      | --      | --      | --      |
| #1     | 13585    | --      | --      | --      | --      | --      | --      |
| #2     | 14815    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DNC2P T1 Rerun Operator: RJG  
 Run Time: 11/08/00 12:26:39  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | BA     | BE     | CA     | CD     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .00129 | 88.370 | .04243 | 1.1189 | .00516 | 360.56 | .00042 |
| SDev  | .00040 | 1.455  | .00053 | .0113  | .00105 | 4.74   | .00163 |
| %RSD  | 30.661 | 1.6463 | 1.2587 | 1.0100 | 20.446 | 1.3150 | 392.01 |

|    |        |        |        |        |        |        |         |
|----|--------|--------|--------|--------|--------|--------|---------|
| #1 | .00157 | 87.342 | .04205 | 1.1269 | .00590 | 363.91 | -.00074 |
| #2 | .00101 | 89.399 | .04280 | 1.1109 | .00441 | 357.21 | .00157  |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN     | MO     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .08423 | .13810 | .28307 | 190.53 | 90.929 | 6.1065 | .00200 |
| SDev  | .00023 | .00051 | .00235 | .80    | .140   | .0121  | .00006 |
| %RSD  | .27116 | .36560 | .83023 | .42083 | .15410 | .19859 | 2.8437 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .08439 | .13774 | .28141 | 189.97 | 91.028 | 6.0980 | .00196 |
| #2 | .08407 | .13845 | .28473 | 191.10 | 90.830 | 6.1151 | .00204 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |

| Elem  | NI     | PB/1   | PB/2   | PB     | SB/1   | SB/2   | SB     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .18074 | .05449 | .04715 | .04959 | .00388 | .00594 | .00526 |
| SDev  | .00904 | .00379 | .00301 | .00327 | .00029 | .00139 | .00083 |
| %RSD  | 5.0015 | 6.9540 | 6.3906 | 6.5967 | 7.3771 | 23.408 | 15.840 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .18714 | .05717 | .04928 | .05191 | .00408 | .00496 | .00467 |
| #2 | .17435 | .05181 | .04502 | .04728 | .00368 | .00693 | .00585 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem  | SE/1    | SE/2   | SE      | TL      | V_     | ZN     |
|-------|---------|--------|---------|---------|--------|--------|
| Units | ppm     | ppm    | ppm     | ppm     | ppm    | ppm    |
| Avg   | -.00186 | .00062 | -.00020 | -.00116 | .20924 | .40820 |
| SDev  | .00062  | .00084 | .00077  | .00080  | .00041 | .01060 |
| %RSD  | 33.303  | 134.77 | 375.13  | 68.897  | .19537 | 2.5960 |

|    |         |        |         |         |        |        |
|----|---------|--------|---------|---------|--------|--------|
| #1 | -.00142 | .00122 | .00034  | -.00059 | .20953 | .41569 |
| #2 | -.00230 | .00003 | -.00075 | -.00172 | .20895 | .40070 |

|        |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14530    | --      | --      | --      | --      | --      | --      |
| SDev   | 118.7228 | --      | --      | --      | --      | --      | --      |
| %RSD   | .8170987 | --      | --      | --      | --      | --      | --      |
| #1     | 14446    | --      | --      | --      | --      | --      | --      |
| #2     | 14614    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DM8W7/2 Mn Operator: RJG  
 Run Time: 11/08/00 12:30:48  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00179  | 57.376  | .02714  | .71280  | .00291  | 167.28  | .00165  |
| SDev   | .00150  | .425    | .00062  | .00366  | .00007  | .54     | .00055  |
| %RSD   | 83.977  | .74077  | 2.2878  | .51410  | 2.5907  | .32271  | 33.299  |
| #1     | .00285  | 57.075  | .02758  | .71021  | .00296  | 166.90  | .00126  |
| #2     | .00073  | 57.676  | .02670  | .71539  | .00285  | 167.66  | .00204  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05327  | .08829  | .12196  | 160.25  | 41.265  | 5.4333  | .00162  |
| SDev   | .00107  | .00072  | .00010  | .63     | .182    | .0234   | .00084  |
| %RSD   | 2.0127  | .81568  | .08130  | .39102  | .44137  | .43134  | 52.051  |
| #1     | .05251  | .08880  | .12189  | 159.81  | 41.137  | 5.4167  | .00221  |
| #2     | .05403  | .08778  | .12203  | 160.69  | 41.394  | 5.4499  | .00102  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .10083  | .05681  | .04416  | .04837  | -.00210 | .00759  | .00436  |
| SDev   | .00151  | .00385  | .00054  | .00164  | .00264  | .00498  | .00244  |
| %RSD   | 1.5019  | 6.7772  | 1.2225  | 3.3949  | 126.11  | 65.686  | 56.021  |
| #1     | .10190  | .05953  | .04454  | .04953  | -.00396 | .01111  | .00609  |
| #2     | .09976  | .05409  | .04378  | .04721  | -.00023 | .00406  | .00263  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00498  | .00168  | .00278  | -.00805 | .15596  | .25557  |         |
| SDev   | .00113  | .00085  | .00019  | .00173  | .00052  | .00026  |         |
| %RSD   | 22.759  | 50.707  | 6.9150  | 21.446  | .33014  | .10068  |         |
| #1     | .00578  | .00108  | .00265  | -.00927 | .15559  | .25576  |         |
| #2     | .00418  | .00229  | .00292  | -.00683 | .15632  | .25539  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14398    | --      | --      | --      | --      | --      | --      |
| SDev   | 7.671833 | --      | --      | --      | --      | --      | --      |
| %RSD   | .0532837 | --      | --      | --      | --      | --      | --      |
| #1     | 14404    | --      | --      | --      | --      | --      | --      |
| #2     | 14393    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8W7P10 Mn Operator: RJG  
 Run Time: 11/08/00 12:34:57  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | BA     | BE      | CA     | CD     |
|-------|--------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00170 | 11.308 | .00556 | .14875 | -.00052 | 35.606 | .00049 |
| SDev  | .00008 | .059   | .00006 | .00056 | .00044  | .185   | .00015 |
| %RSD  | 4.8511 | .52087 | 1.1518 | .37504 | 84.037  | .51831 | 31.419 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .00175 | 11.266 | .00560 | .14836 | -.00021 | 35.475 | .00038 |
| #2 | .00164 | 11.349 | .00551 | .14914 | -.00083 | 35.736 | .00060 |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN     | MO     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .01184 | .01970 | .02567 | 33.542 | 8.4445 | 1.1382 | .00056 |
| SDev  | .00002 | .00021 | .00071 | .245   | .0428  | .0073  | .00028 |
| %RSD  | .19610 | 1.0675 | 2.7602 | .73171 | .50634 | .64407 | 50.212 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .01183 | .01984 | .02517 | 33.369 | 8.4143 | 1.1330 | .00036 |
| #2 | .01186 | .01955 | .02617 | 33.716 | 8.4748 | 1.1433 | .00076 |

| Elem  | NI     | PB/1   | PB/2   | PB     | SB/1    | SB/2   | SB     |
|-------|--------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .02344 | .01502 | .00847 | .01065 | -.00109 | .00241 | .00125 |
| SDev  | .00023 | .00626 | .00198 | .00077 | .00157  | .00187 | .00072 |
| %RSD  | .96314 | 41.677 | 23.352 | 7.1943 | 143.30  | 77.436 | 58.183 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .02328 | .01945 | .00707 | .01119 | -.00220 | .00373 | .00176 |
| #2 | .02360 | .01060 | .00987 | .01011 | .00001  | .00109 | .00073 |

| Elem  | SE/1   | SE/2   | SE     | TL      | V_     | ZN     |
|-------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00030 | .00038 | .00035 | -.00560 | .03350 | .05437 |
| SDev  | .00038 | .00070 | .00034 | .00252  | .00005 | .00035 |
| %RSD  | 125.97 | 184.68 | 96.420 | 45.011  | .13306 | .64518 |

|    |        |         |        |         |        |        |
|----|--------|---------|--------|---------|--------|--------|
| #1 | .00057 | -.00012 | .00011 | -.00738 | .03347 | .05412 |
| #2 | .00003 | .00087  | .00059 | -.00381 | .03353 | .05461 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13781    | --      | --      | --      | --      | --      | --      |
| SDev   | 141.3150 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.025413 | --      | --      | --      | --      | --      | --      |
| #1     | 13881    | --      | --      | --      | --      | --      | --      |
| #2     | 13681    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM8XA/2 Mn Operator: RJG  
 Run Time: 11/08/00 12:39:07  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00225  | 42.596  | .01620  | .55416  | .00079  | 157.02  | .00228  |
| SDev   | .00040  | .141    | .00039  | .00062  | .00001  | .40     | .00006  |
| %RSD   | 17.728  | .33189  | 2.4107  | .11217  | 1.7953  | .25696  | 2.7604  |
| #1     | .00253  | 42.496  | .01648  | .55372  | .00078  | 157.30  | .00232  |
| #2     | .00197  | 42.696  | .01592  | .55460  | .00080  | 156.73  | .00223  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .03908  | .06673  | .06297  | 98.259  | 81.610  | 7.2046  | .00243  |
| SDev   | .00015  | .00091  | .00021  | .013    | .000    | .0011   | .00063  |
| %RSD   | .38091  | 1.3657  | .32669  | .01325  | .00056  | .01508  | 25.983  |
| #1     | .03919  | .06737  | .06311  | 98.268  | 81.610  | 7.2053  | .00287  |
| #2     | .03898  | .06609  | .06282  | 98.249  | 81.610  | 7.2038  | .00198  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .06442  | .20398  | .19580  | .19852  | -.00185 | .00442  | .00233  |
| SDev   | .00260  | .00196  | .00244  | .00097  | .00217  | .00234  | .00084  |
| %RSD   | 4.0427  | .96304  | 1.2448  | .48934  | 116.76  | 52.854  | 35.936  |
| #1     | .06626  | .20259  | .19752  | .19921  | -.00032 | .00277  | .00174  |
| #2     | .06258  | .20537  | .19407  | .19784  | -.00339 | .00608  | .00293  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | .00294  | -.00044 | .00069  | -.00788 | .11397  | .43598  |         |
| SDev   | .00294  | .00006  | .00094  | .00289  | .00058  | .00087  |         |
| %RSD   | 100.19  | 14.047  | 136.92  | 36.710  | .51114  | .19878  |         |
| #1     | .00086  | -.00039 | .00002  | -.00992 | .11438  | .43660  |         |
| #2     | .00502  | -.00048 | .00135  | -.00583 | .11356  | .43537  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13800    | --      | --      | --      | --      | --      | --      |
| SDev   | 55.36701 | --      | --      | --      | --      | --      | --      |
| %RSD   | .4011972 | --      | --      | --      | --      | --      | --      |
| #1     | 13761    | --      | --      | --      | --      | --      | --      |
| #2     | 13840    | --      | --      | --      | --      | --      | --      |

Method: METTRA

Sample Name: CCV3-4

Operator: RJG

Run Time: 11/08/00 12:43:16

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 1.0504  | 24.544  | .51274  | 2.0207  | 2.0569  | 50.920  | .49319  |
| SDev   | .0015   | .096    | .00522  | .0073   | .0022   | .049    | .00094  |
| %RSD   | .14408  | .39105  | 1.0184  | .35943  | .10622  | .09598  | .19125  |
| #1     | 1.0515  | 24.476  | .51643  | 2.0156  | 2.0584  | 50.955  | .49386  |
| #2     | 1.0493  | 24.612  | .50904  | 2.0258  | 2.0553  | 50.886  | .49253  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 1.1000  | 27.500  | .55000  | 2.2000  | 2.2000  | 55.000  | .55000  |
| Low    | .90000  | 22.500  | .45000  | 1.8000  | 1.8000  | 45.000  | .45000  |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 2.0560  | 2.0485  | 2.0043  | 25.255  | 49.760  | 2.0154  | 2.0622  |
| SDev   | .0018   | .0019   | .0050   | .029    | .022    | .0012   | .0058   |
| %RSD   | .08977  | .09193  | .25085  | .11472  | .04501  | .06039  | .28026  |
| #1     | 2.0573  | 2.0499  | 2.0007  | 25.235  | 49.744  | 2.0146  | 2.0581  |
| #2     | 2.0547  | 2.0472  | 2.0079  | 25.276  | 49.776  | 2.0163  | 2.0663  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.2000  | 2.2000  | 2.2000  | 27.500  | 55.000  | 2.2000  | 2.2000  |
| Low    | 1.8000  | 1.8000  | 1.8000  | 22.500  | 45.000  | 1.8000  | 1.8000  |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 2.0157  | .51992  | .51102  | .51398  | .52100  | .52543  | .52396  |
| SDev   | .0079   | .00267  | .00517  | .00434  | .00466  | .00436  | .00446  |
| %RSD   | .39311  | .51279  | 1.0115  | .84351  | .89510  | .83028  | .85174  |
| #1     | 2.0213  | .52180  | .51467  | .51705  | .52430  | .52852  | .52711  |
| #2     | 2.0101  | .51803  | .50736  | .51091  | .51771  | .52235  | .52080  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 2.2000  |         |         | .55000  |         |         | .55000  |
| Low    | 1.8000  |         |         | .45000  |         |         | .45000  |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .52313  | .52866  | .52682  | 1.0401  | 2.0386  | 2.0765  |         |
| SDev   | .00252  | .01218  | .00896  | .0063   | .0036   | .0010   |         |
| %RSD   | .48090  | 2.3044  | 1.7014  | .60114  | .17807  | .04706  |         |
| #1     | .52491  | .53727  | .53315  | 1.0445  | 2.0360  | 2.0772  |         |
| #2     | .52135  | .52004  | .52048  | 1.0356  | 2.0411  | 2.0758  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .55000  | 1.1000  | 2.2000  | 2.2000  |         |
| Low    |         |         | .45000  | .90000  | 1.8000  | 1.8000  |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13557    | --      | --      | --      | --      | --      | --      |
| SDev   | 30.22882 | --      | --      | --      | --      | --      | --      |
| %RSD   | .2229712 | --      | --      | --      | --      | --      | --      |
| #1     | 13536    | --      | --      | --      | --      | --      | --      |
| #2     | 13579    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: CCB4

Operator: RJG

Run Time: 11/08/00 12:47:25

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00121  | .02522  | .00061  | .00069  | -.00091 | .03752  | .00021  |
| SDev   | .00015  | .00506  | .00047  | .00010  | .00019  | .00012  | .00000  |
| %RSD   | 12.473  | 20.054  | 75.998  | 14.764  | 21.181  | .32874  | 1.0906  |
| #1     | .00110  | .02164  | .00028  | .00077  | -.00077 | .03744  | .00021  |
| #2     | .00132  | .02880  | .00094  | .00062  | -.00104 | .03761  | .00021  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00055  | .00161  | .00212  | .03236  | .02714  | .00147  | .00479  |
| SDev   | .00028  | .00000  | .00011  | .00157  | .00082  | .00010  | .00088  |
| %RSD   | 50.050  | .11402  | 5.1479  | 4.8464  | 3.0334  | 6.6423  | 18.395  |
| #1     | .00075  | .00161  | .00204  | .03125  | .02656  | .00140  | .00542  |
| #2     | .00036  | .00161  | .00219  | .03347  | .02773  | .00154  | .00417  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00303  | .00440  | -.00083 | .00091  | -.00220 | .00383  | .00182  |
| SDev   | .00021  | .00021  | .00065  | .00036  | .00287  | .00320  | .00118  |
| %RSD   | 6.8983  | 4.7403  | 78.646  | 39.926  | 130.31  | 83.627  | 64.789  |
| #1     | .00288  | .00425  | -.00037 | .00117  | -.00017 | .00156  | .00099  |
| #2     | .00317  | .00455  | -.00129 | .00066  | -.00423 | .00609  | .00265  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | -.00056 | .00181  | .00102  | -.00154 | .00179  | .00051  |         |
| SDev   | .00189  | .00170  | .00176  | .00212  | .00000  | .00018  |         |
| %RSD   | 336.45  | 93.896  | 172.58  | 137.48  | .10827  | 34.873  |         |
| #1     | .00077  | .00301  | .00227  | -.00305 | .00179  | .00063  |         |
| #2     | -.00189 | .00061  | -.00022 | -.00004 | .00179  | .00038  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13637    | --      | --      | --      | --      | --      | --      |
| SDev   | 17.25368 | --      | --      | --      | --      | --      | --      |
| %RSD   | .1265216 | --      | --      | --      | --      | --      | --      |
| #1     | 13649    | --      | --      | --      | --      | --      | --      |
| #2     | 13625    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN2EDB Operator: RJG  
 Run Time: 11/08/00 12:51:34  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

|        |         |         |         |          |         |         |         |
|--------|---------|---------|---------|----------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA       | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .00172  | .04339  | .00043  | .00070   | -.00163 | .09782  | .00008  |
| SDev   | .00015  | .00023  | .00148  | .00001   | .00007  | .00323  | .00014  |
| %RSD   | 8.5243  | .52303  | 346.48  | 1.7914   | 4.1869  | 3.3051  | 183.60  |
| #1     | .00182  | .04323  | -.00062 | .00071   | -.00168 | .10011  | .00018  |
| #2     | .00161  | .04355  | .00147  | .00069   | -.00159 | .09553  | -.00002 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000   | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000  | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE       | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .00046  | .00342  | .00277  | .04508   | .02994  | .00114  | .00335  |
| SDev   | .00019  | .00012  | .00016  | .00173   | .00424  | .00011  | .00030  |
| %RSD   | 42.337  | 3.5197  | 5.8727  | 3.8472   | 14.153  | 9.3488  | 8.9823  |
| #1     | .00059  | .00351  | .00266  | .04631   | .03294  | .00122  | .00356  |
| #2     | .00032  | .00334  | .00289  | .04386   | .02695  | .00107  | .00314  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000   | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000  | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB       | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .00458  | .00828  | -.00205 | .00139   | -.00121 | .00326  | .00177  |
| SDev   | .00044  | .00000  | .00296  | .00197   | .00022  | .00155  | .00111  |
| %RSD   | 9.6977  | .04731  | 144.31  | 141.84   | 18.330  | 47.525  | 62.558  |
| #1     | .00489  | .00827  | -.00414 | -.00000  | -.00137 | .00216  | .00099  |
| #2     | .00426  | .00828  | .00004  | .00279   | -.00106 | .00435  | .00255  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass  | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300   |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300  |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL       | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     |         |
| Avge   | -.00649 | .00098  | -.00151 | -.00705  | .00240  | .00463  |         |
| SDev   | .00265  | .00036  | .00064  | .00679   | .00028  | .00012  |         |
| %RSD   | 40.867  | 36.855  | 42.607  | 96.360   | 11.648  | 2.4853  |         |
| #1     | -.00462 | .00072  | -.00105 | -.00225  | .00259  | .00471  |         |
| #2     | -.00837 | .00124  | -.00196 | L-.01186 | .00220  | .00455  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass  | LC Pass | LC Pass |         |
| High   |         |         | .00500  | .01000   | .05000  | .02000  |         |
| Low    |         |         | -.00500 | -.01000  | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13261    | --      | --      | --      | --      | --      | --      |
| SDev   | 76.36753 | --      | --      | --      | --      | --      | --      |
| %RSD   | .5758611 | --      | --      | --      | --      | --      | --      |
| #1     | 13207    | --      | --      | --      | --      | --      | --      |
| #2     | 13315    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN2EDC

Operator: RJG

Run Time: 11/08/00 12:55:44

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05362  | 2.1081  | 2.0182  | 2.0413  | .05082  | 51.076  | .04903  |
| SDev   | .00030  | .0056   | .0014   | .0016   | .00003  | .069    | .00018  |
| %RSD   | .55835  | .26547  | .06905  | .07690  | .05467  | .13530  | .37641  |
| #1     | .05341  | 2.1042  | 2.0173  | 2.0425  | .05080  | 51.027  | .04916  |
| #2     | .05383  | 2.1121  | 2.0192  | 2.0402  | .05084  | 51.125  | .04890  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .06000  | 2.4000  | 2.4000  | 2.4000  | .06000  | 60.000  | .06000  |
| Low    | .04000  | 1.6000  | 1.6000  | 1.6000  | .04000  | 40.000  | .04000  |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .51453  | .20864  | .25999  | .93963  | 49.759  | .50371  | 1.0524  |
| SDev   | .00056  | .00018  | .00019  | .01345  | .103    | .00099  | .0025   |
| %RSD   | .10810  | .08505  | .07490  | 1.4313  | .20724  | .19671  | .23858  |
| #1     | .51414  | .20877  | .25985  | .93012  | 49.686  | .50301  | 1.0507  |
| #2     | .51492  | .20851  | .26013  | .94914  | 49.832  | .50441  | 1.0542  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .60000  | .24000  | .30000  | 1.2000  | 60.000  | .60000  | 1.2000  |
| Low    | .40000  | .16000  | .20000  | .80000  | 40.000  | .40000  | .80000  |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .51148  | .51681  | .49735  | .50383  | .49560  | .51489  | .50847  |
| SDev   | .00222  | .00160  | .00152  | .00154  | .00023  | .00310  | .00214  |
| %RSD   | .43466  | .30906  | .30545  | .30669  | .04587  | .60180  | .42136  |
| #1     | .51305  | .51568  | .49628  | .50274  | .49544  | .51270  | .50695  |
| #2     | .50990  | .51794  | .49843  | .50493  | .49576  | .51708  | .50998  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .60000  |         |         | .60000  |         |         | .60000  |
| Low    | .40000  |         |         | .40000  |         |         | .40000  |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | 1.9496  | 1.9692  | 1.9627  | 2.1357  | .51548  | .52603  |         |
| SDev   | .0091   | .0103   | .0099   | .0141   | .00012  | .00040  |         |
| %RSD   | .46873  | .52233  | .50459  | .66210  | .02265  | .07553  |         |
| #1     | 1.9432  | 1.9619  | 1.9557  | 2.1257  | .51540  | .52575  |         |
| #2     | 1.9561  | 1.9764  | 1.9697  | 2.1457  | .51556  | .52631  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 2.4000  | 2.4000  | .60000  | .60000  |         |
| Low    |         |         | 1.6000  | 1.6000  | .40000  | .40000  |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13296    | --      | --      | --      | --      | --      | --      |
| SDev   | 2.898862 | --      | --      | --      | --      | --      | --      |
| %RSD   | .0218023 | --      | --      | --      | --      | --      | --      |
| #1     | 13298    | --      | --      | --      | --      | --      | --      |
| #2     | 13294    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM61P

Operator: RJG

Run Time: 11/08/00 12:59:53

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00361  | 85.412  | .10882  | .58240  | .00367  | 19.288  | .01485  |
| SDev   | .00055  | .582    | .00166  | .00238  | .00033  | .026    | .00041  |
| %RSD   | 15.321  | .68099  | 1.5295  | .40947  | 8.9269  | .13388  | 2.7652  |
| #1     | .00400  | 85.001  | .10765  | .58071  | .00390  | 19.270  | .01456  |
| #2     | .00322  | 85.824  | .11000  | .58408  | .00344  | 19.306  | .01514  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .09360  | .25770  | .68092  | 203.58  | 31.156  | 2.6688  | .01612  |
| SDev   | .00027  | .00108  | .00317  | .81     | .103    | .0099   | .00016  |
| %RSD   | .28456  | .41748  | .46491  | .39762  | .33195  | .37023  | 1.0208  |
| #1     | .09341  | .25694  | .67868  | 203.01  | 31.083  | 2.6619  | .01600  |
| #2     | .09379  | .25846  | .68316  | 204.16  | 31.229  | 2.6758  | .01624  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .15231  | 2.2745  | 2.2277  | 2.2433  | .01488  | .01648  | .01595  |
| SDev   | .00106  | .0042   | .0047   | .0045   | .00011  | .00168  | .00108  |
| %RSD   | .69638  | .18301  | .20939  | .20048  | .76592  | 10.165  | 6.7698  |
| #1     | .15306  | 2.2774  | 2.2310  | 2.2465  | .01496  | .01530  | .01518  |
| #2     | .15156  | 2.2715  | 2.2244  | 2.2401  | .01479  | .01767  | .01671  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00513  | .01034  | .00861  | .00672  | .24270  | H5.5658 |         |
| SDev   | .00247  | .00277  | .00267  | .00533  | .00020  | .0015   |         |
| %RSD   | 48.159  | 26.821  | 31.059  | 79.387  | .08450  | .02733  |         |
| #1     | .00688  | .01230  | .01050  | .01049  | .24256  | H5.5647 |         |
| #2     | .00339  | .00838  | .00672  | .00295  | .24285  | H5.5669 |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC High |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14131    | --      | --      | --      | --      | --      | --      |
| SDev   | 5.833631 | --      | --      | --      | --      | --      | --      |
| %RSD   | .0412834 | --      | --      | --      | --      | --      | --      |
| #1     | 14127    | --      | --      | --      | --      | --      | --      |
| #2     | 14135    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DM61Q

Operator: RJG

Run Time: 11/08/00 13:04:02

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00173  | 26.831  | .03554  | .30326  | .00096  | 11.814  | .00930  |
| SDev   | .00032  | .066    | .00030  | .00006  | .00001  | .025    | .00008  |
| %RSD   | 18.683  | .24549  | .83586  | .01973  | 1.1421  | .21297  | .86984  |
| #1     | .00196  | 26.784  | .03575  | .30321  | .00097  | 11.832  | .00925  |
| #2     | .00150  | 26.877  | .03533  | .30330  | .00095  | 11.796  | .00936  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |

| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .03155  | .13682  | .51900  | 78.312  | 13.282  | .92123  | .01307  |
| SDev   | .00026  | .00054  | .00167  | .001    | .001    | .00071  | .00001  |
| %RSD   | .82490  | .39303  | .32085  | .00125  | .00807  | .07738  | .09038  |
| #1     | .03137  | .13720  | .51782  | 78.311  | 13.283  | .92073  | .01306  |
| #2     | .03173  | .13644  | .52017  | 78.312  | 13.281  | .92174  | .01308  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |

| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .13613  | 1.0394  | 1.0250  | 1.0298  | .00541  | .00829  | .00733  |
| SDev   | .00164  | .0021   | .0024   | .0023   | .00557  | .00297  | .00012  |
| %RSD   | 1.2075  | .20600  | .23165  | .22302  | 103.02  | 35.755  | 1.6642  |
| #1     | .13729  | 1.0379  | 1.0233  | 1.0282  | .00147  | .01039  | .00742  |
| #2     | .13497  | 1.0409  | 1.0267  | 1.0314  | .00935  | .00620  | .00725  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |
|--------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00065 | .00606  | .00383  | -.00137 | .14534  | 1.4737  |
| SDev   | .00553  | .00136  | .00094  | .00085  | .00010  | .0030   |
| %RSD   | 854.50  | 22.403  | 24.470  | 61.853  | .06720  | .20658  |
| #1     | .00326  | .00510  | .00449  | -.00077 | .14527  | 1.4758  |
| #2     | -.00456 | .00702  | .00316  | -.00197 | .14541  | 1.4715  |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13668    | --      | --      | --      | --      | --      | --      |
| SDev   | 11.27849 | --      | --      | --      | --      | --      | --      |
| %RSD   | .0825204 | --      | --      | --      | --      | --      | --      |
| #1     | 13676    | --      | --      | --      | --      | --      | --      |
| #2     | 13660    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM61QP5 Operator: RJG  
 Run Time: 11/08/00 13:08:11  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | BA     | BE      | CA     | CD     |
|-------|--------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00140 | 5.1973 | .00645 | .06052 | -.00063 | 2.3543 | .00200 |
| SDev  | .00005 | .0150  | .00116 | .00015 | .00001  | .0171  | .00009 |
| %RSD  | 3.8178 | .28929 | 17.958 | .24853 | .83831  | .72425 | 4.2706 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .00136 | 5.2079 | .00563 | .06063 | -.00063 | 2.3664 | .00206 |
| #2 | .00144 | 5.1867 | .00727 | .06042 | -.00064 | 2.3423 | .00194 |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN     | MO     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00671 | .02810 | .10111 | 15.505 | 2.6193 | .18312 | .00332 |
| SDev  | .00009 | .00018 | .00032 | .069   | .0156  | .00101 | .00012 |
| %RSD  | 1.3177 | .64681 | .31411 | .44276 | .59542 | .54976 | 3.5068 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00664 | .02798 | .10134 | 15.554 | 2.6303 | .18383 | .00340 |
| #2 | .00677 | .02823 | .10089 | 15.456 | 2.6083 | .18241 | .00323 |

| Elem  | NI     | PB/1   | PB/2   | PB     | SB/1   | SB/2   | SB     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .02910 | .21288 | .20355 | .20666 | .00005 | .00502 | .00337 |
| SDev  | .00007 | .00325 | .00111 | .00034 | .00051 | .00119 | .00062 |
| %RSD  | .23006 | 1.5286 | .54501 | .16629 | 953.21 | 23.621 | 18.432 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .02915 | .21518 | .20277 | .20690 | .00042  | .00418 | .00293 |
| #2 | .02906 | .21057 | .20434 | .20642 | -.00031 | .00586 | .00381 |

| Elem  | SE/1   | SE/2    | SE     | TL      | V_     | ZN     |
|-------|--------|---------|--------|---------|--------|--------|
| Units | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00135 | -.00025 | .00028 | -.00119 | .02907 | .29929 |
| SDev  | .00049 | .00201  | .00150 | .00432  | .00016 | .00206 |
| %RSD  | 36.021 | 804.32  | 531.65 | 363.66  | .56811 | .68784 |

|    |        |         |         |         |        |        |
|----|--------|---------|---------|---------|--------|--------|
| #1 | .00101 | -.00167 | -.00078 | .00187  | .02919 | .30075 |
| #2 | .00169 | .00117  | .00135  | -.00425 | .02896 | .29783 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13732    | --      | --      | --      | --      | --      | --      |
| SDev   | 84.21614 | --      | --      | --      | --      | --      | --      |
| %RSD   | .6132861 | --      | --      | --      | --      | --      | --      |
| #1     | 13672    | --      | --      | --      | --      | --      | --      |
| #2     | 13792    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM61QS

Operator: RJG

Run Time: 11/08/00 13:12:20

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05339  | 23.325  | 1.9824  | 2.1506  | .04962  | 60.015  | .05303  |
| SDev   | .00050  | .182    | .0012   | .0100   | .00025  | .100    | .00034  |
| %RSD   | .92987  | .78097  | .06167  | .46270  | .50331  | .16638  | .63345  |
| #1     | .05374  | 23.196  | 1.9833  | 2.1436  | .04944  | 59.945  | .05279  |
| #2     | .05304  | 23.454  | 1.9815  | 2.1577  | .04979  | 60.086  | .05327  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |

| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .51673  | .28987  | .59734  | 59.192  | 57.308  | 1.1236  | 1.0105  |
| SDev   | .00136  | .00008  | .00312  | .173    | .188    | .0040   | .0072   |
| %RSD   | .26420  | .02677  | .52288  | .29183  | .32807  | .35254  | .71504  |
| #1     | .51577  | .28981  | .59513  | 59.070  | 57.175  | 1.1208  | 1.0054  |
| #2     | .51770  | .28992  | .59955  | 59.314  | 57.441  | 1.1264  | 1.0156  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |

| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .55705  | 1.1269  | 1.1020  | 1.1103  | .46279  | .47749  | .47260  |
| SDev   | .00062  | .0009   | .0008   | .0002   | .00372  | .00084  | .00068  |
| %RSD   | .11151  | .08399  | .07049  | .01828  | .80454  | .17661  | .14333  |
| #1     | .55661  | 1.1275  | 1.1015  | 1.1102  | .46016  | .47809  | .47212  |
| #2     | .55749  | 1.1262  | 1.1026  | 1.1104  | .46542  | .47690  | .47308  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |
|--------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 1.8042  | 1.8337  | 1.8239  | 2.0464  | .59395  | 1.6910  |
| SDev   | .0028   | .0009   | .0016   | .0066   | .00582  | .0004   |
| %RSD   | .15536  | .05137  | .08563  | .32294  | .98040  | .02616  |
| #1     | 1.8062  | 1.8344  | 1.8250  | 2.0511  | .58983  | 1.6913  |
| #2     | 1.8022  | 1.8331  | 1.8228  | 2.0418  | .59807  | 1.6906  |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13211    | --      | --      | --      | --      | --      | --      |
| SDev   | 41.15306 | --      | --      | --      | --      | --      | --      |
| %RSD   | .3115013 | --      | --      | --      | --      | --      | --      |
| #1     | 13182    | --      | --      | --      | --      | --      | --      |
| #2     | 13240    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM61QD Operator: RJG  
 Run Time: 11/08/00 13:16:30  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .05308  | 34.063  | 1.9710  | 2.2011  | .05048  | 66.641  | .05281  |
| SDev   | .00010  | .097    | .0004   | .0080   | .00023  | .109    | .00011  |
| %RSD   | .18585  | .28549  | .01997  | .36556  | .45543  | .16286  | .21371  |
| #1     | .05301  | 34.131  | 1.9707  | 2.2068  | .05065  | 66.718  | .05289  |
| #2     | .05315  | 33.994  | 1.9713  | 2.1954  | .05032  | 66.564  | .05273  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .52533  | .33602  | .63479  | 76.363  | 60.640  | 1.3503  | 1.0278  |
| SDev   | .00045  | .00048  | .00149  | .040    | .103    | .0012   | .0012   |
| %RSD   | .08495  | .14161  | .23539  | .05241  | .16972  | .09166  | .11480  |
| #1     | .52501  | .33636  | .63584  | 76.391  | 60.712  | 1.3512  | 1.0270  |
| #2     | .52564  | .33568  | .63373  | 76.334  | 60.567  | 1.3495  | 1.0287  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .56939  | 1.1978  | 1.1689  | 1.1785  | .45572  | .46996  | .46522  |
| SDev   | .00195  | .0071   | .0030   | .0004   | .00208  | .00454  | .00372  |
| %RSD   | .34205  | .59543  | .25256  | .03445  | .45573  | .96682  | .80010  |
| #1     | .57077  | 1.1928  | 1.1710  | 1.1782  | .45425  | .46675  | .46259  |
| #2     | .56801  | 1.2029  | 1.1668  | 1.1788  | .45719  | .47317  | .46785  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | 1.8115  | 1.8481  | 1.8359  | 2.0413  | .63955  | 1.6139  |         |
| SDev   | .0154   | .0114   | .0025   | .0026   | .00364  | .0008   |         |
| %RSD   | .84882  | .61646  | .13500  | .12532  | .56945  | .05269  |         |
| #1     | 1.8006  | 1.8561  | 1.8377  | 2.0395  | .64212  | 1.6133  |         |
| #2     | 1.8224  | 1.8400  | 1.8342  | 2.0432  | .63697  | 1.6145  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13423    | --      | --      | --      | --      | --      | --      |
| SDev   | 48.40160 | --      | --      | --      | --      | --      | --      |
| %RSD   | .3605796 | --      | --      | --      | --      | --      | --      |
| #1     | 13458    | --      | --      | --      | --      | --      | --      |
| #2     | 13389    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DM61V

Operator: RJG

Run Time: 11/08/00 13:20:39

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00125  | 48.837  | .02248  | .15485  | .00366  | 20.028  | .00380  |
| SDev   | .00054  | .029    | .00018  | .00048  | .00001  | .059    | .00011  |
| %RSD   | 43.649  | .05963  | .78225  | .31034  | .27358  | .29303  | 2.8180  |
| #1     | .00163  | 48.858  | .02236  | .15519  | .00367  | 20.069  | .00388  |
| #2     | .00086  | 48.816  | .02261  | .15451  | .00365  | 19.986  | .00373  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .07278  | .19998  | .28213  | 152.66  | 36.377  | 2.0546  | .00698  |
| SDev   | .00047  | .00063  | .00013  | .16     | .047    | .0039   | .00009  |
| %RSD   | .64116  | .31258  | .04738  | .10800  | .13040  | .19063  | 1.2494  |
| #1     | .07245  | .20042  | .28204  | 152.78  | 36.410  | 2.0573  | .00691  |
| #2     | .07311  | .19953  | .28223  | 152.54  | 36.343  | 2.0518  | .00704  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .09884  | .79286  | .77042  | .77790  | .00542  | .00748  | .00679  |
| SDev   | .00369  | .00877  | .00389  | .00551  | .00179  | .00033  | .00037  |
| %RSD   | 3.7360  | 1.1055  | .50528  | .70901  | 32.977  | 4.4662  | 5.4809  |
| #1     | .10145  | .78666  | .76767  | .77400  | .00416  | .00772  | .00653  |
| #2     | .09623  | .79906  | .77318  | .78180  | .00668  | .00724  | .00706  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | -.00330 | .00606  | .00294  | -.00046 | .34148  | .87387  |         |
| SDev   | .00413  | .00599  | .00537  | .00228  | .00331  | .00164  |         |
| %RSD   | 125.09  | 98.934  | 182.68  | 494.35  | .96809  | .18796  |         |
| #1     | -.00038 | .01030  | .00674  | .00115  | .34382  | .87503  |         |
| #2     | -.00622 | .00182  | -.00086 | -.00207 | .33914  | .87271  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14090    | --      | --      | --      | --      | --      | --      |
| SDev   | 1.802984 | --      | --      | --      | --      | --      | --      |
| %RSD   | .0127966 | --      | --      | --      | --      | --      | --      |
| #1     | 14091    | --      | --      | --      | --      | --      | --      |
| #2     | 14088    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM61W

Operator: RJG

Run Time: 11/08/00 13:24:48

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00142  | 23.977  | .01689  | .13082  | .00017  | 8.2781  | .00347  |
| SDev   | .00045  | .133    | .00078  | .00015  | .00014  | .0265   | .00029  |
| %RSD   | 31.924  | .55659  | 4.6086  | .11400  | 81.983  | .32004  | 8.4728  |
| #1     | .00174  | 23.883  | .01744  | .13072  | .00027  | 8.2594  | .00326  |
| #2     | .00110  | 24.071  | .01634  | .13093  | .00007  | 8.2968  | .00368  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .02613  | .09910  | .17852  | 68.721  | 13.996  | 1.5696  | .00897  |
| SDev   | .00039  | .00050  | .00092  | .351    | .054    | .0071   | .00031  |
| %RSD   | 1.4897  | .50641  | .51711  | .51018  | .38339  | .45507  | 3.4445  |
| #1     | .02585  | .09874  | .17787  | 68.473  | 13.958  | 1.5646  | .00919  |
| #2     | .02640  | .09945  | .17918  | 68.969  | 14.034  | 1.5747  | .00875  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .07652  | .26702  | .25667  | .26012  | .00298  | .00589  | .00492  |
| SDev   | .00077  | .00184  | .00106  | .00009  | .00009  | .00342  | .00231  |
| %RSD   | 1.0008  | .68962  | .41288  | .03600  | 2.9553  | 58.039  | 46.932  |
| #1     | .07598  | .26833  | .25592  | .26005  | .00304  | .00830  | .00655  |
| #2     | .07706  | .26572  | .25742  | .26018  | .00292  | .00347  | .00329  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | -.00299 | .00786  | .00425  | .00113  | .09613  | .79396  |         |
| SDev   | .00064  | .00307  | .00226  | .00135  | .00072  | .00037  |         |
| %RSD   | 21.334  | 39.099  | 53.276  | 119.82  | .74669  | .04681  |         |
| #1     | -.00344 | .00569  | .00265  | .00208  | .09562  | .79423  |         |
| #2     | -.00254 | .01003  | .00585  | .00017  | .09664  | .79370  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

**674 607**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13608    | --      | --      | --      | --      | --      | --      |
| SDev   | 63.56918 | --      | --      | --      | --      | --      | --      |
| %RSD   | .4671559 | --      | --      | --      | --      | --      | --      |
| #1     | 13653    | --      | --      | --      | --      | --      | --      |
| #2     | 13563    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM61X

Operator: RJG

Run Time: 11/08/00 13:28:57

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00101  | 24.937  | .01675  | .13423  | .00019  | 6.7643  | .00191  |
| SDev   | .00006  | .045    | .00011  | .00039  | .00012  | .0513   | .00007  |
| %RSD   | 5.8991  | .18139  | .64840  | .29106  | 62.059  | .75787  | 3.8900  |
| #1     | .00105  | 24.969  | .01683  | .13450  | .00010  | 6.8005  | .00196  |
| #2     | .00097  | 24.905  | .01667  | .13395  | .00027  | 6.7280  | .00185  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .02573  | .07866  | .14560  | 65.817  | 16.283  | .87859  | .00272  |
| SDev   | .00005  | .00073  | .00057  | .423    | .132    | .00586  | .00050  |
| %RSD   | .20289  | .92555  | .39357  | .64234  | .80977  | .66694  | 18.351  |
| #1     | .02577  | .07918  | .14601  | 66.116  | 16.376  | .88273  | .00307  |
| #2     | .02569  | .07815  | .14520  | 65.518  | 16.190  | .87444  | .00237  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .06069  | .17325  | .16054  | .16477  | -.00027 | .00705  | .00461  |
| SDev   | .00206  | .00177  | .00254  | .00229  | .00005  | .00145  | .00098  |
| %RSD   | 3.3928  | 1.0235  | 1.5841  | 1.3878  | 19.147  | 20.519  | 21.291  |
| #1     | .06215  | .17451  | .16233  | .16639  | -.00023 | .00807  | .00530  |
| #2     | .05924  | .17200  | .15874  | .16315  | -.00031 | .00602  | .00392  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00051  | .00379  | .00270  | -.00048 | .09699  | .53207  |         |
| SDev   | .00266  | .00164  | .00198  | .00123  | .00116  | .00501  |         |
| %RSD   | 524.68  | 43.231  | 73.329  | 254.82  | 1.1998  | .94191  |         |
| #1     | .00238  | .00495  | .00410  | -.00136 | .09782  | .53561  |         |
| #2     | -.00137 | .00263  | .00130  | .00039  | .09617  | .52852  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

**674 609**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13642    | --      | --      | --      | --      | --      | --      |
| SDev   | 188.3024 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.380304 | --      | --      | --      | --      | --      | --      |
| #1     | 13509    | --      | --      | --      | --      | --      | --      |
| #2     | 13775    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: CCV3-5

000

170

Operator: RJG

Run Time: 11/08/00 13:33:07

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 1.0540  | 24.459  | .51005  | 2.0356  | 2.0610  | 50.975  | .49468  |
| SDev   | .0041   | .118    | .00433  | .0072   | .0105   | .218    | .00331  |
| %RSD   | .38941  | .48423  | .84968  | .35285  | .50930  | .42755  | .66802  |
| #1     | 1.0511  | 24.375  | .50698  | 2.0305  | 2.0536  | 50.821  | .49235  |
| #2     | 1.0569  | 24.543  | .51311  | 2.0407  | 2.0684  | 51.129  | .49702  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 1.1000  | 27.500  | .55000  | 2.2000  | 2.2000  | 55.000  | .55000  |
| Low    | .90000  | 22.500  | .45000  | 1.8000  | 1.8000  | 45.000  | .45000  |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 2.0460  | 2.0435  | 2.0054  | 25.102  | 49.753  | 2.0124  | 2.0602  |
| SDev   | .0139   | .0094   | .0109   | .175    | .286    | .0109   | .0198   |
| %RSD   | .67752  | .45844  | .54575  | .69744  | .57403  | .54147  | .96251  |
| #1     | 2.0362  | 2.0369  | 1.9977  | 24.979  | 49.551  | 2.0047  | 2.0462  |
| #2     | 2.0558  | 2.0501  | 2.0131  | 25.226  | 49.955  | 2.0201  | 2.0742  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.2000  | 2.2000  | 2.2000  | 27.500  | 55.000  | 2.2000  | 2.2000  |
| Low    | 1.8000  | 1.8000  | 1.8000  | 22.500  | 45.000  | 1.8000  | 1.8000  |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 2.0515  | .51248  | .50348  | .50648  | .51158  | .51902  | .51654  |
| SDev   | .0070   | .00924  | .00241  | .00469  | .00271  | .00815  | .00453  |
| %RSD   | .34277  | 1.8030  | .47936  | .92537  | .53023  | 1.5699  | .87731  |
| #1     | 2.0465  | .50595  | .50177  | .50316  | .51350  | .51326  | .51334  |
| #2     | 2.0564  | .51902  | .50519  | .50979  | .50966  | .52478  | .51975  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 2.2000  |         |         | .55000  |         |         | .55000  |
| Low    | 1.8000  |         |         | .45000  |         |         | .45000  |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .51904  | .52300  | .52168  | 1.0436  | 2.0444  | 2.0902  |         |
| SDev   | .00707  | .00064  | .00278  | .0131   | .0036   | .0145   |         |
| %RSD   | 1.3612  | .12203  | .53261  | 1.2582  | .17568  | .69506  |         |
| #1     | .51404  | .52254  | .51971  | 1.0343  | 2.0418  | 2.0799  |         |
| #2     | .52403  | .52345  | .52364  | 1.0529  | 2.0469  | 2.1004  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .55000  | 1.1000  | 2.2000  | 2.2000  |         |
| Low    |         |         | .45000  | .90000  | 1.8000  | 1.8000  |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13372    | --      | --      | --      | --      | --      | --      |
| SDev   | 80.96373 | --      | --      | --      | --      | --      | --      |
| %RSD   | .6054540 | --      | --      | --      | --      | --      | --      |
| #1     | 13430    | --      | --      | --      | --      | --      | --      |
| #2     | 13315    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: CCB5

Operator: RJG

Run Time: 11/08/00 13:37:16

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00154  | .05261  | .00094  | .00103  | -.00060 | .03099  | .00015  |
| SDev   | .00056  | .00366  | .00075  | .00031  | .00007  | .00764  | .00015  |
| %RSD   | 36.339  | 6.9578  | 78.844  | 29.989  | 12.266  | 24.667  | 99.547  |
| #1     | .00115  | .05003  | .00042  | .00081  | -.00065 | .02559  | .00026  |
| #2     | .00194  | .05520  | .00147  | .00125  | -.00055 | .03640  | .00005  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00121  | .00178  | .00182  | .04078  | .03177  | .00118  | .00514  |
| SDev   | .00011  | .00049  | .00033  | .00516  | .00956  | .00033  | .00121  |
| %RSD   | 9.3853  | 27.825  | 17.932  | 12.658  | 30.082  | 27.869  | 23.575  |
| #1     | .00113  | .00143  | .00159  | .04443  | .02501  | .00094  | .00600  |
| #2     | .00129  | .00213  | .00205  | .03713  | .03852  | .00141  | .00429  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00394  | .00533  | .00019  | .00190  | -.00300 | .00230  | .00054  |
| SDev   | .00082  | .00169  | .00137  | .00035  | .00211  | .00123  | .00012  |
| %RSD   | 20.805  | 31.712  | 721.07  | 18.343  | 70.355  | 53.186  | 21.405  |
| #1     | .00452  | .00413  | .00116  | .00215  | -.00151 | .00144  | .00046  |
| #2     | .00336  | .00652  | -.00078 | .00165  | -.00449 | .00317  | .00062  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00152  | .00043  | .00079  | .00297  | .00256  | .00146  |         |
| SDev   | .00118  | .00159  | .00067  | .00229  | .00001  | .00029  |         |
| %RSD   | 77.429  | 370.47  | 83.961  | 77.173  | .54003  | 19.559  |         |
| #1     | .00069  | .00155  | .00126  | .00135  | .00255  | .00126  |         |
| #2     | .00236  | -.00069 | .00032  | .00459  | .00257  | .00167  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

**674 613**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13423    | --      | --      | --      | --      | --      | --      |
| SDev   | 111.5109 | --      | --      | --      | --      | --      | --      |
| %RSD   | .8307696 | --      | --      | --      | --      | --      | --      |
| #1     | 13501    | --      | --      | --      | --      | --      | --      |
| #2     | 13344    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DM613

Operator: RJG

Run Time: 11/08/00 13:41:25

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00155  | 34.739  | .01972  | .17230  | .00069  | 13.029  | .00240  |
| SDev   | .00070  | .300    | .00043  | .00151  | .00016  | .076    | .00029  |
| %RSD   | 45.197  | .86405  | 2.1742  | .87666  | 23.012  | .58105  | 12.013  |
| #1     | .00105  | 34.527  | .01941  | .17123  | .00080  | 12.975  | .00220  |
| #2     | .00204  | 34.951  | .02002  | .17337  | .00058  | 13.082  | .00260  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .04409  | .11405  | .17385  | 92.136  | 29.273  | 2.2751  | .00627  |
| SDev   | .00047  | .00101  | .00089  | .740    | .200    | .0147   | .00070  |
| %RSD   | 1.0578  | .88586  | .51475  | .80284  | .68408  | .64780  | 11.185  |
| #1     | .04376  | .11333  | .17321  | 91.613  | 29.131  | 2.2647  | .00677  |
| #2     | .04442  | .11476  | .17448  | 92.659  | 29.414  | 2.2855  | .00578  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .07531  | .25234  | .23616  | .24155  | .00347  | .00783  | .00638  |
| SDev   | .00092  | .00244  | .00105  | .00151  | .00172  | .00021  | .00043  |
| %RSD   | 1.2243  | .96538  | .44342  | .62500  | 49.672  | 2.7455  | 6.7481  |
| #1     | .07466  | .25062  | .23542  | .24048  | .00225  | .00798  | .00607  |
| #2     | .07596  | .25407  | .23690  | .24262  | .00469  | .00768  | .00668  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | -.00315 | .00560  | .00269  | .00082  | .13423  | .69320  |         |
| SDev   | .00387  | .00177  | .00247  | .00270  | .00055  | .00268  |         |
| %RSD   | 122.95  | 31.518  | 91.793  | 328.48  | .40612  | .38736  |         |
| #1     | -.00041 | .00685  | .00443  | -.00109 | .13461  | .69130  |         |
| #2     | -.00589 | .00435  | .00094  | .00273  | .13384  | .69510  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

**674 615**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13468    | --      | --      | --      | --      | --      | --      |
| SDev   | 34.32990 | --      | --      | --      | --      | --      | --      |
| %RSD   | .2548955 | --      | --      | --      | --      | --      | --      |
| #1     | 13492    | --      | --      | --      | --      | --      | --      |
| #2     | 13444    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN3P6B

Operator: RJG

Run Time: 11/08/00 13:45:35

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00131  | .04453  | -.00103 | .00055  | -.00102 | .09069  | .00014  |
| SDev   | .00007  | .00109  | .00101  | .00002  | .00002  | .00096  | .00011  |
| %RSD   | 5.7630  | 2.4509  | 98.059  | 4.4821  | 1.9097  | 1.0592  | 78.971  |
| #1     | .00126  | .04376  | -.00174 | .00056  | -.00101 | .09001  | .00006  |
| #2     | .00136  | .04531  | -.00032 | .00053  | -.00104 | .09137  | .00022  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00073  | .00190  | .00144  | .04727  | .02257  | .00105  | .00158  |
| SDev   | .00051  | .00042  | .00036  | .01060  | .00081  | .00016  | .00045  |
| %RSD   | 70.238  | 21.864  | 25.006  | 22.422  | 3.6053  | 15.778  | 28.278  |
| #1     | .00109  | .00220  | .00118  | .03978  | .02315  | .00093  | .00190  |
| #2     | .00037  | .00161  | .00169  | .05477  | .02200  | .00116  | .00126  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00273  | .00399  | -.00042 | .00105  | -.00125 | .00081  | .00012  |
| SDev   | .00082  | .00080  | .00003  | .00029  | .00210  | .00212  | .00211  |
| %RSD   | 30.177  | 20.090  | 7.7138  | 27.595  | 168.01  | 262.60  | 1742.5  |
| #1     | .00215  | .00456  | -.00040 | .00125  | -.00274 | -.00069 | -.00137 |
| #2     | .00331  | .00343  | -.00045 | .00084  | .00024  | .00230  | .00161  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | -.00041 | -.00103 | -.00082 | .00026  | .00124  | .00372  |         |
| SDev   | .00220  | .00007  | .00069  | .00336  | .00026  | .00012  |         |
| %RSD   | 532.84  | 6.8499  | 83.591  | 1299.6  | 21.275  | 3.2950  |         |
| #1     | .00114  | -.00107 | -.00034 | -.00212 | .00105  | .00363  |         |
| #2     | -.00197 | -.00098 | -.00131 | .00264  | .00143  | .00380  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

**674 617**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13671    | --      | --      | --      | --      | --      | --      |
| SDev   | 15.13236 | --      | --      | --      | --      | --      | --      |
| %RSD   | .1106859 | --      | --      | --      | --      | --      | --      |
| #1     | 13661    | --      | --      | --      | --      | --      | --      |
| #2     | 13682    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN3P6C

Operator: RJG

Run Time: 11/08/00 13:49:45

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05359  | 2.1075  | 2.0335  | 2.0370  | .05091  | 50.913  | .04894  |
| SDev   | .00057  | .0091   | .0076   | .0010   | .00021  | .181    | .00031  |
| %RSD   | 1.0605  | .43234  | .37207  | .05138  | .40579  | .35507  | .63459  |
| #1     | .05400  | 2.1139  | 2.0389  | 2.0377  | .05106  | 51.041  | .04916  |
| #2     | .05319  | 2.1010  | 2.0282  | 2.0363  | .05077  | 50.785  | .04872  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .06000  | 2.4000  | 2.4000  | 2.4000  | .06000  | 60.000  | .06000  |
| Low    | .04000  | 1.6000  | 1.6000  | 1.6000  | .04000  | 40.000  | .04000  |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .51195  | .21263  | .25466  | .94573  | 49.365  | .50261  | 1.0362  |
| SDev   | .00179  | .00099  | .00030  | .00650  | .120    | .00089  | .0020   |
| %RSD   | .34944  | .46410  | .11788  | .68752  | .24301  | .17767  | .19685  |
| #1     | .51321  | .21333  | .25487  | .95032  | 49.449  | .50324  | 1.0376  |
| #2     | .51068  | .21194  | .25444  | .94113  | 49.280  | .50198  | 1.0347  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .60000  | .24000  | .30000  | 1.2000  | 60.000  | .60000  | 1.2000  |
| Low    | .40000  | .16000  | .20000  | .80000  | 40.000  | .40000  | .80000  |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .51960  | .51375  | .49951  | .50425  | .48803  | .51038  | .50294  |
| SDev   | .00810  | .00306  | .00083  | .00157  | .00107  | .00084  | .00020  |
| %RSD   | 1.5581  | .59526  | .16638  | .31189  | .21917  | .16408  | .04025  |
| #1     | .52533  | .51591  | .50010  | .50536  | .48728  | .51097  | .50308  |
| #2     | .51388  | .51159  | .49892  | .50314  | .48879  | .50979  | .50280  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .60000  |         |         | .60000  |         |         | .60000  |
| Low    | .40000  |         |         | .40000  |         |         | .40000  |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | 1.9692  | 1.9852  | 1.9799  | 2.1438  | .51673  | .52978  |         |
| SDev   | .0122   | .0031   | .0061   | .0050   | .00393  | .00211  |         |
| %RSD   | .61800  | .15619  | .30914  | .23339  | .76035  | .39817  |         |
| #1     | 1.9778  | 1.9874  | 1.9842  | 2.1403  | .51951  | .53127  |         |
| #2     | 1.9606  | 1.9830  | 1.9755  | 2.1474  | .51395  | .52829  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 2.4000  | 2.4000  | .60000  | .60000  |         |
| Low    |         |         | 1.6000  | 1.6000  | .40000  | .40000  |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13142    | --      | --      | --      | --      | --      | --      |
| SDev   | 134.5982 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.024146 | --      | --      | --      | --      | --      | --      |
| #1     | 13047    | --      | --      | --      | --      | --      | --      |
| #2     | 13238    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DNKCP

Operator: RJG

Run Time: 11/08/00 13:53:54

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |          |         |         |         |
|--------|---------|---------|---------|----------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA       | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .00262  | 66.042  | .05512  | 1.0058   | .00653  | 12.319  | .00246  |
| SDev   | .00029  | .187    | .00213  | .0008    | .00013  | .035    | .00007  |
| %RSD   | 11.004  | .28342  | 3.8616  | .07943   | 1.9715  | .28206  | 2.7605  |
| #1     | .00241  | 65.910  | .05663  | 1.0064   | .00663  | 12.343  | .00241  |
| #2     | .00282  | 66.174  | .05362  | 1.0053   | .00644  | 12.294  | .00250  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000   | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000  | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE       | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .11263  | .13493  | .11954  | 235.10   | 17.066  | H10.287 | .00489  |
| SDev   | .00039  | .00047  | .00023  | .00      | .006    | .010    | .00045  |
| %RSD   | .34414  | .34835  | .19372  | .00115   | .03397  | .10113  | 9.1782  |
| #1     | .11291  | .13460  | .11971  | 235.10   | 17.062  | H10.295 | .00520  |
| #2     | .11236  | .13527  | .11938  | 235.10   | 17.070  | H10.280 | .00457  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC High | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00   | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000  | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB       | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .18229  | .11992  | .10973  | .11312   | .00039  | .00794  | .00543  |
| SDev   | .00187  | .00168  | .00059  | .00016   | .00191  | .00053  | .00099  |
| %RSD   | 1.0254  | 1.3980  | .53847  | .14511   | 484.86  | 6.6416  | 18.189  |
| #1     | .18361  | .12110  | .10931  | .11324   | .00174  | .00831  | .00613  |
| #2     | .18097  | .11873  | .11015  | .11301   | -.00096 | .00757  | .00473  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass  | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000   |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300  |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL       | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     |         |
| Avge   | .00192  | .00095  | .00127  | -.00917  | .17840  | .46946  |         |
| SDev   | .00106  | .00500  | .00298  | .00384   | .00106  | .00008  |         |
| %RSD   | 55.394  | 524.28  | 233.84  | 41.906   | .59590  | .01616  |         |
| #1     | .00267  | -.00258 | -.00083 | -.00645  | .17915  | .46951  |         |
| #2     | .00117  | .00449  | .00338  | L-.01189 | .17765  | .46940  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass  | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000   | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000  | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14134    | --      | --      | --      | --      | --      | --      |
| SDev   | 44.65338 | --      | --      | --      | --      | --      | --      |
| %RSD   | .3159305 | --      | --      | --      | --      | --      | --      |
| #1     | 14102    | --      | --      | --      | --      | --      | --      |
| #2     | 14166    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DNKCPP5

Operator: RJG

Run Time: 11/08/00 13:58:04

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | BA     | BE     | CA     | CD     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00129 | 13.192 | .01228 | .20956 | .00049 | 2.5781 | .00065 |
| SDev  | .00047 | .032   | .00042 | .00032 | .00002 | .0071  | .00018 |
| %RSD  | 36.463 | .24551 | 3.4129 | .15047 | 3.4209 | .27714 | 27.923 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00162 | 13.169 | .01198 | .20933 | .00050 | 2.5832 | .00078 |
| #2 | .00096 | 13.215 | .01258 | .20978 | .00047 | 2.5731 | .00052 |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN     | MO     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .02386 | .02854 | .02441 | 48.859 | 3.5212 | 2.1141 | .00212 |
| SDev  | .00029 | .00051 | .00022 | .045   | .0121  | .0040  | .00067 |
| %RSD  | 1.2259 | 1.7753 | .91725 | .09220 | .34492 | .19062 | 31.420 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .02366 | .02890 | .02426 | 48.891 | 3.5298 | 2.1169 | .00165 |
| #2 | .02407 | .02818 | .02457 | 48.827 | 3.5126 | 2.1112 | .00259 |

| Elem  | NI     | PB/1   | PB/2   | PB     | SB/1    | SB/2   | SB     |
|-------|--------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .04121 | .03145 | .02166 | .02492 | -.00204 | .00317 | .00144 |
| SDev  | .00118 | .00084 | .00085 | .00085 | .00165  | .00102 | .00013 |
| %RSD  | 2.8636 | 2.6760 | 3.9137 | 3.3935 | 80.887  | 32.131 | 9.0907 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .04037 | .03205 | .02226 | .02552 | -.00320 | .00389 | .00153 |
| #2 | .04204 | .03086 | .02106 | .02432 | -.00087 | .00245 | .00134 |

| Elem  | SE/1   | SE/2   | SE     | TL      | V_     | ZN     |
|-------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00238 | .00145 | .00176 | -.00238 | .03898 | .09930 |
| SDev  | .00110 | .00006 | .00041 | .00270  | .00078 | .00031 |
| %RSD  | 46.110 | 4.3235 | 23.154 | 113.83  | 2.0149 | .30963 |

|    |        |        |        |         |        |        |
|----|--------|--------|--------|---------|--------|--------|
| #1 | .00315 | .00149 | .00205 | -.00046 | .03953 | .09952 |
| #2 | .00160 | .00140 | .00147 | -.00429 | .03842 | .09908 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13744    | --      | --      | --      | --      | --      | --      |
| SDev   | 159.9125 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.163476 | --      | --      | --      | --      | --      | --      |
| #1     | 13631    | --      | --      | --      | --      | --      | --      |
| #2     | 13857    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DNKCPS

Operator: RJG

Run Time: 11/08/00 14:02:13

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05172  | 127.96  | 1.9316  | 3.1625  | .05748  | 60.616  | .05241  |
| SDev   | .00006  | .57     | .0067   | .0083   | .00048  | .139    | .00027  |
| %RSD   | .10930  | .44373  | .34894  | .26372  | .82859  | .22932  | .50832  |
| #1     | .05168  | 127.56  | 1.9364  | 3.1684  | .05782  | 60.714  | .05222  |
| #2     | .05176  | 128.36  | 1.9269  | 3.1566  | .05714  | 60.518  | .05260  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .64585  | .37584  | .39384  | 403.54  | 68.967  | H14.362 | .93685  |
| SDev   | .00019  | .00084  | .00085  | .25     | .104    | .007    | .00268  |
| %RSD   | .03023  | .22416  | .21552  | .06304  | .15149  | .05064  | .28585  |
| #1     | .64598  | .37525  | .39324  | 403.36  | 69.041  | H14.367 | .93875  |
| #2     | .64571  | .37644  | .39444  | 403.72  | 68.894  | H14.357 | .93496  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC High | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .74174  | .61649  | .59506  | .60220  | .28815  | .32094  | .31002  |
| SDev   | .00618  | .00521  | .00269  | .00006  | .00249  | .00391  | .00178  |
| %RSD   | .83312  | .84517  | .45176  | .00963  | .86279  | 1.2194  | .57498  |
| #1     | .74611  | .62017  | .59316  | .60216  | .28639  | .32371  | .31128  |
| #2     | .73737  | .61280  | .59696  | .60224  | .28991  | .31817  | .30876  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | 1.7739  | 1.7722  | 1.7727  | 1.9606  | .78570  | 1.2465  |         |
| SDev   | .0130   | .0148   | .0055   | .0019   | .00613  | .0096   |         |
| %RSD   | .73546  | .83270  | .31016  | .09836  | .77969  | .77193  |         |
| #1     | 1.7832  | 1.7617  | 1.7689  | 1.9592  | .79003  | 1.2533  |         |
| #2     | 1.7647  | 1.7826  | 1.7766  | 1.9620  | .78137  | 1.2397  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

**674 625**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13951    | --      | --      | --      | --      | --      | --      |
| SDev   | 139.4064 | --      | --      | --      | --      | --      | --      |
| %RSD   | .9992912 | --      | --      | --      | --      | --      | --      |
| #1     | 13852    | --      | --      | --      | --      | --      | --      |
| #2     | 14049    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DNKCPD

Operator: RJG

Run Time: 11/08/00 14:06:23

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05081  | 133.39  | 1.8763  | 3.0872  | .05527  | 58.458  | .04494  |
| SDev   | .00095  | .54     | .0080   | .0028   | .00012  | .222    | .00037  |
| %RSD   | 1.8740  | .40564  | .42825  | .09059  | .20801  | .38052  | .82127  |
| #1     | .05149  | 133.01  | 1.8820  | 3.0852  | .05536  | 58.615  | .04468  |
| #2     | .05014  | 133.77  | 1.8706  | 3.0892  | .05519  | 58.301  | .04520  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .58274  | .36331  | .38296  | 245.49  | 67.212  | 9.5059  | .91809  |
| SDev   | .00178  | .00117  | .00007  | .46     | .193    | .0220   | .00046  |
| %RSD   | .30621  | .32087  | .01733  | .18855  | .28788  | .23097  | .05047  |
| #1     | .58400  | .36413  | .38291  | 245.81  | 67.349  | 9.5215  | .91842  |
| #2     | .58148  | .36248  | .38301  | 245.16  | 67.075  | 9.4904  | .91776  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .69812  | .58438  | .57352  | .57714  | .27616  | .29915  | .29150  |
| SDev   | .00192  | .01076  | .00286  | .00549  | .00505  | .00502  | .00167  |
| %RSD   | .27558  | 1.8418  | .49793  | .95105  | 1.8305  | 1.6785  | .57147  |
| #1     | .69948  | .59199  | .57554  | .58102  | .27258  | .30270  | .29267  |
| #2     | .69675  | .57677  | .57150  | .57326  | .27973  | .29560  | .29032  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | 1.7878  | 1.8226  | 1.8111  | 1.9284  | .71179  | 1.0900  |         |
| SDev   | .0198   | .0062   | .0107   | .0017   | .00502  | .0066   |         |
| %RSD   | 1.1078  | .33870  | .59151  | .08676  | .70591  | .60109  |         |
| #1     | 1.8018  | 1.8270  | 1.8186  | 1.9273  | .71535  | 1.0946  |         |
| #2     | 1.7738  | 1.8183  | 1.8035  | 1.9296  | .70824  | 1.0854  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

674 627

C80 E80

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14346    | --      | --      | --      | --      | --      | --      |
| SDev   | 207.8190 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.448604 | --      | --      | --      | --      | --      | --      |
| #1     | 14199    | --      | --      | --      | --      | --      | --      |
| #2     | 14493    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DNKCR

Operator: RJG

Run Time: 11/08/00 14:10:32

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | BA     | BE     | CA     | CD     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00199 | 80.434 | .06124 | 1.3825 | .00848 | 14.626 | .00131 |
| SDev  | .00004 | .527   | .00189 | .0137  | .00013 | .161   | .00010 |
| %RSD  | 2.1412 | .65542 | 3.0916 | .99416 | 1.5263 | 1.1030 | 7.4329 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00202 | 80.807 | .06258 | 1.3922 | .00858 | 14.740 | .00125 |
| #2 | .00196 | 80.062 | .05990 | 1.3728 | .00839 | 14.512 | .00138 |

| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
|--------|---------|---------|---------|---------|---------|---------|---------|
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN      | MO     |
|-------|--------|--------|--------|--------|--------|---------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avge  | .11404 | .15790 | .16177 | 297.01 | 20.641 | H10.936 | .00191 |
| SDev  | .00060 | .00139 | .00176 | 2.43   | .170   | .101    | .00051 |
| %RSD  | .52694 | .88173 | 1.0883 | .81833 | .82267 | .92649  | 26.607 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | .11446 | .15889 | .16301 | 298.73 | 20.761 | H11.008 | .00227 |
| #2 | .11361 | .15692 | .16052 | 295.29 | 20.520 | H10.865 | .00155 |

| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC High | LC Pass |
|--------|---------|---------|---------|---------|---------|---------|---------|
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |

| Elem  | NI     | PB/1   | PB/2   | PB     | SB/1   | SB/2   | SB     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .21128 | .12975 | .12239 | .12484 | .00102 | .00969 | .00680 |
| SDev  | .00556 | .00185 | .00013 | .00070 | .00438 | .00087 | .00204 |
| %RSD  | 2.6303 | 1.4223 | .10196 | .55891 | 428.99 | 8.9499 | 29.924 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .21521 | .13105 | .12248 | .12534 | -.00207 | .00908 | .00536 |
| #2 | .20735 | .12845 | .12230 | .12435 | .00411  | .01030 | .00824 |

| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
|--------|---------|---------|---------|---------|---------|---------|---------|
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem  | SE/1   | SE/2   | SE     | TL      | V_     | ZN     |
|-------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00241 | .00280 | .00267 | -.00353 | .21623 | .56098 |
| SDev  | .00118 | .00738 | .00453 | .00116  | .00420 | .00505 |
| %RSD  | 49.195 | 263.12 | 169.43 | 32.783  | 1.9433 | .90078 |

|    |        |         |         |         |        |        |
|----|--------|---------|---------|---------|--------|--------|
| #1 | .00324 | -.00241 | -.00053 | -.00271 | .21920 | .56455 |
| #2 | .00157 | .00802  | .00587  | -.00435 | .21326 | .55741 |

| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
|--------|---------|---------|---------|---------|---------|---------|
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14693    | --      | --      | --      | --      | --      | --      |
| SDev   | 59.60896 | --      | --      | --      | --      | --      | --      |
| %RSD   | .4056991 | --      | --      | --      | --      | --      | --      |
| #1     | 14651    | --      | --      | --      | --      | --      | --      |
| #2     | 14735    | --      | --      | --      | --      | --      | --      |

674 630

11/08/00 02:18:48 PM

Method: METTRA Sample Name: DNMCD

Operator: RJG

Run Time: 11/08/00 14:14:42

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |          |         |         |         |         |
|--------|---------|---------|----------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS       | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     |
| Avg    | .01156  | 83.305  | .08597   | .88187  | .00781  | 15.265  | .00085  |
| SDev   | .00006  | 1.203   | .00118   | .01003  | .00000  | .179    | .00071  |
| %RSD   | .51519  | 1.4441  | 1.3734   | 1.1377  | .00450  | 1.1694  | 83.401  |
| #1     | .01160  | 82.454  | .08680   | .87477  | .00781  | 15.139  | .00035  |
| #2     | .01151  | 84.155  | .08513   | .88896  | .00781  | 15.392  | .00134  |
| Errors | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000   | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000  | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU       | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     |
| Avg    | .11162  | .20446  | 1.6918   | 427.86  | 25.820  | 4.5179  | .00298  |
| SDev   | .00210  | .00278  | .0196    | 5.09    | .291    | .0528   | .00056  |
| %RSD   | 1.8789  | 1.3606  | 1.1584   | 1.1893  | 1.1266  | 1.1692  | 18.888  |
| #1     | .11014  | .20250  | 1.6779   | 424.26  | 25.615  | 4.4806  | .00338  |
| #2     | .11310  | .20643  | 1.7057   | 431.45  | 26.026  | 4.5553  | .00258  |
| Errors | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000   | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500  | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2     | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     |
| Avg    | .23218  | .21234  | .20017   | .20422  | .00120  | .01376  | .00958  |
| SDev   | .00192  | .00168  | .00470   | .00369  | .00103  | .00273  | .00148  |
| %RSD   | .82792  | .78874  | 2.3466   | 1.8072  | 85.195  | 19.849  | 15.456  |
| #1     | .23082  | .21116  | .19684   | .20161  | .00048  | .01569  | .01063  |
| #2     | .23354  | .21352  | .20349   | .20683  | .00193  | .01183  | .00853  |
| Errors | LC Pass | NOCHECK | NOCHECK  | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |          | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |          | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE       | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |         |
| Avg    | -.00309 | -.00437 | -.00394  | .00108  | .27573  | .78537  |         |
| SDev   | .00089  | .00392  | .00291   | .00336  | .00204  | .00745  |         |
| %RSD   | 28.985  | 89.674  | 73.856   | 311.77  | .74086  | .94925  |         |
| #1     | -.00372 | -.00714 | L-.00600 | -.00130 | .27429  | .78010  |         |
| #2     | -.00245 | -.00160 | -.00188  | .00346  | .27718  | .79065  |         |
| Errors | NOCHECK | NOCHECK | LC Pass  | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000   | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500  | -.01000 | -.05000 | -.02000 |         |

**674 631**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14408    | --      | --      | --      | --      | --      | --      |
| SDev   | 89.37857 | --      | --      | --      | --      | --      | --      |
| %RSD   | .6203507 | --      | --      | --      | --      | --      | --      |
| #1     | 14471    | --      | --      | --      | --      | --      | --      |
| #2     | 14345    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DNMCE

Operator: RJG

Run Time: 11/08/00 14:18:51

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |          |         |         |         |
|--------|---------|---------|---------|----------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA       | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .01286  | 49.347  | .08845  | 3.6560   | .00495  | 297.84  | .00832  |
| SDev   | .00048  | .233    | .00020  | .0024    | .00015  | .36     | .00031  |
| %RSD   | 3.7669  | .47296  | .23157  | .06659   | 3.0718  | .12087  | 3.7034  |
| #1     | .01251  | 49.182  | .08831  | 3.6543   | .00506  | 297.58  | .00854  |
| #2     | .01320  | 49.512  | .08860  | 3.6577   | .00485  | 298.09  | .00810  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000   | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000  | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE       | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .06715  | .70002  | .40469  | 264.70   | 36.736  | H94.557 | .03424  |
| SDev   | .00018  | .00106  | .00073  | .83      | .065    | .278    | .00084  |
| %RSD   | .26359  | .15136  | .17939  | .31328   | .17693  | .29351  | 2.4615  |
| #1     | .06703  | .69927  | .40418  | 264.11   | 36.690  | H94.361 | .03484  |
| #2     | .06728  | .70077  | .40521  | 265.28   | 36.781  | H94.753 | .03365  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC High | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00   | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000  | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB       | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .24199  | .70435  | .68131  | .68898   | .00848  | .01766  | .01460  |
| SDev   | .00017  | .00253  | .00206  | .00221   | .00100  | .00064  | .00009  |
| %RSD   | .06853  | .35857  | .30182  | .32113   | 11.833  | 3.6257  | .63649  |
| #1     | .24188  | .70257  | .67985  | .68742   | .00919  | .01720  | .01453  |
| #2     | .24211  | .70614  | .68276  | .69055   | .00777  | .01811  | .01467  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass  | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000   |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300  |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL       | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     |         |
| Avge   | .04811  | -.02790 | -.00259 | L-.01861 | .45529  | 2.3238  |         |
| SDev   | .00119  | .00047  | .00008  | .00110   | .00200  | .0034   |         |
| %RSD   | 2.4718  | 1.6838  | 3.1945  | 5.9080   | .43982  | .14725  |         |
| #1     | .04727  | -.02757 | -.00265 | L-.01939 | .45387  | 2.3262  |         |
| #2     | .04895  | -.02823 | -.00253 | L-.01784 | .45670  | 2.3213  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Low   | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000   | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000  | -.05000 | -.02000 |         |

**674 633**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14071    | --      | --      | --      | --      | --      | --      |
| SDev   | 60.70484 | --      | --      | --      | --      | --      | --      |
| %RSD   | .4314250 | --      | --      | --      | --      | --      | --      |
| #1     | 14028    | --      | --      | --      | --      | --      | --      |
| #2     | 14114    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: CCV3-6

Operator: RJG

Run Time: 11/08/00 14:23:01

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 1.0533  | 24.461  | .51390  | 2.0367  | 2.0635  | 51.160  | .49799  |
| SDev   | .0032   | .122    | .00212  | .0064   | .0003   | .014    | .00063  |
| %RSD   | .30636  | .49912  | .41296  | .31506  | .01399  | .02665  | .12640  |
| #1     | 1.0510  | 24.375  | .51540  | 2.0322  | 2.0633  | 51.150  | .49843  |
| #2     | 1.0556  | 24.548  | .51240  | 2.0413  | 2.0637  | 51.169  | .49754  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 1.1000  | 27.500  | .55000  | 2.2000  | 2.2000  | 55.000  | .55000  |
| Low    | .90000  | 22.500  | .45000  | 1.8000  | 1.8000  | 45.000  | .45000  |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 2.0477  | 2.0422  | 2.0057  | 25.202  | 49.745  | 2.0110  | 2.0546  |
| SDev   | .0042   | .0040   | .0091   | .098    | .104    | .0091   | .0086   |
| %RSD   | .20594  | .19397  | .45121  | .38988  | .20941  | .45145  | .41780  |
| #1     | 2.0447  | 2.0394  | 1.9993  | 25.133  | 49.671  | 2.0046  | 2.0485  |
| #2     | 2.0507  | 2.0450  | 2.0121  | 25.272  | 49.819  | 2.0174  | 2.0607  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.2000  | 2.2000  | 2.2000  | 27.500  | 55.000  | 2.2000  | 2.2000  |
| Low    | 1.8000  | 1.8000  | 1.8000  | 22.500  | 45.000  | 1.8000  | 1.8000  |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 2.0722  | .51698  | .50636  | .50990  | .51521  | .52000  | .51841  |
| SDev   | .0017   | .00463  | .00494  | .00484  | .00217  | .00233  | .00228  |
| %RSD   | .08161  | .89634  | .97526  | .94861  | .42171  | .44898  | .43996  |
| #1     | 2.0734  | .51370  | .50287  | .50648  | .51367  | .51835  | .51679  |
| #2     | 2.0710  | .52026  | .50986  | .51332  | .51675  | .52165  | .52002  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 2.2000  |         |         | .55000  |         |         | .55000  |
| Low    | 1.8000  |         |         | .45000  |         |         | .45000  |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .52095  | .53256  | .52869  | 1.0480  | 2.0494  | 2.1059  |         |
| SDev   | .00281  | .00444  | .00390  | .0011   | .0021   | .0012   |         |
| %RSD   | .53895  | .83452  | .73754  | .10551  | .10103  | .05528  |         |
| #1     | .51897  | .52941  | .52594  | 1.0488  | 2.0479  | 2.1050  |         |
| #2     | .52294  | .53570  | .53145  | 1.0472  | 2.0508  | 2.1067  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .55000  | 1.1000  | 2.2000  | 2.2000  |         |
| Low    |         |         | .45000  | .90000  | 1.8000  | 1.8000  |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13497    | --      | --      | --      | --      | --      | --      |
| SDev   | 14.46047 | --      | --      | --      | --      | --      | --      |
| %RSD   | .1071414 | --      | --      | --      | --      | --      | --      |
| #1     | 13486    | --      | --      | --      | --      | --      | --      |
| #2     | 13507    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: CCB6

Operator: RJG

Run Time: 11/08/00 14:27:11

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00139  | .05953  | -.00015 | .00137  | -.00051 | .04842  | .00032  |
| SDev   | .00003  | .01044  | .00067  | .00003  | .00003  | .00534  | .00009  |
| %RSD   | 2.3694  | 17.543  | 440.08  | 2.4967  | 6.6093  | 11.030  | 29.150  |
| #1     | .00141  | .06692  | .00032  | .00140  | -.00048 | .05220  | .00025  |
| #2     | .00136  | .05215  | -.00062 | .00135  | -.00053 | .04465  | .00038  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |

| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00119  | .00178  | .00139  | .08259  | .03310  | .00928  | .00411  |
| SDev   | .00055  | .00021  | .00008  | .02349  | .00341  | .00050  | .00148  |
| %RSD   | 46.517  | 11.680  | 5.5718  | 28.446  | 10.292  | 5.4164  | 35.977  |
| #1     | .00158  | .00164  | .00144  | .09921  | .03551  | .00964  | .00515  |
| #2     | .00080  | .00193  | .00133  | .06598  | .03069  | .00893  | .00306  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |

| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00142  | .00402  | -.00075 | .00084  | -.00053 | .00025  | -.00001 |
| SDev   | .00000  | .00127  | .00036  | .00066  | .00120  | .00259  | .00133  |
| %RSD   | .02866  | 31.434  | 48.603  | 78.758  | 228.52  | 1036.2  | 15409.  |
| #1     | .00142  | .00313  | -.00100 | .00037  | .00032  | -.00158 | -.00095 |
| #2     | .00142  | .00492  | -.00049 | .00131  | -.00138 | .00208  | .00093  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |
|--------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | -.00015 | .00296  | .00193  | -.00031 | .00219  | .00134  |
| SDev   | .00150  | .00556  | .00321  | .00001  | .00002  | .00010  |
| %RSD   | 992.65  | 187.61  | 166.65  | 4.6077  | .84727  | 7.1605  |
| #1     | -.00121 | .00690  | .00420  | -.00030 | .00221  | .00141  |
| #2     | .00091  | -.00097 | -.00034 | -.00032 | .00218  | .00127  |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

**674 637****888 178**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13474    | --      | --      | --      | --      | --      | --      |
| SDev   | 95.21152 | --      | --      | --      | --      | --      | --      |
| %RSD   | .7066064 | --      | --      | --      | --      | --      | --      |
| #1     | 13407    | --      | --      | --      | --      | --      | --      |
| #2     | 13542    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DNKCP/2 Mn Operator: RJG  
 Run Time: 11/08/00 14:33:33  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00155  | 33.388  | .02941  | .51748  | .00296  | 6.3399  | .00088  |
| SDev   | .00047  | .036    | .00042  | .00070  | .00021  | .0240   | .00007  |
| %RSD   | 30.295  | .10747  | 1.4164  | .13609  | 6.9892  | .37784  | 8.4190  |
| #1     | .00188  | 33.363  | .02970  | .51699  | .00281  | 6.3568  | .00093  |
| #2     | .00122  | 33.413  | .02911  | .51798  | .00310  | 6.3229  | .00083  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05805  | .06985  | .06045  | 120.58  | 8.6994  | 5.2067  | .00320  |
| SDev   | .00097  | .00089  | .00020  | .34     | .0325   | .0155   | .00006  |
| %RSD   | 1.6652  | 1.2783  | .33452  | .27883  | .37311  | .29730  | 2.0113  |
| #1     | .05874  | .07048  | .06031  | 120.82  | 8.7223  | 5.2177  | .00324  |
| #2     | .05737  | .06922  | .06059  | 120.34  | 8.6764  | 5.1958  | .00315  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .09583  | .06181  | .05546  | .05757  | .00059  | .00428  | .00305  |
| SDev   | .00015  | .00238  | .00228  | .00231  | .00477  | .00166  | .00048  |
| %RSD   | .16166  | 3.8493  | 4.1144  | 4.0196  | 806.57  | 38.805  | 15.761  |
| #1     | .09572  | .06349  | .05707  | .05921  | -.00278 | .00545  | .00271  |
| #2     | .09594  | .06013  | .05384  | .05594  | .00396  | .00310  | .00339  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | -.00164 | .00161  | .00053  | -.00404 | .09546  | .24543  |         |
| SDev   | .00057  | .00054  | .00017  | .00029  | .00038  | .00257  |         |
| %RSD   | 35.022  | 33.780  | 32.495  | 7.1948  | .39706  | 1.0455  |         |
| #1     | -.00204 | .00199  | .00065  | -.00425 | .09572  | .24724  |         |
| #2     | -.00123 | .00122  | .00041  | -.00384 | .09519  | .24361  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

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| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13903    | --      | --      | --      | --      | --      | --      |
| SDev   | 201.3487 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.448273 | --      | --      | --      | --      | --      | --      |
| #1     | 13760    | --      | --      | --      | --      | --      | --      |
| #2     | 14045    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DNKCPP10 Mn

Operator: RJG

Run Time: 11/08/00 14:37:43

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | BA     | BE      | CA     | CD     |
|-------|--------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00147 | 6.5903 | .00509 | .10545 | -.00033 | 1.2934 | .00037 |
| SDev  | .00015 | .0265  | .00071 | .00009 | .00015  | .0030  | .00015 |
| %RSD  | 10.259 | .40258 | 13.977 | .08538 | 44.056  | .23127 | 39.978 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .00136 | 6.5715 | .00459 | .10551 | -.00023 | 1.2913 | .00027 |
| #2 | .00158 | 6.6090 | .00559 | .10539 | -.00044 | 1.2955 | .00048 |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN     | MO     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .01226 | .01526 | .01256 | 24.519 | 1.7647 | 1.0557 | .00132 |
| SDev  | .00071 | .00053 | .00017 | .090   | .0072  | .0029  | .00026 |
| %RSD  | 5.7602 | 3.4756 | 1.3275 | .36828 | .40738 | .27265 | 19.336 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .01176 | .01488 | .01244 | 24.456 | 1.7596 | 1.0537 | .00150 |
| #2 | .01276 | .01563 | .01268 | 24.583 | 1.7698 | 1.0577 | .00114 |

| Elem  | NI     | PB/1   | PB/2   | PB     | SB/1    | SB/2   | SB     |
|-------|--------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .02181 | .01520 | .01037 | .01198 | -.00130 | .00265 | .00133 |
| SDev  | .00054 | .00083 | .00002 | .00026 | .00033  | .00204 | .00125 |
| %RSD  | 2.4683 | 5.4785 | .22639 | 2.1842 | 25.477  | 77.154 | 93.979 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .02219 | .01461 | .01039 | .01179 | -.00107 | .00120 | .00045 |
| #2 | .02143 | .01579 | .01035 | .01216 | -.00154 | .00409 | .00222 |

| Elem  | SE/1   | SE/2    | SE      | TL      | V_     | ZN     |
|-------|--------|---------|---------|---------|--------|--------|
| Units | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    |
| Avge  | .00141 | -.00247 | -.00118 | -.00110 | .01970 | .05084 |
| SDev  | .00353 | .00069  | .00164  | .00095  | .00059 | .00024 |
| %RSD  | 250.85 | 27.909  | 138.65  | 86.588  | 3.0045 | .48105 |

|    |         |         |         |         |        |        |
|----|---------|---------|---------|---------|--------|--------|
| #1 | .00391  | -.00199 | -.00002 | -.00177 | .01928 | .05066 |
| #2 | -.00109 | -.00296 | -.00234 | -.00043 | .02012 | .05101 |

**674 641**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13706    | --      | --      | --      | --      | --      | --      |
| SDev   | 53.06823 | --      | --      | --      | --      | --      | --      |
| %RSD   | .3872032 | --      | --      | --      | --      | --      | --      |
| #1     | 13743    | --      | --      | --      | --      | --      | --      |
| #2     | 13668    | --      | --      | --      | --      | --      | --      |

Method: METTRA

Sample Name: DNKCPS/2 Mn

Operator: RJG

Run Time: 11/08/00 14:41:53

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .02655  | 63.486  | .98520  | 1.6050  | .02836  | 30.675  | .02617  |
| SDev   | .00055  | .686    | .00491  | .0118   | .00007  | .232    | .00004  |
| %RSD   | 2.0675  | 1.0803  | .49798  | .73758  | .25102  | .75675  | .15279  |
| #1     | .02616  | 63.001  | .98173  | 1.5967  | .02841  | 30.511  | .02620  |
| #2     | .02694  | 63.971  | .98867  | 1.6134  | .02831  | 30.839  | .02614  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .32962  | .19009  | .19446  | 203.86  | 34.475  | 7.1486  | .47229  |
| SDev   | .00352  | .00165  | .00190  | 2.06    | .270    | .0656   | .00407  |
| %RSD   | 1.0688  | .86797  | .97698  | 1.0101  | .78260  | .91707  | .86254  |
| #1     | .32713  | .18893  | .19312  | 202.40  | 34.285  | 7.1022  | .46941  |
| #2     | .33212  | .19126  | .19580  | 205.31  | 34.666  | 7.1949  | .47517  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .38048  | .31360  | .30398  | .30719  | .14675  | .16374  | .15808  |
| SDev   | .00156  | .00224  | .00232  | .00229  | .00382  | .00289  | .00320  |
| %RSD   | .41071  | .71308  | .76329  | .74622  | 2.6014  | 1.7628  | 2.0220  |
| #1     | .37937  | .31202  | .30234  | .30557  | .14405  | .16170  | .15582  |
| #2     | .38158  | .31518  | .30562  | .30881  | .14945  | .16578  | .16034  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .91413  | .93053  | .92507  | .98655  | .39195  | .63697  |         |
| SDev   | .01008  | .01829  | .01556  | .01182  | .00331  | .00596  |         |
| %RSD   | 1.1021  | 1.9658  | 1.6816  | 1.1976  | .84573  | .93632  |         |
| #1     | .90701  | .91760  | .91407  | .97819  | .38961  | .63275  |         |
| #2     | .92125  | .94347  | .93607  | .99490  | .39429  | .64118  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14015    | --      | --      | --      | --      | --      | --      |
| SDev   | 135.9413 | --      | --      | --      | --      | --      | --      |
| %RSD   | .9699543 | --      | --      | --      | --      | --      | --      |
| #1     | 14111    | --      | --      | --      | --      | --      | --      |
| #2     | 13919    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DNKCR/2 Mn Operator: RJG  
 Run Time: 11/08/00 14:46:02  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00199  | 41.572  | .03166  | .72707  | .00373  | 7.6727  | .00043  |
| SDev   | .00001  | .194    | .00209  | .00226  | .00005  | .0037   | .00044  |
| %RSD   | .62109  | .46668  | 6.5895  | .31092  | 1.3800  | .04865  | 102.54  |
| #1     | .00200  | 41.435  | .03313  | .72548  | .00369  | 7.6754  | .00074  |
| #2     | .00198  | 41.710  | .03018  | .72867  | .00377  | 7.6701  | .00012  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .06007  | .08343  | .08334  | 155.56  | 10.762  | 5.6658  | .00143  |
| SDev   | .00012  | .00021  | .00024  | .32     | .011    | .0061   | .00070  |
| %RSD   | .20060  | .24717  | .28460  | .20688  | .09829  | .10843  | 48.659  |
| #1     | .05998  | .08357  | .08317  | 155.34  | 10.755  | 5.6614  | .00192  |
| #2     | .06015  | .08328  | .08351  | 155.79  | 10.770  | 5.6701  | .00094  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .11136  | .07200  | .06399  | .06666  | -.00389 | .00386  | .00128  |
| SDev   | .00065  | .00029  | .00047  | .00022  | .00184  | .00033  | .00084  |
| %RSD   | .58483  | .40261  | .73982  | .32892  | 47.400  | 8.5642  | 65.156  |
| #1     | .11090  | .07220  | .06366  | .06650  | -.00259 | .00410  | .00187  |
| #2     | .11182  | .07179  | .06433  | .06681  | -.00520 | .00363  | .00069  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | .00251  | .00229  | .00236  | -.00135 | .11386  | .29686  |         |
| SDev   | .00467  | .00225  | .00006  | .00229  | .00033  | .00011  |         |
| %RSD   | 186.15  | 98.342  | 2.3171  | 169.13  | .29194  | .03608  |         |
| #1     | .00581  | .00070  | .00240  | .00027  | .11409  | .29678  |         |
| #2     | -.00079 | .00388  | .00232  | -.00297 | .11362  | .29694  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14126    | --      | --      | --      | --      | --      | --      |
| SDev   | 44.68928 | --      | --      | --      | --      | --      | --      |
| %RSD   | .3163608 | --      | --      | --      | --      | --      | --      |
| #1     | 14094    | --      | --      | --      | --      | --      | --      |
| #2     | 14158    | --      | --      | --      | --      | --      | --      |

Method: METTRA

Sample Name: DNMCE/10 Mn

Operator: RJG

Run Time: 11/08/00 14:50:12

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA       | BE      | CA      | CD      |
|--------|---------|---------|---------|----------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .00239  | 4.8860  | .00815  | .39210   | -.00065 | 32.770  | .00075  |
| SDev   | .00015  | .0048   | .00062  | .00035   | .00008  | .074    | .00021  |
| %RSD   | 6.0836  | .09908  | 7.5529  | .08868   | 11.507  | .22550  | 28.373  |
| #1     | .00229  | 4.8826  | .00772  | .39235   | -.00071 | 32.822  | .00090  |
| #2     | .00250  | 4.8894  | .00859  | .39186   | -.00060 | 32.718  | .00060  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000   | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000  | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE       | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .00764  | .07700  | .04109  | 28.310   | 3.8088  | 8.6771  | .00506  |
| SDev   | .00001  | .00014  | .00006  | .006     | .0013   | .0148   | .00041  |
| %RSD   | .18757  | .17537  | .15788  | .02085   | .03534  | .17032  | 8.1786  |
| #1     | .00763  | .07691  | .04104  | 28.306   | 3.8078  | 8.6875  | .00477  |
| #2     | .00765  | .07710  | .04113  | 28.314   | 3.8097  | 8.6666  | .00535  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00   | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000  | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB       | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .02967  | .07948  | .06985  | .07306   | -.00344 | .00427  | .00170  |
| SDev   | .00105  | .00046  | .00292  | .00179   | .00293  | .00134  | .00009  |
| %RSD   | 3.5308  | .57883  | 4.1724  | 2.4512   | 85.142  | 31.246  | 5.0092  |
| #1     | .03041  | .07915  | .07191  | .07432   | -.00137 | .00333  | .00176  |
| #2     | .02893  | .07980  | .06779  | .07179   | -.00551 | .00522  | .00164  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass  | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000   |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300  |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL       | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     |         |
| Avge   | .00787  | -.00094 | .00200  | L-.01068 | .05047  | .25524  |         |
| SDev   | .00128  | .00049  | .00075  | .00176   | .00112  | .00016  |         |
| %RSD   | 16.253  | 51.967  | 37.563  | 16.518   | 2.2245  | .06318  |         |
| #1     | .00878  | -.00059 | .00253  | -.00943  | .04968  | .25535  |         |
| #2     | .00697  | -.00128 | .00147  | L-.01193 | .05127  | .25512  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Low   | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000   | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000  | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13740    | --      | --      | --      | --      | --      | --      |
| SDev   | 60.03364 | --      | --      | --      | --      | --      | --      |
| %RSD   | .4369102 | --      | --      | --      | --      | --      | --      |
| #1     | 13698    | --      | --      | --      | --      | --      | --      |
| #2     | 13783    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DNMCE/25

Operator: RJG

Run Time: 11/08/00 14:58:54

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00168  | 1.9592  | .00438  | .15851  | -.00042 | 13.305  | .00018  |
| SDev   | .00024  | .0022   | .00324  | .00069  | .00117  | .089    | .00025  |
| %RSD   | 14.128  | .11032  | 73.993  | .43311  | 279.47  | .66858  | 139.64  |
| #1     | .00152  | 1.9577  | .00667  | .15900  | .00041  | 13.368  | .00000  |
| #2     | .00185  | 1.9607  | .00209  | .15803  | -.00124 | 13.242  | .00035  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00348  | .03172  | .01516  | 11.363  | 1.5306  | 3.4764  | .00209  |
| SDev   | .00000  | .00026  | .00098  | .076    | .0020   | .0195   | .00080  |
| %RSD   | .03409  | .82618  | 6.4952  | .66670  | .13076  | .56080  | 38.177  |
| #1     | .00348  | .03153  | .01446  | 11.309  | 1.5292  | 3.4626  | .00266  |
| #2     | .00348  | .03190  | .01586  | 11.416  | 1.5320  | 3.4901  | .00153  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .01218  | .03532  | .02846  | .03074  | -.00246 | .00267  | .00096  |
| SDev   | .00051  | .00012  | .00075  | .00054  | .00277  | .00009  | .00098  |
| %RSD   | 4.1802  | .34804  | 2.6296  | 1.7567  | 112.73  | 3.2041  | 102.14  |
| #1     | .01254  | .03541  | .02899  | .03112  | -.00050 | .00273  | .00165  |
| #2     | .01182  | .03523  | .02793  | .03036  | -.00442 | .00261  | .00027  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00818  | -.00087 | .00215  | -.00687 | .02081  | .10488  |         |
| SDev   | .00071  | .00082  | .00078  | .00131  | .00004  | .00200  |         |
| %RSD   | 8.6910  | 94.655  | 36.516  | 19.084  | .18588  | 1.9076  |         |
| #1     | .00768  | -.00145 | .00159  | -.00595 | .02078  | .10630  |         |
| #2     | .00868  | -.00029 | .00270  | -.00780 | .02083  | .10347  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13632    | --      | --      | --      | --      | --      | --      |
| SDev   | 10.74747 | --      | --      | --      | --      | --      | --      |
| %RSD   | .0788389 | --      | --      | --      | --      | --      | --      |
| #1     | 13640    | --      | --      | --      | --      | --      | --      |
| #2     | 13625    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: CCV3-7

Operator: RJG

Run Time: 11/08/00 15:03:05

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 1.0459  | 24.429  | .51044  | 2.0230  | 2.0472  | 50.659  | .49354  |
| SDev   | .0024   | .122    | .00367  | .0118   | .0068   | .236    | .00220  |
| %RSD   | .22738  | .50084  | .71910  | .58259  | .33072  | .46627  | .44566  |
| #1     | 1.0476  | 24.516  | .51303  | 2.0314  | 2.0520  | 50.827  | .49509  |
| #2     | 1.0442  | 24.343  | .50784  | 2.0147  | 2.0424  | 50.492  | .49198  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 1.1000  | 27.500  | .55000  | 2.2000  | 2.2000  | 55.000  | .55000  |
| Low    | .90000  | 22.500  | .45000  | 1.8000  | 1.8000  | 45.000  | .45000  |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 2.0310  | 2.0273  | 1.9929  | 25.066  | 49.333  | 1.9986  | 2.0381  |
| SDev   | .0044   | .0057   | .0056   | .040    | .155    | .0018   | .0024   |
| %RSD   | .21798  | .28033  | .28257  | .16109  | .31344  | .09098  | .11757  |
| #1     | 2.0341  | 2.0313  | 1.9969  | 25.095  | 49.443  | 1.9999  | 2.0364  |
| #2     | 2.0279  | 2.0233  | 1.9889  | 25.038  | 49.224  | 1.9973  | 2.0398  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.2000  | 2.2000  | 2.2000  | 27.500  | 55.000  | 2.2000  | 2.2000  |
| Low    | 1.8000  | 1.8000  | 1.8000  | 22.500  | 45.000  | 1.8000  | 1.8000  |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 2.0560  | .51071  | .50909  | .50963  | .51461  | .52057  | .51859  |
| SDev   | .0087   | .00141  | .00052  | .00082  | .00113  | .00730  | .00524  |
| %RSD   | .42361  | .27591  | .10312  | .16078  | .21911  | 1.4021  | 1.0112  |
| #1     | 2.0622  | .50972  | .50872  | .50905  | .51381  | .51541  | .51488  |
| #2     | 2.0498  | .51171  | .50946  | .51021  | .51541  | .52573  | .52229  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 2.2000  |         |         | .55000  |         |         | .55000  |
| Low    | 1.8000  |         |         | .45000  |         |         | .45000  |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .51765  | .53091  | .52650  | 1.0551  | 2.0323  | 2.0934  |         |
| SDev   | .00791  | .00303  | .00061  | .0040   | .0069   | .0057   |         |
| %RSD   | 1.5276  | .57126  | .11592  | .37900  | .33778  | .27211  |         |
| #1     | .51206  | .53305  | .52606  | 1.0579  | 2.0372  | 2.0974  |         |
| #2     | .52325  | .52876  | .52693  | 1.0523  | 2.0275  | 2.0894  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .55000  | 1.1000  | 2.2000  | 2.2000  |         |
| Low    |         |         | .45000  | .90000  | 1.8000  | 1.8000  |         |

**674 651**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13457    | --      | --      | --      | --      | --      | --      |
| SDev   | 33.65801 | --      | --      | --      | --      | --      | --      |
| %RSD   | .2501208 | --      | --      | --      | --      | --      | --      |
| #1     | 13480    | --      | --      | --      | --      | --      | --      |
| #2     | 13433    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: CCB7

Operator: RJG

Run Time: 11/08/00 15:07:14

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS      | BA     | BE      | CA     | CD     |
|-------|--------|--------|---------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00123 | .04421 | -.00036 | .00078 | -.00090 | .01990 | .00025 |
| SDev  | .00010 | .00348 | .00021  | .00009 | .00009  | .00313 | .00020 |
| %RSD  | 7.9201 | 7.8826 | 59.048  | 10.913 | 10.233  | 15.709 | 80.824 |

|    |        |        |         |        |         |        |        |
|----|--------|--------|---------|--------|---------|--------|--------|
| #1 | .00130 | .04667 | -.00051 | .00072 | -.00097 | .01769 | .00011 |
| #2 | .00116 | .04174 | -.00021 | .00084 | -.00084 | .02211 | .00039 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN     | MO     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00077 | .00199 | .00139 | .05366 | .01926 | .00392 | .00428 |
| SDev  | .00035 | .00025 | .00018 | .00064 | .00240 | .00039 | .00065 |
| %RSD  | 46.094 | 12.352 | 12.870 | 1.2025 | 12.474 | 10.030 | 15.161 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00102 | .00217 | .00127 | .05320 | .01756 | .00365 | .00474 |
| #2 | .00052 | .00182 | .00152 | .05412 | .02096 | .00420 | .00382 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |

| Elem  | NI     | PB/1   | PB/2    | PB     | SB/1    | SB/2   | SB      |
|-------|--------|--------|---------|--------|---------|--------|---------|
| Units | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    | ppm     |
| Avge  | .00452 | .00412 | -.00059 | .00098 | -.00269 | .00045 | -.00060 |
| SDev  | .00064 | .00073 | .00036  | .00001 | .00206  | .00181 | .00052  |
| %RSD  | 14.127 | 17.675 | 60.158  | .49149 | 76.519  | 402.14 | 87.712  |

|    |        |        |         |        |         |         |         |
|----|--------|--------|---------|--------|---------|---------|---------|
| #1 | .00497 | .00361 | -.00034 | .00097 | -.00124 | -.00083 | -.00097 |
| #2 | .00407 | .00464 | -.00084 | .00098 | -.00415 | .00173  | -.00023 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem  | SE/1   | SE/2   | SE     | TL     | V      | ZN     |
|-------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00385 | .00094 | .00191 | .00186 | .00125 | .00107 |
| SDev  | .00006 | .00004 | .00005 | .00266 | .00027 | .00009 |
| %RSD  | 1.6448 | 4.3544 | 2.5329 | 143.05 | 21.274 | 8.2647 |

|    |        |        |        |         |        |        |
|----|--------|--------|--------|---------|--------|--------|
| #1 | .00381 | .00091 | .00187 | .00374  | .00144 | .00101 |
| #2 | .00390 | .00097 | .00194 | -.00002 | .00106 | .00113 |

|        |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13508    | --      | --      | --      | --      | --      | --      |
| SDev   | 50.34614 | --      | --      | --      | --      | --      | --      |
| %RSD   | .3727245 | --      | --      | --      | --      | --      | --      |
| #1     | 13472    | --      | --      | --      | --      | --      | --      |
| #2     | 13543    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DPD8NBE

Operator: RJG

Run Time: 11/08/00 15:18:16

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00106  | .04789  | .00029  | .00050  | -.00177 | .00543  | .00007  |
| SDev   | .00005  | .00385  | .00049  | .00003  | .00015  | .00015  | .00023  |
| %RSD   | 5.1500  | 8.0381  | 168.83  | 5.1033  | 8.7387  | 2.7988  | 352.27  |
| #1     | .00102  | .05061  | -.00006 | .00049  | -.00166 | .00532  | .00023  |
| #2     | .00110  | .04516  | .00063  | .00052  | -.00188 | .00554  | -.00010 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00044  | .00102  | .00133  | .02955  | .01095  | .00055  | .00095  |
| SDev   | .00008  | .00004  | .00015  | .00625  | .00287  | .00005  | .00073  |
| %RSD   | 17.639  | 4.1710  | 11.330  | 21.141  | 26.252  | 9.3072  | 77.578  |
| #1     | .00038  | .00099  | .00122  | .02513  | .00892  | .00051  | .00043  |
| #2     | .00049  | .00105  | .00144  | .03396  | .01299  | .00058  | .00146  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00157  | .00411  | -.00178 | .00018  | -.00123 | .00067  | .00004  |
| SDev   | .00042  | .00260  | .00050  | .00120  | .00039  | .00043  | .00016  |
| %RSD   | 27.014  | 63.218  | 27.967  | 672.29  | 31.492  | 64.077  | 420.66  |
| #1     | .00186  | .00227  | -.00214 | -.00067 | -.00150 | .00097  | .00015  |
| #2     | .00127  | .00594  | -.00143 | .00102  | -.00095 | .00037  | -.00007 |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | -.00410 | -.00052 | -.00171 | -.00531 | .00106  | .00088  |         |
| SDev   | .00351  | .00499  | .00216  | .00022  | .00000  | .00004  |         |
| %RSD   | 85.542  | 954.02  | 126.04  | 4.2321  | .28451  | 4.7447  |         |
| #1     | -.00162 | -.00405 | -.00324 | -.00547 | .00106  | .00091  |         |
| #2     | -.00658 | .00300  | -.00019 | -.00515 | .00106  | .00085  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

**674 655**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13331    | --      | --      | --      | --      | --      | --      |
| SDev   | 30.97114 | --      | --      | --      | --      | --      | --      |
| %RSD   | .2323320 | --      | --      | --      | --      | --      | --      |
|        |          |         |         |         |         |         |         |
| #1     | 13352    | --      | --      | --      | --      | --      | --      |
| #2     | 13309    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN8R8BE

Operator: RJG

Run Time: 11/08/00 15:22:26

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00158  | .04507  | -.00046 | .00135  | -.00182 | .17513  | .00005  |
| SDev   | .00017  | .00731  | .00161  | .00003  | .00006  | .00573  | .00002  |
| %RSD   | 11.037  | 16.226  | 350.00  | 1.8809  | 3.3024  | 3.2742  | 31.792  |
| #1     | .00146  | .05024  | .00068  | .00133  | -.00186 | .17108  | .00006  |
| #2     | .00170  | .03990  | -.00160 | .00137  | -.00177 | .17919  | .00004  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00048  | .00170  | .00231  | .03541  | .04408  | .00112  | .00150  |
| SDev   | .00013  | .00023  | .00007  | .00860  | .00229  | .00004  | .00010  |
| %RSD   | 26.650  | 13.372  | 2.9092  | 24.271  | 5.1833  | 3.6782  | 6.9050  |
| #1     | .00039  | .00187  | .00226  | .04149  | .04247  | .00109  | .00157  |
| #2     | .00057  | .00154  | .00236  | .02934  | .04570  | .00115  | .00143  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00216  | .00691  | -.00051 | .00196  | -.00310 | .00189  | .00023  |
| SDev   | .00147  | .00004  | .00141  | .00096  | .00401  | .00190  | .00007  |
| %RSD   | 68.022  | .57179  | 278.02  | 48.742  | 129.66  | 100.63  | 31.242  |
| #1     | .00112  | .00694  | .00049  | .00264  | -.00026 | .00054  | .00028  |
| #2     | .00319  | .00688  | -.00151 | .00129  | -.00594 | .00323  | .00018  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | .00090  | .00403  | .00299  | -.00267 | .00162  | .00800  |         |
| SDev   | .00131  | .00040  | .00017  | .00086  | .00026  | .00022  |         |
| %RSD   | 145.43  | 9.9627  | 5.6942  | 32.053  | 15.910  | 2.8102  |         |
| #1     | -.00003 | .00431  | .00287  | -.00207 | .00144  | .00816  |         |
| #2     | .00183  | .00374  | .00311  | -.00328 | .00180  | .00784  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13442    | --      | --      | --      | --      | --      | --      |
| SDev   | 65.47850 | --      | --      | --      | --      | --      | --      |
| %RSD   | .4871242 | --      | --      | --      | --      | --      | --      |
| #1     | 13396    | --      | --      | --      | --      | --      | --      |
| #2     | 13488    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DPD8NCE Operator: RJG  
 Run Time: 11/08/00 15:26:36  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | BA     | BE     | CA      | CD     |
|-------|--------|--------|--------|--------|--------|---------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg   | .05410 | 1.9530 | 2.0609 | 2.0617 | .05099 | L.18119 | .05106 |
| SDev  | .00026 | .0091  | .0101  | .0019  | .00021 | .00017  | .00050 |
| %RSD  | .48832 | .46844 | .49027 | .08990 | .41538 | .09243  | .97374 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | .05391 | 1.9465 | 2.0538 | 2.0630 | .05114 | L.18107 | .05071 |
| #2 | .05429 | 1.9595 | 2.0681 | 2.0604 | .05084 | L.18131 | .05141 |

| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Low | LC Pass |
|--------|---------|---------|---------|---------|---------|--------|---------|
| High   | .06000  | 2.4000  | 2.4000  | 2.4000  | .06000  | 60.000 | .06000  |
| Low    | .04000  | 1.6000  | 1.6000  | 1.6000  | .04000  | 40.000 | .04000  |

| Elem  | CO     | CR     | CU     | FE     | MG      | MN     | MO      |
|-------|--------|--------|--------|--------|---------|--------|---------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     |
| Avg   | .52750 | .21077 | .25355 | 1.0397 | L.04622 | .50667 | L.00104 |
| SDev  | .00035 | .00037 | .00015 | .0112  | .00262  | .00092 | .00055  |
| %RSD  | .06551 | .17701 | .06071 | 1.0735 | 5.6730  | .18162 | 52.824  |

|    |        |        |        |        |         |        |         |
|----|--------|--------|--------|--------|---------|--------|---------|
| #1 | .52725 | .21103 | .25344 | 1.0318 | L.04436 | .50602 | L.00065 |
| #2 | .52774 | .21051 | .25366 | 1.0476 | L.04807 | .50732 | L.00143 |

| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Low | LC Pass | LC Low |
|--------|---------|---------|---------|---------|--------|---------|--------|
| High   | .60000  | .24000  | .30000  | 1.2000  | 60.000 | .60000  | 1.2000 |
| Low    | .40000  | .16000  | .20000  | .80000  | 40.000 | .40000  | .80000 |

| Elem  | NI     | PB/1   | PB/2   | PB     | SB/1   | SB/2   | SB      |
|-------|--------|--------|--------|--------|--------|--------|---------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avg   | .53305 | .51680 | .50899 | .51159 | .00082 | .00103 | L.00096 |
| SDev  | .00372 | .00475 | .00401 | .00426 | .00203 | .00087 | .00126  |
| %RSD  | .69737 | .91868 | .78844 | .83225 | 248.22 | 84.328 | 130.79  |

|    |        |        |        |        |        |        |         |
|----|--------|--------|--------|--------|--------|--------|---------|
| #1 | .53042 | .51344 | .50616 | .50858 | .00062 | .00042 | L.00007 |
| #2 | .53568 | .52016 | .51183 | .51460 | .00226 | .00165 | L.00185 |

| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Low |
|--------|---------|---------|---------|---------|---------|---------|--------|
| High   | .60000  |         |         | .60000  |         |         | .60000 |
| Low    | .40000  |         |         | .40000  |         |         | .40000 |

| Elem  | SE/1   | SE/2   | SE     | TL     | V      | ZN     |
|-------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | 2.0339 | 2.0510 | 2.0453 | 2.0983 | .51626 | .55264 |
| SDev  | .0105  | .0260  | .0209  | .0063  | .00227 | .00143 |
| %RSD  | .51670 | 1.2687 | 1.0197 | .30235 | .43996 | .25899 |

|    |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|
| #1 | 2.0265 | 2.0326 | 2.0306 | 2.0939 | .51465 | .55163 |
| #2 | 2.0413 | 2.0694 | 2.0601 | 2.1028 | .51787 | .55365 |

| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
|--------|---------|---------|---------|---------|---------|---------|
| High   |         |         | 2.4000  | 2.4000  | .60000  | .60000  |
| Low    |         |         | 1.6000  | 1.6000  | .40000  | .40000  |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13512    | --      | --      | --      | --      | --      | --      |
| SDev   | 73.29121 | --      | --      | --      | --      | --      | --      |
| %RSD   | .5424267 | --      | --      | --      | --      | --      | --      |
| #1     | 13564    | --      | --      | --      | --      | --      | --      |
| #2     | 13460    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DN3JWE Operator: RJG  
 Run Time: 11/08/00 15:30:46  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00152  | .08538  | .00018  | .00352  | -.00174 | 3.6452  | .00011  |
| SDev   | .00036  | .01071  | .00024  | .00013  | .00026  | .0420   | .00010  |
| %RSD   | 23.372  | 12.544  | 127.66  | 3.6355  | 14.697  | 1.1519  | 88.418  |
| #1     | .00177  | .09295  | .00002  | .00361  | -.00192 | 3.6749  | .00018  |
| #2     | .00127  | .07781  | .00035  | .00343  | -.00156 | 3.6155  | .00004  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00543  | .00158  | .00234  | .02489  | 1.4595  | .23292  | .00165  |
| SDev   | .00058  | .00077  | .00015  | .01145  | .0234   | .00254  | .00051  |
| %RSD   | 10.764  | 48.874  | 6.3500  | 46.021  | 1.6026  | 1.0894  | 30.567  |
| #1     | .00584  | .00213  | .00223  | .01679  | 1.4761  | .23471  | .00201  |
| #2     | .00501  | .00103  | .00244  | .03299  | 1.4430  | .23112  | .00130  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .01271  | .00829  | -.00091 | .00215  | -.00311 | -.00046 | -.00134 |
| SDev   | .00030  | .00194  | .00035  | .00041  | .00132  | .00014  | .00054  |
| %RSD   | 2.3956  | 23.459  | 38.762  | 19.135  | 42.630  | 31.039  | 39.979  |
| #1     | .01293  | .00967  | -.00116 | .00244  | -.00404 | -.00056 | -.00172 |
| #2     | .01250  | .00692  | -.00066 | .00186  | -.00217 | -.00036 | -.00096 |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | -.00167 | .00335  | .00167  | -.00123 | .00162  | .05612  |         |
| SDev   | .00048  | .00087  | .00074  | .00157  | .00028  | .00099  |         |
| %RSD   | 28.784  | 25.941  | 44.143  | 127.89  | 17.211  | 1.7577  |         |
| #1     | -.00133 | .00396  | .00220  | -.00012 | .00182  | .05681  |         |
| #2     | -.00201 | .00273  | .00115  | -.00234 | .00143  | .05542  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13343    | --      | --      | --      | --      | --      | --      |
| SDev   | 234.4059 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.756731 | --      | --      | --      | --      | --      | --      |
| #1     | 13178    | --      | --      | --      | --      | --      | --      |
| #2     | 13509    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN3JWP5E

Operator: RJG

Run Time: 11/08/00 15:34:55

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | BA     | BE      | CA     | CD      |
|-------|--------|--------|--------|--------|---------|--------|---------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     |
| Avge  | .00113 | .01942 | .00069 | .00095 | -.00149 | .70488 | -.00001 |
| SDev  | .00020 | .00279 | .00027 | .00012 | .00007  | .00107 | .00012  |
| %RSD  | 18.164 | 14.358 | 38.999 | 12.101 | 4.7952  | .15188 | 1675.1  |

|    |        |        |        |        |         |        |         |
|----|--------|--------|--------|--------|---------|--------|---------|
| #1 | .00127 | .01745 | .00050 | .00087 | -.00144 | .70564 | -.00009 |
| #2 | .00098 | .02139 | .00088 | .00103 | -.00154 | .70412 | .00008  |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN     | MO     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00109 | .00077 | .00943 | .01318 | .28784 | .04568 | .00082 |
| SDev  | .00023 | .00004 | .00023 | .01656 | .00315 | .00002 | .00010 |
| %RSD  | 21.148 | 4.7481 | 2.4307 | 125.67 | 1.0945 | .03540 | 11.932 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00093 | .00080 | .00927 | .00147 | .29006 | .04566 | .00075 |
| #2 | .00125 | .00074 | .00959 | .02489 | .28561 | .04569 | .00089 |

| Elem  | NI     | PB/1   | PB/2    | PB     | SB/1    | SB/2   | SB     |
|-------|--------|--------|---------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00324 | .00641 | -.00255 | .00043 | -.00255 | .00134 | .00004 |
| SDev  | .00217 | .00193 | .00140  | .00158 | .00083  | .00251 | .00140 |
| %RSD  | 66.881 | 30.114 | 54.828  | 365.84 | 32.458  | 188.35 | 3486.8 |

|    |        |        |         |         |         |         |         |
|----|--------|--------|---------|---------|---------|---------|---------|
| #1 | .00171 | .00777 | -.00156 | .00155  | -.00314 | .00311  | .00103  |
| #2 | .00477 | .00504 | -.00354 | -.00068 | -.00197 | -.00044 | -.00095 |

| Elem  | SE/1   | SE/2   | SE     | TL      | V_     | ZN     |
|-------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00058 | .00100 | .00086 | -.00250 | .00122 | .01174 |
| SDev  | .00253 | .00023 | .00069 | .00486  | .00025 | .00013 |
| %RSD  | 439.00 | 22.994 | 80.270 | 194.60  | 20.522 | 1.0797 |

|    |         |        |        |         |        |        |
|----|---------|--------|--------|---------|--------|--------|
| #1 | .00237  | .00084 | .00135 | .00094  | .00140 | .01165 |
| #2 | -.00121 | .00116 | .00037 | -.00593 | .00105 | .01183 |

**674 663**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13736    | --      | --      | --      | --      | --      | --      |
| SDev   | 61.37673 | --      | --      | --      | --      | --      | --      |
| %RSD   | .4468393 | --      | --      | --      | --      | --      | --      |
| #1     | 13779    | --      | --      | --      | --      | --      | --      |
| #2     | 13692    | --      | --      | --      | --      | --      | --      |

## Analysis Report

674 664

11/08/00 03:43:11 PM

page 1

Method: METTRA

Sample Name: DN3JWSE

Operator: RJG

Run Time: 11/08/00 15:39:05

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05304  | 1.9538  | 2.0202  | 2.0294  | .05003  | 3.5106  | .05020  |
| SDev   | .00095  | .0147   | .0097   | .0085   | .00021  | .0225   | .00032  |
| %RSD   | 1.7899  | .75230  | .47831  | .41782  | .41160  | .64143  | .63743  |
| #1     | .05371  | 1.9642  | 2.0270  | 2.0354  | .05018  | 3.5265  | .05042  |
| #2     | .05237  | 1.9434  | 2.0134  | 2.0235  | .04989  | 3.4946  | .04997  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .52155  | .20664  | .24954  | 1.0122  | 1.4130  | .72239  | .00112  |
| SDev   | .00282  | .00175  | .00085  | .0017   | .0130   | .00314  | .00046  |
| %RSD   | .54091  | .84896  | .34002  | .17193  | .91882  | .43417  | 41.120  |
| #1     | .52354  | .20788  | .25014  | 1.0110  | 1.4222  | .72461  | .00144  |
| #2     | .51955  | .20540  | .24894  | 1.0135  | 1.4038  | .72017  | .00079  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .52838  | .50530  | .49562  | .49884  | -.00247 | .00169  | .00030  |
| SDev   | .00628  | .00030  | .00154  | .00092  | .00230  | .00081  | .00131  |
| %RSD   | 1.1877  | .05954  | .30993  | .18530  | 93.249  | 47.935  | 429.66  |
| #1     | .53282  | .50509  | .49671  | .49950  | -.00409 | .00112  | -.00062 |
| #2     | .52395  | .50551  | .49453  | .49819  | -.00084 | .00226  | .00123  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | 1.9869  | 2.0145  | 2.0053  | 2.0436  | .50827  | .58960  |         |
| SDev   | .0123   | .0131   | .0046   | .0070   | .00348  | .00267  |         |
| %RSD   | .61809  | .65009  | .23167  | .34241  | .68573  | .45362  |         |
| #1     | 1.9782  | 2.0238  | 2.0086  | 2.0485  | .51074  | .59150  |         |
| #2     | 1.9956  | 2.0052  | 2.0020  | 2.0386  | .50581  | .58771  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

**674 665**

11/08/00 03:43:11 PM

| IntStd | 1'       | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13436    | --      | --      | --      | --      | --      | --      |
| SDev   | 50.20458 | --      | --      | --      | --      | --      | --      |
| %RSD   | .3736516 | --      | --      | --      | --      | --      | --      |
| #1     | 13401    | --      | --      | --      | --      | --      | --      |
| #2     | 13472    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN3JWDE

Operator: RJG

Run Time: 11/08/00 15:43:15

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05541  | 2.0678  | 2.1102  | 2.1355  | .05232  | 3.6966  | .05239  |
| SDev   | .00088  | .0016   | .0039   | .0012   | .00020  | .0036   | .00032  |
| %RSD   | 1.5852  | .07553  | .18552  | .05618  | .38093  | .09857  | .62050  |
| #1     | .05479  | 2.0667  | 2.1129  | 2.1364  | .05246  | 3.6940  | .05216  |
| #2     | .05603  | 2.0689  | 2.1074  | 2.1347  | .05217  | 3.6992  | .05262  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .54651  | .21638  | .26265  | 1.0527  | 1.4958  | .75925  | .00095  |
| SDev   | .00004  | .00086  | .00033  | .0205   | .0081   | .00135  | .00073  |
| %RSD   | .00780  | .39657  | .12668  | 1.9502  | .54342  | .17756  | 76.474  |
| #1     | .54654  | .21577  | .26241  | 1.0382  | 1.4901  | .75830  | .00044  |
| #2     | .54648  | .21699  | .26288  | 1.0672  | 1.5016  | .76020  | .00147  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .55621  | .53011  | .51923  | .52286  | -.00358 | .00088  | -.00061 |
| SDev   | .00231  | .00015  | .00716  | .00483  | .00136  | .00119  | .00034  |
| %RSD   | .41605  | .02846  | 1.3794  | .92329  | 37.873  | 135.24  | 55.821  |
| #1     | .55458  | .53000  | .51417  | .51944  | -.00262 | .00004  | -.00085 |
| #2     | .55785  | .53022  | .52430  | .52627  | -.00454 | .00171  | -.00037 |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | 2.0801  | 2.1056  | 2.0971  | 2.1465  | .53100  | .61135  |         |
| SDev   | .0063   | .0226   | .0130   | .0079   | .00009  | .00016  |         |
| %RSD   | .30157  | 1.0750  | .62033  | .36869  | .01669  | .02620  |         |
| #1     | 2.0846  | 2.0896  | 2.0879  | 2.1409  | .53107  | .61124  |         |
| #2     | 2.0757  | 2.1216  | 2.1063  | 2.1521  | .53094  | .61146  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13278    | --      | --      | --      | --      | --      | --      |
| SDev   | 15.83947 | --      | --      | --      | --      | --      | --      |
| %RSD   | .1192875 | --      | --      | --      | --      | --      | --      |
| #1     | 13267    | --      | --      | --      | --      | --      | --      |
| #2     | 13290    | --      | --      | --      | --      | --      | --      |



Method: METTRA

Sample Name: DN3JXE

Operator: RJG

Run Time: 11/08/00 15:47:25

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00107  | 1.0685  | .00160  | .01772  | -.00178 | 4.4760  | .00019  |
| SDev   | .00061  | .0330   | .00087  | .00033  | .00016  | .0689   | .00014  |
| %RSD   | 56.720  | 3.0930  | 54.410  | 1.8438  | 9.2406  | 1.5396  | 71.879  |
| #1     | .00064  | 1.0918  | .00099  | .01795  | -.00190 | 4.5247  | .00009  |
| #2     | .00150  | 1.0451  | .00222  | .01749  | -.00167 | 4.4273  | .00029  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00076  | .00325  | .00558  | 1.4688  | 1.6716  | .01933  | .00067  |
| SDev   | .00034  | .00056  | .00022  | .0267   | .0252   | .00032  | .00003  |
| %RSD   | 44.823  | 17.088  | 3.8746  | 1.8198  | 1.5090  | 1.6721  | 4.3295  |
| #1     | .00100  | .00285  | .00542  | 1.4877  | 1.6895  | .01956  | .00069  |
| #2     | .00052  | .00364  | .00573  | 1.4499  | 1.6538  | .01910  | .00065  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00467  | .00897  | -.00009 | .00293  | -.00242 | .00190  | .00046  |
| SDev   | .00163  | .00192  | .00125  | .00019  | .00091  | .00145  | .00067  |
| %RSD   | 34.905  | 21.449  | 1450.1  | 6.6288  | 37.783  | 76.527  | 143.94  |
| #1     | .00352  | .00761  | .00080  | .00307  | -.00177 | .00087  | -.00001 |
| #2     | .00583  | .01033  | -.00097 | .00279  | -.00306 | .00293  | .00093  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | -.00000 | .00223  | .00148  | -.00020 | .00211  | .01217  |         |
| SDev   | .00296  | .00080  | .00152  | .00462  | .00024  | .00051  |         |
| %RSD   | 60337.  | 35.828  | 102.32  | 2282.8  | 11.477  | 4.1657  |         |
| #1     | .00209  | .00279  | .00256  | .00307  | .00194  | .01253  |         |
| #2     | -.00210 | .00166  | .00041  | -.00347 | .00228  | .01181  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13432    | --      | --      | --      | --      | --      | --      |
| SDev   | 204.0707 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.519265 | --      | --      | --      | --      | --      | --      |
| #1     | 13288    | --      | --      | --      | --      | --      | --      |
| #2     | 13576    | --      | --      | --      | --      | --      | --      |

Method: METTRA

Sample Name: DN3J1E

Operator: RJG

Run Time: 11/08/00 15:51:35

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00098  | .59694  | -.00103 | .05553  | -.00103 | 12.148  | .00035  |
| SDev   | .00028  | .00095  | .00019  | .00012  | .00011  | .025    | .00007  |
| %RSD   | 28.747  | .15964  | 18.386  | .21466  | 10.969  | .20532  | 20.313  |
| #1     | .00078  | .59761  | -.00116 | .05561  | -.00095 | 12.131  | .00030  |
| #2     | .00118  | .59626  | -.00090 | .05544  | -.00111 | 12.166  | .00040  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .02143  | .00219  | .00394  | .02796  | 1.7529  | .49008  | .00149  |
| SDev   | .00053  | .00037  | .00042  | .00855  | .0014   | .00059  | .00010  |
| %RSD   | 2.4948  | 16.871  | 10.555  | 30.589  | .07927  | .11948  | 6.9996  |
| #1     | .02181  | .00193  | .00365  | .02192  | 1.7519  | .48967  | .00141  |
| #2     | .02105  | .00245  | .00424  | .03401  | 1.7538  | .49050  | .00156  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .04854  | .00880  | -.00207 | .00155  | -.00396 | .00317  | .00080  |
| SDev   | .00045  | .00141  | .00018  | .00035  | .00095  | .00084  | .00024  |
| %RSD   | .93597  | 16.064  | 8.8891  | 22.429  | 23.991  | 26.502  | 30.645  |
| #1     | .04822  | .00980  | -.00220 | .00180  | -.00329 | .00258  | .00063  |
| #2     | .04886  | .00780  | -.00194 | .00131  | -.00463 | .00377  | .00097  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00136  | .00356  | .00283  | -.00102 | .00143  | .06423  |         |
| SDev   | .00073  | .00014  | .00034  | .00145  | .00053  | .00024  |         |
| %RSD   | 53.571  | 3.9440  | 11.862  | 142.28  | 37.432  | .37958  |         |
| #1     | .00084  | .00346  | .00259  | .00001  | .00105  | .06406  |         |
| #2     | .00187  | .00366  | .00307  | -.00204 | .00180  | .06440  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13514    | --      | --      | --      | --      | --      | --      |
| SDev   | 70.53391 | --      | --      | --      | --      | --      | --      |
| %RSD   | .5219427 | --      | --      | --      | --      | --      | --      |
| #1     | 13564    | --      | --      | --      | --      | --      | --      |
| #2     | 13464    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN3J2E Operator: RJG  
 Run Time: 11/08/00 15:55:44  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00136  | .16204  | .00026  | .04914  | -.00147 | 4.4623  | .00025  |
| SDev   | .00037  | .00749  | .00021  | .00012  | .00015  | .0070   | .00009  |
| %RSD   | 27.330  | 4.6220  | 83.923  | .24575  | 10.194  | .15787  | 35.879  |
| #1     | .00110  | .16733  | .00010  | .04923  | -.00158 | 4.4673  | .00031  |
| #2     | .00162  | .15674  | .00041  | .04906  | -.00137 | 4.4573  | .00018  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .01106  | .00234  | .00302  | .04410  | 1.8231  | .27817  | .00137  |
| SDev   | .00015  | .00030  | .00024  | .01274  | .0053   | .00039  | .00012  |
| %RSD   | 1.3715  | 12.872  | 8.0947  | 28.889  | .29040  | .14173  | 8.4259  |
| #1     | .01095  | .00255  | .00319  | .03509  | 1.8269  | .27845  | .00145  |
| #2     | .01117  | .00213  | .00284  | .05310  | 1.8194  | .27789  | .00129  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .01528  | .00523  | .00023  | .00189  | -.00275 | .00085  | -.00035 |
| SDev   | .00039  | .00076  | .00105  | .00045  | .00023  | .00026  | .00010  |
| %RSD   | 2.5544  | 14.469  | 455.16  | 23.552  | 8.4074  | 30.525  | 27.497  |
| #1     | .01500  | .00469  | .00097  | .00221  | -.00291 | .00103  | -.00028 |
| #2     | .01555  | .00576  | -.00051 | .00158  | -.00258 | .00067  | -.00042 |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | .00208  | .00230  | .00223  | -.00747 | .00143  | .04194  |         |
| SDev   | .00502  | .00418  | .00112  | .00055  | .00000  | .00018  |         |
| %RSD   | 241.54  | 181.65  | 50.175  | 7.3947  | .20065  | .44200  |         |
| #1     | -.00147 | .00526  | .00302  | -.00786 | .00144  | .04207  |         |
| #2     | .00563  | -.00066 | .00144  | -.00708 | .00143  | .04181  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13467    | --      | --      | --      | --      | --      | --      |
| SDev   | 130.0365 | --      | --      | --      | --      | --      | --      |
| %RSD   | .9656225 | --      | --      | --      | --      | --      | --      |
| #1     | 13375    | --      | --      | --      | --      | --      | --      |
| #2     | 13559    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: CCV3-8 Operator: RJG  
 Run Time: 11/08/00 15:59:54  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 1.0455  | 24.733  | .50632  | 2.0339  | 2.0439  | 50.657  | .49184  |
| SDev   | .0053   | .042    | .00447  | .0040   | .0114   | .310    | .00212  |
| %RSD   | .50850  | .16911  | .88351  | .19490  | .55674  | .61248  | .43069  |
| #1     | 1.0493  | 24.762  | .50948  | 2.0367  | 2.0519  | 50.876  | .49334  |
| #2     | 1.0418  | 24.703  | .50316  | 2.0311  | 2.0359  | 50.437  | .49034  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 1.1000  | 27.500  | .55000  | 2.2000  | 2.2000  | 55.000  | .55000  |
| Low    | .90000  | 22.500  | .45000  | 1.8000  | 1.8000  | 45.000  | .45000  |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 2.0244  | 2.0250  | 2.0008  | 24.882  | 49.297  | 1.9933  | 2.0262  |
| SDev   | .0102   | .0107   | .0055   | .093    | .224    | .0106   | .0075   |
| %RSD   | .50558  | .52818  | .27377  | .37433  | .45510  | .53349  | .37124  |
| #1     | 2.0317  | 2.0325  | 2.0047  | 24.948  | 49.455  | 2.0008  | 2.0315  |
| #2     | 2.0172  | 2.0174  | 1.9969  | 24.816  | 49.138  | 1.9858  | 2.0208  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.2000  | 2.2000  | 2.2000  | 27.500  | 55.000  | 2.2000  | 2.2000  |
| Low    | 1.8000  | 1.8000  | 1.8000  | 22.500  | 45.000  | 1.8000  | 1.8000  |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 2.0580  | .51117  | .50304  | .50575  | .50914  | .51811  | .51512  |
| SDev   | .0132   | .00826  | .00624  | .00691  | .00634  | .00206  | .00348  |
| %RSD   | .64136  | 1.6162  | 1.2395  | 1.3663  | 1.2443  | .39697  | .67586  |
| #1     | 2.0674  | .51701  | .50745  | .51064  | .51362  | .51956  | .51758  |
| #2     | 2.0487  | .50533  | .49864  | .50086  | .50466  | .51665  | .51266  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 2.2000  |         |         | .55000  |         |         | .55000  |
| Low    | 1.8000  |         |         | .45000  |         |         | .45000  |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .51626  | .52229  | .52029  | 1.0313  | 2.0365  | 2.0819  |         |
| SDev   | .00390  | .00529  | .00482  | .0041   | .0117   | .0124   |         |
| %RSD   | .75492  | 1.0123  | .92726  | .39706  | .57280  | .59740  |         |
| #1     | .51902  | .52603  | .52370  | 1.0342  | 2.0448  | 2.0907  |         |
| #2     | .51351  | .51855  | .51687  | 1.0284  | 2.0283  | 2.0731  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .55000  | 1.1000  | 2.2000  | 2.2000  |         |
| Low    |         |         | .45000  | .90000  | 1.8000  | 1.8000  |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13537    | --      | --      | --      | --      | --      | --      |
| SDev   | 239.3204 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.767850 | --      | --      | --      | --      | --      | --      |
| #1     | 13368    | --      | --      | --      | --      | --      | --      |
| #2     | 13707    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: CCB8

Operator: RJG

Run Time: 11/08/00 16:04:04

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00199  | .00849  | .00033  | .00091  | -.00114 | .02366  | .00021  |
| SDev   | .00021  | .01030  | .00186  | .00018  | .00008  | .00272  | .00002  |
| %RSD   | 10.596  | 121.37  | 561.87  | 20.073  | 7.1923  | 11.478  | 7.0595  |
| #1     | .00184  | .01577  | .00164  | .00078  | -.00120 | .02174  | .00022  |
| #2     | .00214  | .00120  | -.00098 | .00104  | -.00109 | .02558  | .00020  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00142  | .00219  | .00247  | .02420  | .02567  | .00089  | .00422  |
| SDev   | .00008  | .00025  | .00038  | .00237  | .00269  | .00018  | .00244  |
| %RSD   | 5.8428  | 11.509  | 15.209  | 9.8041  | 10.473  | 20.197  | 57.747  |
| #1     | .00136  | .00237  | .00220  | .02588  | .02377  | .00077  | .00595  |
| #2     | .00148  | .00202  | .00273  | .02252  | .02757  | .00102  | .00250  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00360  | .00299  | -.00080 | .00046  | -.00144 | .00102  | .00020  |
| SDev   | .00040  | .00217  | .00071  | .00025  | .00019  | .00245  | .00170  |
| %RSD   | 10.969  | 72.651  | 89.274  | 53.632  | 13.192  | 240.02  | 833.32  |
| #1     | .00332  | .00452  | -.00130 | .00064  | -.00130 | .00276  | .00141  |
| #2     | .00388  | .00145  | -.00029 | .00029  | -.00157 | -.00071 | -.00100 |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00277  | .00150  | .00192  | -.00113 | .00178  | .00119  |         |
| SDev   | .00014  | .00040  | .00022  | .00143  | .00001  | .00025  |         |
| %RSD   | 5.1883  | 26.595  | 11.371  | 126.10  | .53717  | 21.280  |         |
| #1     | .00287  | .00122  | .00177  | -.00012 | .00179  | .00101  |         |
| #2     | .00266  | .00178  | .00208  | -.00214 | .00178  | .00137  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13680    | --      | --      | --      | --      | --      | --      |
| SDev   | 108.5768 | --      | --      | --      | --      | --      | --      |
| %RSD   | .7936857 | --      | --      | --      | --      | --      | --      |
|        |          |         |         |         |         |         |         |
| #1     | 13603    | --      | --      | --      | --      | --      | --      |
| #2     | 13757    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN3J3E

Operator: RJG

Run Time: 11/08/00 16:08:14

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00155  | 1.1289  | -.00031 | .06197  | -.00011 | 10.745  | .00062  |
| SDev   | .00024  | .0153   | .00023  | .00053  | .00007  | .076    | .00002  |
| %RSD   | 15.560  | 1.3558  | 73.891  | .84874  | 64.006  | .70649  | 3.6092  |
| #1     | .00138  | 1.1397  | -.00015 | .06235  | -.00016 | 10.799  | .00061  |
| #2     | .00172  | 1.1180  | -.00047 | .06160  | -.00006 | 10.692  | .00064  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .02032  | .00262  | .00404  | .07488  | 2.1985  | .49492  | .00254  |
| SDev   | .00011  | .00033  | .00005  | .00189  | .0135   | .00236  | .00011  |
| %RSD   | .51583  | 12.564  | 1.1353  | 2.5240  | .61188  | .47775  | 4.3502  |
| #1     | .02025  | .00239  | .00408  | .07622  | 2.2080  | .49660  | .00261  |
| #2     | .02040  | .00285  | .00401  | .07355  | 2.1890  | .49325  | .00246  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .04791  | .00598  | -.00135 | .00109  | -.00309 | .00238  | .00056  |
| SDev   | .00087  | .00030  | .00074  | .00039  | .00003  | .00251  | .00168  |
| %RSD   | 1.8249  | 4.9629  | 54.379  | 36.103  | .84195  | 105.42  | 302.28  |
| #1     | .04853  | .00577  | -.00083 | .00136  | -.00308 | .00415  | .00175  |
| #2     | .04729  | .00618  | -.00187 | .00081  | -.00311 | .00061  | -.00063 |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | -.00238 | .00090  | -.00019 | -.00332 | .00164  | .07791  |         |
| SDev   | .00059  | .00101  | .00048  | .00047  | .00027  | .00076  |         |
| %RSD   | 24.990  | 112.57  | 245.52  | 14.039  | 16.588  | .97892  |         |
| #1     | -.00196 | .00018  | -.00053 | -.00365 | .00183  | .07845  |         |
| #2     | -.00280 | .00161  | .00014  | -.00299 | .00144  | .07737  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13395    | --      | --      | --      | --      | --      | --      |
| SDev   | 69.86270 | --      | --      | --      | --      | --      | --      |
| %RSD   | .5215502 | --      | --      | --      | --      | --      | --      |
| #1     | 13346    | --      | --      | --      | --      | --      | --      |
| #2     | 13445    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN3J4E

Operator: RJG

Run Time: 11/08/00 16:12:24

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00165  | .37793  | .00165  | .04357  | -.00123 | 12.735  | .00082  |
| SDev   | .00010  | .01801  | .00002  | .00047  | .00021  | .185    | .00012  |
| %RSD   | 6.1445  | 4.7661  | 1.3400  | 1.0876  | 16.689  | 1.4556  | 14.170  |
| #1     | .00172  | .39066  | .00167  | .04390  | -.00138 | 12.866  | .00090  |
| #2     | .00158  | .36519  | .00164  | .04323  | -.00108 | 12.604  | .00074  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .07173  | .00242  | .00338  | 6.4868  | 1.2764  | 1.6822  | .00148  |
| SDev   | .00082  | .00061  | .00019  | .0892   | .0198   | .0202   | .00048  |
| %RSD   | 1.1399  | 25.010  | 5.7062  | 1.3753  | 1.5517  | 1.2030  | 32.737  |
| #1     | .07231  | .00285  | .00324  | 6.5499  | 1.2904  | 1.6966  | .00182  |
| #2     | .07115  | .00199  | .00351  | 6.4238  | 1.2624  | 1.6679  | .00113  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .08702  | .00811  | -.00187 | .00145  | -.00166 | .00211  | .00086  |
| SDev   | .00240  | .00047  | .00008  | .00010  | .00152  | .00082  | .00105  |
| %RSD   | 2.7534  | 5.7516  | 4.3787  | 6.9328  | 91.570  | 39.019  | 123.10  |
| #1     | .08871  | .00844  | -.00193 | .00152  | -.00273 | .00153  | .00011  |
| #2     | .08533  | .00778  | -.00181 | .00138  | -.00058 | .00269  | .00160  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00109  | .00219  | .00182  | -.00297 | .00214  | .13651  |         |
| SDev   | .00113  | .00290  | .00156  | .00166  | .00002  | .00236  |         |
| %RSD   | 103.79  | 132.49  | 85.427  | 55.955  | .95653  | 1.7273  |         |
| #1     | .00029  | .00424  | .00292  | -.00179 | .00216  | .13818  |         |
| #2     | .00189  | .00014  | .00072  | -.00414 | .00213  | .13485  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13578    | --      | --      | --      | --      | --      | --      |
| SDev   | 182.2568 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.342297 | --      | --      | --      | --      | --      | --      |
| #1     | 13449    | --      | --      | --      | --      | --      | --      |
| #2     | 13707    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN3J5E

Operator: RJG

Run Time: 11/08/00 16:16:34

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00084  | 3.4635  | .00045  | .03717  | .00006  | 12.415  | .00050  |
| SDev   | .00046  | .0331   | .00035  | .00048  | .00003  | .144    | .00008  |
| %RSD   | 54.374  | .95616  | 77.858  | 1.2991  | 53.519  | 1.1611  | 15.203  |
| #1     | .00052  | 3.4869  | .00020  | .03751  | .00004  | 12.517  | .00055  |
| #2     | .00116  | 3.4401  | .00070  | .03683  | .00009  | 12.313  | .00044  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .02112  | .00193  | .01226  | .10496  | 3.5480  | .45940  | .00103  |
| SDev   | .00028  | .00020  | .00001  | .01503  | .0341   | .00386  | .00036  |
| %RSD   | 1.3467  | 10.520  | .06650  | 14.319  | .96100  | .84025  | 35.180  |
| #1     | .02132  | .00207  | .01226  | .09433  | 3.5721  | .46213  | .00129  |
| #2     | .02092  | .00178  | .01225  | .11559  | 3.5239  | .45667  | .00078  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .04172  | .00748  | -.00128 | .00164  | -.00275 | .00122  | -.00011 |
| SDev   | .00010  | .00057  | .00013  | .00027  | .00113  | .00239  | .00122  |
| %RSD   | .23724  | 7.5845  | 9.9096  | 16.743  | 41.183  | 196.97  | 1141.0  |
| #1     | .04179  | .00708  | -.00137 | .00144  | -.00195 | -.00048 | -.00097 |
| #2     | .04165  | .00788  | -.00119 | .00183  | -.00356 | .00291  | .00075  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | -.00089 | .00009  | -.00024 | -.00396 | .00071  | .11706  |         |
| SDev   | .00165  | .00081  | .00001  | .00687  | .00001  | .00118  |         |
| %RSD   | 183.98  | 935.37  | 4.0790  | 173.54  | .72674  | 1.0055  |         |
| #1     | -.00206 | .00066  | -.00025 | -.00882 | .00070  | .11789  |         |
| #2     | .00027  | -.00048 | -.00023 | .00090  | .00071  | .11623  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13571    | --      | --      | --      | --      | --      | --      |
| SDev   | 33.26924 | --      | --      | --      | --      | --      | --      |
| %RSD   | .2451490 | --      | --      | --      | --      | --      | --      |
| #1     | 13548    | --      | --      | --      | --      | --      | --      |
| #2     | 13595    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DN3J6E

Operator: RJG

Run Time: 11/08/00 16:20:44

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | BA     | BE      | CA     | CD     |
|-------|--------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00197 | .62804 | .00050 | .03092 | -.00033 | 56.205 | .00169 |
| SDev  | .00028 | .01370 | .00040 | .00035 | .00015  | .509   | .00008 |
| %RSD  | 14.282 | 2.1810 | 80.714 | 1.1410 | 46.123  | .90562 | 4.8708 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .00177 | .63772 | .00021 | .03117 | -.00022 | 56.565 | .00174 |
| #2 | .00217 | .61835 | .00078 | .03068 | -.00044 | 55.845 | .00163 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN     | MO     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .05440 | .00217 | .00311 | .00850 | 8.7633 | 1.8923 | .00132 |
| SDev  | .00053 | .00008 | .00051 | .00537 | .0452  | .0082  | .00056 |
| %RSD  | .97511 | 3.5492 | 16.531 | 63.143 | .51574 | .43082 | 42.747 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .05403 | .00222 | .00274 | .00470 | 8.7952 | 1.8981 | .00172 |
| #2 | .05478 | .00211 | .00347 | .01230 | 8.7313 | 1.8865 | .00092 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |

| Elem  | NI     | PB/1   | PB/2    | PB     | SB/1    | SB/2   | SB     |
|-------|--------|--------|---------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avge  | .09961 | .00672 | -.00131 | .00136 | -.00279 | .00193 | .00036 |
| SDev  | .00302 | .00198 | .00148  | .00033 | .00027  | .00152 | .00110 |
| %RSD  | 3.0342 | 29.487 | 113.23  | 24.131 | 9.6516  | 78.557 | 305.55 |

|    |        |        |         |        |         |        |         |
|----|--------|--------|---------|--------|---------|--------|---------|
| #1 | .10174 | .00812 | -.00236 | .00113 | -.00260 | .00301 | .00114  |
| #2 | .09747 | .00532 | -.00026 | .00160 | -.00298 | .00086 | -.00042 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem  | SE/1    | SE/2   | SE     | TL      | V      | ZN     |
|-------|---------|--------|--------|---------|--------|--------|
| Units | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | -.00162 | .00328 | .00165 | -.00827 | .00236 | .20799 |
| SDev  | .00292  | .00252 | .00265 | .00407  | .00025 | .00243 |
| %RSD  | 180.63  | 76.952 | 161.11 | 49.269  | 10.736 | 1.1658 |

|    |         |        |         |          |        |        |
|----|---------|--------|---------|----------|--------|--------|
| #1 | -.00368 | .00149 | -.00023 | L-.01115 | .00219 | .20970 |
| #2 | .00045  | .00506 | .00352  | -.00539  | .00254 | .20627 |

|        |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13390    | --      | --      | --      | --      | --      | --      |
| SDev   | 110.4495 | --      | --      | --      | --      | --      | --      |
| %RSD   | .8248689 | --      | --      | --      | --      | --      | --      |
| #1     | 13312    | --      | --      | --      | --      | --      | --      |
| #2     | 13468    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN3J7E

Operator: RJG

Run Time: 11/08/00 16:24:54

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |          |         |         |         |
|--------|---------|---------|---------|----------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA       | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .00131  | 1.1273  | .00007  | .02645   | -.00061 | 71.425  | .00059  |
| SDev   | .00038  | .0016   | .00023  | .00032   | .00043  | .082    | .00005  |
| %RSD   | 29.463  | .14382  | 309.08  | 1.2097   | 69.910  | .11463  | 8.0618  |
| #1     | .00104  | 1.1262  | .00024  | .02623   | -.00031 | 71.483  | .00055  |
| #2     | .00158  | 1.1285  | -.00009 | .02668   | -.00092 | 71.367  | .00062  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000   | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000  | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE       | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .04049  | .00197  | .00470  | .12221   | 8.4027  | 2.4947  | .00023  |
| SDev   | .00028  | .00082  | .00009  | .01457   | .0335   | .0060   | .00045  |
| %RSD   | .69081  | 41.872  | 1.9538  | 11.922   | .39881  | .24188  | 195.66  |
| #1     | .04029  | .00139  | .00464  | .11190   | 8.3790  | 2.4904  | -.00009 |
| #2     | .04068  | .00255  | .00477  | .13251   | 8.4264  | 2.4990  | .00055  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00   | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000  | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB       | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .06045  | .00510  | -.00113 | .00094   | -.00206 | .00161  | .00039  |
| SDev   | .00165  | .00221  | .00231  | .00081   | .00039  | .00146  | .00084  |
| %RSD   | 2.7228  | 43.330  | 203.96  | 85.396   | 19.106  | 90.521  | 217.93  |
| #1     | .06161  | .00354  | .00050  | .00151   | -.00179 | .00058  | -.00021 |
| #2     | .05928  | .00666  | -.00276 | .00037   | -.00234 | .00264  | .00098  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass  | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000   |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300  |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL       | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     |         |
| Avge   | .00074  | .00215  | .00168  | -.00882  | .00203  | .16106  |         |
| SDev   | .00300  | .00251  | .00068  | .00382   | .00080  | .00006  |         |
| %RSD   | 406.79  | 117.13  | 40.394  | 43.355   | 39.538  | .03582  |         |
| #1     | -.00138 | .00393  | .00216  | -.00611  | .00146  | .16102  |         |
| #2     | .00286  | .00037  | .00120  | L-.01152 | .00260  | .16110  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass  | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000   | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000  | -.05000 | -.02000 |         |

**674 687**

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13377    | --      | --      | --      | --      | --      | --      |
| SDev   | 14.46047 | --      | --      | --      | --      | --      | --      |
| %RSD   | .1080997 | --      | --      | --      | --      | --      | --      |
| #1     | 13367    | --      | --      | --      | --      | --      | --      |
| #2     | 13387    | --      | --      | --      | --      | --      | --      |

## Analysis Report

674 688

11/08/00 04:33:10 PM

page 1

Method: METTRA Sample Name: DN3J9E

Operator: RJG

Run Time: 11/08/00 16:29:05

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |          |         |         |         |
|--------|---------|---------|---------|----------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA       | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avg    | .00152  | .35336  | .00020  | .00797   | -.00179 | 11.467  | .00049  |
| SDev   | .00009  | .00699  | .00115  | .00004   | .00006  | .014    | .00004  |
| %RSD   | 5.7241  | 1.9784  | 579.39  | .50390   | 3.5332  | .12264  | 7.7158  |
| #1     | .00158  | .34842  | .00101  | .00795   | -.00175 | 11.458  | .00052  |
| #2     | .00146  | .35830  | -.00062 | .00800   | -.00184 | 11.477  | .00047  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000   | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000  | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE       | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avg    | .00567  | .00146  | .00387  | .02352   | 3.7943  | .86917  | .00162  |
| SDev   | .00006  | .00044  | .00047  | .01386   | .0107   | .00263  | .00008  |
| %RSD   | .96363  | 30.465  | 12.245  | 58.935   | .28074  | .30269  | 4.8494  |
| #1     | .00563  | .00115  | .00353  | .01372   | 3.7868  | .86731  | .00168  |
| #2     | .00571  | .00178  | .00420  | .03332   | 3.8019  | .87103  | .00156  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00   | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000  | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB       | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avg    | .01326  | .00717  | -.00160 | .00132   | -.00234 | .00239  | .00082  |
| SDev   | .00047  | .00088  | .00234  | .00127   | .00004  | .00160  | .00108  |
| %RSD   | 3.5139  | 12.255  | 146.28  | 95.852   | 1.7950  | 66.860  | 132.26  |
| #1     | .01293  | .00779  | -.00325 | .00043   | -.00237 | .00126  | .00005  |
| #2     | .01359  | .00655  | .00005  | .00222   | -.00231 | .00353  | .00158  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass  | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000   |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300  |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL       | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     |         |
| Avg    | -.00200 | .00439  | .00226  | -.00520  | .00068  | .04393  |         |
| SDev   | .00186  | .00258  | .00234  | .00812   | .00001  | .00013  |         |
| %RSD   | 92.601  | 58.703  | 103.36  | 156.34   | .69769  | .28888  |         |
| #1     | -.00069 | .00621  | .00391  | .00055   | .00067  | .04384  |         |
| #2     | -.00332 | .00257  | .00061  | L-.01094 | .00068  | .04402  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass  | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000   | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000  | -.05000 | -.02000 |         |

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13480    | --      | --      | --      | --      | --      | --      |
| SDev   | 53.88099 | --      | --      | --      | --      | --      | --      |
| %RSD   | .3997194 | --      | --      | --      | --      | --      | --      |
| #1     | 13518    | --      | --      | --      | --      | --      | --      |
| #2     | 13442    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN3KAE

Operator: RJG

Run Time: 11/08/00 16:33:15

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00123  | 1.2413  | .00192  | .01172  | -.00222 | 3.1878  | .00015  |
| SDev   | .00049  | .0055   | .00097  | .00013  | .00000  | .0145   | .00023  |
| %RSD   | 39.920  | .44374  | 50.565  | 1.0881  | .17361  | .45613  | 155.94  |
| #1     | .00158  | 1.2374  | .00261  | .01163  | -.00222 | 3.1776  | .00032  |
| #2     | .00088  | 1.2452  | .00123  | .01181  | -.00222 | 3.1981  | -.00002 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00065  | .00362  | .00430  | 1.6529  | 1.4617  | .06850  | .00111  |
| SDev   | .00036  | .00066  | .00003  | .0283   | .0088   | .00048  | .00081  |
| %RSD   | 55.091  | 18.218  | .76513  | 1.7108  | .60170  | .69471  | 72.929  |
| #1     | .00090  | .00409  | .00427  | 1.6329  | 1.4554  | .06816  | .00168  |
| #2     | .00040  | .00316  | .00432  | 1.6729  | 1.4679  | .06884  | .00054  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00593  | .00696  | -.00051 | .00198  | -.00225 | .00191  | .00053  |
| SDev   | .00032  | .00087  | .00056  | .00066  | .00163  | .00240  | .00106  |
| %RSD   | 5.3060  | 12.541  | 109.98  | 33.485  | 72.382  | 125.47  | 200.86  |
| #1     | .00615  | .00758  | -.00011 | .00245  | -.00340 | .00361  | .00128  |
| #2     | .00571  | .00635  | -.00090 | .00151  | -.00110 | .00022  | -.00022 |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | -.00112 | .00366  | .00207  | -.00100 | .00217  | .01298  |         |
| SDev   | .00438  | .00078  | .00094  | .00262  | .00027  | .00005  |         |
| %RSD   | 393.18  | 21.242  | 45.492  | 262.55  | 12.627  | .36884  |         |
| #1     | .00199  | .00311  | .00274  | -.00285 | .00197  | .01301  |         |
| #2     | -.00422 | .00421  | .00140  | .00085  | .00236  | .01294  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13479    | --      | --      | --      | --      | --      | --      |
| SDev   | 1.343779 | --      | --      | --      | --      | --      | --      |
| %RSD   | .0099693 | --      | --      | --      | --      | --      | --      |
| #1     | 13478    | --      | --      | --      | --      | --      | --      |
| #2     | 13480    | --      | --      | --      | --      | --      | --      |



## Analysis Report

674 692

11/08/00 04:41:31 PM

page 1

Method: METTRA Sample Name: CCV3-9

Operator: RJG

Run Time: 11/08/00 16:37:25

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 1.0498  | 25.158  | .51159  | 2.0482  | 2.0554  | 50.815  | .49307  |
| SDev   | .0015   | .152    | .00103  | .0046   | .0015   | .045    | .00066  |
| %RSD   | .14519  | .60237  | .20055  | .22396  | .07315  | .08942  | .13438  |
| #1     | 1.0487  | 25.050  | .51231  | 2.0450  | 2.0544  | 50.783  | .49261  |
| #2     | 1.0509  | 25.265  | .51086  | 2.0515  | 2.0565  | 50.847  | .49354  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 1.1000  | 27.500  | .55000  | 2.2000  | 2.2000  | 55.000  | .55000  |
| Low    | .90000  | 22.500  | .45000  | 1.8000  | 1.8000  | 45.000  | .45000  |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 2.0427  | 2.0410  | 2.0213  | 25.188  | 49.676  | 2.0101  | 2.0435  |
| SDev   | .0058   | .0062   | .0070   | .095    | .145    | .0065   | .0144   |
| %RSD   | .28476  | .30483  | .34552  | .37593  | .29256  | .32190  | .70396  |
| #1     | 2.0386  | 2.0366  | 2.0164  | 25.121  | 49.573  | 2.0055  | 2.0334  |
| #2     | 2.0468  | 2.0454  | 2.0263  | 25.255  | 49.779  | 2.0146  | 2.0537  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.2000  | 2.2000  | 2.2000  | 27.500  | 55.000  | 2.2000  | 2.2000  |
| Low    | 1.8000  | 1.8000  | 1.8000  | 22.500  | 45.000  | 1.8000  | 1.8000  |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 2.0459  | .51195  | .50206  | .50535  | .50892  | .52274  | .51814  |
| SDev   | .0017   | .00014  | .00031  | .00016  | .00560  | .00368  | .00059  |
| %RSD   | .08457  | .02822  | .06229  | .03175  | 1.1002  | .70431  | .11410  |
| #1     | 2.0472  | .51184  | .50228  | .50547  | .50496  | .52535  | .51856  |
| #2     | 2.0447  | .51205  | .50184  | .50524  | .51288  | .52014  | .51772  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 2.2000  |         |         | .55000  |         |         | .55000  |
| Low    | 1.8000  |         |         | .45000  |         |         | .45000  |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .52013  | .51921  | .51952  | 1.0381  | 2.0433  | 2.0895  |         |
| SDev   | .00121  | .00320  | .00254  | .0036   | .0064   | .0013   |         |
| %RSD   | .23262  | .61592  | .48813  | .34922  | .31471  | .06273  |         |
| #1     | .51927  | .51695  | .51772  | 1.0406  | 2.0387  | 2.0905  |         |
| #2     | .52099  | .52147  | .52131  | 1.0355  | 2.0478  | 2.0886  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .55000  | 1.1000  | 2.2000  | 2.2000  |         |
| Low    |         |         | .45000  | .90000  | 1.8000  | 1.8000  |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13522    | --      | --      | --      | --      | --      | --      |
| SDev   | 17.00578 | --      | --      | --      | --      | --      | --      |
| %RSD   | .1257622 | --      | --      | --      | --      | --      | --      |
| #1     | 13510    | --      | --      | --      | --      | --      | --      |
| #2     | 13534    | --      | --      | --      | --      | --      | --      |

## Analysis Report

674 694

11/08/00 04:45:41 PM

page 1

Method: METTRA

Sample Name: CCB9

Operator: RJG

Run Time: 11/08/00 16:41:35

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00157  | .01228  | .00054  | .00084  | -.00175 | .03281  | .00031  |
| SDev   | .00001  | .01523  | .00128  | .00044  | .00023  | .00907  | .00000  |
| %RSD   | .85384  | 124.02  | 235.69  | 52.113  | 13.097  | 27.643  | .06156  |
| #1     | .00158  | .02305  | .00145  | .00053  | -.00191 | .02640  | .00031  |
| #2     | .00156  | .00151  | -.00036 | .00115  | -.00159 | .03923  | .00031  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00102  | .00163  | .00416  | .02120  | .02440  | .00096  | .00448  |
| SDev   | .00017  | .00042  | .00029  | .00857  | .00632  | .00039  | .00133  |
| %RSD   | 16.869  | 25.657  | 6.9407  | 40.434  | 25.910  | 40.945  | 29.717  |
| #1     | .00090  | .00193  | .00396  | .02725  | .01993  | .00068  | .00543  |
| #2     | .00114  | .00133  | .00437  | .01514  | .02887  | .00124  | .00354  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00326  | .00305  | -.00053 | .00066  | -.00274 | .00211  | .00049  |
| SDev   | .00092  | .00125  | .00314  | .00168  | .00254  | .00064  | .00042  |
| %RSD   | 28.137  | 40.900  | 591.36  | 253.55  | 92.681  | 30.458  | 85.016  |
| #1     | .00261  | .00217  | .00169  | .00185  | -.00095 | .00165  | .00079  |
| #2     | .00391  | .00394  | -.00275 | -.00053 | -.00454 | .00256  | .00020  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00304  | .00113  | .00176  | -.00008 | .00179  | .00361  |         |
| SDev   | .00099  | .00052  | .00068  | .00359  | .00051  | .00031  |         |
| %RSD   | 32.613  | 46.429  | 38.504  | 4559.7  | 28.454  | 8.5051  |         |
| #1     | .00234  | .00076  | .00128  | .00246  | .00143  | .00339  |         |
| #2     | .00374  | .00150  | .00224  | -.00262 | .00215  | .00382  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13498    | --      | --      | --      | --      | --      | --      |
| SDev   | 175.3273 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.298877 | --      | --      | --      | --      | --      | --      |
| #1     | 13374    | --      | --      | --      | --      | --      | --      |
| #2     | 13622    | --      | --      | --      | --      | --      | --      |

## Analysis Report

674 696

11/08/00 04:49:51 PM

page 1

Method: METTRA

Sample Name: DPD8KB

Operator: RJG

Run Time: 11/08/00 16:45:45

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00139  | .02912  | -.00016 | .00080  | -.00221 | .14610  | .00010  |
| SDev   | .00032  | .00695  | .00017  | .00007  | .00025  | .00426  | .00002  |
| %RSD   | 23.138  | 23.882  | 107.08  | 8.1679  | 11.415  | 2.9187  | 19.615  |
| #1     | .00162  | .03403  | -.00004 | .00076  | -.00239 | .14308  | .00009  |
| #2     | .00117  | .02420  | -.00028 | .00085  | -.00203 | .14911  | .00012  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00087  | .00191  | .00277  | .01407  | .01944  | .00059  | .00227  |
| SDev   | .00023  | .00050  | .00042  | .00002  | .00035  | .00001  | .00073  |
| %RSD   | 26.307  | 26.157  | 15.034  | .11143  | 1.7783  | 1.0539  | 32.294  |
| #1     | .00103  | .00156  | .00247  | .01406  | .01920  | .00059  | .00278  |
| #2     | .00071  | .00226  | .00306  | .01408  | .01968  | .00059  | .00175  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00229  | .00273  | -.00236 | -.00066 | -.00265 | .00241  | .00073  |
| SDev   | .00062  | .00205  | .00075  | .00119  | .00111  | .00152  | .00139  |
| %RSD   | 27.215  | 75.161  | 31.985  | 179.16  | 41.838  | 63.205  | 191.06  |
| #1     | .00273  | .00128  | -.00289 | -.00150 | -.00344 | .00133  | -.00025 |
| #2     | .00185  | .00418  | -.00182 | .00018  | -.00187 | .00349  | .00171  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00402  | .00172  | .00249  | .00054  | .00178  | .00863  |         |
| SDev   | .00093  | .00046  | .00001  | .00189  | .00105  | .00008  |         |
| %RSD   | 23.177  | 26.455  | .28016  | 351.43  | 58.796  | .90702  |         |
| #1     | .00468  | .00140  | .00249  | .00187  | .00252  | .00858  |         |
| #2     | .00336  | .00204  | .00248  | -.00080 | .00104  | .00869  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13696    | --      | --      | --      | --      | --      | --      |
| SDev   | 90.54488 | --      | --      | --      | --      | --      | --      |
| %RSD   | .6610841 | --      | --      | --      | --      | --      | --      |
|        |          |         |         |         |         |         |         |
| #1     | 13632    | --      | --      | --      | --      | --      | --      |
| #2     | 13760    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DPK8KC

Operator: RJG

Run Time: 11/08/00 16:49:55

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05321  | 1.9615  | 2.0134  | 2.0609  | .04998  | L.28382 | .04992  |
| SDev   | .00086  | .0732   | .0551   | .0616   | .00145  | .00778  | .00105  |
| %RSD   | 1.6238  | 3.7334  | 2.7362  | 2.9900  | 2.8904  | 2.7400  | 2.1025  |
| #1     | .05382  | 2.0133  | 2.0524  | 2.1045  | .05100  | L.28932 | .05067  |
| #2     | .05260  | 1.9098  | 1.9745  | 2.0174  | .04895  | L.27832 | .04918  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Low  | LC Pass |
| High   | .06000  | 2.4000  | 2.4000  | 2.4000  | .06000  | 60.000  | .06000  |
| Low    | .04000  | 1.6000  | 1.6000  | 1.6000  | .04000  | 40.000  | .04000  |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .52517  | .21059  | .25662  | 1.0486  | L.01266 | .50505  | L.00226 |
| SDev   | .01393  | .00528  | .00756  | .0338   | .00118  | .01437  | .00036  |
| %RSD   | 2.6532  | 2.5073  | 2.9457  | 3.2207  | 9.3383  | 2.8450  | 15.961  |
| #1     | .53502  | .21432  | .26197  | 1.0725  | L.01183 | .51521  | L.00252 |
| #2     | .51532  | .20685  | .25127  | 1.0247  | L.01350 | .49489  | L.00201 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Low  | LC Pass | LC Low  |
| High   | .60000  | .24000  | .30000  | 1.2000  | 60.000  | .60000  | 1.2000  |
| Low    | .40000  | .16000  | .20000  | .80000  | 40.000  | .40000  | .80000  |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .52762  | .51389  | .50270  | .50643  | -.00288 | .00391  | L.00165 |
| SDev   | .01690  | .00941  | .00950  | .00947  | .00058  | .00060  | .00021  |
| %RSD   | 3.2030  | 1.8305  | 1.8890  | 1.8692  | 20.182  | 15.422  | 12.653  |
| #1     | .53957  | .52054  | .50942  | .51312  | -.00329 | .00433  | L.00179 |
| #2     | .51567  | .50724  | .49599  | .49974  | -.00247 | .00348  | L.00150 |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Low  |
| High   | .60000  |         |         | .60000  |         |         | .60000  |
| Low    | .40000  |         |         | .40000  |         |         | .40000  |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | 1.9567  | 1.9536  | 1.9547  | 2.0363  | .51238  | .54583  |         |
| SDev   | .0426   | .0385   | .0399   | .0424   | .01407  | .01602  |         |
| %RSD   | 2.1793  | 1.9698  | 2.0397  | 2.0824  | 2.7465  | 2.9354  |         |
| #1     | 1.9869  | 1.9808  | 1.9828  | 2.0662  | .52233  | .55716  |         |
| #2     | 1.9266  | 1.9264  | 1.9265  | 2.0063  | .50243  | .53450  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 2.4000  | 2.4000  | .60000  | .60000  |         |
| Low    |         |         | 1.6000  | 1.6000  | .40000  | .40000  |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13476    | --      | --      | --      | --      | --      | --      |
| SDev   | 349.6643 | --      | --      | --      | --      | --      | --      |
| %RSD   | 2.594670 | --      | --      | --      | --      | --      | --      |
| #1     | 13229    | --      | --      | --      | --      | --      | --      |
| #2     | 13724    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DN4P6

Operator: RJG

Run Time: 11/08/00 16:54:05

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00086  | 90.486  | .10509  | 1.2900  | .00541  | 8.3857  | .00028  |
| SDev   | .00067  | 1.953   | .00148  | .0189   | .00051  | .1206   | .00045  |
| %RSD   | 78.019  | 2.1584  | 1.4089  | 1.4626  | 9.4646  | 1.4383  | 157.40  |
| #1     | .00039  | 89.105  | .10614  | 1.2766  | .00577  | 8.3004  | -.00003 |
| #2     | .00134  | 91.867  | .10404  | 1.3033  | .00504  | 8.4709  | .00060  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .08190  | .09919  | .16642  | 181.13  | 18.067  | 7.3293  | .00892  |
| SDev   | .00128  | .00209  | .00383  | 3.21    | .304    | .1285   | .00017  |
| %RSD   | 1.5623  | 2.1083  | 2.3032  | 1.7717  | 1.6849  | 1.7529  | 1.8615  |
| #1     | .08099  | .09771  | .16371  | 178.87  | 17.851  | 7.2385  | .00880  |
| #2     | .08280  | .10067  | .16913  | 183.40  | 18.282  | 7.4202  | .00904  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .15770  | .11647  | .11157  | .11320  | .00234  | .00812  | .00619  |
| SDev   | .00244  | .00256  | .00274  | .00098  | .00213  | .00078  | .00019  |
| %RSD   | 1.5487  | 2.1961  | 2.4591  | .86416  | 90.931  | 9.5845  | 3.0520  |
| #1     | .15597  | .11828  | .10963  | .11251  | .00083  | .00867  | .00606  |
| #2     | .15943  | .11466  | .11351  | .11389  | .00384  | .00757  | .00633  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00214  | -.00225 | -.00079 | -.00090 | .22102  | .58206  |         |
| SDev   | .00453  | .00167  | .00039  | .00055  | .00246  | .00605  |         |
| %RSD   | 211.42  | 74.342  | 50.181  | 61.336  | 1.1131  | 1.0395  |         |
| #1     | .00535  | -.00343 | -.00051 | -.00129 | .21928  | .57778  |         |
| #2     | -.00106 | -.00107 | -.00106 | -.00051 | .22276  | .58633  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 15444    | --      | --      | --      | --      | --      | --      |
| SDev   | 132.9713 | --      | --      | --      | --      | --      | --      |
| %RSD   | .8609691 | --      | --      | --      | --      | --      | --      |
| #1     | 15538    | --      | --      | --      | --      | --      | --      |
| #2     | 15350    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN4P6P5

Operator: RJG

Run Time: 11/08/00 16:58:15

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|       |         |         |         |         |         |        |         |
|-------|---------|---------|---------|---------|---------|--------|---------|
| Elem  | AG      | AL      | AS      | BA      | BE      | CA     | CD      |
| Units | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avge  | .00155  | 19.290  | .02353  | .28754  | -.00082 | 1.8886 | .00020  |
| SDev  | .00014  | .057    | .00035  | .00130  | .00002  | .0068  | .00039  |
| %RSD  | 8.8765  | .29704  | 1.4807  | .45083  | 2.4755  | .35908 | 191.05  |
| #1    | .00165  | 19.331  | .02378  | .28845  | -.00084 | 1.8934 | -.00007 |
| #2    | .00145  | 19.250  | .02329  | .28662  | -.00081 | 1.8838 | .00048  |
| Elem  | CO      | CR      | CU      | FE      | MG      | MN     | MO      |
| Units | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avge  | .01920  | .02348  | .03744  | 40.361  | 3.9842  | 1.6207 | .00226  |
| SDev  | .00009  | .00044  | .00027  | .148    | .0084   | .0044  | .00025  |
| %RSD  | .46182  | 1.8508  | .71676  | .36656  | .21182  | .26846 | 11.094  |
| #1    | .01926  | .02379  | .03725  | 40.466  | 3.9902  | 1.6238 | .00208  |
| #2    | .01913  | .02317  | .03763  | 40.256  | 3.9782  | 1.6176 | .00243  |
| Elem  | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2   | SB      |
| Units | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avge  | .03708  | .02880  | .02299  | .02493  | -.00144 | .00464 | .00262  |
| SDev  | .00121  | .00044  | .00009  | .00009  | .00113  | .00262 | .00137  |
| %RSD  | 3.2774  | 1.5412  | .38884  | .35370  | 78.445  | 56.503 | 52.482  |
| #1    | .03794  | .02911  | .02293  | .02499  | -.00224 | .00649 | .00359  |
| #2    | .03622  | .02849  | .02306  | .02487  | -.00064 | .00279 | .00165  |
| Elem  | SE/1    | SE/2    | SE      | TL      | V_      | ZN     |         |
| Units | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    |         |
| Avge  | .00011  | -.00153 | -.00098 | -.00294 | .05052  | .13263 |         |
| SDev  | .00206  | .00128  | .00017  | .00037  | .00067  | .00042 |         |
| %RSD  | 1827.8  | 83.739  | 16.930  | 12.531  | 1.3178  | .31666 |         |
| #1    | -.00135 | -.00062 | -.00086 | -.00320 | .05099  | .13293 |         |
| #2    | .00157  | -.00243 | -.00110 | -.00268 | .05005  | .13234 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13965    | --      | --      | --      | --      | --      | --      |
| SDev   | 40.69385 | --      | --      | --      | --      | --      | --      |
| %RSD   | .2913932 | --      | --      | --      | --      | --      | --      |
| #1     | 13936    | --      | --      | --      | --      | --      | --      |
| #2     | 13994    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN4P6S

Operator: RJG

Run Time: 11/08/00 17:02:25

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .04682  | 94.528  | 1.8700  | 3.1363  | .05068  | 8.9307  | .04338  |
| SDev   | .00017  | .367    | .0023   | .0048   | .00005  | .0022   | .00043  |
| %RSD   | .35587  | .38844  | .12234  | .15379  | .09160  | .02462  | .99207  |
| #1     | .04670  | 94.268  | 1.8716  | 3.1397  | .05072  | 8.9323  | .04308  |
| #2     | .04693  | 94.787  | 1.8683  | 3.1329  | .05065  | 8.9292  | .04369  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .54803  | .28212  | .39714  | 190.24  | 18.777  | 8.6128  | .00983  |
| SDev   | .00095  | .00070  | .00057  | .48     | .026    | .0157   | .00039  |
| %RSD   | .17333  | .24859  | .14407  | .25265  | .13877  | .18246  | 3.9780  |
| #1     | .54735  | .28162  | .39674  | 189.90  | 18.759  | 8.6017  | .00955  |
| #2     | .54870  | .28261  | .39755  | 190.58  | 18.796  | 8.6239  | .01011  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .61094  | .56116  | .54781  | .55226  | .00283  | .00917  | .00706  |
| SDev   | .00664  | .00399  | .00191  | .00006  | .00108  | .00169  | .00077  |
| %RSD   | 1.0871  | .71030  | .34802  | .01009  | 38.162  | 18.433  | 10.880  |
| #1     | .61564  | .56398  | .54646  | .55230  | .00207  | .01036  | .00760  |
| #2     | .60625  | .55834  | .54916  | .55222  | .00359  | .00797  | .00651  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | 1.7306  | 1.7222  | 1.7250  | 1.8283  | .65946  | 1.0459  |         |
| SDev   | .0113   | .0053   | .0003   | .0033   | .00075  | .0027   |         |
| %RSD   | .65517  | .30487  | .01586  | .18278  | .11409  | .25456  |         |
| #1     | 1.7386  | 1.7185  | 1.7252  | 1.8260  | .65893  | 1.0478  |         |
| #2     | 1.7225  | 1.7259  | 1.7248  | 1.8307  | .66000  | 1.0441  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 15260    | --      | --      | --      | --      | --      | --      |
| SDev   | 8.874052 | --      | --      | --      | --      | --      | --      |
| %RSD   | .0581527 | --      | --      | --      | --      | --      | --      |
|        |          |         |         |         |         |         |         |
| #1     | 15254    | --      | --      | --      | --      | --      | --      |
| #2     | 15266    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN4P6D Operator: RJG  
 Run Time: 11/08/00 17:06:35  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .04678  | 94.809  | 1.8607  | 2.7695  | .05124  | 8.7348  | .04333  |
| SDev   | .00015  | .388    | .0033   | .0020   | .00014  | .0070   | .00009  |
| %RSD   | .32279  | .40958  | .17875  | .07345  | .27149  | .08021  | .21030  |
| #1     | .04688  | 94.534  | 1.8631  | 2.7680  | .05134  | 8.7398  | .04339  |
| #2     | .04667  | 95.083  | 1.8584  | 2.7709  | .05114  | 8.7298  | .04327  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |

| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .54305  | .28188  | .39441  | 184.83  | 18.401  | 8.4198  | .00756  |
| SDev   | .00169  | .00008  | .00008  | .10     | .004    | .0038   | .00082  |
| %RSD   | .31041  | .02701  | .01958  | .05470  | .02071  | .04533  | 10.810  |
| #1     | .54185  | .28182  | .39436  | 184.76  | 18.398  | 8.4225  | .00698  |
| #2     | .54424  | .28193  | .39447  | 184.90  | 18.403  | 8.4171  | .00813  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |

| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .60995  | .56338  | .55444  | .55742  | .00277  | .00749  | .00592  |
| SDev   | .00253  | .00250  | .00406  | .00354  | .00166  | .00062  | .00097  |
| %RSD   | .41568  | .44400  | .73232  | .63528  | 59.815  | 8.3074  | 16.341  |
| #1     | .61175  | .56515  | .55731  | .55992  | .00160  | .00705  | .00523  |
| #2     | .60816  | .56161  | .55157  | .55491  | .00394  | .00793  | .00660  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .60995  | .56338  | .55444  | .55742  | .00277  | .00749  | .00592  |
| SDev   | .00253  | .00250  | .00406  | .00354  | .00166  | .00062  | .00097  |
| %RSD   | .41568  | .44400  | .73232  | .63528  | 59.815  | 8.3074  | 16.341  |
| #1     | .61175  | .56515  | .55731  | .55992  | .00160  | .00705  | .00523  |
| #2     | .60816  | .56161  | .55157  | .55491  | .00394  | .00793  | .00660  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .60995  | .56338  | .55444  | .55742  | .00277  | .00749  | .00592  |
| SDev   | .00253  | .00250  | .00406  | .00354  | .00166  | .00062  | .00097  |
| %RSD   | .41568  | .44400  | .73232  | .63528  | 59.815  | 8.3074  | 16.341  |
| #1     | .61175  | .56515  | .55731  | .55992  | .00160  | .00705  | .00523  |
| #2     | .60816  | .56161  | .55157  | .55491  | .00394  | .00793  | .00660  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .60995  | .56338  | .55444  | .55742  | .00277  | .00749  | .00592  |
| SDev   | .00253  | .00250  | .00406  | .00354  | .00166  | .00062  | .00097  |
| %RSD   | .41568  | .44400  | .73232  | .63528  | 59.815  | 8.3074  | 16.341  |
| #1     | .61175  | .56515  | .55731  | .55992  | .00160  | .00705  | .00523  |
| #2     | .60816  | .56161  | .55157  | .55491  | .00394  | .00793  | .00660  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |
|--------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 1.7249  | 1.7383  | 1.7339  | 1.8327  | .65799  | 1.0540  |
| SDev   | .0116   | .0147   | .0136   | .0002   | .00091  | .0034   |
| %RSD   | .67081  | .84391  | .78657  | .00873  | .13863  | .31976  |
| #1     | 1.7331  | 1.7487  | 1.7435  | 1.8328  | .65864  | 1.0564  |
| #2     | 1.7167  | 1.7280  | 1.7242  | 1.8326  | .65735  | 1.0517  |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |
|--------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 1.7249  | 1.7383  | 1.7339  | 1.8327  | .65799  | 1.0540  |
| SDev   | .0116   | .0147   | .0136   | .0002   | .00091  | .0034   |
| %RSD   | .67081  | .84391  | .78657  | .00873  | .13863  | .31976  |
| #1     | 1.7331  | 1.7487  | 1.7435  | 1.8328  | .65864  | 1.0564  |
| #2     | 1.7167  | 1.7280  | 1.7242  | 1.8326  | .65735  | 1.0517  |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 15301    | --      | --      | --      | --      | --      | --      |
| SDev   | 96.30808 | --      | --      | --      | --      | --      | --      |
| %RSD   | .6294131 | --      | --      | --      | --      | --      | --      |
|        |          |         |         |         |         |         |         |
| #1     | 15233    | --      | --      | --      | --      | --      | --      |
| #2     | 15369    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DN4QJ

Operator: RJG

Run Time: 11/08/00 17:10:46

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00153  | 114.33  | .11064  | 1.2149  | .00357  | 27.135  | .00162  |
| SDev   | .00035  | .64     | .00035  | .0102   | .00001  | .223    | .00033  |
| %RSD   | 23.130  | .56269  | .31477  | .83678  | .29033  | .82194  | 20.118  |
| #1     | .00178  | 114.78  | .11089  | 1.2220  | .00358  | 27.292  | .00139  |
| #2     | .00128  | 113.87  | .11039  | 1.2077  | .00356  | 26.977  | .00185  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .07809  | .14343  | .20774  | 236.13  | 21.473  | 4.6253  | .00840  |
| SDev   | .00067  | .00159  | .00095  | 1.23    | .116    | .0231   | .00035  |
| %RSD   | .85547  | 1.1050  | .45599  | .52145  | .54176  | .49960  | 4.1344  |
| #1     | .07856  | .14455  | .20841  | 237.00  | 21.555  | 4.6416  | .00865  |
| #2     | .07762  | .14231  | .20707  | 235.26  | 21.391  | 4.6089  | .00815  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .18798  | .21273  | .20927  | .21042  | .00473  | .01114  | .00901  |
| SDev   | .00328  | .00001  | .00032  | .00021  | .00119  | .00023  | .00024  |
| %RSD   | 1.7460  | .00212  | .15288  | .10213  | 25.067  | 2.1124  | 2.6437  |
| #1     | .19030  | .21274  | .20950  | .21058  | .00557  | .01098  | .00918  |
| #2     | .18566  | .21273  | .20904  | .21027  | .00389  | .01131  | .00884  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | -.00040 | .00443  | .00282  | .00316  | .26117  | .84258  |         |
| SDev   | .00134  | .00196  | .00086  | .00105  | .00362  | .00653  |         |
| %RSD   | 337.85  | 44.245  | 30.528  | 33.291  | 1.3874  | .77469  |         |
| #1     | -.00134 | .00581  | .00343  | .00390  | .26373  | .84719  |         |
| #2     | .00055  | .00304  | .00221  | .00241  | .25861  | .83796  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 14589    | --      | --      | --      | --      | --      | --      |
| SDev   | 22.16752 | --      | --      | --      | --      | --      | --      |
| %RSD   | .1519481 | --      | --      | --      | --      | --      | --      |
| #1     | 14573    | --      | --      | --      | --      | --      | --      |
| #2     | 14605    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN4QK

Operator: RJG

Run Time: 11/08/00 17:14:56

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00200  | 180.78  | .10399  | .86948  | .00214  | 16.780  | .00204  |
| SDev   | .00025  | .99     | .00051  | .00120  | .00002  | .043    | .00069  |
| %RSD   | 12.564  | .54687  | .48651  | .13803  | .78355  | .25668  | 33.759  |
| #1     | .00218  | 180.08  | .10435  | .86863  | .00213  | 16.749  | .00155  |
| #2     | .00182  | 181.48  | .10363  | .87033  | .00215  | 16.810  | .00253  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .06946  | .23594  | .18201  | 241.13  | 16.863  | 3.3231  | .01338  |
| SDev   | .00015  | .00074  | .00059  | 1.14    | .048    | .0134   | .00174  |
| %RSD   | .21955  | .31218  | .32204  | .47076  | .28344  | .40397  | 12.978  |
| #1     | .06935  | .23542  | .18159  | 240.33  | 16.829  | 3.3136  | .01460  |
| #2     | .06957  | .23646  | .18242  | 241.93  | 16.897  | 3.3326  | .01215  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .15398  | .24899  | .24359  | .24539  | .00719  | .01519  | .01253  |
| SDev   | .00067  | .00620  | .00433  | .00082  | .00455  | .00252  | .00320  |
| %RSD   | .43458  | 2.4901  | 1.7768  | .33508  | 63.267  | 16.609  | 25.524  |
| #1     | .15350  | .25338  | .24053  | .24481  | .00397  | .01341  | .01027  |
| #2     | .15445  | .24461  | .24665  | .24597  | .01040  | .01698  | .01479  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | -.00542 | .00240  | -.00020 | -.00172 | .44158  | .70467  |         |
| SDev   | .00237  | .00454  | .00224  | .00567  | .00259  | .00198  |         |
| %RSD   | 43.651  | 188.83  | 1101.8  | 329.53  | .58633  | .28040  |         |
| #1     | -.00375 | -.00081 | -.00179 | -.00573 | .44341  | .70327  |         |
| #2     | -.00710 | .00561  | .00138  | .00229  | .43975  | .70607  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13556    | --      | --      | --      | --      | --      | --      |
| SDev   | 33.05724 | --      | --      | --      | --      | --      | --      |
| %RSD   | .2438637 | --      | --      | --      | --      | --      | --      |
| #1     | 13532    | --      | --      | --      | --      | --      | --      |
| #2     | 13579    | --      | --      | --      | --      | --      | --      |

## Analysis Report

674 712

11/08/00 05:23:13 PM

page 1

Method: METTRA Sample Name: DPFJVB Operator: RJG  
 Run Time: 11/08/00 17:19:07  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00128  | .04510  | .00073  | .00067  | -.00310 | .01879  | .00030  |
| SDev   | .00004  | .00064  | .00112  | .00003  | .00007  | .00151  | .00013  |
| %RSD   | 3.4599  | 1.4073  | 154.62  | 4.4556  | 2.3858  | 8.0447  | 42.338  |
| #1     | .00131  | .04555  | -.00007 | .00065  | -.00315 | .01986  | .00021  |
| #2     | .00125  | .04465  | .00152  | .00069  | -.00304 | .01772  | .00039  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |

| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00033  | .00204  | .00321  | H.11109 | .01831  | .00245  | .00215  |
| SDev   | .00061  | .00030  | .00007  | .00825  | .00080  | .00011  | .00091  |
| %RSD   | 183.89  | 14.435  | 2.1506  | 7.4226  | 4.3851  | 4.5334  | 42.291  |
| #1     | .00076  | .00225  | .00325  | H.11693 | .01774  | .00253  | .00151  |
| #2     | -.00010 | .00184  | .00316  | H.10526 | .01888  | .00237  | .00279  |
| Errors | LC Pass | LC Pass | LC Pass | LC High | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |

| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00431  | .00839  | -.00036 | .00255  | -.00129 | .00211  | .00098  |
| SDev   | .00216  | .00001  | .00097  | .00064  | .00165  | .00036  | .00031  |
| %RSD   | 50.162  | .15915  | 267.18  | 25.152  | 127.90  | 17.306  | 31.309  |
| #1     | .00583  | .00838  | .00032  | H.00301 | -.00245 | .00237  | .00076  |
| #2     | .00278  | .00840  | -.00105 | .00210  | -.00012 | .00185  | .00119  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00431  | .00839  | -.00036 | .00255  | -.00129 | .00211  | .00098  |
| SDev   | .00216  | .00001  | .00097  | .00064  | .00165  | .00036  | .00031  |
| %RSD   | 50.162  | .15915  | 267.18  | 25.152  | 127.90  | 17.306  | 31.309  |
| #1     | .00583  | .00838  | .00032  | H.00301 | -.00245 | .00237  | .00076  |
| #2     | .00278  | .00840  | -.00105 | .00210  | -.00012 | .00185  | .00119  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00431  | .00839  | -.00036 | .00255  | -.00129 | .00211  | .00098  |
| SDev   | .00216  | .00001  | .00097  | .00064  | .00165  | .00036  | .00031  |
| %RSD   | 50.162  | .15915  | 267.18  | 25.152  | 127.90  | 17.306  | 31.309  |
| #1     | .00583  | .00838  | .00032  | H.00301 | -.00245 | .00237  | .00076  |
| #2     | .00278  | .00840  | -.00105 | .00210  | -.00012 | .00185  | .00119  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00431  | .00839  | -.00036 | .00255  | -.00129 | .00211  | .00098  |
| SDev   | .00216  | .00001  | .00097  | .00064  | .00165  | .00036  | .00031  |
| %RSD   | 50.162  | .15915  | 267.18  | 25.152  | 127.90  | 17.306  | 31.309  |
| #1     | .00583  | .00838  | .00032  | H.00301 | -.00245 | .00237  | .00076  |
| #2     | .00278  | .00840  | -.00105 | .00210  | -.00012 | .00185  | .00119  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |
|--------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | -.00590 | .00462  | .00112  | -.00658 | .00109  | .00067  |
| SDev   | .00064  | .00056  | .00059  | .00043  | .00000  | .00024  |
| %RSD   | 10.874  | 12.196  | 52.620  | 6.5969  | .40918  | 35.474  |
| #1     | -.00544 | .00502  | .00154  | -.00689 | .00109  | .00050  |
| #2     | -.00635 | .00423  | .00070  | -.00627 | .00109  | .00084  |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |
|--------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | -.00590 | .00462  | .00112  | -.00658 | .00109  | .00067  |
| SDev   | .00064  | .00056  | .00059  | .00043  | .00000  | .00024  |
| %RSD   | 10.874  | 12.196  | 52.620  | 6.5969  | .40918  | 35.474  |
| #1     | -.00544 | .00502  | .00154  | -.00689 | .00109  | .00050  |
| #2     | -.00635 | .00423  | .00070  | -.00627 | .00109  | .00084  |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |
|--------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | -.00590 | .00462  | .00112  | -.00658 | .00109  | .00067  |
| SDev   | .00064  | .00056  | .00059  | .00043  | .00000  | .00024  |
| %RSD   | 10.874  | 12.196  | 52.620  | 6.5969  | .40918  | 35.474  |
| #1     | -.00544 | .00502  | .00154  | -.00689 | .00109  | .00050  |
| #2     | -.00635 | .00423  | .00070  | -.00627 | .00109  | .00084  |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13145    | --      | --      | --      | --      | --      | --      |
| SDev   | 56.60376 | --      | --      | --      | --      | --      | --      |
| %RSD   | .4306032 | --      | --      | --      | --      | --      | --      |
|        |          |         |         |         |         |         |         |
| #1     | 13105    | --      | --      | --      | --      | --      | --      |
| #2     | 13185    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DPFJVC Operator: RJG  
 Run Time: 11/08/00 17:23:17  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05414  | 1.9477  | 2.0322  | 2.0643  | .04936  | L.04801 | .05065  |
| SDev   | .00067  | .0417   | .0303   | .0293   | .00039  | .00011  | .00077  |
| %RSD   | 1.2450  | 2.1432  | 1.4889  | 1.4188  | .78693  | .21948  | 1.5184  |
| #1     | .05462  | 1.9772  | 2.0536  | 2.0850  | .04964  | L.04794 | .05119  |
| #2     | .05367  | 1.9182  | 2.0108  | 2.0436  | .04909  | L.04809 | .05010  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Low  | LC Pass |
| High   | .06000  | 2.4000  | 2.4000  | 2.4000  | .06000  | 60.000  | .06000  |
| Low    | .04000  | 1.6000  | 1.6000  | 1.6000  | .04000  | 40.000  | .04000  |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .52905  | .21182  | .25764  | 1.0666  | L.01535 | .50849  | L.00181 |
| SDev   | .00379  | .00294  | .00330  | .0144   | .00253  | .00490  | .00030  |
| %RSD   | .71715  | 1.3855  | 1.2809  | 1.3471  | 16.452  | .96330  | 16.889  |
| #1     | .53173  | .21389  | .25997  | 1.0768  | L.01714 | .51195  | L.00202 |
| #2     | .52637  | .20974  | .25531  | 1.0565  | L.01357 | .50503  | L.00159 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Low  | LC Pass | LC Low  |
| High   | .60000  | .24000  | .30000  | 1.2000  | 60.000  | .60000  | 1.2000  |
| Low    | .40000  | .16000  | .20000  | .80000  | 40.000  | .40000  | .80000  |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .53066  | .51542  | .50653  | .50949  | -.00057 | .00354  | L.00218 |
| SDev   | .00786  | .00407  | .00532  | .00490  | .00373  | .00159  | .00230  |
| %RSD   | 1.4820  | .78860  | 1.0503  | .96215  | 655.61  | 44.731  | 105.65  |
| #1     | .53622  | .51830  | .51029  | .51296  | -.00320 | .00242  | L.00055 |
| #2     | .52510  | .51255  | .50277  | .50603  | .00207  | .00467  | L.00380 |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Low  |
| High   | .60000  |         |         | .60000  |         |         | .60000  |
| Low    | .40000  |         |         | .40000  |         |         | .40000  |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | 1.9749  | 1.9909  | 1.9856  | 2.0519  | .51735  | .53777  |         |
| SDev   | .0068   | .0287   | .0214   | .0267   | .00777  | .00704  |         |
| %RSD   | .34545  | 1.4430  | 1.0795  | 1.3029  | 1.5017  | 1.3099  |         |
| #1     | 1.9797  | 2.0112  | 2.0008  | 2.0708  | .52285  | .54275  |         |
| #2     | 1.9701  | 1.9706  | 1.9704  | 2.0330  | .51186  | .53278  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 2.4000  | 2.4000  | .60000  | .60000  |         |
| Low    |         |         | 1.6000  | 1.6000  | .40000  | .40000  |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13221    | --      | --      | --      | --      | --      | --      |
| SDev   | 129.8245 | --      | --      | --      | --      | --      | --      |
| %RSD   | .9819755 | --      | --      | --      | --      | --      | --      |
| #1     | 13129    | --      | --      | --      | --      | --      | --      |
| #2     | 13313    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: CCV3-10

Operator: RJG

Run Time: 11/08/00 17:27:27

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 1.0511  | 25.241  | .50891  | 2.0456  | 2.0558  | 50.836  | .49331  |
| SDev   | .0011   | .089    | .00196  | .0034   | .0015   | .070    | .00161  |
| %RSD   | .10766  | .35330  | .38486  | .16763  | .07307  | .13857  | .32662  |
| #1     | 1.0519  | 25.178  | .50752  | 2.0432  | 2.0569  | 50.886  | .49445  |
| #2     | 1.0503  | 25.304  | .51029  | 2.0480  | 2.0548  | 50.786  | .49217  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 1.1000  | 27.500  | .55000  | 2.2000  | 2.2000  | 55.000  | .55000  |
| Low    | .90000  | 22.500  | .45000  | 1.8000  | 1.8000  | 45.000  | .45000  |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 2.0420  | 2.0415  | 2.0266  | 25.313  | 49.654  | 2.0077  | 2.0397  |
| SDev   | .0011   | .0016   | .0019   | .076    | .015    | .0005   | .0057   |
| %RSD   | .05413  | .08012  | .09350  | .29980  | .03055  | .02449  | .27758  |
| #1     | 2.0413  | 2.0427  | 2.0253  | 25.259  | 49.643  | 2.0074  | 2.0356  |
| #2     | 2.0428  | 2.0404  | 2.0280  | 25.366  | 49.665  | 2.0081  | 2.0437  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.2000  | 2.2000  | 2.2000  | 27.500  | 55.000  | 2.2000  | 2.2000  |
| Low    | 1.8000  | 1.8000  | 1.8000  | 22.500  | 45.000  | 1.8000  | 1.8000  |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 2.0476  | .51333  | .50516  | .50788  | .50874  | .52096  | .51689  |
| SDev   | .0017   | .00609  | .00298  | .00402  | .00028  | .00455  | .00294  |
| %RSD   | .08190  | 1.1870  | .58927  | .79047  | .05546  | .87305  | .56873  |
| #1     | 2.0464  | .51764  | .50727  | .51072  | .50855  | .52418  | .51897  |
| #2     | 2.0488  | .50902  | .50306  | .50504  | .50894  | .51774  | .51481  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 2.2000  |         |         | .55000  |         |         | .55000  |
| Low    | 1.8000  |         |         | .45000  |         |         | .45000  |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .51461  | .52204  | .51957  | 1.0416  | 2.0471  | 2.0991  |         |
| SDev   | .00468  | .00335  | .00379  | .0031   | .0002   | .0014   |         |
| %RSD   | .91041  | .64165  | .73030  | .30151  | .01142  | .06457  |         |
| #1     | .51792  | .52441  | .52225  | 1.0394  | 2.0469  | 2.1000  |         |
| #2     | .51130  | .51967  | .51688  | 1.0438  | 2.0472  | 2.0981  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .55000  | 1.1000  | 2.2000  | 2.2000  |         |
| Low    |         |         | .45000  | .90000  | 1.8000  | 1.8000  |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13620    | --      | --      | --      | --      | --      | --      |
| SDev   | 122.7182 | --      | --      | --      | --      | --      | --      |
| %RSD   | .9010398 | --      | --      | --      | --      | --      | --      |
| #1     | 13533    | --      | --      | --      | --      | --      | --      |
| #2     | 13706    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: CCB10

Operator: RJG

Run Time: 11/08/00 17:31:38

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL      | AS      | BA     | BE      | CA     | CD      |
|-------|--------|---------|---------|--------|---------|--------|---------|
| Units | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    | ppm     |
| Avge  | .00123 | -.01502 | -.00023 | .00082 | -.00224 | .01707 | -.00006 |
| SDev  | .00008 | .00465  | .00036  | .00021 | .00008  | .00282 | .00000  |
| %RSD  | 6.2433 | 30.942  | 160.15  | 26.204 | 3.5419  | 16.508 | 5.6655  |

|    |        |         |         |        |         |        |         |
|----|--------|---------|---------|--------|---------|--------|---------|
| #1 | .00129 | -.01830 | -.00048 | .00067 | -.00230 | .01508 | -.00005 |
| #2 | .00118 | -.01173 | .00003  | .00097 | -.00218 | .01906 | -.00006 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN     | MO     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00092 | .00146 | .00331 | .01676 | .02067 | .00085 | .00349 |
| SDev  | .00070 | .00023 | .00019 | .00688 | .00450 | .00013 | .00023 |
| %RSD  | 76.983 | 15.534 | 5.7930 | 41.085 | 21.789 | 15.054 | 6.7079 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00042 | .00130 | .00317 | .02163 | .01748 | .00076 | .00366 |
| #2 | .00141 | .00163 | .00344 | .01189 | .02385 | .00094 | .00333 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |

| Elem  | NI     | PB/1   | PB/2    | PB     | SB/1    | SB/2   | SB      |
|-------|--------|--------|---------|--------|---------|--------|---------|
| Units | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    | ppm     |
| Avge  | .00318 | .00509 | -.00236 | .00012 | -.00325 | .00004 | -.00105 |
| SDev  | .00001 | .00208 | .00147  | .00029 | .00098  | .00212 | .00109  |
| %RSD  | .41073 | 40.911 | 62.373  | 235.21 | 30.029  | 4790.7 | 103.70  |

|    |        |        |         |         |         |         |         |
|----|--------|--------|---------|---------|---------|---------|---------|
| #1 | .00317 | .00362 | -.00132 | .00033  | -.00256 | -.00146 | -.00182 |
| #2 | .00319 | .00656 | -.00340 | -.00008 | -.00394 | .00155  | -.00028 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem  | SE/1   | SE/2   | SE     | TL     | V      | ZN     |
|-------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00232 | .00116 | .00155 | .00058 | .00160 | .00064 |
| SDev  | .00066 | .00162 | .00086 | .00267 | .00027 | .00009 |
| %RSD  | 28.404 | 139.19 | 55.507 | 461.87 | 16.616 | 14.735 |

|    |        |        |        |         |        |        |
|----|--------|--------|--------|---------|--------|--------|
| #1 | .00185 | .00230 | .00215 | .00247  | .00142 | .00057 |
| #2 | .00279 | .00002 | .00094 | -.00131 | .00179 | .00070 |

|        |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13582    | --      | --      | --      | --      | --      | --      |
| SDev   | 96.62642 | --      | --      | --      | --      | --      | --      |
| %RSD   | .7114496 | --      | --      | --      | --      | --      | --      |
| #1     | 13650    | --      | --      | --      | --      | --      | --      |
| #2     | 13513    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DNX75

Operator: RJG

Run Time: 11/08/00 17:35:48

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00115  | 4.3762  | .01767  | .22408  | .00492  | 4.4583  | .00002  |
| SDev   | .00024  | .0077   | .00011  | .00037  | .00004  | .0129   | .00027  |
| %RSD   | 21.219  | .17546  | .63109  | .16704  | .72758  | .28922  | 1267.1  |
| #1     | .00132  | 4.3708  | .01774  | .22381  | .00494  | 4.4674  | -.00017 |
| #2     | .00097  | 4.3816  | .01759  | .22434  | .00489  | 4.4491  | .00021  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .01406  | .01373  | .03383  | 4.7140  | .53668  | .09770  | .00550  |
| SDev   | .00025  | .00032  | .00009  | .0189   | .00056  | .00017  | .00047  |
| %RSD   | 1.7925  | 2.3172  | .25868  | .40136  | .10408  | .17170  | 8.5437  |
| #1     | .01424  | .01395  | .03389  | 4.7274  | .53708  | .09782  | .00583  |
| #2     | .01388  | .01350  | .03376  | 4.7006  | .53629  | .09758  | .00517  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .03971  | .00850  | .00318  | .00495  | -.00278 | .00267  | .00085  |
| SDev   | .00002  | .00007  | .00096  | .00062  | .00256  | .00034  | .00108  |
| %RSD   | .04720  | .80169  | 30.311  | 12.529  | 92.082  | 12.908  | 126.73  |
| #1     | .03970  | .00845  | .00386  | .00539  | -.00097 | .00291  | .00162  |
| #2     | .03973  | .00855  | .00250  | .00451  | -.00459 | .00242  | .00009  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00458  | .00282  | .00341  | .00115  | .04733  | .21561  |         |
| SDev   | .00325  | .00208  | .00031  | .00520  | .00074  | .00074  |         |
| %RSD   | 70.975  | 73.757  | 8.9765  | 450.35  | 1.5582  | .34175  |         |
| #1     | .00687  | .00135  | .00319  | .00483  | .04786  | .21613  |         |
| #2     | .00228  | .00429  | .00362  | -.00252 | .04681  | .21509  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13865    | --      | --      | --      | --      | --      | --      |
| SDev   | 66.85681 | --      | --      | --      | --      | --      | --      |
| %RSD   | .4822149 | --      | --      | --      | --      | --      | --      |
| #1     | 13817    | --      | --      | --      | --      | --      | --      |
| #2     | 13912    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN7CD

Operator: RJG

Run Time: 11/08/00 17:39:59

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | BA     | BE      | CA     | CD     |
|-------|--------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00370 | .12026 | .01617 | .03283 | -.00239 | .59948 | .00039 |
| SDev  | .00063 | .01055 | .00104 | .00005 | .00040  | .00296 | .00006 |
| %RSD  | 17.127 | 8.7692 | 6.4412 | .16528 | 16.631  | .49419 | 14.414 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .00325 | .12772 | .01691 | .03279 | -.00211 | .59739 | .00035 |
| #2 | .00415 | .11281 | .01543 | .03287 | -.00267 | .60158 | .00043 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN     | MO     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00498 | .02405 | .11904 | .52280 | .11250 | .01317 | .15002 |
| SDev  | .00035 | .00067 | .00108 | .00166 | .00741 | .00019 | .00209 |
| %RSD  | 7.0554 | 2.7803 | .90656 | .31765 | 6.5827 | 1.4186 | 1.3933 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00473 | .02357 | .11827 | .52163 | .10726 | .01304 | .14855 |
| #2 | .00523 | .02452 | .11980 | .52398 | .11773 | .01330 | .15150 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |

| Elem  | NI     | PB/1   | PB/2   | PB     | SB/1   | SB/2   | SB     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .06510 | .01150 | .00748 | .00882 | .45031 | .45829 | .45563 |
| SDev  | .00047 | .00273 | .00106 | .00020 | .00949 | .00203 | .00180 |
| %RSD  | .72175 | 23.737 | 14.150 | 2.3073 | 2.1074 | .44364 | .39592 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .06477 | .00957 | .00823 | .00868 | .44360 | .45973 | .45436 |
| #2 | .06544 | .01344 | .00673 | .00896 | .45702 | .45685 | .45691 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem  | SE/1   | SE/2   | SE     | TL      | V_     | ZN     |
|-------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00188 | .01312 | .00938 | -.00585 | .00293 | .04002 |
| SDev  | .00503 | .00017 | .00179 | .00084  | .00080 | .00027 |
| %RSD  | 266.98 | 1.3283 | 19.088 | 14.322  | 27.152 | .66904 |

|    |         |        |        |         |        |        |
|----|---------|--------|--------|---------|--------|--------|
| #1 | -.00167 | .01300 | .00811 | -.00644 | .00237 | .04021 |
| #2 | .00544  | .01324 | .01065 | -.00526 | .00350 | .03983 |

|        |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13270    | --      | --      | --      | --      | --      | --      |
| SDev   | 57.24043 | --      | --      | --      | --      | --      | --      |
| %RSD   | .4313448 | --      | --      | --      | --      | --      | --      |
| #1     | 13230    | --      | --      | --      | --      | --      | --      |
| #2     | 13311    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DN7CJ

Operator: RJG

Run Time: 11/08/00 17:44:09

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00338  | 29.626  | .02181  | .58342  | .00597  | 26.042  | .00015  |
| SDev   | .00036  | .062    | .00157  | .00115  | .00008  | .033    | .00016  |
| %RSD   | 10.543  | .20957  | 7.2108  | .19660  | 1.3124  | .12699  | 109.78  |
| #1     | .00312  | 29.582  | .02293  | .58423  | .00603  | 26.066  | .00026  |
| #2     | .00363  | 29.670  | .02070  | .58261  | .00591  | 26.019  | .00003  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .06547  | 8.7737  | .26579  | 29.681  | 2.7717  | 1.3756  | .65387  |
| SDev   | .00069  | .0038   | .00014  | .044    | .0035   | .0002   | .00136  |
| %RSD   | 1.0484  | .04380  | .05112  | .14680  | .12477  | .01431  | .20819  |
| #1     | .06499  | 8.7764  | .26570  | 29.651  | 2.7693  | 1.3757  | .65483  |
| #2     | .06596  | 8.7709  | .26589  | 29.712  | 2.7742  | 1.3754  | .65291  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 2.6393  | .01679  | .01449  | .01526  | -.01418 | .00199  | -.00340 |
| SDev   | .0138   | .00371  | .00012  | .00115  | .00231  | .00185  | .00200  |
| %RSD   | .52267  | 22.073  | .85554  | 7.5480  | 16.256  | 93.071  | 58.994  |
| #1     | 2.6491  | .01417  | .01458  | .01445  | -.01255 | .00330  | -.00198 |
| #2     | 2.6296  | .01942  | .01441  | .01607  | -.01581 | .00068  | -.00481 |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00657  | .00754  | .00722  | -.00353 | .10585  | .10893  |         |
| SDev   | .00048  | .00237  | .00174  | .00185  | .00035  | .00034  |         |
| %RSD   | 7.2694  | 31.386  | 24.081  | 52.472  | .32734  | .31319  |         |
| #1     | .00623  | .00587  | .00599  | -.00484 | .10560  | .10917  |         |
| #2     | .00690  | .00922  | .00845  | -.00222 | .10609  | .10868  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13700    | --      | --      | --      | --      | --      | --      |
| SDev   | 139.5825 | --      | --      | --      | --      | --      | --      |
| %RSD   | 1.018843 | --      | --      | --      | --      | --      | --      |
|        |          |         |         |         |         |         |         |
| #1     | 13601    | --      | --      | --      | --      | --      | --      |
| #2     | 13799    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN7CL

Operator: RJG

Run Time: 11/08/00 17:48:19

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00142  | 4.7127  | .04471  | .20842  | .00388  | 11.672  | .00108  |
| SDev   | .00046  | .0563   | .00022  | .00145  | .00029  | .089    | .00003  |
| %RSD   | 32.308  | 1.1945  | .50246  | .69543  | 7.5216  | .76181  | 2.6885  |
| #1     | .00109  | 4.6729  | .04455  | .20740  | .00409  | 11.609  | .00106  |
| #2     | .00174  | 4.7525  | .04487  | .20945  | .00368  | 11.735  | .00110  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .05288  | .07106  | .09356  | 5.5632  | 3.6549  | .24017  | .08688  |
| SDev   | .00055  | .00013  | .00112  | .0814   | .0395   | .00216  | .00006  |
| %RSD   | 1.0357  | .17908  | 1.1949  | 1.4638  | 1.0800  | .90100  | .06865  |
| #1     | .05249  | .07097  | .09277  | 5.5056  | 3.6270  | .23864  | .08692  |
| #2     | .05327  | .07115  | .09435  | 5.6208  | 3.6828  | .24170  | .08683  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .09796  | .00968  | .00339  | .00548  | -.00014 | .00387  | .00253  |
| SDev   | .00044  | .00040  | .00194  | .00116  | .00049  | .00004  | .00014  |
| %RSD   | .45398  | 4.1241  | 57.255  | 21.158  | 343.01  | 1.0076  | 5.3537  |
| #1     | .09765  | .00940  | .00476  | .00630  | .00020  | .00384  | .00263  |
| #2     | .09828  | .00996  | .00201  | .00466  | -.00048 | .00390  | .00244  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00596  | .00896  | .00796  | -.00469 | .09645  | .61386  |         |
| SDev   | .00121  | .00099  | .00026  | .00459  | .00048  | .00131  |         |
| %RSD   | 20.382  | 11.042  | 3.2088  | 97.998  | .49649  | .21386  |         |
| #1     | .00682  | .00826  | .00778  | -.00794 | .09611  | .61293  |         |
| #2     | .00510  | .00966  | .00814  | -.00144 | .09679  | .61478  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13844    | --      | --      | --      | --      | --      | --      |
| SDev   | 9.369165 | --      | --      | --      | --      | --      | --      |
| %RSD   | .0676790 | --      | --      | --      | --      | --      | --      |
| #1     | 13837    | --      | --      | --      | --      | --      | --      |
| #2     | 13850    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN7CV

Operator: RJG

Run Time: 11/08/00 17:52:30

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00166  | 3.4527  | .20744  | .38804  | .00360  | 36.978  | .00072  |
| SDev   | .00023  | .0165   | .00285  | .00062  | .00004  | .137    | .00013  |
| %RSD   | 14.002  | .47753  | 1.3747  | .15974  | 1.1548  | .37135  | 17.428  |
| #1     | .00183  | 3.4410  | .20542  | .38760  | .00363  | 36.881  | .00081  |
| #2     | .00150  | 3.4643  | .20945  | .38847  | .00357  | 37.075  | .00063  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .03364  | .01961  | .05085  | 191.18  | 8.0241  | .55718  | .03334  |
| SDev   | .00004  | .00027  | .00047  | .81     | .0324   | .00207  | .00066  |
| %RSD   | .12677  | 1.3690  | .93296  | .42277  | .40389  | .37157  | 1.9713  |
| #1     | .03361  | .01942  | .05051  | 190.60  | 8.0012  | .55572  | .03287  |
| #2     | .03367  | .01980  | .05118  | 191.75  | 8.0471  | .55864  | .03380  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .09882  | .01053  | .00050  | .00384  | -.00003 | .00764  | .00509  |
| SDev   | .00068  | .00107  | .00019  | .00022  | .00211  | .00032  | .00091  |
| %RSD   | .68371  | 10.128  | 39.310  | 5.8630  | 6448.3  | 4.1641  | 17.963  |
| #1     | .09834  | .01129  | .00036  | .00400  | -.00152 | .00742  | .00444  |
| #2     | .09929  | .00978  | .00063  | .00368  | .00146  | .00787  | .00573  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .02111  | .02712  | .02512  | -.00111 | .11814  | .10335  |         |
| SDev   | .00205  | .00369  | .00314  | .00147  | .00022  | .00029  |         |
| %RSD   | 9.7343  | 13.595  | 12.514  | 131.79  | .18358  | .28406  |         |
| #1     | .02257  | .02972  | .02734  | -.00215 | .11799  | .10314  |         |
| #2     | .01966  | .02451  | .02289  | -.00008 | .11830  | .10356  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13843    | --      | --      | --      | --      | --      | --      |
| SDev   | 52.57311 | --      | --      | --      | --      | --      | --      |
| %RSD   | .3797723 | --      | --      | --      | --      | --      | --      |
| #1     | 13880    | --      | --      | --      | --      | --      | --      |
| #2     | 13806    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN9AF

Operator: RJG

Run Time: 11/08/00 17:56:40

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00122  | 23.996  | .01004  | 1.1100  | .00219  | 32.632  | .00002  |
| SDev   | .00046  | .090    | .00174  | .0016   | .00005  | .109    | .00025  |
| %RSD   | 37.716  | .37561  | 17.345  | .14582  | 2.1254  | .33297  | 1155.4  |
| #1     | .00155  | 23.932  | .00881  | 1.1089  | .00216  | 32.709  | .00020  |
| #2     | .00090  | 24.060  | .01128  | 1.1111  | .00222  | 32.555  | -.00016 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .02854  | .01507  | .03709  | 22.123  | 9.7646  | .33852  | .00338  |
| SDev   | .00000  | .00103  | .00048  | .016    | .0070   | .00039  | .00144  |
| %RSD   | .01339  | 6.8489  | 1.2867  | .07165  | .07180  | .11421  | 42.601  |
| #1     | .02854  | .01580  | .03675  | 22.134  | 9.7695  | .33879  | .00440  |
| #2     | .02854  | .01434  | .03743  | 22.111  | 9.7596  | .33824  | .00236  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .04795  | .00754  | .00311  | .00459  | .00046  | .00204  | .00151  |
| SDev   | .00049  | .00364  | .00068  | .00076  | .00422  | .00472  | .00174  |
| %RSD   | 1.0142  | 48.295  | 21.938  | 16.525  | 926.35  | 231.59  | 115.36  |
| #1     | .04830  | .01012  | .00263  | .00512  | -.00253 | .00537  | .00274  |
| #2     | .04761  | .00497  | .00359  | .00405  | .00344  | -.00130 | .00028  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | .00029  | .00256  | .00180  | -.00242 | .02455  | .01285  |         |
| SDev   | .00112  | .00315  | .00173  | .00196  | .00088  | .00014  |         |
| %RSD   | 393.41  | 123.01  | 95.782  | 81.001  | 3.5937  | 1.0491  |         |
| #1     | .00108  | .00033  | .00058  | -.00104 | .02518  | .01294  |         |
| #2     | -.00051 | .00478  | .00302  | -.00381 | .02393  | .01275  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13729    | --      | --      | --      | --      | --      | --      |
| SDev   | 82.87236 | --      | --      | --      | --      | --      | --      |
| %RSD   | .6036322 | --      | --      | --      | --      | --      | --      |
|        |          |         |         |         |         |         |         |
| #1     | 13670    | --      | --      | --      | --      | --      | --      |
| #2     | 13788    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: DN9AFP5

Operator: RJG

Run Time: 11/08/00 18:00:51

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | BA     | BE      | CA     | CD     |
|-------|--------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00137 | 4.6124 | .00149 | .22322 | -.00182 | 6.5392 | .00015 |
| SDev  | .00001 | .0055  | .00065 | .00043 | .00019  | .0016  | .00015 |
| %RSD  | .78873 | .12014 | 43.586 | .19422 | 10.672  | .02446 | 103.49 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .00138 | 4.6085 | .00195 | .22352 | -.00168 | 6.5381 | .00004 |
| #2 | .00136 | 4.6163 | .00103 | .22291 | -.00196 | 6.5404 | .00026 |

| Elem  | CO     | CR     | CU     | FE     | MG     | MN     | MO     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00592 | .00425 | .00977 | 4.4368 | 1.9341 | .06812 | .00133 |
| SDev  | .00033 | .00004 | .00086 | .0063  | .0092  | .00010 | .00081 |
| %RSD  | 5.5880 | .97692 | 8.8138 | .14188 | .47717 | .13988 | 60.793 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00569 | .00427 | .00916 | 4.4323 | 1.9275 | .06805 | .00076 |
| #2 | .00616 | .00422 | .01037 | 4.4412 | 1.9406 | .06818 | .00191 |

| Elem  | NI     | PB/1   | PB/2    | PB     | SB/1    | SB/2   | SB     |
|-------|--------|--------|---------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avge  | .01216 | .00526 | -.00069 | .00129 | -.00297 | .00268 | .00080 |
| SDev  | .00097 | .00144 | .00135  | .00042 | .00371  | .00364 | .00119 |
| %RSD  | 8.0159 | 27.374 | 194.59  | 32.648 | 124.89  | 135.87 | 149.53 |

|    |        |        |         |        |         |        |         |
|----|--------|--------|---------|--------|---------|--------|---------|
| #1 | .01147 | .00628 | -.00165 | .00099 | -.00560 | .00525 | .00164  |
| #2 | .01285 | .00424 | .00026  | .00159 | -.00035 | .00011 | -.00005 |

| Elem  | SE/1   | SE/2   | SE     | TL      | V      | ZN     |
|-------|--------|--------|--------|---------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avge  | .00321 | .00036 | .00131 | -.00117 | .00440 | .00329 |
| SDev  | .00114 | .00175 | .00078 | .00117  | .00314 | .00001 |
| %RSD  | 35.489 | 490.43 | 59.981 | 99.644  | 71.309 | .31204 |

|    |        |         |        |         |        |        |
|----|--------|---------|--------|---------|--------|--------|
| #1 | .00402 | -.00088 | .00075 | -.00035 | .00218 | .00328 |
| #2 | .00241 | .00159  | .00186 | -.00200 | .00662 | .00329 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13662    | --      | --      | --      | --      | --      | --      |
| SDev   | 57.02844 | --      | --      | --      | --      | --      | --      |
| %RSD   | .4174123 | --      | --      | --      | --      | --      | --      |
| #1     | 13703    | --      | --      | --      | --      | --      | --      |
| #2     | 13622    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN9AFS

Operator: RJG

Run Time: 11/08/00 18:05:01

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .04640  | 20.792  | 1.7590  | 2.6330  | .04769  | 28.663  | .04311  |
| SDev   | .00014  | .216    | .0244   | .0404   | .00070  | .354    | .00096  |
| %RSD   | .30851  | 1.0366  | 1.3866  | 1.5359  | 1.4639  | 1.2348  | 2.2152  |
| #1     | .04650  | 20.945  | 1.7763  | 2.6616  | .04819  | 28.913  | .04379  |
| #2     | .04629  | 20.640  | 1.7418  | 2.6044  | .04720  | 28.413  | .04244  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .48653  | .19605  | .24862  | 16.511  | 7.7111  | .71127  | .00186  |
| SDev   | .00387  | .00187  | .00310  | .157    | .0903   | .00795  | .00072  |
| %RSD   | .79586  | .95531  | 1.2450  | .95205  | 1.1713  | 1.1178  | 39.022  |
| #1     | .48927  | .19738  | .25081  | 16.622  | 7.7750  | .71689  | .00237  |
| #2     | .48380  | .19473  | .24643  | 16.399  | 7.6472  | .70565  | .00135  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .50085  | .42310  | .41153  | .41538  | -.00224 | .00101  | -.00007 |
| SDev   | .00760  | .00365  | .00010  | .00115  | .00044  | .00325  | .00231  |
| %RSD   | 1.5180  | .86288  | .02492  | .27621  | 19.692  | 322.67  | 3154.8  |
| #1     | .50623  | .42568  | .41146  | .41620  | -.00255 | -.00129 | -.00171 |
| #2     | .49548  | .42051  | .41161  | .41457  | -.00192 | .00330  | .00156  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | 1.7545  | 1.7597  | 1.7580  | 1.4798  | .45852  | .46848  |         |
| SDev   | .0086   | .0138   | .0121   | .0113   | .00635  | .00649  |         |
| %RSD   | .49078  | .78606  | .68792  | .76121  | 1.3856  | 1.3847  |         |
| #1     | 1.7606  | 1.7695  | 1.7665  | 1.4878  | .46301  | .47306  |         |
| #2     | 1.7484  | 1.7499  | 1.7494  | 1.4719  | .45403  | .46389  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13841    | --      | --      | --      | --      | --      | --      |
| SDev   | 106.1724 | --      | --      | --      | --      | --      | --      |
| %RSD   | .7670678 | --      | --      | --      | --      | --      | --      |
| #1     | 13766    | --      | --      | --      | --      | --      | --      |
| #2     | 13916    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: DN9AFD Operator: RJG  
 Run Time: 11/08/00 18:09:11  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP  
 Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .04693  | 20.864  | 1.7674  | 2.6388  | .04882  | 25.590  | .04420  |
| SDev   | .00002  | .114    | .0037   | .0007   | .00001  | .091    | .00033  |
| %RSD   | .04183  | .54875  | .20958  | .02555  | .01006  | .35488  | .74927  |
| #1     | .04695  | 20.783  | 1.7648  | 2.6383  | .04883  | 25.525  | .04396  |
| #2     | .04692  | 20.945  | 1.7700  | 2.6393  | .04882  | 25.654  | .04443  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 10.000  | 10.000  | 10.000  | 600.00  | 5.0000  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .49442  | .19643  | .26075  | 17.067  | 7.3451  | .70224  | .00231  |
| SDev   | .00220  | .00064  | .00093  | .068    | .0356   | .00349  | .00024  |
| %RSD   | .44572  | .32824  | .35757  | .39999  | .48505  | .49666  | 10.480  |
| #1     | .49286  | .19597  | .26009  | 17.019  | 7.3199  | .69978  | .00248  |
| #2     | .49598  | .19688  | .26141  | 17.115  | 7.3703  | .70471  | .00213  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 10.000  | 500.00  | 600.00  | 10.000  | 20.000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .50219  | .42758  | .42039  | .42278  | -.00276 | .00365  | .00152  |
| SDev   | .00029  | .00136  | .00244  | .00208  | .00397  | .00116  | .00055  |
| %RSD   | .05792  | .31914  | .58093  | .49277  | 143.78  | 31.726  | 36.091  |
| #1     | .50240  | .42662  | .41866  | .42131  | -.00556 | .00447  | .00113  |
| #2     | .50198  | .42855  | .42212  | .42426  | .00005  | .00283  | .00191  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 100.00  |         |         | 5.0000  |         |         | 10.000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |
| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avge   | 1.7444  | 1.7607  | 1.7552  | 1.4572  | .46219  | .48181  |         |
| SDev   | .0193   | .0023   | .0080   | .0022   | .00086  | .00135  |         |
| %RSD   | 1.1037  | .13207  | .45362  | .15384  | .18607  | .27915  |         |
| #1     | 1.7307  | 1.7590  | 1.7496  | 1.4588  | .46158  | .48086  |         |
| #2     | 1.7580  | 1.7623  | 1.7609  | 1.4556  | .46280  | .48276  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | 10.000  | 10.000  | 50.000  | 5.0000  |         |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13774    | --      | --      | --      | --      | --      | --      |
| SDev   | 87.82280 | --      | --      | --      | --      | --      | --      |
| %RSD   | .6376099 | --      | --      | --      | --      | --      | --      |
| #1     | 13836    | --      | --      | --      | --      | --      | --      |
| #2     | 13712    | --      | --      | --      | --      | --      | --      |

Method: METTRA Sample Name: CCV3-11

Operator: RJG

Run Time: 11/08/00 18:13:22

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 1.0553  | 25.471  | .50924  | 2.0559  | 2.0623  | 50.825  | .49274  |
| SDev   | .0005   | .035    | .00107  | .0018   | .0028   | .002    | .00080  |
| %RSD   | .04775  | .13871  | .20931  | .08671  | .13544  | .00364  | .16238  |
| #1     | 1.0549  | 25.446  | .50848  | 2.0571  | 2.0603  | 50.824  | .49217  |
| #2     | 1.0556  | 25.496  | .50999  | 2.0546  | 2.0643  | 50.827  | .49330  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 1.1000  | 27.500  | .55000  | 2.2000  | 2.2000  | 55.000  | .55000  |
| Low    | .90000  | 22.500  | .45000  | 1.8000  | 1.8000  | 45.000  | .45000  |
| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 2.0454  | 2.0457  | 2.0405  | 25.309  | 49.768  | 2.0150  | 2.0438  |
| SDev   | .0078   | .0031   | .0008   | .095    | .079    | .0034   | .0119   |
| %RSD   | .37900  | .15365  | .03684  | .37347  | .15872  | .16718  | .58243  |
| #1     | 2.0400  | 2.0435  | 2.0399  | 25.242  | 49.712  | 2.0126  | 2.0354  |
| #2     | 2.0509  | 2.0480  | 2.0410  | 25.376  | 49.824  | 2.0174  | 2.0522  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.2000  | 2.2000  | 2.2000  | 27.500  | 55.000  | 2.2000  | 2.2000  |
| Low    | 1.8000  | 1.8000  | 1.8000  | 22.500  | 45.000  | 1.8000  | 1.8000  |
| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 2.0485  | .51165  | .50538  | .50747  | .50994  | .52068  | .51710  |
| SDev   | .0039   | .00170  | .00461  | .00364  | .00482  | .00401  | .00107  |
| %RSD   | .19024  | .33194  | .91192  | .71720  | .94609  | .77076  | .20697  |
| #1     | 2.0513  | .51045  | .50212  | .50490  | .50653  | .52351  | .51786  |
| #2     | 2.0457  | .51285  | .50864  | .51004  | .51335  | .51784  | .51634  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | 2.2000  |         |         | .55000  |         |         | .55000  |
| Low    | 1.8000  |         |         | .45000  |         |         | .45000  |
| Elem   | SE/1    | SE/2    | SE      | TL      | V       | ZN      |         |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |         |
| Avg    | .51905  | .52395  | .52232  | 1.0326  | 2.0544  | 2.0908  |         |
| SDev   | .00187  | .00555  | .00308  | .0026   | .0061   | .0075   |         |
| %RSD   | .36111  | 1.0596  | .58946  | .24915  | .29917  | .35655  |         |
| #1     | .52038  | .52002  | .52014  | 1.0344  | 2.0500  | 2.0856  |         |
| #2     | .51773  | .52787  | .52449  | 1.0308  | 2.0587  | 2.0961  |         |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |         |
| High   |         |         | .55000  | 1.1000  | 2.2000  | 2.2000  |         |
| Low    |         |         | .45000  | .90000  | 1.8000  | 1.8000  |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13486    | --      | --      | --      | --      | --      | --      |
| SDev   | 57.73555 | --      | --      | --      | --      | --      | --      |
| %RSD   | .4281107 | --      | --      | --      | --      | --      | --      |
|        |          |         |         |         |         |         |         |
| #1     | 13527    | --      | --      | --      | --      | --      | --      |
| #2     | 13445    | --      | --      | --      | --      | --      | --      |



Method: METTRA Sample Name: CCB11

Operator: RJG

Run Time: 11/08/00 18:17:33

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | BA      | BE      | CA      | CD      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00149  | -.01728 | .00078  | .00127  | -.00229 | .02506  | .00026  |
| SDev   | .00014  | .00873  | .00145  | .00017  | .00000  | .00224  | .00011  |
| %RSD   | 9.4345  | 50.520  | 187.41  | 13.833  | .20749  | 8.9562  | 44.648  |
| #1     | .00139  | -.01111 | .00180  | .00114  | -.00229 | .02347  | .00034  |
| #2     | .00159  | -.02345 | -.00025 | .00139  | -.00228 | .02664  | .00018  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .01000  | .20000  | .00500  | 5.0000  | .00500  |
| Low    | -.01000 | -.20000 | -.01000 | -.20000 | -.00500 | -5.0000 | -.00500 |

| Elem   | CO      | CR      | CU      | FE      | MG      | MN      | MO      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00114  | .00159  | .00375  | .01999  | .02293  | .00080  | .00431  |
| SDev   | .00016  | .00016  | .00043  | .00687  | .00363  | .00010  | .00215  |
| %RSD   | 13.938  | 9.9531  | 11.547  | 34.361  | 15.810  | 11.919  | 49.726  |
| #1     | .00102  | .00148  | .00345  | .02485  | .02036  | .00073  | .00583  |
| #2     | .00125  | .00170  | .00406  | .01514  | .02549  | .00087  | .00280  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .05000  | .01000  | .02500  | .10000  | 5.0000  | .01500  | .04000  |
| Low    | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.01500 | -.04000 |

| Elem   | NI      | PB/1    | PB/2    | PB      | SB/1    | SB/2    | SB      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00377  | .00371  | -.00089 | .00064  | -.00225 | .00101  | -.00007 |
| SDev   | .00083  | .00056  | .00058  | .00057  | .00283  | .00287  | .00097  |
| %RSD   | 22.041  | 15.230  | 65.107  | 90.114  | 125.76  | 283.05  | 1327.3  |
| #1     | .00318  | .00331  | -.00130 | .00023  | -.00025 | -.00102 | -.00076 |
| #2     | .00435  | .00410  | -.00048 | .00105  | -.00425 | .00304  | .00061  |
| Errors | LC Pass | NOCHECK | NOCHECK | LC Pass | NOCHECK | NOCHECK | LC Pass |
| High   | .04000  |         |         | .00300  |         |         | .06000  |
| Low    | -.04000 |         |         | -.00300 |         |         | -.06000 |

| Elem   | SE/1    | SE/2    | SE      | TL      | V_      | ZN      |
|--------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00091 | .00245  | .00133  | .00173  | .00179  | .00132  |
| SDev   | .00079  | .00210  | .00114  | .00007  | .00000  | .00026  |
| %RSD   | 86.672  | 85.494  | 85.227  | 3.8081  | .14918  | 19.809  |
| #1     | -.00146 | .00393  | .00214  | .00168  | .00179  | .00114  |
| #2     | -.00035 | .00097  | .00053  | .00177  | .00179  | .00151  |
| Errors | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass | LC Pass |
| High   |         |         | .00500  | .01000  | .05000  | .02000  |
| Low    |         |         | -.00500 | -.01000 | -.05000 | -.02000 |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Counts   | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | Y        | --      | --      | --      | --      | --      | --      |
| Wavlen | 371.030  | --      | --      | --      | --      | --      | --      |
| Avge   | 13586    | --      | --      | --      | --      | --      | --      |
| SDev   | 3.960212 | --      | --      | --      | --      | --      | --      |
| %RSD   | .0291496 | --      | --      | --      | --      | --      | --      |
| #1     | 13583    | --      | --      | --      | --      | --      | --      |
| #2     | 13589    | --      | --      | --      | --      | --      | --      |

# STL - Pittsburgh

Metals Preparation Log  
Logbook ID: MT1

| Method      | 30SD8                 | Matrix    | Soil                                                                                                                                                 | Start Time                   | 1000                                                                                                 | Reagents:  | 6ml 11% H <sub>2</sub> O <sub>2</sub>                        | 4.5ml Conc H <sub>2</sub> O <sub>2</sub> | 5ml Conc H <sub>2</sub> O <sub>2</sub> | 5ml Conc HCl | 50B3AN41A07-malincKred+ |
|-------------|-----------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------|------------------------------------------|----------------------------------------|--------------|-------------------------|
| Analyst     | <i>Agnes H. H. H.</i> | Date      | 11-16-00 <th>Lot Number</th> <td>105310200 <th>Balance #:</th> <td>094817 <th>Pre</th> <th>Post</th> <th>Pre</th> <th>Post</th> </td></td>           | Lot Number                   | 105310200 <th>Balance #:</th> <td>094817 <th>Pre</th> <th>Post</th> <th>Pre</th> <th>Post</th> </td> | Balance #: | 094817 <th>Pre</th> <th>Post</th> <th>Pre</th> <th>Post</th> | Pre                                      | Post                                   | Pre          | Post                    |
| Reviewed by | <i>W. H. H.</i>       | Date      | 11-16-00 <th>Lab Lot # (book, page, line)</th> <td>0057-093-1 <th>Pre</th> <th>Post</th> <th>Pre</th> <th>Post</th> <th>Pre</th> <th>Post</th> </td> | Lab Lot # (book, page, line) | 0057-093-1 <th>Pre</th> <th>Post</th> <th>Pre</th> <th>Post</th> <th>Pre</th> <th>Post</th>          | Pre        | Post                                                         | Pre                                      | Post                                   | Pre          | Post                    |
| SDG         | MS                    | MS        | MSB12EV                                                                                                                                              | Lab Lot # (book, page, line) | 0057-093-1 <th>Pre</th> <th>Post</th> <th>Pre</th> <th>Post</th> <th>Pre</th> <th>Post</th>          | Pre        | Post                                                         | Pre                                      | Post                                   | Pre          | Post                    |
| Sample ID   | Initial Wt/Vol        | Final Vol | Comments                                                                                                                                             | Color                        | Clarity                                                                                              | Texture    | Artifacts                                                    | Artifacts Codes                          |                                        |              |                         |
| 1. DN4PL6   | 0.50g                 | 50ml      | CKT 11-16-00                                                                                                                                         |                              |                                                                                                      |            |                                                              | S=Stones                                 |                                        |              |                         |
| 2. DN4PL6S  |                       |           | +0.5ml MSB12EV                                                                                                                                       |                              |                                                                                                      |            |                                                              | O=Organic (plant mat)                    |                                        |              |                         |
| 3. DN4PL6D  |                       |           | CKT 11-16-00                                                                                                                                         |                              |                                                                                                      |            |                                                              | W=Free H <sub>2</sub> O                  |                                        |              |                         |
| 4. DN4Q5    |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              | G=Glass                                  |                                        |              |                         |
| 5. DN4QK    |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              | M=Metal Fragments                        |                                        |              |                         |
| 6. DPDBK B  |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              | R=Rubber/Plastic                         |                                        |              |                         |
| 7. DPDBK C  | 0.5ml DPDBK           |           | +0.5ml MSB12EV                                                                                                                                       |                              |                                                                                                      |            |                                                              | C=Cloth                                  |                                        |              |                         |
| 8.          |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              | P=Paper                                  |                                        |              |                         |
| 9.          |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              | I=Insects                                |                                        |              |                         |
| 10.         |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              |                                          |                                        |              |                         |
| 11.         |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              |                                          |                                        |              |                         |
| 12.         |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              |                                          |                                        |              |                         |
| 13.         |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              |                                          |                                        |              |                         |
| 14.         |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              |                                          |                                        |              |                         |
| 15.         |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              |                                          |                                        |              |                         |
| 16.         |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              |                                          |                                        |              |                         |
| 17.         |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              |                                          |                                        |              |                         |
| 18.         |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              |                                          |                                        |              |                         |
| 19.         |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              |                                          |                                        |              |                         |
| 20.         |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              |                                          |                                        |              |                         |
| 21.         |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              |                                          |                                        |              |                         |
| 22.         |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              |                                          |                                        |              |                         |
| 23.         |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              |                                          |                                        |              |                         |
| 24.         |                       |           |                                                                                                                                                      |                              |                                                                                                      |            |                                                              |                                          |                                        |              |                         |

| Digestate(s) | Date     | Time | (Received) | Analyst | Location | Date     | Time | (Relinquished) | Analyst | Location |
|--------------|----------|------|------------|---------|----------|----------|------|----------------|---------|----------|
| 14.1 Agnes   | 11-16-00 | 1500 |            | CKT     | Met Prep | 11-16-00 | 1500 |                | CKT     | Met Prep |
| All Agnes    | 11-16-00 | 1645 |            | CKT     | Met Prep | 11-16-00 | 1745 |                | CKT     | Met Prep |
| All Agnes    | 11-16-00 | 1745 |            | CKT     | Met Prep | 11-16-00 | 1800 |                | CKT     | Met Prep |

| Hot Plate/Block Temp | Correction Factor |
|----------------------|-------------------|
| # 9/95°C             | -0.8°C            |

| Re=Red                                          | Y=Yellow                     | W=White     |
|-------------------------------------------------|------------------------------|-------------|
| Bl=Blue <td>O=Orange <td>Gr=Gray </td></td>     | O=Orange <td>Gr=Gray </td>   | Gr=Gray     |
| Br=Brown <td>V=Violet <td>GN=Green </td></td>   | V=Violet <td>GN=Green </td>  | GN=Green    |
| Blk=Black <td>P=Pink <td>C=Colorless </td></td> | P=Pink <td>C=Colorless </td> | C=Colorless |

674 743

PSR024 11/06/00 7 11.18 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 006

REQUESTED BY: RIZZOC

METHOD: QM Inductively Coupled Plasma (6010B Trace)

| <u>STORAGE LOCATION</u> | <u>WORK ORDER #</u> | <u>PICKED</u><br><u>CNTR#</u> | <u>CONTROL #</u> | <u>CLIENT #</u> | <u>ANALYSIS</u> | <u>LOTID</u> | <u>SMP#</u> | <u>SFX</u> | <u>MATRIX</u><br><u>DESCRIPTION</u> | <u>QTY</u><br><u>RCVD</u> | <u>QTY</u><br><u>REQD</u> |
|-------------------------|---------------------|-------------------------------|------------------|-----------------|-----------------|--------------|-------------|------------|-------------------------------------|---------------------------|---------------------------|
| 12D CLP1                | DN4P6               | — — —                         | 280985           | 399411          | A-46-QM         | C0J310200    | 001         |            | SOLID                               | 0                         | 3 1                       |
| 12D CLP1                | DN4QJ               | — — —                         | 280986           | 399411          | A-46-QM         | C0J310200    | 002         |            | SOLID                               | 0                         | 3 1                       |
| 12D CLP1                | DN4QK               | — — —                         | 280987           | 399411          | A-46-QM         | C0J310200    | 003         |            | SOLID                               | 0                         | 3 1                       |

RELINQUISHED BYRECEIVED BYDATE/TIME

*Am*  
*Cynthia A. [Signature]*

*Cynthia A. [Signature]*  
*[Signature]*

*11-6-00 1030*  
*11-6-00 1430*

674 744

**TCLP  
METALS DATA**

## STL-Pittsburgh

## Cover Page - Inorganic Analysis Data Package

| Client ID             | Lab Sample ID: |
|-----------------------|----------------|
| DF/24-A/0304/CVS/008  | DN4P6T         |
| DF/24-A/0304/CVS/008D | DN4P6DT        |
| DF/24-A/0304/CVS/008S | DN4P6ST        |
| DF/24-A/0304/CVS/010  | DN4QJT         |
| DF/24-A/0304/CVS/012  | DN4QKT         |

**Comments:** UXB, DUNN FIELD TCLP'S  
C0J310200  
6010B, 7470A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than conditions detailed above. Release of the data combined in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Title: \_\_\_\_\_

|                         |
|-------------------------|
| REVIEWED BY: <u>Euf</u> |
| DATE: <u>11-10-00</u>   |

674 746

TCLP  
METALS  
RESULTS

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: DN4P6T Client ID: DF/24-A/0304/CVS/008  
Matrix: Water Units: mg/L Prep Date: 11/4/00 Prep Batch: 0309113  
Weight: NA Volume: 50 Percent Moisture: NA

| Element  | WL/<br>Mass | MDL     | Report<br>Limit | Conc   | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|----------|-------------|---------|-----------------|--------|---|----|-------|--------------|--------------|
| Arsenic  | 193.7       | 0.030   | 0.50            | 0.20   | B | 1  | ICP   | 11/5/00      | 9:16         |
| Barium   | 493.41      | 0.00041 | 10.0            | 0.28   | B | 1  | ICP   | 11/5/00      | 9:16         |
| Cadmium  | 228.80      | 0.0028  | 0.10            | 0.0028 | U | 1  | ICP   | 11/5/00      | 9:16         |
| Chromium | 267.72      | 0.0038  | 0.50            | 0.0038 | U | 1  | ICP   | 11/5/00      | 9:16         |
| Lead     | 220.35      | 0.025   | 0.50            | 0.025  | U | 1  | ICP   | 11/5/00      | 9:16         |
| Selenium | 196.03      | 0.067   | 0.25            | 0.067  | U | 1  | ICP   | 11/5/00      | 9:16         |
| Silver   | 328.07      | 0.0031  | 0.50            | 0.0031 | U | 1  | ICP   | 11/5/00      | 9:16         |

Comments: Lot#: C0J310200 Sample#: 1 TCLP ANALYSIS

Version 4.10.2

U Result is less than the MDL

Form 1 Equivalent

B Result is between MDL and RL



674 748 STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DN4QJT Client ID: DF/24-A/0304/CVS/010  
 Matrix: Water Units: mg/L Prep Date: 11/4/00 Prep Batch: 0309113  
 Weight: NA Volume: 50 Percent Moisture: NA

| Element  | WL/<br>Mass | MDL     | Report<br>Limit | Conc   | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|----------|-------------|---------|-----------------|--------|---|----|-------|--------------|--------------|
| Arsenic  | 193.7       | 0.030   | 0.50            | 0.17   | B | 1  | ICP   | 11/5/00      | 9:28         |
| Barium   | 493.41      | 0.00041 | 10.0            | 1.0    | B | 1  | ICP   | 11/5/00      | 9:28         |
| Cadmium  | 228.80      | 0.0028  | 0.10            | 0.0039 | B | 1  | ICP   | 11/5/00      | 9:28         |
| Chromium | 267.72      | 0.0038  | 0.50            | 0.0059 | B | 1  | ICP   | 11/5/00      | 9:28         |
| Lead     | 220.35      | 0.025   | 0.50            | 0.025  | U | 1  | ICP   | 11/5/00      | 9:28         |
| Selenium | 196.03      | 0.067   | 0.25            | 0.067  | U | 1  | ICP   | 11/5/00      | 9:28         |
| Silver   | 328.07      | 0.0031  | 0.50            | 0.0031 | U | 1  | ICP   | 11/5/00      | 9:28         |

Comments: Lot#: C0J310200 Sample#: 2 TCLP ANALYSIS

Version 4.10.2

U Result is less than the MDL

Form 1 Equivalent

B Result is between MDL and RL

## STL-Pittsburgh

674 749

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: DN4QKT Client ID: DF/24-A/0304/CVS/012  
Matrix: Water Units: mg/L Prep Date: 11/4/00 Prep Batch: 0309113  
Weight: NA Volume: 50 Percent Moisture: NA

| Element  | WL/<br>Mass | MDL     | Report<br>Limit | Conc   | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|----------|-------------|---------|-----------------|--------|---|----|-------|--------------|--------------|
| Arsenic  | 193.7       | 0.030   | 0.50            | 0.21   | B | 1  | ICP   | 11/5/00      | 9:38         |
| Barium   | 493.41      | 0.00041 | 10.0            | 0.66   | B | 1  | ICP   | 11/5/00      | 9:38         |
| Cadmium  | 228.80      | 0.0028  | 0.10            | 0.0028 | U | 1  | ICP   | 11/5/00      | 9:38         |
| Chromium | 267.72      | 0.0038  | 0.50            | 0.0038 | U | 1  | ICP   | 11/5/00      | 9:38         |
| Lead     | 220.35      | 0.025   | 0.50            | 0.025  | U | 1  | ICP   | 11/5/00      | 9:38         |
| Selenium | 196.03      | 0.067   | 0.25            | 0.067  | U | 1  | ICP   | 11/5/00      | 9:38         |
| Silver   | 328.07      | 0.0031  | 0.50            | 0.0031 | U | 1  | ICP   | 11/5/00      | 9:38         |

Comments: Lot#: C0J310200 Sample#: 3 TCLP ANALYSIS

Version 4.10.2

U Result is less than the MDL

Form 1 Equivalent

B Result is between MDL and RL

674 750

STL-Pittsburgh

## Metals Data Reporting Form

Sample Results

Lab Sample ID: DN4P6T Client ID: DF/24-A/0304/CVS/008  
Matrix: Water Units: mg/L Prep Date: 11/6/00 Prep Batch: 0310101  
Weight: NA Volume: 100 Percent Moisture: NA

| Element | WL/<br>Mass | MDL      | Report<br>Limit | Conc     | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|----------|-----------------|----------|---|----|-------|--------------|--------------|
| Mercury | 253.7       | 0.000045 | 0.00020         | 0.000084 | B | 1  | CVAA  | 11/6/00      | 9:02         |

Comments: Lot#: C0J310200 Sample#: 1 TCLP ANALYSIS

Version 4.10.2

U Result is less than the MDL

Form 1 Equivalent

B Result is between MDL and RL

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: DN4QJT Client ID: DF/24-A/0304/CVS/010  
Matrix: Water Units: mg/L Prep Date: 11/6/00 Prep Batch: 0310101  
Weight: NA Volume: 100 Percent Moisture: NA

| Element | WL/<br>Mass | MDL      | Report<br>Limit | Conc     | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|----------|-----------------|----------|---|----|-------|--------------|--------------|
| Mercury | 253.7       | 0.000045 | 0.00020         | 0.000064 | B | 1  | CVAA  | 11/6/00      | 9:07         |

Comments: Lot#: C0J310200 Sample#: 2 TCLP ANALYSIS

Version 4.10.2

U Result is less than the MDL  
B Result is between MDL and RL

Form 1 Equivalent

674 752

STL-Pittsburgh

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: DN4QKT Client ID: DF/24-A/0304/CVS/012  
Matrix: Water Units: mg/L Prep Date: 11/6/00 Prep Batch: 0310101  
Weight: NA Volume: 100 Percent Moisture: NA

| Element | WL/<br>Mass | MDL      | Report<br>Limit | Conc     | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|----------|-----------------|----------|---|----|-------|--------------|--------------|
| Mercury | 253.7       | 0.000045 | 0.00020         | 0.000045 | U | 1  | CVAA  | 11/6/00      | 9:09         |

Comments: Lot#: C0J310200 Sample#: 3 TCLP ANALYSIS

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 1 Equivalent

**STL-Pittsburgh**  
Metals Data Reporting Form

674 753

**Initial Calibration Verification Standard**

**Instrument:** CVAA

**Units:** ug/L

**Chart Number:** 1106HGA.PRN

**Acceptable Range:** 90% - 110%

**Standard Source:** Ultra

**Standard ID:** 0057-139-5

|         |             |              |                              |          |            |          |            |          |            |          |
|---------|-------------|--------------|------------------------------|----------|------------|----------|------------|----------|------------|----------|
|         |             |              | ICV5-1<br>11/6/00<br>8:44 AM |          |            |          |            |          |            |          |
|         | WL/<br>Mass | True<br>Conc | %<br>Found                   | %<br>Rec | %<br>Found | %<br>Rec | %<br>Found | %<br>Rec | %<br>Found | %<br>Rec |
| Mercury | 253.7       | 2.5          | 2.56                         | 102.4    |            |          |            |          |            |          |

## Metals Data Reporting Form

## Initial Calibration Verification Standard

Instrument: ICPUnits: ug/LChart Number: J01105A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0057-120-2

| Element  | WL/<br>Mass | True<br>Conc | ICV2-1<br>11/5/00<br>8:52 AM |          |       |          |       |          |       |          |
|----------|-------------|--------------|------------------------------|----------|-------|----------|-------|----------|-------|----------|
|          |             |              | Found                        | %<br>Rec | Found | %<br>Rec | Found | %<br>Rec | Found | %<br>Rec |
| Arsenic  | 193.696     | 1000.0       | 1047.59                      | 104.8    |       |          |       |          |       |          |
| Barium   | 493.409     | 1000.0       | 998.21                       | 99.8     |       |          |       |          |       |          |
| Cadmium  | 228.802     | 1000.0       | 1014.63                      | 101.5    |       |          |       |          |       |          |
| Chromium | 267.716     | 1000.0       | 1011.98                      | 101.2    |       |          |       |          |       |          |
| Lead     | 220.353     | 1000.0       | 1041.43                      | 104.1    |       |          |       |          |       |          |
| Selenium | 196.026     | 1000.0       | 1023.20                      | 102.3    |       |          |       |          |       |          |
| Silver   | 328.068     | 500.0        | 508.90                       | 101.8    |       |          |       |          |       |          |

**STL-Pittsburgh**  
Metals Data Reporting Form

**674 755**

Continuing Calibration Verification

Instrument: CVAA

Units: ug/L

Chart Number: 1106HGA.PRN

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: 0057-139-7

| Element | WL/<br>Mass | True<br>Conc | CCV5-1<br>11/6/00<br>8:49 AM |          | CCV5-2<br>11/6/00<br>9:10 AM |          |       |          |       |          |
|---------|-------------|--------------|------------------------------|----------|------------------------------|----------|-------|----------|-------|----------|
|         |             |              | Found                        | %<br>Rec | Found                        | %<br>Rec | Found | %<br>Rec | Found | %<br>Rec |
| Mercury | 253.7       | 5.0          | 5.03                         | 100.6    | 5.15                         | 103.0    |       |          |       |          |



**674 756 STL-Pittsburgh**  
Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICP

Units: ug/L

Chart Number: J01105A.ARC

Acceptable Range: 90% - 110%

Standard Source: Inorganic Ventures

Standard ID: 0057-122-1

| Element  | WL/<br>Mass | True<br>Conc | CCV2-1<br>11/5/00<br>9:32 AM |          | CCV2-2<br>11/5/00<br>10:04 AM |          |       |          |       |          |
|----------|-------------|--------------|------------------------------|----------|-------------------------------|----------|-------|----------|-------|----------|
|          |             |              | Found                        | %<br>Rec | Found                         | %<br>Rec | Found | %<br>Rec | Found | %<br>Rec |
| Arsenic  | 193.696     | 5000.0       | 5243.18                      | 104.9    | 5187.97                       | 103.8    |       |          |       |          |
| Barium   | 493.409     | 5000.0       | 4819.75                      | 96.4     | 4774.36                       | 95.5     |       |          |       |          |
| Cadmium  | 228.802     | 5000.0       | 5104.15                      | 102.1    | 5069.97                       | 101.4    |       |          |       |          |
| Chromium | 267.716     | 5000.0       | 4968.48                      | 99.4     | 4970.23                       | 99.4     |       |          |       |          |
| Lead     | 220.353     | 5000.0       | 5080.93                      | 101.6    | 5077.10                       | 101.5    |       |          |       |          |
| Selenium | 196.026     | 5000.0       | 5023.15                      | 100.5    | 5033.81                       | 100.7    |       |          |       |          |
| Silver   | 328.068     | 1000.0       | 990.81                       | 99.1     | 984.58                        | 98.5     |       |          |       |          |

## Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 1106HGA.PRN

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

|         |             |                 |                            |         |         |         |         |
|---------|-------------|-----------------|----------------------------|---------|---------|---------|---------|
|         |             |                 | ICB1<br>11/6/00<br>8:46 AM |         |         |         |         |
| Element | WL/<br>Mass | Report<br>Limit | Found Q                    | Found Q | Found Q | Found Q | Found Q |
| Mercury | 253.7       | 0.2             | 0.1 B                      |         |         |         |         |

674 758

STL-Pittsburgh

## Metals Data Reporting Form

## Initial Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J01105A.ARC

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

| Element  | WL/<br>Mass | Report<br>Limit | ICB1<br>11/5/00<br>8:55 AM |   |       |   |       |   |       |   |
|----------|-------------|-----------------|----------------------------|---|-------|---|-------|---|-------|---|
|          |             |                 | Found                      | Q | Found | Q | Found | Q | Found | Q |
| Arsenic  | 193.696     | 500             | 33.6                       | B |       |   |       |   |       |   |
| Barium   | 493.409     | 10000           | 0.4                        | U |       |   |       |   |       |   |
| Cadmium  | 228.802     | 100             | 2.8                        | U |       |   |       |   |       |   |
| Chromium | 267.716     | 500             | 3.8                        | U |       |   |       |   |       |   |
| Lead     | 220.353     | 500             | 24.6                       | U |       |   |       |   |       |   |
| Selenium | 196.026     | 250             | 67.4                       | U |       |   |       |   |       |   |
| Silver   | 328.068     | 500             | 3.2                        | B |       |   |       |   |       |   |

## Metals Data Reporting Form

## Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 1106HGA.PRN

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

| Element | WL/<br>Mass | Report<br>Limit | CCB1<br>11/6/00<br>8:51 AM | CCB2<br>11/6/00<br>9:12 AM |         |         |         |
|---------|-------------|-----------------|----------------------------|----------------------------|---------|---------|---------|
|         |             |                 | Found Q                    | Found Q                    | Found Q | Found Q | Found Q |
| Mercury | 253.7       | 0.2             | 0.1 B                      | 0.1 B                      |         |         |         |

674 760

STL-Pittsburgh

## Metals Data Reporting Form

## Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J01105A.ARC

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

| Element  | WL/<br>Mass | Report<br>Limit | CCB1<br>11/5/00<br>9:35 AM |   | CCB2<br>11/5/00<br>10:07 AM |   |       |   |       |   |
|----------|-------------|-----------------|----------------------------|---|-----------------------------|---|-------|---|-------|---|
|          |             |                 | Found                      | Q | Found                       | Q | Found | Q | Found | Q |
| Arsenic  | 193.696     | 500             | 45.8                       | B | 53.0                        | B |       |   |       |   |
| Barium   | 493.409     | 10000           | 0.4                        | U | 0.4                         | U |       |   |       |   |
| Cadmium  | 228.802     | 100             | 2.8                        | U | 2.8                         | U |       |   |       |   |
| Chromium | 267.716     | 500             | 3.8                        | U | 3.8                         | U |       |   |       |   |
| Lead     | 220.353     | 500             | 24.6                       | U | 24.6                        | U |       |   |       |   |
| Selenium | 196.026     | 250             | 67.4                       | U | 67.4                        | U |       |   |       |   |
| Silver   | 328.068     | 500             | 3.1                        | U | 3.1                         | U |       |   |       |   |

## Metals Data Reporting Form

## Preparation Blank Results

Lab Sample ID: DPAMLBTMatrix: Water Units: mg/L Prep Date: 11/4/00 Prep Batch: 0309113Weight: NA Volume: 50 Percent Moisture: NA

| Element  | WL/<br>Mass | MDL     | Report<br>Limit | Conc   | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|----------|-------------|---------|-----------------|--------|---|----|-------|--------------|--------------|
| Arsenic  | 193.696     | 0.030   | 0.50            | 0.16   | B | 1  | ICP   | 11/5/00      | 9:06         |
| Barium   | 493.409     | 0.00041 | 10.0            | 0.0010 | B | 1  | ICP   | 11/5/00      | 9:06         |
| Cadmium  | 228.802     | 0.0028  | 0.10            | 0.0028 | U | 1  | ICP   | 11/5/00      | 9:06         |
| Chromium | 267.716     | 0.0038  | 0.50            | 0.0038 | U | 1  | ICP   | 11/5/00      | 9:06         |
| Lead     | 220.353     | 0.025   | 0.50            | 0.040  | B | 1  | ICP   | 11/5/00      | 9:06         |
| Selenium | 196.026     | 0.067   | 0.25            | 0.067  | U | 1  | ICP   | 11/5/00      | 9:06         |
| Silver   | 328.068     | 0.0031  | 0.50            | 0.0031 | U | 1  | ICP   | 11/5/00      | 9:06         |

Comments. \_\_\_\_\_

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

674 762

## STL-Pittsburgh

## Metals Data Reporting Form

## Preparation Blank Results

Lab Sample ID: DPC5HBTMatrix: Water Units: mg/L Prep Date: 11/4/00 Prep Batch: 0309113Weight: NA Volume: 50 Percent Moisture: NA

| Element  | WL/<br>Mass | MDL     | Report<br>Limit | Conc    | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|----------|-------------|---------|-----------------|---------|---|----|-------|--------------|--------------|
| Arsenic  | 193.696     | 0.030   | 0.50            | 0.039   | B | 1  | ICP   | 11/5/00      | 9:10         |
| Barium   | 493.409     | 0.00041 | 10.0            | 0.00041 | U | 1  | ICP   | 11/5/00      | 9:10         |
| Cadmium  | 228.802     | 0.0028  | 0.10            | 0.0028  | U | 1  | ICP   | 11/5/00      | 9:10         |
| Chromium | 267.716     | 0.0038  | 0.50            | 0.0038  | U | 1  | ICP   | 11/5/00      | 9:10         |
| Lead     | 220.353     | 0.025   | 0.50            | 0.025   | U | 1  | ICP   | 11/5/00      | 9:10         |
| Selenium | 196.026     | 0.067   | 0.25            | 0.067   | U | 1  | ICP   | 11/5/00      | 9:10         |
| Silver   | 328.068     | 0.0031  | 0.50            | 0.0031  | U | 1  | ICP   | 11/5/00      | 9:10         |

Comments: \_\_\_\_\_

Version 4.10.2

U Result is less than the MDL

Form 3 Equivalent

B Result is between MDL and RL

## STL-Pittsburgh

## Metals Data Reporting Form

## Preparation Blank Results

Lab Sample ID: DPAMLBTMatrix: Water Units: mg/L Prep Date: 11/6/00 Prep Batch: 0310101Weight: NA Volume: 100 Percent Moisture: NA

| Element | WL/<br>Mass | MDL      | Report<br>Limit | Conc     | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|----------|-----------------|----------|---|----|-------|--------------|--------------|
| Mercury | 253.7       | 0.000045 | 0.00020         | 0.000093 | B | 1  | CVAA  | 11/6/00      | 8:57         |

Comments: \_\_\_\_\_



674 764

STL-Pittsburgh

## Metals Data Reporting Form

## Preparation Blank Results

Lab Sample ID: DPD32BTMatrix: Water Units: mg/L Prep Date: 11/6/00 Prep Batch: 0310101Weight: NA Volume: 100 Percent Moisture: NA

| Element | WL/<br>Mass | MDL      | Report<br>Limit | Conc    | Q | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|----------|-----------------|---------|---|----|-------|--------------|--------------|
| Mercury | 253.7       | 0.000045 | 0.00020         | 0.00016 | B | 1  | CVAA  | 11/6/00      | 8:53         |

Comments: \_\_\_\_\_

Version 4 10.2

U Result is less than the MDL

Form 3 Equivalent

B Result is between MDL and RL

**STL-Pittsburgh**  
**Metals Data Reporting Form**

**674 765**

Interference Check Standard A

**Instrument:** ICP

**Units:** ug/L

**Chart Number:** J01105A.ARC

**Acceptable Range:** 0% - 0%

**Standard Source:** Inorganic Ventures

**Standard ID:** 0057-115-1

| Element  | WL/<br>Mass | Reporting<br>Limit | True<br>Conc | ICSA<br>11/5/00<br>8:58 AM |       |       |       |       |
|----------|-------------|--------------------|--------------|----------------------------|-------|-------|-------|-------|
|          |             |                    |              | Found                      | Found | Found | Found | Found |
| Arsenic  | 193.696     | 500                |              | 286                        |       |       |       |       |
| Barium   | 493.409     | 10000              |              | 2                          |       |       |       |       |
| Cadmium  | 228.802     | 100                |              | -5                         |       |       |       |       |
| Chromium | 267.716     | 500                |              | 0                          |       |       |       |       |
| Lead     | 220.353     | 500                |              | 57                         |       |       |       |       |
| Selenium | 196.026     | 250                |              | -41                        |       |       |       |       |
| Silver   | 328.068     | 500                |              | 1                          |       |       |       |       |

## Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPUnits: ug/LChart Number: J01105A.ARCAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0057-130-11

| Element  | WL/<br>Mass | True<br>Conc | ICSAB<br>11/5/00<br>9:01 AM |          |       |          |       |          |       |          |
|----------|-------------|--------------|-----------------------------|----------|-------|----------|-------|----------|-------|----------|
|          |             |              | Found                       | %<br>Rec | Found | %<br>Rec | Found | %<br>Rec | Found | %<br>Rec |
| Arsenic  | 193.696     | 1000         | 1023.2                      | 102.3    |       |          |       |          |       |          |
| Barium   | 493.409     | 500          | 469.6                       | 93.9     |       |          |       |          |       |          |
| Cadmium  | 228.802     | 1000         | 963.0                       | 96.3     |       |          |       |          |       |          |
| Chromium | 267.716     | 500          | 450.0                       | 90.0     |       |          |       |          |       |          |
| Lead     | 220.353     | 1000         | 994.7                       | 99.5     |       |          |       |          |       |          |
| Selenium | 196.026     | 1000         | 954.4                       | 95.4     |       |          |       |          |       |          |
| Silver   | 328.068     | 1000         | 961.1                       | 96.1     |       |          |       |          |       |          |

**STL-Pittsburgh**  
Metals Data Reporting Form

674 767

**Matrix Spike Sample Results**

**Spike Sample ID:** DN4P6ST  
**Original Sample ID:** DN4P6T **Client ID:** DF/24-A/0304/CVS/008S  
**Matrix:** Water **Units:** mg/L **Prep Date:** 11/4/00 **Prep Batch:** 0309113  
**Weight:** NA **Volume:** 50 **Percent Moisture:** NA

| Element  | WL/<br>Mass | OS<br>Conc | Q | MS<br>Conc | Q | Spike<br>Level | %<br>Rec | OS<br>DF | MS<br>DF | Instr | OS<br>Anal<br>Date | OS<br>Anal<br>Time | MS<br>Anal<br>Date | MS<br>Anal<br>Time |
|----------|-------------|------------|---|------------|---|----------------|----------|----------|----------|-------|--------------------|--------------------|--------------------|--------------------|
| Arsenic  | 193.7       | 0.20       | B | 5.2        |   | 5              | 100.1    | 1        | 1        | ICP   | 11/5/00            | 9:16               | 11/5/00            | 9:22               |
| Barium   | 493.4       | 0.28       | B | 45.4       |   | 50             | 90.3     | 1        | 1        | ICP   | 11/5/00            | 9:16               | 11/5/00            | 9:22               |
| Cadmium  | 228.8       | 0.0028     | U | 0.96       |   | 1              | 95.5     | 1        | 1        | ICP   | 11/5/00            | 9:16               | 11/5/00            | 9:22               |
| Chromium | 267.7       | 0.0038     | U | 4.6        |   | 5              | 91.8     | 1        | 1        | ICP   | 11/5/00            | 9:16               | 11/5/00            | 9:22               |
| Lead     | 220.4       | 0.025      | U | 4.7        |   | 5              | 93.5     | 1        | 1        | ICP   | 11/5/00            | 9:16               | 11/5/00            | 9:22               |
| Selenium | 196.0       | 0.067      | U | 1.1        |   | 1              | 105.7    | 1        | 1        | ICP   | 11/5/00            | 9:16               | 11/5/00            | 9:22               |
| Silver   | 328.1       | 0.0031     | U | 0.93       |   | 1              | 93.4     | 1        | 1        | ICP   | 11/5/00            | 9:16               | 11/5/00            | 9:22               |

**Comments:** \_\_\_\_\_

Version 4.10.2

- U Result is less than the MDL
- B Result is between MDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- \* Duplicate analysis RPD was not within limits

*Form 5A Equivalent*

674 768 STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DN4P6DT  
 Original Sample ID: DN4P6T Client ID: DF/24-A/0304/CVS/008D  
 Matrix: Water Units: mg/L Prep Date: 11/4/00 Prep Batch: 0309113  
 Weight: NA Volume: 50 Percent Moisture: NA

| Element  | WL/<br>Mass | OS<br>Conc | Q | MSD<br>Conc | Q | Spike<br>Level | %<br>Rec | OS<br>DF | MSD<br>DF | Instr | OS<br>Anal<br>Date | OS<br>Anal<br>Time | MSD<br>Anal<br>Date | MSD<br>Anal<br>Time |
|----------|-------------|------------|---|-------------|---|----------------|----------|----------|-----------|-------|--------------------|--------------------|---------------------|---------------------|
| Arsenic  | 193.7       | 0.20       | B | 5.2         |   | 5              | 99.5     | 1        | 1         | ICP   | 11/5/00            | 9:16               | 11/5/00             | 9:25                |
| Barium   | 493.4       | 0.28       | B | 45.5        |   | 50             | 90.4     | 1        | 1         | ICP   | 11/5/00            | 9:16               | 11/5/00             | 9:25                |
| Cadmium  | 228.8       | 0.0028     | U | 0.96        |   | 1              | 96.4     | 1        | 1         | ICP   | 11/5/00            | 9:16               | 11/5/00             | 9:25                |
| Chromium | 267.7       | 0.0038     | U | 4.6         |   | 5              | 92.7     | 1        | 1         | ICP   | 11/5/00            | 9:16               | 11/5/00             | 9:25                |
| Lead     | 220.4       | 0.025      | U | 4.7         |   | 5              | 94.3     | 1        | 1         | ICP   | 11/5/00            | 9:16               | 11/5/00             | 9:25                |
| Selenium | 196.0       | 0.067      | U | 1.1         |   | 1              | 108.4    | 1        | 1         | ICP   | 11/5/00            | 9:16               | 11/5/00             | 9:25                |
| Silver   | 328.1       | 0.0031     | U | 0.95        |   | 1              | 94.5     | 1        | 1         | ICP   | 11/5/00            | 9:16               | 11/5/00             | 9:25                |

Comments: \_\_\_\_\_

Version 4.10.2

U Result is less than the MDL

Form 5A Equivalent

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

\* Duplicate analysis RPD was not within limits

## Metals Data Reporting Form

## Matrix Spike Sample Results

Spike Sample ID: DN4P6STOriginal Sample ID: DN4P6TClient ID: DF/24-A/0304/CVS/008SMatrix: Water Units: mg/LPrep Date: 11/6/00Prep Batch: 0310101Weight: NA Volume: 100Percent Moisture: NA

| Element | WL/<br>Mass | OS<br>Conc | Q | MS<br>Conc | Q | Spike<br>Level | %<br>Rec | OS<br>DF | MS<br>DF | Instr | OS<br>Anal<br>Date | OS<br>Anal<br>Time | MS<br>Anal<br>Date | MS<br>Anal<br>Time |
|---------|-------------|------------|---|------------|---|----------------|----------|----------|----------|-------|--------------------|--------------------|--------------------|--------------------|
| Mercury | 253.7       | 0.000084   | B | 0.0052     |   | 0.005          | 102.7    | 1        | 1        | CVAA  | 11/6/00            | 9:02               | 11/6/00            | 9:03               |

Comments: \_\_\_\_\_

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

\* Duplicate analysis RPD was not within limits

Form 5A Equivalent

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# Metals Data Reporting Form

## Matrix Spike Duplicate Sample Results

Spike Sample ID: DN4P6DT  
 Original Sample ID: DN4P6T Client ID: DF/24-A/0304/CVS/008D  
 Matrix: Water Units: mg/L Prep Date: 11/6/00 Prep Batch: 0310101  
 Weight: NA Volume: 100 Percent Moisture: NA

| Element | WL/<br>Mass | OS<br>Conc | Q | MSD<br>Conc | Q | Spike<br>Level | %<br>Rec | OS<br>DF | MSD<br>DF | Instr | OS<br>Anal<br>Date | OS<br>Anal<br>Time | MSD<br>Anal<br>Date | MSD<br>Anal<br>Time |
|---------|-------------|------------|---|-------------|---|----------------|----------|----------|-----------|-------|--------------------|--------------------|---------------------|---------------------|
| Mercury | 253.7       | 0.000084   | B | 0.0053      |   | 0.005          | 104.1    | 1        | 1         | CVAA  | 11/6/00            | 9:02               | 11/6/00             | 9:05                |

Comments: \_\_\_\_\_

Version 4.10.2

U Result is less than the MDL

Form 5A Equivalent

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

\* Duplicate analysis RPD was not within limits

674 772

## STL-Pittsburgh

## Metals Data Reporting Form

## Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DN4P6DTMatrix Spike Sample ID: DN4P6ST Client ID: DF/24-A/0304/CVS/008DMatrix: Water Units: mg/L Prep Date: 11/6/00 Prep Batch: 0310101Weight: NA Volume: 100 Percent Moisture: NA

| Element | WL/<br>Mass | MS<br>Conc | Q | MSD<br>Conc | Q | RPD   | MS<br>DF | MSD<br>DF | Instr | MS<br>Anal<br>Date | MS<br>Anal<br>Time | MSD<br>Anal<br>Date | MSD<br>Anal<br>Time |
|---------|-------------|------------|---|-------------|---|-------|----------|-----------|-------|--------------------|--------------------|---------------------|---------------------|
| Mercury | 253.7       | 0.0052     |   | 0.0053      |   | 1.4 % | 1        | 1         | CVAA  | 11/6/00            | 9:03               | 11/6/00             | 9:05                |

Comments: \_\_\_\_\_

Version 4.10.2

- U Result is less than the MDL
- B Result is between MDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- \* Duplicate analysis RPD was not within limits

Form 6 Equivalent



## Metals Data Reporting Form

## Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DN4P6DTMatrix Spike Sample ID: DN4P6ST Client ID: DF/24-A/0304/CVS/008DMatrix: Water Units: mg/L Prep Date: 11/4/00 Prep Batch: 0309113Weight: NA Volume: 50 Percent Moisture: NA

| Element  | WL/<br>Mass | MS<br>Conc | Q | MSD<br>Conc | Q | RPD   | MS<br>DF | MSD<br>DF | Instr | MS<br>Anal<br>Date | MS<br>Anal<br>Time | MSD<br>Anal<br>Date | MSD<br>Anal<br>Time |
|----------|-------------|------------|---|-------------|---|-------|----------|-----------|-------|--------------------|--------------------|---------------------|---------------------|
| Arsenic  | 193.696     | 5.2        |   | 5.2         |   | 0.6 % | 1        | 1         | ICP   | 11/5/00            | 9:22               | 11/5/00             | 9:25                |
| Barium   | 493.409     | 45.4       |   | 45.5        |   | 0.1 % | 1        | 1         | ICP   | 11/5/00            | 9:22               | 11/5/00             | 9:25                |
| Cadmium  | 228.802     | 0.96       |   | 0.96        |   | 1.0 % | 1        | 1         | ICP   | 11/5/00            | 9:22               | 11/5/00             | 9:25                |
| Chromium | 267.716     | 4.6        |   | 4.6         |   | 0.9 % | 1        | 1         | ICP   | 11/5/00            | 9:22               | 11/5/00             | 9:25                |
| Lead     | 220.353     | 4.7        |   | 4.7         |   | 0.9 % | 1        | 1         | ICP   | 11/5/00            | 9:22               | 11/5/00             | 9:25                |
| Selenium | 196.026     | 1.1        |   | 1.1         |   | 2.5 % | 1        | 1         | ICP   | 11/5/00            | 9:22               | 11/5/00             | 9:25                |
| Silver   | 328.068     | 0.93       |   | 0.95        |   | 1.1 % | 1        | 1         | ICP   | 11/5/00            | 9:22               | 11/5/00             | 9:25                |

Comments: \_\_\_\_\_

Version 4.10.2

U Result is less than the MDL

Form 6 Equivalent

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

\* Duplicate analysis RPD was not within limits

## STL-Pittsburgh

## Metals Data Reporting Form

## Laboratory Control Sample Results

Lab Sample ID: DPC5HCTMatrix: Water Units: mg/L Prep Date: 11/4/00 Prep Batch: 0309113Weight: NA Volume: 50 Percent Moisture: NA

| Element  | WL/<br>Mass | Spike<br>Level | Conc  | Percent<br>Recovery | Q | Range  | DF | Instr | Anal<br>Date | Anal<br>Time |
|----------|-------------|----------------|-------|---------------------|---|--------|----|-------|--------------|--------------|
| Arsenic  | 193.696     | 2.0            | 2.3   | 114.1               |   | 80-120 | 1  | ICP   | 11/5/00      | 9:13         |
| Barium   | 493.409     | 2.0            | 1.9   | 95.3                | B | 80-120 | 1  | ICP   | 11/5/00      | 9:13         |
| Cadmium  | 228.802     | 0.050          | 0.048 | 95.1                | B | 80-120 | 1  | ICP   | 11/5/00      | 9:13         |
| Chromium | 267.716     | 0.20           | 0.20  | 97.6                | B | 80-120 | 1  | ICP   | 11/5/00      | 9:13         |
| Lead     | 220.353     | 0.50           | 0.48  | 96.0                | B | 80-120 | 1  | ICP   | 11/5/00      | 9:13         |
| Selenium | 196.026     | 2.0            | 2.2   | 110.2               |   | 80-120 | 1  | ICP   | 11/5/00      | 9:13         |
| Silver   | 328.068     | 0.050          | 0.051 | 102.4               | B | 80-120 | 1  | ICP   | 11/5/00      | 9:13         |

Comments: \_\_\_\_\_

674 774

## STL-Pittsburgh

## Metals Data Reporting Form

## Laboratory Control Sample Results

Lab Sample ID: DPD32CTMatrix: Water Units: mg/L Prep Date: 11/6/00 Prep Batch: 0310101Weight: NA Volume: 100 Percent Moisture: NA

| Element | WL/<br>Mass | Spike<br>Level | Conc   | Percent<br>Recovery | Q | Range  | DF | Instr | Anal<br>Date | Anal<br>Time |
|---------|-------------|----------------|--------|---------------------|---|--------|----|-------|--------------|--------------|
| Mercury | 253.7       | 0.0025         | 0.0027 | 107.6               |   | 80-120 | 1  | CVAA  | 11/6/00      | 8:55         |

Comments: \_\_\_\_\_

## STL-Pittsburgh

## Metals Data Reporting Form

## Serial Dilution RPD Report

Serial Dilution Sample ID: DN4P6PTOriginal Sample ID: DN4P6T Client ID: DF/24-A/0304/CVS/008Matrix: Water Units: mg/L Prep Date: 11/4/00 Prep Batch: 0309113Weight: NA Volume: 50 Percent Moisture: NA

| Element  | WL/<br>Mass | OS<br>Conc | Q | Serial<br>Dilution<br>Conc | Q | Percent<br>Diff | OS<br>DF | Ser<br>Dil<br>DF | Instr | OS<br>Anal<br>Date | OS<br>Anal<br>Time | Ser Dil<br>Anal<br>Date | Ser Dil<br>Anal<br>Time |
|----------|-------------|------------|---|----------------------------|---|-----------------|----------|------------------|-------|--------------------|--------------------|-------------------------|-------------------------|
| Arsenic  | 193.696     | 0.20       | B | 0.43                       | B | 3.1 %           | 1        | 5                | ICP   | 11/5/00            | 9:16               | 11/5/00                 | 9:19                    |
| Barium   | 493.409     | 0.28       | B | 0.28                       | B |                 | 1        | 5                | ICP   | 11/5/00            | 9:16               | 11/5/00                 | 9:19                    |
| Cadmium  | 228.802     | 0.0028     | U | 0.014                      | U |                 | 1        | 5                | ICP   | 11/5/00            | 9:16               | 11/5/00                 | 9:19                    |
| Chromium | 267.716     | 0.0038     | U | 0.019                      | U |                 | 1        | 5                | ICP   | 11/5/00            | 9:16               | 11/5/00                 | 9:19                    |
| Lead     | 220.353     | 0.025      | U | 0.12                       | U |                 | 1        | 5                | ICP   | 11/5/00            | 9:16               | 11/5/00                 | 9:19                    |
| Selenium | 196.026     | 0.067      | U | 0.34                       | U |                 | 1        | 5                | ICP   | 11/5/00            | 9:16               | 11/5/00                 | 9:19                    |
| Silver   | 328.068     | 0.0031     | U | 0.016                      | U |                 | 1        | 5                | ICP   | 11/5/00            | 9:16               | 11/5/00                 | 9:19                    |

Comments: \_\_\_\_\_

Version 4.10.2

U Result is less than the MDL

Form 9 Equivalent

B Result is between MDL and RL

E Serial dilution percent difference not within limits

674 776

STL-Pittsburgh

Metals Data Reporting Form

Instrument Detection Limits

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Instrument: CVAA

Units: ppb

| Element | Wavelength<br>/Mass | Reporting<br>Limit | MDL   | Date of MDL |
|---------|---------------------|--------------------|-------|-------------|
| Mercury | 253.70              | 0.2                | 0.045 | 3/20/00     |

## Metals Data Reporting Form

Instrument Detection Limits

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Instrument: ICPUnits: ppb

| Element  | Wavelength<br>/Mass | Reporting<br>Limit | MDL  | Date of MDL |
|----------|---------------------|--------------------|------|-------------|
| Arsenic  | 193.70              | 500                | 30.3 | 4/1/00      |
| Barium   | 493.41              | 10000              | 0.41 | 4/1/00      |
| Cadmium  | 228.80              | 100                | 2.8  | 4/1/00      |
| Chromium | 267.72              | 500                | 3.8  | 4/1/00      |
| Lead     | 220.35              | 500                | 24.6 | 4/1/00      |
| Selenium | 196.03              | 250                | 67.4 | 4/1/00      |
| Silver   | 328.07              | 500                | 3.1  | 4/1/00      |

## Metals Data Reporting Form

## Inter-Element Correction Factors

Instrument: ICP Date of IEC's: 9/20/00

| Interfering Element | Wavelength /Mass | Correction Factor(s)                                                                                                                                                        |
|---------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aluminum            | 308.215          | As(0.007861), Mn(0.000018), Pb(0.000719)                                                                                                                                    |
| Antimony            | 206.838          | Ni(-0.000528), Pb(-0.001408), Sn(-0.004161)                                                                                                                                 |
| Arsenic             | 193.696          | Cd(0.011217)                                                                                                                                                                |
| Barium              | 493.402          | Co(0.000449)                                                                                                                                                                |
| Beryllium           | 313.042          | Cd(0.008648)                                                                                                                                                                |
| Cadmium             | 228.802          | Co(0.002996)                                                                                                                                                                |
| Chromium            | 267.716          | Pb(-0.000767), Sb(0.009005), V(-0.002296)                                                                                                                                   |
| Cobalt              | 228.616          | Al(-0.013948), B(0.00168), Cd(-0.004424), Cu(-0.000974), Pb(-0.026155), Sb(-0.004281), Tl(0.008568)                                                                         |
| Copper              | 324.754          | Zn(0.00414)                                                                                                                                                                 |
| Iron                | 259.94           | Ag(-0.000242), As(0.001058), B(-0.001884), Cd(-0.000046), Cu(-0.000114), Mn(-0.00029), Mo(-0.000129), Pb(0.00019), Se(-0.003038), Sn(-0.000176), Tl(0.011416), Zn(0.000091) |
| Manganese           | 257.61           | Ag(0.000185), Tl(-0.007608)                                                                                                                                                 |
| Molybdenum          | 202.03           | Al(0.009881), Cr(-0.000204), Mn(-0.000334), Sb(0.005016), V(-0.013194)                                                                                                      |
| Nickel              | 231.604          | Cd(-0.000482), Sb(-0.01006), Zn(0.00326)                                                                                                                                    |
| Tin                 | 189.989          | Sb(0.002501)                                                                                                                                                                |
| Titanium            | 334.941          | Co(0.001561), Fe(-0.003248), Sb(0.001256), Sn(0.003314)                                                                                                                     |
| Vanadium            | 292.402          | Ag(-0.004417), Al(0.014581), As(0.015197), Be(0.002162), Cd(0.000076), Cr(0.000544), Sb(-0.002921), Si(-0.011682), Tl(0.006485), Zn(-0.0046)                                |

**STL-Pittsburgh**  
**Metals Data Reporting Form**

Linear Dynamic Ranges

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**Instrument:** CVAA

**Units:** ppb

| <b>Element</b> | <b>Wavelength<br/>/Mass</b> | <b>Linear<br/>Range</b> | <b>Date of Linear<br/>Range</b> |
|----------------|-----------------------------|-------------------------|---------------------------------|
| Mercury        | 253.70                      | 10                      | 1/15/00                         |



674 780

## STL-Pittsburgh

## Metals Data Reporting Form

Linear Dynamic Ranges

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Instrument: ICPUnits: ppb

| Element  | Wavelength<br>/Mass | Linear<br>Range | Date of Linear<br>Range |
|----------|---------------------|-----------------|-------------------------|
| Arsenic  | 193.70              | 100000          | 7/8/00                  |
| Barium   | 493.41              | 100000          | 7/8/00                  |
| Cadmium  | 228.80              | 100000          | 7/8/00                  |
| Chromium | 267.72              | 100000          | 7/8/00                  |
| Lead     | 220.35              | 100000          | 7/8/00                  |
| Selenium | 196.03              | 100000          | 7/8/00                  |
| Silver   | 328.07              | 2000            | 7/8/00                  |

STL-Pittsburgh  
Metals Data Reporting Form

674 781

Preparation Log

Preparation Batch: 0309113 Instrument: ICP Matrix: Water

| Sample ID | Prep Date | Weight (g) | Volume (ml) | % Moisture |
|-----------|-----------|------------|-------------|------------|
| DPAMLBT   | 11/4/00   | NA         | 50          | NA         |
| DPC5HBT   | 11/4/00   | NA         | 50          | NA         |
| DPC5HCT   | 11/4/00   | NA         | 50          | NA         |
| DN4P6DT   | 11/4/00   | NA         | 50          | NA         |
| DN4P6ST   | 11/4/00   | NA         | 50          | NA         |
| DN4P6T    | 11/4/00   | NA         | 50          | NA         |
| DN4QJT    | 11/4/00   | NA         | 50          | NA         |
| DN4QKT    | 11/4/00   | NA         | 50          | NA         |

674 782 STL-Pittsburgh  
Metals Data Reporting Form

Preparation Log

Preparation Batch: 0310101 Instrument: CVAA Matrix: Water

| Sample ID | Prep Date | Weight (g) | Volume (ml) | % Moisture |
|-----------|-----------|------------|-------------|------------|
| DPAMLBT   | 11/6/00   | NA         | 100         | NA         |
| DPD32BT   | 11/6/00   | NA         | 100         | NA         |
| DPD32CT   | 11/6/00   | NA         | 100         | NA         |
| DN4P6DT   | 11/6/00   | NA         | 100         | NA         |
| DN4P6ST   | 11/6/00   | NA         | 100         | NA         |
| DN4P6T    | 11/6/00   | NA         | 100         | NA         |
| DN4QJT    | 11/6/00   | NA         | 100         | NA         |
| DN4QKT    | 11/6/00   | NA         | 100         | NA         |

**STL-Pittsburgh**  
Metals Data Reporting Form

674 783

**Instrument Runlog**

**Instrument:** CVAA

**Chart Number:** 1106HGA.PRN

| Lab Sample Name | Client Sample Name    | Date of Analysis | Time of Analysis |
|-----------------|-----------------------|------------------|------------------|
| Std1Rep1        |                       | 11/6/00          | 8:34             |
| Std2Rep1        |                       | 11/6/00          | 8:35             |
| Std3Rep1        |                       | 11/6/00          | 8:37             |
| Std4Rep1        |                       | 11/6/00          | 8:38             |
| Std5Rep1        |                       | 11/6/00          | 8:40             |
| Std6Rep1        |                       | 11/6/00          | 8:41             |
| ICV5-1          |                       | 11/6/00          | 8:44             |
| ICB1            |                       | 11/6/00          | 8:46             |
| ZZZZZZ          |                       | 11/6/00          | 8:47             |
| CCV5-1          |                       | 11/6/00          | 8:49             |
| CCB1            |                       | 11/6/00          | 8:51             |
| DPD32BT         |                       | 11/6/00          | 8:53             |
| DPD32CT         |                       | 11/6/00          | 8:55             |
| DPAMLBT         |                       | 11/6/00          | 8:57             |
| ZZZZZZ          |                       | 11/6/00          | 8:59             |
| ZZZZZZ          |                       | 11/6/00          | 9:00             |
| DN4P6T          | DF/24-A/0304/CVS/008  | 11/6/00          | 9:02             |
| DN4P6ST         | DF/24-A/0304/CVS/008S | 11/6/00          | 9:03             |
| DN4P6DT         | DF/24-A/0304/CVS/008D | 11/6/00          | 9:05             |
| DN4QJT          | DF/24-A/0304/CVS/010  | 11/6/00          | 9:07             |
| DN4QKT          | DF/24-A/0304/CVS/012  | 11/6/00          | 9:09             |
| CCV5-2          |                       | 11/6/00          | 9:10             |
| CCB2            |                       | 11/6/00          | 9:12             |
| ZZZZZZ          |                       | 11/6/00          | 9:13             |
| ZZZZZZ          |                       | 11/6/00          | 9:15             |
| ZZZZZZ          |                       | 11/6/00          | 9:17             |
| ZZZZZZ          |                       | 11/6/00          | 9:18             |
| ZZZZZZ          |                       | 11/6/00          | 9:20             |
| ZZZZZZ          |                       | 11/6/00          | 9:22             |
| ZZZZZZ          |                       | 11/6/00          | 9:23             |
| ZZZZZZ          |                       | 11/6/00          | 9:25             |
| ZZZZZZ          |                       | 11/6/00          | 9:27             |
| ZZZZZZ          |                       | 11/6/00          | 9:28             |
| ZZZZZZ          |                       | 11/6/00          | 9:30             |
| ZZZZZZ          |                       | 11/6/00          | 9:32             |
| ZZZZZZ          |                       | 11/6/00          | 9:34             |
| ZZZZZZ          |                       | 11/6/00          | 9:35             |
| ZZZZZZ          |                       | 11/6/00          | 9:37             |
| ZZZZZZ          |                       | 11/6/00          | 9:38             |

## Metals Data Reporting Form

## Instrument Runlog

Instrument: CVAAChart Number: 1106HGA.PRN

| Lab Sample Name | Client Sample Name | Date of Analysis | Time of Analysis |
|-----------------|--------------------|------------------|------------------|
| ZZZZZZ          |                    | 11/6/00          | 9:40             |
| ZZZZZZ          |                    | 11/6/00          | 9:41             |
| ZZZZZZ          |                    | 11/6/00          | 9:43             |
| ZZZZZZ          |                    | 11/6/00          | 9:44             |
| ZZZZZZ          |                    | 11/6/00          | 9:46             |
| ZZZZZZ          |                    | 11/6/00          | 9:47             |
| ZZZZZZ          |                    | 11/6/00          | 9:49             |
| ZZZZZZ          |                    | 11/6/00          | 9:51             |
| ZZZZZZ          |                    | 11/6/00          | 9:53             |
| ZZZZZZ          |                    | 11/6/00          | 9:54             |
| ZZZZZZ          |                    | 11/6/00          | 9:56             |
| ZZZZZZ          |                    | 11/6/00          | 9:57             |
| ZZZZZZ          |                    | 11/6/00          | 9:59             |
| ZZZZZZ          |                    | 11/6/00          | 10:00            |
| ZZZZZZ          |                    | 11/6/00          | 10:02            |
| ZZZZZZ          |                    | 11/6/00          | 10:04            |
| ZZZZZZ          |                    | 11/6/00          | 10:05            |
| ZZZZZZ          |                    | 11/6/00          | 10:07            |
| ZZZZZZ          |                    | 11/6/00          | 10:09            |
| ZZZZZZ          |                    | 11/6/00          | 10:10            |
| ZZZZZZ          |                    | 11/6/00          | 10:13            |
| ZZZZZZ          |                    | 11/6/00          | 10:14            |
| ZZZZZZ          |                    | 11/6/00          | 10:15            |
| ZZZZZZ          |                    | 11/6/00          | 10:17            |
| ZZZZZZ          |                    | 11/6/00          | 10:19            |
| ZZZZZZ          |                    | 11/6/00          | 10:20            |
| ZZZZZZ          |                    | 11/6/00          | 10:22            |
| ZZZZZZ          |                    | 11/6/00          | 10:23            |
| ZZZZZZ          |                    | 11/6/00          | 10:24            |
| ZZZZZZ          |                    | 11/6/00          | 10:26            |
| ZZZZZZ          |                    | 11/6/00          | 10:28            |
| ZZZZZZ          |                    | 11/6/00          | 10:29            |
| ZZZZZZ          |                    | 11/6/00          | 10:31            |
| ZZZZZZ          |                    | 11/6/00          | 10:33            |
| ZZZZZZ          |                    | 11/6/00          | 10:35            |
| ZZZZZZ          |                    | 11/6/00          | 10:37            |
| ZZZZZZ          |                    | 11/6/00          | 10:38            |
| ZZZZZZ          |                    | 11/6/00          | 10:40            |
| ZZZZZZ          |                    | 11/6/00          | 10:41            |

STL-Pittsburgh  
Metals Data Reporting Form

674 785

Instrument Runlog

Instrument: CVAA

Chart Number: 1106HGA.PRN

| Lab Sample Name | Client Sample Name | Date of Analysis | Time of Analysis |
|-----------------|--------------------|------------------|------------------|
| ZZZZZZ          |                    | 11/6/00          | 10:43            |
| ZZZZZZ          |                    | 11/6/00          | 10:45            |

## STL-Pittsburgh

674 786

## Metals Data Reporting Form

## Instrument Runlog

Instrument: ICPChart Number: J01105A.ARC

| Lab Sample Name | Client Sample Name    | Date of Analysis | Time of Analysis |
|-----------------|-----------------------|------------------|------------------|
| STD1            |                       | 11/5/00          | 8:42             |
| STD5A           |                       | 11/5/00          | 8:45             |
| STD5B           |                       | 11/5/00          | 8:48             |
| ICV2-1          |                       | 11/5/00          | 8:52             |
| ICB1            |                       | 11/5/00          | 8:55             |
| ICSA            |                       | 11/5/00          | 8:58             |
| ICSAB           |                       | 11/5/00          | 9:01             |
| DPAMLBT         |                       | 11/5/00          | 9:06             |
| DPC5HBT         |                       | 11/5/00          | 9:10             |
| DPC5HCT         |                       | 11/5/00          | 9:13             |
| DN4P6T          | DF/24-A/0304/CVS/008  | 11/5/00          | 9:16             |
| DN4P6PT         | DF/24-A/0304/CVS/008  | 11/5/00          | 9:19             |
| DN4P6ST         | DF/24-A/0304/CVS/008S | 11/5/00          | 9:22             |
| DN4P6DT         | DF/24-A/0304/CVS/008D | 11/5/00          | 9:25             |
| DN4QJT          | DF/24-A/0304/CVS/010  | 11/5/00          | 9:28             |
| CCV2-1          |                       | 11/5/00          | 9:32             |
| CCB1            |                       | 11/5/00          | 9:35             |
| DN4QKT          | DF/24-A/0304/CVS/012  | 11/5/00          | 9:38             |
| ZZZZZZ          |                       | 11/5/00          | 9:41             |
| ZZZZZZ          |                       | 11/5/00          | 9:44             |
| ZZZZZZ          |                       | 11/5/00          | 9:47             |
| ZZZZZZ          |                       | 11/5/00          | 9:50             |
| ZZZZZZ          |                       | 11/5/00          | 9:54             |
| ZZZZZZ          |                       | 11/5/00          | 9:57             |
| ZZZZZZ          |                       | 11/5/00          | 10:01            |
| CCV2-2          |                       | 11/5/00          | 10:04            |
| CCB2            |                       | 11/5/00          | 10:07            |

674 787

TCLP  
METALS  
RAW DATA



*William J. Ruckelshaus 11-5-00*

| #  | Sample Name       | AG      | AS      | BA      | CD      | CR      | PB      |
|----|-------------------|---------|---------|---------|---------|---------|---------|
| 1  | STD1              | -.00095 | -.00155 | 0       | -.00003 | .00044  | .00014  |
| 2  | STD5A             | .27305  | .49535  | 4.16937 | .88259  | 3.72235 | .24255  |
| 3  | STD5B             |         |         |         |         |         |         |
| 4  | ICV2-1 0057-120-2 | .50890  | 1.0476  | .99821  | 1.0146  | 1.0120  | 1.0414  |
| 5  | ICB1              | .00321  | .03362  | .00014  | -.00070 | .00053  | .02010  |
| 6  | ICSA 0057-115-1   | .00055  | .28586  | .00201  | -.00471 | -.00013 | .05679  |
| 7  | ICSAB 0057-130-11 | .96109  | 1.0232  | .46964  | .96297  | .44999  | .99468  |
| 8  | DPAMLBT           | .00179  | .16197  | .00100  | -.00136 | .00228  | .04010  |
| 9  | DPC5HBT           | .00035  | .03873  | .00000  | .00045  | -.00094 | .02208  |
| 10 | DPC5HCT           | .05121  | 2.2815  | 1.9067  | .04757  | .19527  | .48009  |
| 11 | DN4P6T            | .00196  | .19682  | .27471  | -.00041 | .00147  | .00805  |
| 12 | DN4P6P5T          | .00116  | .08571  | .05663  | .00146  | .00215  | .00209  |
| 13 | DN4P6ST           | .93442  | 5.2026  | 45.416  | .95466  | 4.5924  | 4.6736  |
| 14 | DN4P6DT           | .94477  | 5.1728  | 45.465  | .96396  | 4.6356  | 4.7137  |
| 15 | DN4QJT            | .00277  | .17295  | 1.0014  | .00390  | .00590  | .02194  |
| 16 | CCV2-1 0057-122-1 | .99081  | 5.2432  | 4.8198  | 5.1041  | 4.9685  | 5.0809  |
| 17 | CCB1              | .00286  | .04581  | .00040  | .00016  | .00188  | .00402  |
| 18 | DN4QKT            | .00107  | .20808  | .65997  | -.00131 | .00080  | .00782  |
| 19 | DNRXGT            | -.00078 | .05498  | .09462  | .00074  | -.00080 | .02008  |
| 20 | DNRXRT            | -.00093 | .17401  | .14176  | -.00071 | -.00307 | .00218  |
| 21 | DN6N4T            | -.00104 | .17029  | .21573  | -.00207 | .00000  | .08432  |
| 22 | DN6N6T            | -.00211 | .18802  | .13868  | -.00227 | -.00067 | .73161  |
| 23 | DN6N7T            | .00101  | .26670  | .30817  | .06752  | .00187  | H134.20 |
| 24 | DN6N8T            | -.00115 | .28090  | .36185  | .04278  | .00402  | 53.418  |
| 25 | DN6N7T/2 PB       | .00103  | .13587  | .15893  | .03712  | .00201  | 68.935  |
| 26 | CCV2-2            | .98458  | 5.1880  | 4.7744  | 5.0700  | 4.9702  | 5.0771  |
| 27 | CCB2              | .00178  | .05302  | .00009  | -.00106 | -.00094 | -.01602 |

| #  | Sample Name       | SE      |
|----|-------------------|---------|
| 1  | STD1              | -.00045 |
| 2  | STD5A             | .47964  |
| 3  | STD5B             |         |
| 4  | ICV2-1 0057-120-2 | 1.0232  |
| 5  | ICB1              | .04997  |
| 6  | ICSA 0057-115-1   | -.04049 |
| 7  | ICSAB 0057-130-11 | .95435  |
| 8  | DPAMLBT           | .02085  |
| 9  | DPC5HBT           | .01875  |
| 10 | DPC5HCT           | 2.2037  |
| 11 | DN4P6T            | .02741  |
| 12 | DN4P6P5T          | .01670  |
| 13 | DN4P6ST           | 1.0574  |
| 14 | DN4P6DT           | 1.0845  |
| 15 | DN4QJT            | .01333  |
| 16 | CCV2-1 0057-122-1 | 5.0232  |
| 17 | CCB1              | -.01563 |
| 18 | DN4QKT            | -.02691 |
| 19 | DNRXGT            | .02408  |
| 20 | DNRXRT            | .03072  |
| 21 | DN6N4T            | -.00622 |
| 22 | DN6N6T            | .02499  |

| #  | Sample Name | SE      | 674 | 789 |
|----|-------------|---------|-----|-----|
| 23 | DN6N7T      | -.00587 |     |     |
| 24 | DN6N8T      | -.00617 |     |     |
| 25 | DN6N7T/2 PB | .00746  |     |     |
| 26 | CCV2-2      | 5.0338  |     |     |
| 27 | CCB2        | -.01147 |     |     |

WTR 11-5-00

| #  | Sample Name       | File    | Method  | Date     | Time  | OpID | Type | Mode |
|----|-------------------|---------|---------|----------|-------|------|------|------|
| 1  | STD1              | J01105A | QUANMET | 11/05/00 | 08:42 |      | X    | IR   |
| 2  | STD5A             | J01105A | QUANMET | 11/05/00 | 08:45 |      | X    | IR   |
| 3  | STD5B             | J01105A | QUANMET | 11/05/00 | 08:48 |      | X    | IR   |
| 4  | ICV2-1 0057-120-2 | J01105A | QUANMET | 11/05/00 | 08:52 | WTR  | S    | CONC |
| 5  | ICB1              | J01105A | QUANMET | 11/05/00 | 08:55 | WTR  | S    | CONC |
| 6  | ICSA 0057-115-1   | J01105A | QUANMET | 11/05/00 | 08:58 | WTR  | Q    | CONC |
| 7  | ICSAB 0057-130-11 | J01105A | QUANMET | 11/05/00 | 09:01 | WTR  | Q    | CONC |
| 8  | DPAMLBT           | J01105A | QUANMET | 11/05/00 | 09:06 | WTR  | S    | CONC |
| 9  | DPC5HBT           | J01105A | QUANMET | 11/05/00 | 09:10 | WTR  | S    | CONC |
| 10 | DPC5HCT           | J01105A | QUANMET | 11/05/00 | 09:13 | WTR  | S    | CONC |
| 11 | DN4P6T            | J01105A | QUANMET | 11/05/00 | 09:16 | WTR  | S    | CONC |
| 12 | DN4P6P5T          | J01105A | QUANMET | 11/05/00 | 09:19 | WTR  | S    | CONC |
| 13 | DN4P6ST           | J01105A | QUANMET | 11/05/00 | 09:22 | WTR  | S    | CONC |
| 14 | DN4P6DT           | J01105A | QUANMET | 11/05/00 | 09:25 | WTR  | S    | CONC |
| 15 | DN4QJT            | J01105A | QUANMET | 11/05/00 | 09:28 | WTR  | S    | CONC |
| 16 | CCV2-1 0057-122-1 | J01105A | QUANMET | 11/05/00 | 09:32 | WTR  | S    | CONC |
| 17 | CCB1              | J01105A | QUANMET | 11/05/00 | 09:35 | WTR  | S    | CONC |
| 18 | DN4QKT            | J01105A | QUANMET | 11/05/00 | 09:38 | WTR  | S    | CONC |
| 19 | DNRXGT            | J01105A | QUANMET | 11/05/00 | 09:41 | WTR  | S    | CONC |
| 20 | DNRXRT            | J01105A | QUANMET | 11/05/00 | 09:44 | WTR  | S    | CONC |
| 21 | DN6N4T            | J01105A | QUANMET | 11/05/00 | 09:47 | WTR  | S    | CONC |
| 22 | DN6N6T            | J01105A | QUANMET | 11/05/00 | 09:50 | WTR  | S    | CONC |
| 23 | DN6N7T            | J01105A | QUANMET | 11/05/00 | 09:54 | WTR  | S    | CONC |
| 24 | DN6N8T            | J01105A | QUANMET | 11/05/00 | 09:57 | WTR  | S    | CONC |
| 25 | DN6N7T/2 PB       | J01105A | QUANMET | 11/05/00 | 10:01 | WTR  | S    | CONC |
| 26 | CCV2-2            | J01105A | QUANMET | 11/05/00 | 10:04 | WTR  | S    | CONC |
| 27 | CCB2              | J01105A | QUANMET | 11/05/00 | 10:07 | WTR  | S    | CONC |

Method: QUANMET Standard: STD1  
Run Time: 11/05/00 08:42:34

674 791

| Elem | AG      | AL     | AS      | B_     | BA     | BE     | CA     |
|------|---------|--------|---------|--------|--------|--------|--------|
| Avge | -.00095 | .00745 | -.00155 | .00000 | .00000 | .00240 | .00499 |
| SDev | .00025  | .00050 | .00105  | .00000 | .00000 | .00016 | .00303 |
| %RSD | 26.491  | 6.7114 | 67.768  | .00000 | .00000 | 6.8041 | 60.679 |
| #1   | -.00120 | .00680 | -.00300 | .00000 | .00000 | .00240 | .00293 |
| #2   | -.00100 | .00740 | -.00160 | .00000 | .00000 | .00240 | .00241 |
| #3   | -.00060 | .00800 | -.00060 | .00000 | .00000 | .00260 | .00561 |
| #4   | -.00100 | .00760 | -.00100 | .00000 | .00000 | .00220 | .00902 |

| Elem | CD      | CO      | CR      | CU     | FE     | K_      | LI      |
|------|---------|---------|---------|--------|--------|---------|---------|
| Avge | -.00004 | -.00010 | .00045  | .00040 | .00405 | -.02735 | -.00030 |
| SDev | .00023  | .00026  | .00055  | .00049 | .00096 | .00343  | .00064  |
| %RSD | 601.58  | 258.20  | 122.39  | 122.47 | 23.640 | 12.544  | 209.81  |
| #1   | .00020  | .00000  | .00020  | .00000 | .00360 | -.02720 | -.00041 |
| #2   | -.00035 | .00020  | -.00020 | .00000 | .00300 | -.03040 | -.00092 |
| #3   | .00000  | -.00040 | .00100  | .00060 | .00440 | -.02260 | .00059  |
| #4   | .00000  | -.00020 | .00080  | .00100 | .00520 | -.02920 | -.00047 |

| Elem | MG      | MN     | MO     | NA     | NI      | PB      | SB     |
|------|---------|--------|--------|--------|---------|---------|--------|
| Avge | .00040  | .00010 | .00010 | .07130 | .00057  | .00015  | .00005 |
| SDev | .00059  | .00012 | .00012 | .00571 | .00073  | .00092  | .00010 |
| %RSD | 147.20  | 115.47 | 115.47 | 8.0079 | 128.66  | 609.80  | 200.00 |
| #1   | .00000  | .00020 | .00020 | .06520 | .00142  | .00060  | .00000 |
| #2   | -.00020 | .00000 | .00000 | .06860 | -.00021 | .00080  | .00020 |
| #3   | .00100  | .00020 | .00020 | .07300 | .00091  | -.00120 | .00000 |
| #4   | .00080  | .00000 | .00000 | .07840 | .00016  | .00040  | .00000 |

| Elem | SE      | SI     | SN     | SR      | TI     | TL      | V_     |
|------|---------|--------|--------|---------|--------|---------|--------|
| Avge | -.00045 | .00035 | .00045 | .00003  | .00200 | -.00030 | .00000 |
| SDev | .00283  | .00034 | .00064 | .00012  | .00016 | .00099  | .00000 |
| %RSD | 629.98  | 97.590 | 142.29 | 408.58  | 8.1650 | 328.86  | .00000 |
| #1   | -.00060 | .00020 | .00140 | .00000  | .00200 | -.00140 | .00000 |
| #2   | -.00260 | .00000 | .00000 | .00020  | .00180 | -.00040 | .00000 |
| #3   | .00360  | .00040 | .00020 | -.00008 | .00200 | .00100  | .00000 |
| #4   | -.00220 | .00080 | .00020 | .00000  | .00220 | -.00040 | .00000 |

| Elem | ZN     |
|------|--------|
| Avge | .00074 |
| SDev | .00035 |
| %RSD | 47.030 |
| #1   | .00052 |
| #2   | .00048 |
| #3   | .00072 |
| #4   | .00124 |

Method: QUANMET. Standard: STD5A

Run Time: 11/05/00 08:45:45

*0057-058-10*

| Elem | AG     | AS     | B      | BA     | BE     | CD     | CO     |
|------|--------|--------|--------|--------|--------|--------|--------|
| Avge | .27305 | .49535 | .57975 | 4.1694 | 15.682 | .88260 | 1.4224 |
| SDev | .00110 | .00453 | .00209 | .0062  | .028   | .00365 | .0055  |
| %RSD | .40285 | .91382 | .36058 | .14753 | .18140 | .41376 | .38957 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .27280 | .49100 | .57719 | 4.1618 | 15.655 | .88539 | 1.4218 |
| #2 | .27160 | .49760 | .58228 | 4.1682 | 15.705 | .87722 | 1.4148 |
| #3 | .27380 | .50060 | .58002 | 4.1710 | 15.660 | .88395 | 1.4254 |
| #4 | .27400 | .49220 | .57951 | 4.1766 | 15.708 | .88382 | 1.4274 |

| Elem | CR     | CU     | LI     | MN     | MO     | NI     | PB     |
|------|--------|--------|--------|--------|--------|--------|--------|
| Avge | 3.7224 | 2.2668 | 4.2599 | 1.9966 | .38320 | 1.7023 | .24255 |
| SDev | .0143  | .0054  | .0143  | .0058  | .00150 | .0072  | .00184 |
| %RSD | .38469 | .23729 | .33529 | .29227 | .39057 | .42392 | .75985 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 3.7312 | 2.2606 | 4.2421 | 1.9980 | .38320 | 1.7001 | .24380 |
| #2 | 3.7010 | 2.2712 | 4.2700 | 1.9880 | .38120 | 1.6952 | .24000 |
| #3 | 3.7274 | 2.2640 | 4.2548 | 1.9998 | .38360 | 1.7123 | .24400 |
| #4 | 3.7298 | 2.2714 | 4.2728 | 2.0006 | .38480 | 1.7017 | .24240 |

| Elem | SB     | SE     | SI     | SN     | SR     | TI     | TL     |
|------|--------|--------|--------|--------|--------|--------|--------|
| Avge | .18065 | .47965 | .34970 | .90170 | 8.1097 | 6.1223 | .32065 |
| SDev | .00068 | .00449 | .00596 | .00551 | .0095  | .0112  | .00194 |
| %RSD | .37680 | .93509 | 1.7033 | .61107 | .11769 | .18326 | .60554 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .18060 | .47680 | .34180 | .90760 | 8.0999 | 6.1196 | .32280 |
| #2 | .18160 | .48160 | .34840 | .89440 | 8.1038 | 6.1082 | .31980 |
| #3 | .18000 | .48500 | .35420 | .90340 | 8.1139 | 6.1268 | .31840 |
| #4 | .18040 | .47520 | .35440 | .90140 | 8.1209 | 6.1346 | .32160 |

| Elem | V      | ZN     |
|------|--------|--------|
| Avge | 1.6301 | 1.4636 |
| SDev | .0033  | .0037  |
| %RSD | .20098 | .25493 |

|    |        |        |
|----|--------|--------|
| #1 | 1.6318 | 1.4656 |
| #2 | 1.6252 | 1.4588 |
| #3 | 1.6320 | 1.4628 |
| #4 | 1.6314 | 1.4673 |

Method: QUANMET Standard: STD5B

**674 793**

Run Time: 11/05/00 08:48:54

*0057-058-11*

| Elem | AL     | CA     | FE     | K      | MG     | NA     |
|------|--------|--------|--------|--------|--------|--------|
| Avge | 11.257 | 25.437 | 29.382 | 2.3162 | 7.4236 | 48.788 |
| SDev | .040   | .050   | .051   | .0052  | .0224  | .330   |
| %RSD | .35374 | .19683 | .17505 | .22351 | .30159 | .67602 |
| #1   | 11.266 | 25.412 | 29.385 | 2.3166 | 7.4350 | 48.892 |
| #2   | 11.231 | 25.486 | 29.357 | 2.3088 | 7.4028 | 48.557 |
| #3   | 11.221 | 25.471 | 29.333 | 2.3190 | 7.4070 | 48.495 |
| #4   | 11.309 | 25.379 | 29.452 | 2.3204 | 7.4494 | 49.208 |

Method: QUANMET

Slope = Conc(SIR)/IR

| Element | Wavelen | High std | Low std | Slope   | Y-intercept | Date Standardized |
|---------|---------|----------|---------|---------|-------------|-------------------|
| AG      | 328.068 | STD5A    | STD1    | 7.14480 | .006788     | 11/05/00 08:48:54 |
| AL      | 308.215 | STD5B    | STD1    | 8.88944 | -.066226    | 11/05/00 08:48:54 |
| AS      | 193.696 | STD5A    | STD1    | 20.4306 | .031667     | 11/05/00 08:48:54 |
| B_      | 249.600 | STD5A    | STD1    | 17.2778 | .000000     | 11/05/00 08:48:54 |
| BA      | 493.409 | STD5A    | STD1    | 2.39844 | .000000     | 11/05/00 08:48:54 |
| BE      | 313.042 | STD5A    | STD1    | .639144 | -.001534    | 11/05/00 08:48:54 |
| CA      | 317.933 | STD5B    | STD1    | 3.93204 | -.019637    | 11/05/00 08:48:54 |
| CD      | 228.802 | STD5A    | STD1    | 11.5000 | .000440     | 11/05/00 08:48:54 |
| CO      | 228.616 | STD5A    | STD1    | 7.06531 | .000707     | 11/05/00 08:48:54 |
| CR      | 267.716 | STD5A    | STD1    | 2.68771 | -.001209    | 11/05/00 08:48:54 |
| CU      | 324.754 | STD5A    | STD1    | 4.40799 | -.001763    | 11/05/00 08:48:54 |
| FE      | 259.940 | STD5B    | STD1    | 3.40395 | -.013786    | 11/05/00 08:48:54 |
| K_      | 766.491 | STD5B    | STD1    | 42.6703 | 1.16703     | 11/05/00 08:48:54 |
| LI      | 670.789 | STD5A    | STD1    | 2.34729 | .000711     | 11/05/00 08:48:54 |
| MG      | 279.079 | STD5B    | STD1    | 13.4714 | -.005389    | 11/05/00 08:48:54 |
| MN      | 257.610 | STD5A    | STD1    | 5.00709 | -.000501    | 11/05/00 08:48:54 |
| MO      | 202.030 | STD5A    | STD1    | 26.1028 | -.002610    | 11/05/00 08:48:54 |
| NA      | 588.995 | STD5B    | STD1    | 2.05268 | -.146356    | 11/05/00 08:48:54 |
| NI      | 231.604 | STD5A    | STD1    | 5.87319 | -.003351    | 11/05/00 08:48:54 |
| PB      | 220.353 | STD5A    | STD1    | 40.0854 | -.006013    | 11/05/00 08:48:54 |
| SB      | 206.838 | STD5A    | STD1    | 55.3995 | -.002770    | 11/05/00 08:48:54 |
| SE      | 196.026 | STD5A    | STD1    | 20.8290 | .009373     | 11/05/00 08:48:54 |
| SI      | 288.158 | STD5A    | STD1    | 28.2902 | -.009902    | 11/05/00 08:48:54 |
| SN      | 189.989 | STD5A    | STD1    | 11.0863 | -.004989    | 11/05/00 08:48:54 |
| SR      | 409.552 | STD5A    | STD1    | 1.23310 | -.000036    | 11/05/00 08:48:54 |
| TI      | 334.941 | STD5A    | STD1    | 1.63391 | -.003268    | 11/05/00 08:48:54 |
| TL      | 190.864 | STD5A    | STD1    | 62.5470 | .018764     | 11/05/00 08:48:54 |
| V_      | 292.402 | STD5A    | STD1    | 6.03957 | .000000     | 11/05/00 08:48:54 |
| ZN      | 213.856 | STD5A    | STD1    | 6.85496 | -.005061    | 11/05/00 08:48:54 |

Method: QUANMET Sample Name: ICV2-1 0057-120-2 Operator: WTR

Run Time: 11/05/00 08:52:03

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP 674 795

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | B       | BA      | BE      | CA      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .50890  | 25.285  | 1.0476  | 1.0124  | .99822  | .97792  | 25.517  |
| SDev   | .00118  | .072    | .0296   | .0029   | .00675  | .00322  | .117    |
| %RSD   | .23182  | .28280  | 2.8236  | .29131  | .67595  | .32970  | .45924  |
| #1     | .50745  | 25.262  | 1.0121  | 1.0090  | .99764  | .97677  | 25.422  |
| #2     | .50888  | 25.257  | 1.0489  | 1.0125  | .99428  | .97434  | 25.510  |
| #3     | .51034  | 25.230  | 1.0449  | 1.0119  | .99304  | .97856  | 25.684  |
| #4     | .50893  | 25.390  | 1.0844  | 1.0162  | 1.0079  | .98200  | 25.451  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .55000  | 27.500  | 1.1000  | 1.1000  | 1.1000  | 1.1000  | 27.500  |
| Low    | .45000  | 22.500  | .90000  | .90000  | .90000  | .90000  | 22.500  |
| Elem   | CD      | CO      | CR      | CU      | FE      | K       | LI      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 1.0146  | 1.0018  | 1.0120  | .99245  | 26.221  | 24.821  | 1.0003  |
| SDev   | .0071   | .0026   | .0031   | .00469  | .072    | .219    | .0118   |
| %RSD   | .69689  | .25600  | .30815  | .47264  | .27495  | .88212  | 1.1826  |
| #1     | 1.0044  | .99900  | 1.0128  | .99045  | 26.146  | 24.772  | 1.0036  |
| #2     | 1.0173  | 1.0032  | 1.0160  | .98869  | 26.173  | 24.917  | .99511  |
| #3     | 1.0205  | 1.0046  | 1.0101  | .99135  | 26.277  | 25.054  | .98751  |
| #4     | 1.0164  | 1.0004  | 1.0090  | .99928  | 26.288  | 24.542  | 1.0151  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 1.1000  | 1.1000  | 1.1000  | 1.1000  | 27.500  | 27.500  | 1.1000  |
| Low    | .90000  | .90000  | .90000  | .90000  | 22.500  | 22.500  | .90000  |
| Elem   | MG      | MN      | MO      | NA      | NI      | PB      | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 25.493  | 1.0062  | .98877  | 24.965  | 1.0012  | 1.0414  | 1.0104  |
| SDev   | .043    | .0025   | .00784  | .219    | .0108   | .0198   | .0531   |
| %RSD   | .16932  | .25071  | .79289  | .87879  | 1.0831  | 1.8989  | 5.2571  |
| #1     | 25.477  | 1.0034  | .98224  | 24.995  | .99585  | 1.0414  | 1.0493  |
| #2     | 25.455  | 1.0054  | .98224  | 24.778  | .99615  | 1.0414  | .94943  |
| #3     | 25.485  | 1.0094  | .99269  | 24.825  | .99531  | 1.0657  | 1.0602  |
| #4     | 25.555  | 1.0064  | .99792  | 25.263  | 1.0174  | 1.0172  | .98286  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 27.500  | 1.1000  | 1.1000  | 27.500  | 1.1000  | 1.1000  | 1.1000  |
| Low    | 22.500  | .90000  | .90000  | 22.500  | .90000  | .90000  | .90000  |
| Elem   | SE      | SI      | SN      | SR      | TI      | TL      | V       |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 1.0232  | .99185  | 1.0188  | .99232  | .98696  | 4.9879  | .99257  |
| SDev   | .0421   | .00922  | .0348   | .00512  | .00349  | .1684   | .00249  |
| %RSD   | 4.1134  | .92919  | 3.4163  | .51557  | .35391  | 3.3769  | .25112  |
| #1     | 1.0178  | .99184  | .96965  | .99057  | .98492  | 4.9043  | .99128  |
| #2     | 1.0387  | .99184  | 1.0269  | .98909  | .98394  | 4.7914  | .99129  |



|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #3 | 1.0682 | 1.0032 | 1.0517 | .98968 | .98721 | 5.1155 | .99141 |
| #4 | .96821 | .98058 | 1.0270 | .99994 | .99178 | 5.1404 | .99631 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 1.1000  | 1.1000  | 1.1000  | 1.1000  | 1.1000  | 5.5000  | 1.1000  |
| Low    | .90000  | .90000  | .90000  | .90000  | .90000  | 4.5000  | .90000  |

|       |        |
|-------|--------|
| Elem  | ZN     |
| Units | ppm    |
| Avge  | .99663 |
| SDev  | .00427 |
| %RSD  | .42809 |

|    |        |
|----|--------|
| #1 | 1.0022 |
| #2 | .99424 |
| #3 | .99753 |
| #4 | .99253 |

|        |         |
|--------|---------|
| Errors | LC Pass |
| High   | 1.1000  |
| Low    | .90000  |

## Analysis Report

11/05/00 08:58:18 AM

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Method: QUANMET Sample Name: ICB1

Operator: WTR

Run Time: 11/05/00 08:55:12

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | B      | BA     | BE     | CA     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00321 | .01158 | .03362 | .02651 | .00015 | .00006 | .08595 |
| SDev  | .00143 | .00393 | .03507 | .00915 | .00010 | .00007 | .00170 |
| %RSD  | 44.452 | 33.946 | 104.31 | 34.504 | 66.667 | 115.47 | 1.9812 |

|    |        |        |         |        |        |         |        |
|----|--------|--------|---------|--------|--------|---------|--------|
| #1 | .00536 | .01028 | .06428  | .03109 | .00020 | .00013  | .08431 |
| #2 | .00250 | .01556 | .05607  | .03109 | .00020 | -.00000 | .08694 |
| #3 | .00250 | .01380 | -.01338 | .03108 | .00000 | .00013  | .08782 |
| #4 | .00250 | .00669 | .02753  | .01279 | .00020 | -.00000 | .08472 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .30000  | .20000  | .20000  | .00500  | 5.0000  |
| Low    | -.01000 | -.20000 | -.30000 | -.20000 | -.20000 | -.00500 | -5.0000 |

| Elem  | CD      | CO     | CR     | CU      | FE      | K      | LI      |
|-------|---------|--------|--------|---------|---------|--------|---------|
| Units | ppm     | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     |
| Avge  | -.00071 | .00283 | .00054 | -.00110 | -.00476 | .09174 | -.00050 |
| SDev  | .00358  | .00082 | .00119 | .00084  | .00086  | .27539 | .00145  |
| %RSD  | 505.90  | 28.972 | 221.72 | 76.807  | 17.983  | 300.18 | 291.67  |

|    |          |        |         |         |         |         |         |
|----|----------|--------|---------|---------|---------|---------|---------|
| #1 | .00067   | .00212 | -.00121 | -.00176 | -.00493 | -.25816 | -.00219 |
| #2 | -.00019  | .00212 | .00148  | -.00176 | -.00357 | .03200  | .00071  |
| #3 | .00250   | .00352 | .00094  | .00000  | -.00561 | .39043  | .00071  |
| #4 | L-.00581 | .00355 | .00094  | -.00088 | -.00493 | .20268  | -.00122 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .00500  | .05000  | .01000  | .02500  | .10000  | 5.0000  | .05000  |
| Low    | -.00500 | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.05000 |

| Elem  | MG     | MN      | MO     | NA      | NI      | PB     | SB      |
|-------|--------|---------|--------|---------|---------|--------|---------|
| Units | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     |
| Avge  | .00067 | -.00050 | .00130 | -.00523 | -.00816 | .02010 | -.00562 |
| SDev  | .00709 | .00000  | .00261 | .00749  | .00592  | .03486 | .01390  |
| %RSD  | 1052.0 | .18279  | 200.10 | 143.11  | 72.625  | 173.40 | 247.27  |

|    |         |         |         |         |         |         |         |
|----|---------|---------|---------|---------|---------|---------|---------|
| #1 | -.00000 | -.00050 | -.00261 | -.00431 | -.01454 | -.00595 | .00816  |
| #2 | -.00269 | -.00050 | .00261  | -.00718 | -.01185 | .05015  | -.00288 |
| #3 | .01078  | -.00050 | .00261  | -.01375 | -.00328 | -.01395 | -.00279 |
| #4 | -.00539 | -.00050 | .00261  | .00431  | -.00295 | .05016  | -.02497 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 5.0000  | .01500  | .04000  | 5.0000  | .04000  | .10000  | .06000  |
| Low    | -5.0000 | -.01500 | -.04000 | -5.0000 | -.04000 | -.10000 | -.06000 |

| Elem  | SE     | SI     | SN      | SR     | TI     | TL      | V      |
|-------|--------|--------|---------|--------|--------|---------|--------|
| Units | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avge  | .04998 | .01132 | -.00003 | .00006 | .00074 | -.01561 | .00002 |
| SDev  | .02599 | .00283 | .01108  | .00012 | .00016 | .02774  | .00004 |
| %RSD  | 51.999 | 25.000 | 41568.  | 195.33 | 22.222 | 177.71  | 201.23 |

|    |        |        |         |         |        |         |         |
|----|--------|--------|---------|---------|--------|---------|---------|
| #1 | .05518 | .01273 | .01500  | -.00004 | .00065 | -.00622 | -.00004 |
| #2 | .02603 | .00707 | -.00944 | .00021  | .00065 | -.00624 | .00004  |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| #3     | .03435  | .01273  | -.00722 | .00011  | .00065  | .00628  | .00004  |
| #4     | .08434  | .01273  | .00155  | -.00004 | .00098  | -.05627 | .00004  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .25000  | .50000  | .10000  | .05000  | .05000  | .30000  | .05000  |
| Low    | -.25000 | -.50000 | -.10000 | -.05000 | -.05000 | -.30000 | -.05000 |

Elem ZN  
Units ppm  
Avge .00291  
SDev .00151  
%RSD 51.702

#1 .00128  
#2 .00378  
#3 .00455  
#4 .00205

Errors LC Pass  
High .02000  
Low -.02000

Method: QUANMET Sample Name: IC5A 0057-115-1

Operator: WTR

Run Time: 11/05/00 08:58:20

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Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | B_      | BA      | BE      | CA      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00056  | 496.40  | .28587  | -.04164 | .00202  | .00002  | 487.38  |
| SDev   | .00115  | 1.14    | .06253  | .00311  | .00011  | .00006  | 2.12    |
| %RSD   | 207.49  | .22953  | 21.873  | 7.4694  | 5.6524  | 249.41  | .43517  |
| #1     | -.00097 | 496.60  | .36851  | -.03740 | .00192  | -.00000 | 485.58  |
| #2     | .00183  | 494.85  | .29676  | -.04470 | .00192  | -.00001 | 485.58  |
| #3     | .00063  | 496.59  | .22487  | -.04294 | .00212  | .00012  | 488.68  |
| #4     | .00074  | 497.59  | .25332  | -.04151 | .00212  | -.00001 | 489.69  |
| Errors | NOCHECK | QC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass |
| Value  |         | 500.00  |         |         |         |         | 500.00  |
| Range  |         | 20.000  |         |         |         |         | 20.000  |
| Elem   | CD      | CO      | CR      | CU      | FE      | K_      | LI      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | -.00471 | .00994  | -.00014 | -.00238 | 186.55  | -.28162 | .00086  |
| SDev   | .00290  | .00142  | .00098  | .00090  | .62     | .16539  | .00084  |
| %RSD   | 61.443  | 14.293  | 717.88  | 37.738  | .32993  | 58.727  | 96.938  |
| #1     | -.00556 | .00924  | -.00121 | -.00352 | 186.21  | -.29229 | -.00026 |
| #2     | -.00840 | .01207  | .00094  | -.00267 | 185.90  | -.06187 | .00071  |
| #3     | -.00298 | .00923  | -.00068 | -.00169 | 186.83  | -.30936 | .00140  |
| #4     | -.00192 | .00922  | .00040  | -.00164 | 187.27  | -.46297 | .00159  |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | NOCHECK | NOCHECK |
| Value  |         |         |         |         | 200.00  |         |         |
| Range  |         |         |         |         | 20.000  |         |         |
| Elem   | MG      | MN      | MO      | NA      | NI      | PB      | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 490.19  | .00723  | -.00199 | -.00913 | -.00898 | .05679  | .00579  |
| SDev   | 1.44    | .00073  | .00304  | .00273  | .00674  | .01924  | .08786  |
| %RSD   | .29393  | 10.142  | 152.87  | 29.897  | 75.078  | 33.876  | 1516.9  |
| #1     | 489.52  | .00662  | .00058  | -.01088 | -.00498 | .06661  | -.06903 |
| #2     | 488.63  | .00656  | -.00469 | -.00513 | -.00193 | .02794  | -.05781 |
| #3     | 490.63  | .00780  | -.00456 | -.01088 | -.01669 | .06677  | .11935  |
| #4     | 491.97  | .00791  | .00071  | -.00965 | -.01232 | .06585  | .03066  |
| Errors | QC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  | 500.00  |         |         |         |         |         |         |
| Range  | 20.000  |         |         |         |         |         |         |
| Elem   | SE      | SI      | SN      | SR      | TI      | TL      | V_      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | -.04050 | .10047  | -.10018 | .01359  | -.02206 | .43153  | .00330  |
| SDev   | .11434  | .04469  | .01807  | .00026  | .00042  | .10653  | .00227  |
| %RSD   | 282.33  | 44.479  | 18.036  | 1.9044  | 1.9126  | 24.687  | 68.905  |
| #1     | -.06237 | .06365  | -.07672 | .01386  | -.02255 | .58246  | .00000  |
| #2     | -.17162 | .08632  | -.10998 | .01337  | -.02222 | .42333  | .00356  |

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Analysis Report

QC Standard

11/05/00 09:01:26 AM

page 2

|    |         |        |         |        |         |        |        |
|----|---------|--------|---------|--------|---------|--------|--------|
| #3 | .10616  | .16555 | -.11795 | .01337 | -.02189 | .33764 | .00477 |
| #4 | -.03416 | .08634 | -.09607 | .01376 | -.02157 | .38270 | .00484 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

|       |         |
|-------|---------|
| Elem  | ZN      |
| Units | ppm     |
| Avge  | -.00241 |
| SDev  | .00131  |
| %RSD  | 54.469  |

|    |         |
|----|---------|
| #1 | -.00149 |
| #2 | -.00122 |
| #3 | -.00287 |
| #4 | -.00405 |

|        |         |
|--------|---------|
| Errors | NOCHECK |
| Value  |         |
| Range  |         |

Method: QUANMET Sample Name: ICSAB 0057-130-11 Operator: WTR  
 Run Time: 11/05/00 09:01:29  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP  
 Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | B_     | BA     | BE     | CA     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .96110 | 493.20 | 1.0232 | .91328 | .46965 | .45705 | 484.09 |
| SDev  | .00325 | 2.02   | .1025  | .02485 | .00205 | .00197 | 1.94   |
| %RSD  | .33814 | .40951 | 10.016 | 2.7205 | .43573 | .43032 | .40114 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .95956 | 491.87 | 1.1762 | .90762 | .46888 | .45549 | 483.93 |
| #2 | .95808 | 491.10 | .95767 | .88886 | .46716 | .45548 | 481.98 |
| #3 | .96114 | 494.64 | .97798 | .90867 | .47080 | .45765 | 483.77 |
| #4 | .96560 | 495.19 | .98110 | .94795 | .47176 | .45957 | 486.69 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | 1.0000  | 500.00  | 1.0000  | 1.0000  | .50000  | .50000  | 500.00  |
| Range  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  |

| Elem  | CD     | CO     | CR     | CU     | FE     | K_     | LI     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .96297 | .46077 | .44999 | .48856 | 185.61 | 10.055 | .99849 |
| SDev  | .00889 | .00466 | .00258 | .00239 | .66    | .287   | .00830 |
| %RSD  | .92282 | 1.0106 | .57283 | .48853 | .35648 | 2.8517 | .83172 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .95031 | .45975 | .45134 | .48609 | 185.22 | 10.025 | .98945 |
| #2 | .96749 | .45546 | .44811 | .48694 | 184.97 | 10.452 | .99348 |
| #3 | .96365 | .46111 | .45294 | .49057 | 185.78 | 9.7694 | 1.0047 |
| #4 | .97043 | .46674 | .44757 | .49065 | 186.46 | 9.9742 | 1.0063 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | 1.0000  | .50000  | .50000  | .50000  | 200.00  | 10.000  | 1.0000  |
| Range  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  |

| Elem  | MG     | MN     | MO     | NA     | NI     | PB     | SB     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | 485.77 | .45995 | .89844 | 10.019 | .86371 | .99468 | .93096 |
| SDev  | 1.95   | .00222 | .01209 | .053   | .02139 | .02806 | .03995 |
| %RSD  | .40231 | .48359 | 1.3458 | .53182 | 2.4760 | 2.8207 | 4.2914 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 484.14 | .46037 | .90883 | 9.9701 | .83782 | 1.0137 | .89473 |
| #2 | 484.13 | .45730 | .88791 | 9.9853 | .87272 | .95806 | .90606 |
| #3 | 486.80 | .45947 | .88802 | 10.088 | .85670 | .98762 | .93929 |
| #4 | 488.01 | .46267 | .90899 | 10.032 | .88761 | 1.0194 | .98375 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | 500.00  | .50000  | 1.0000  | 10.000  | 1.0000  | 1.0000  | 1.0000  |
| Range  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  |

| Elem  | SE     | SI     | SN     | SR     | TI     | TL     | V_     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .95435 | 1.0507 | .85224 | .93751 | .88999 | 9.7115 | .46072 |
| SDev  | .03829 | .0587  | .02994 | .00390 | .00299 | .1092  | .00222 |
| %RSD  | 4.0120 | 5.5887 | 3.5137 | .41619 | .33585 | 1.1243 | .48130 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .93860 | 1.0252 | .85757 | .93476 | .88852 | 9.5971 | .45754 |
| #2 | .90867 | 1.0252 | .87753 | .93358 | .88656 | 9.6500 | .46088 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #3 | .99445 | 1.0139 | .80906 | .94043 | .89179 | 9.8408 | .46210 |
| #4 | .97569 | 1.1384 | .86479 | .94127 | .89309 | 9.7580 | .46236 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | 1.0000  | 1.0000  | 1.0000  | 1.0000  | 1.0000  | 10.000  | .50000  |
| Range  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  |

Elem ZN  
Units ppm  
Avge .93623  
SDev .00305  
%RSD .32557

|    |        |
|----|--------|
| #1 | .93312 |
| #2 | .93441 |
| #3 | .93986 |
| #4 | .93753 |

|        |         |
|--------|---------|
| Errors | QC Pass |
| Value  | 1.0000  |
| Range  | 20.000  |

## Analysis Report

11/05/00 09:09:58 AM

page 1

Method: QUANMET Sample Name: DPAMLBT Operator: WTR  
 Run Time: 11/05/00 09:06:53  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP  
 Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | B_       | BA      | BE      | CA      |
|--------|---------|---------|---------|----------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .00180  | .05025  | .16198  | .02715   | .00101  | -.00001 | .41513  |
| SDev   | .00082  | .00686  | .08595  | .00945   | .00010  | .00001  | .00179  |
| %RSD   | 45.768  | 13.652  | 53.065  | 34.794   | 9.7902  | 92.084  | .43028  |
| #1     | .00108  | .04226  | .28874  | .02318   | .00096  | -.00000 | .41326  |
| #2     | .00109  | .04760  | .11294  | .03801   | .00096  | -.00001 | .41673  |
| #3     | .00252  | .05819  | .14145  | .03112   | .00096  | -.00001 | .41659  |
| #4     | .00250  | .05296  | .10479  | .01628   | .00116  | -.00000 | .41395  |
| Errors | LC Pass | NOCHECK | LC Pass | NOCHECK  | LC Pass | NOCHECK | NOCHECK |
| High   | .50000  |         | .50000  |          | 10.000  |         |         |
| Low    | -.50000 |         | -.50000 |          | -10.000 |         |         |
| Elem   | CD      | CO      | CR      | CU       | FE      | K_      | LI      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | -.00137 | .00212  | .00228  | .00088   | .00783  | .39470  | .00059  |
| SDev   | .00113  | .00305  | .00347  | .00072   | .00140  | .24193  | .00023  |
| %RSD   | 82.460  | 143.85  | 152.00  | 81.444   | 17.937  | 61.295  | 39.535  |
| #1     | -.00279 | .00213  | -.00014 | .00088   | .00664  | .38190  | .00071  |
| #2     | -.00080 | .00636  | .00739  | .00089   | .00664  | .55258  | .00071  |
| #3     | -.00020 | .00070  | .00148  | .00176   | .00937  | .58672  | .00024  |
| #4     | -.00169 | -.00070 | .00040  | .00000   | .00868  | .05760  | .00071  |
| Errors | LC Pass | NOCHECK | LC Pass | NOCHECK  | NOCHECK | NOCHECK | NOCHECK |
| High   | .10000  |         | .50000  |          |         |         |         |
| Low    | -.10000 |         | -.50000 |          |         |         |         |
| Elem   | MG      | MN      | MO      | NA       | NI      | PB      | SB      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .01684  | .00075  | -.00391 | S-.14636 | -.00252 | .04010  | -.00279 |
| SDev   | .00674  | .00050  | .00261  | .00000   | .00318  | .02655  | .00910  |
| %RSD   | 40.000  | 66.562  | 66.682  | .00000   | 126.01  | 66.197  | 325.99  |
| #1     | .01347  | .00050  | -.00261 | S-.14636 | -.00287 | .04209  | -.01392 |
| #2     | .01347  | .00050  | -.00261 | S-.14636 | .00093  | .05826  | -.00284 |
| #3     | .02694  | .00050  | -.00261 | S-.14636 | -.00148 | .05811  | .00836  |
| #4     | .01347  | .00150  | -.00783 | S-.14636 | -.00667 | .00194  | -.00275 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK  | NOCHECK | LC Pass | NOCHECK |
| High   |         |         |         |          |         | .50000  |         |
| Low    |         |         |         |          |         | -.50000 |         |
| Elem   | SE      | SI      | SN      | SR       | TI      | TL      | V_      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .02085  | .10329  | .00387  | .00117   | .00082  | .08119  | .00267  |
| SDev   | .02792  | .00003  | .02820  | .00032   | .00042  | .03535  | .00252  |
| %RSD   | 133.88  | .02809  | 729.11  | 27.044   | 51.640  | 43.538  | 94.364  |
| #1     | .04272  | .10327  | .02821  | .00144   | .00033  | .05619  | .00117  |
| #2     | .01356  | .10332  | .02826  | .00085   | .00065  | .13119  | .00481  |



|    |         |        |         |        |        |        |         |
|----|---------|--------|---------|--------|--------|--------|---------|
| #3 | -.01559 | .10332 | -.01826 | .00095 | .00131 | .08117 | .00480  |
| #4 | .04273  | .10326 | -.02274 | .00144 | .00098 | .05621 | -.00010 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| High   | .25000  |         |         |         |         |         |         |
| Low    | -.25000 |         |         |         |         |         |         |

|       |        |
|-------|--------|
| Elem  | ZN     |
| Units | ppm    |
| Avge  | .00056 |
| SDev  | .00103 |
| %RSD  | 183.67 |

|    |         |
|----|---------|
| #1 | -.00013 |
| #2 | .00205  |
| #3 | -.00012 |
| #4 | .00044  |

|        |         |
|--------|---------|
| Errors | NOCHECK |
| High   |         |
| Low    |         |

## Analysis Report

11/05/00 09:13:06 AM

674 805

page 1

Method: QUANMET Sample Name: DPC5HBT

Operator: WTR

Run Time: 11/05/00 09:10:00

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | B_     | BA     | BE      | CA      |
|-------|--------|--------|--------|--------|--------|---------|---------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avge  | .00036 | .00983 | .03874 | .01235 | .00000 | -.00000 | -.00080 |
| SDev  | .00082 | .00303 | .01901 | .01519 | .00000 | .00000  | .00143  |
| %RSD  | 230.47 | 30.868 | 49.061 | 123.00 | .00000 | .00000  | 179.14  |

|    |         |        |        |         |        |         |         |
|----|---------|--------|--------|---------|--------|---------|---------|
| #1 | .00107  | .01387 | .01930 | -.00000 | .00000 | -.00000 | -.00118 |
| #2 | -.00036 | .00851 | .03977 | .01830  | .00000 | -.00000 | -.00261 |
| #3 | -.00036 | .01015 | .03158 | .03111  | .00000 | -.00000 | .00067  |
| #4 | .00107  | .00676 | .06430 | -.00000 | .00000 | -.00000 | -.00007 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | NOCHECK | LC Pass | NOCHECK | LC Pass | NOCHECK | NOCHECK |
| High   | .50000  |         | .50000  |         | 10.000  |         |         |
| Low    | -.50000 |         | -.50000 |         | -10.000 |         |         |

| Elem  | CD     | CO     | CR      | CU     | FE     | K_     | LI      |
|-------|--------|--------|---------|--------|--------|--------|---------|
| Units | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     |
| Avge  | .00046 | .00247 | -.00094 | .00000 | .00323 | .16855 | -.00046 |
| SDev  | .00189 | .00291 | .00069  | .00000 | .00079 | .25191 | .00136  |
| %RSD  | 416.13 | 117.80 | 73.821  | 102.71 | 24.324 | 149.46 | 292.98  |

|    |         |         |         |         |        |         |         |
|----|---------|---------|---------|---------|--------|---------|---------|
| #1 | .00254  | .00494  | -.00013 | .00001  | .00255 | .15148  | .00071  |
| #2 | .00134  | -.00071 | -.00175 | -.00000 | .00255 | -.18135 | -.00164 |
| #3 | -.00181 | .00071  | -.00067 | .00000  | .00392 | .36483  | .00071  |
| #4 | -.00026 | .00495  | -.00121 | .00001  | .00392 | .33923  | -.00164 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | NOCHECK | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| High   | .10000  |         | .50000  |         |         |         |         |
| Low    | -.10000 |         | -.50000 |         |         |         |         |

| Elem  | MG     | MN      | MO      | NA     | NI      | PB     | SB      |
|-------|--------|---------|---------|--------|---------|--------|---------|
| Units | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    | ppm     |
| Avge  | .00404 | .00000  | -.00130 | .00062 | -.00163 | .02209 | -.01110 |
| SDev  | .01683 | .00058  | .00657  | .00649 | .00323  | .01532 | .02625  |
| %RSD  | 416.33 | 175630. | 503.49  | 1054.1 | 198.28  | 69.345 | 236.54  |

|    |         |         |         |         |         |        |         |
|----|---------|---------|---------|---------|---------|--------|---------|
| #1 | .00808  | .00050  | -.00261 | .00965  | -.00452 | .03420 | .00830  |
| #2 | -.01886 | .00050  | -.00783 | .00103  | -.00405 | .01799 | -.01390 |
| #3 | .02155  | -.00050 | .00783  | -.00390 | -.00020 | .03402 | -.04719 |
| #4 | .00539  | -.00050 | -.00261 | -.00431 | .00225  | .00214 | .00840  |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | NOCHECK |
| High   |         |         |         |         |         | .50000  |         |
| Low    |         |         |         |         |         | -.50000 |         |

| Elem  | SE     | SI      | SN     | SR      | TI     | TL     | V_      |
|-------|--------|---------|--------|---------|--------|--------|---------|
| Units | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     |
| Avge  | .01876 | -.00141 | .01049 | .00007  | .00016 | .01871 | -.00002 |
| SDev  | .00711 | .00980  | .01828 | .00007  | .00033 | .02283 | .00009  |
| %RSD  | 37.934 | 692.82  | 174.30 | 100.000 | 200.00 | 122.03 | 451.64  |

|    |        |         |         |        |         |         |         |
|----|--------|---------|---------|--------|---------|---------|---------|
| #1 | .02604 | .01273  | -.00052 | .00011 | .00033  | .04372  | -.00003 |
| #2 | .00938 | -.00990 | .02378  | .00011 | -.00033 | -.00627 | -.00011 |

|    |        |         |         |         |        |        |         |
|----|--------|---------|---------|---------|--------|--------|---------|
| #3 | .01772 | -.00424 | .02807  | -.00004 | .00033 | .03122 | .00010  |
| #4 | .02188 | -.00424 | -.00939 | .00011  | .00033 | .00616 | -.00004 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| High   | .25000  |         |         |         |         |         |         |
| Low    | -.25000 |         |         |         |         |         |         |

|       |         |
|-------|---------|
| Elem  | ZN      |
| Units | ppm     |
| Avge  | -.00076 |
| SDev  | .00056  |
| %RSD  | 73.069  |

|    |         |
|----|---------|
| #1 | -.00069 |
| #2 | -.00150 |
| #3 | -.00070 |
| #4 | -.00015 |

|        |         |
|--------|---------|
| Errors | NOCHECK |
| High   |         |
| Low    |         |

## Analysis Report

674 807  
11/05/00 09:16:14 AM page 1

Method: QUANMET Sample Name: DPC5HCT Operator: WTR  
Run Time: 11/05/00 09:13:08  
Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP  
Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | B      | BA     | BE     | CA     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .05122 | 1.9998 | 2.2815 | .94489 | 1.9067 | .04731 | .42672 |
| SDev  | .00186 | .0243  | .0380  | .00186 | .0194  | .00041 | .00494 |
| %RSD  | 3.6302 | 1.2133 | 1.6641 | .19703 | 1.0156 | .87099 | 1.1584 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .05340 | 2.0296 | 2.2954 | .94590 | 1.9260 | .04777 | .43338 |
| #2 | .04907 | 2.0083 | 2.2467 | .94246 | 1.9196 | .04754 | .42144 |
| #3 | .05191 | 1.9870 | 2.3287 | .94448 | 1.8965 | .04704 | .42575 |
| #4 | .05050 | 1.9744 | 2.2552 | .94670 | 1.8847 | .04690 | .42630 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | NOCHECK | LC Pass | NOCHECK | LC Pass | NOCHECK | NOCHECK |
| High   | .06000  |         | 2.4000  |         | 2.4000  |         |         |
| Low    | .04000  |         | 1.6000  |         | 1.6000  |         |         |

| Elem  | CD     | CO     | CR     | CU     | FE     | K      | LI     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .04757 | .48121 | .19527 | .24523 | 1.0191 | .20908 | .97411 |
| SDev  | .00153 | .00785 | .00098 | .00310 | .0093  | .32305 | .01368 |
| %RSD  | 3.2269 | 1.6321 | .50184 | 1.2653 | .90841 | 154.51 | 1.4042 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .04570 | .49286 | .19634 | .24833 | 1.0299 | .45017 | .98315 |
| #2 | .04809 | .47873 | .19420 | .24743 | 1.0237 | .03200 | .98784 |
| #3 | .04715 | .47591 | .19474 | .24302 | 1.0128 | .15575 | .96672 |
| #4 | .04934 | .47733 | .19581 | .24214 | 1.0101 | .50991 | .95874 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | NOCHECK | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| High   | .06000  |         | .24000  |         |         |         |         |
| Low    | .04000  |         | .16000  |         |         |         |         |

| Elem  | MG     | MN     | MO     | NA       | NI     | PB     | SB      |
|-------|--------|--------|--------|----------|--------|--------|---------|
| Units | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm     |
| Avge  | .00943 | .48269 | .00144 | S-.14636 | .48253 | .48009 | -.00458 |
| SDev  | .00269 | .00288 | .00500 | .00000   | .00439 | .02408 | .01664  |
| %RSD  | 28.571 | .59657 | 347.90 | .00000   | .91065 | 5.0159 | 363.67  |

|    |        |        |         |          |        |        |         |
|----|--------|--------|---------|----------|--------|--------|---------|
| #1 | .01078 | .48645 | .00796  | S-.14636 | .48067 | .51045 | .00372  |
| #2 | .00539 | .48345 | -.00248 | S-.14636 | .48523 | .45399 | .01485  |
| #3 | .01078 | .48044 | -.00248 | S-.14636 | .47727 | .48596 | -.01848 |
| #4 | .01078 | .48044 | .00274  | S-.14636 | .48694 | .46997 | -.01839 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | NOCHECK |
| High   |         |         |         |         |         | .60000  |         |
| Low    |         |         |         |         |         | .40000  |         |

| Elem  | SE     | SI     | SN     | SR     | TI     | TL     | V      |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | 2.2037 | .10179 | .01845 | .95706 | .00041 | 1.9394 | .48001 |
| SDev  | .0635  | .00850 | .00901 | .00908 | .00067 | .0879  | .00614 |
| %RSD  | 2.8803 | 8.3535 | 48.829 | .94880 | 164.92 | 4.5334 | 1.2793 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | 2.2704 | .10897 | .03068 | .96654 | .00098  | 2.0674 | .48855 |
| #2 | 2.1954 | .09188 | .01964 | .96255 | -.00033 | 1.9050 | .47875 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #3 | 2.2287 | .10880 | .01285 | .95234 | .00098  | 1.9176 | .47392 |
| #4 | 2.1203 | .09754 | .01063 | .94681 | -.00000 | 1.8676 | .47882 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| High   | 2.4000  |         |         |         |         |         |         |
| Low    | 1.6000  |         |         |         |         |         |         |

|       |        |
|-------|--------|
| Elem  | ZN     |
| Units | ppm    |
| Avge  | .49821 |
| SDev  | .00288 |
| %RSD  | .57737 |

|    |        |
|----|--------|
| #1 | .50209 |
| #2 | .49816 |
| #3 | .49738 |
| #4 | .49520 |

|        |         |
|--------|---------|
| Errors | NOCHECK |
| High   |         |
| Low    |         |

## Analysis Report

11/05/00 09:19:21 AM

674 809

page 1

Method: QUANMET Sample Name: DN4P6T

Operator: WTR

Run Time: 11/05/00 09:16:16

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | B_     | BA     | BE     | CA     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00197 | .67633 | .19683 | .02228 | .27471 | .00144 | 24.589 |
| SDev  | .00185 | .00691 | .09026 | .01525 | .00121 | .00006 | .135   |
| %RSD  | 94.001 | 1.0210 | 45.859 | 68.434 | .44190 | 4.4444 | .54977 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | .00412  | .67543 | .21420 | .01602 | .27325 | .00153 | 24.390 |
| #2 | -.00018 | .67008 | .23059 | .01399 | .27545 | .00141 | 24.635 |
| #3 | .00125  | .68613 | .27541 | .01400 | .27593 | .00141 | 24.690 |
| #4 | .00268  | .67367 | .06711 | .04510 | .27421 | .00141 | 24.643 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 100.00  | 100.00  | 100.00  | 15.000  | 600.00  |
| Low    | -.01000 | -.20000 | -.30000 | -.20000 | -.20000 | -.00500 | -5.0000 |

| Elem  | CD      | CO     | CR     | CU     | FE     | K_     | LI     |
|-------|---------|--------|--------|--------|--------|--------|--------|
| Units | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | -.00042 | .02036 | .00148 | .01215 | .11046 | .95581 | .00242 |
| SDev  | .00316  | .00116 | .00252 | .00044 | .00226 | .19909 | .00182 |
| %RSD  | 758.74  | 5.7110 | 170.54 | 3.6265 | 2.0442 | 20.830 | 75.150 |

|    |         |        |         |        |        |        |        |
|----|---------|--------|---------|--------|--------|--------|--------|
| #1 | -.00416 | .02179 | .00202  | .01238 | .10876 | 1.2438 | .00099 |
| #2 | .00025  | .02036 | -.00121 | .01237 | .10876 | .85127 | .00071 |
| #3 | -.00120 | .02037 | .00040  | .01149 | .11080 | .80007 | .00400 |
| #4 | .00344  | .01894 | .00470  | .01237 | .11353 | .92808 | .00400 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  | 100.00  | 400.00  | 1000.0  | 20.000  |
| Low    | -.00500 | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.05000 |

| Elem  | MG     | MN     | MO     | NA       | NI     | PB     | SB     |
|-------|--------|--------|--------|----------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    |
| Avge  | 8.6082 | 6.8823 | .00001 | S-.14636 | .03659 | .00805 | .00599 |
| SDev  | .0432  | .0396  | .00301 | .00000   | .00659 | .02806 | .01664 |
| %RSD  | .50143 | .57483 | 21109. | .00000   | 18.012 | 348.50 | 277.89 |

|    |        |        |         |          |        |         |         |
|----|--------|--------|---------|----------|--------|---------|---------|
| #1 | 8.5597 | 6.8252 | .00262  | S-.14636 | .03714 | -.00595 | -.00232 |
| #2 | 8.6459 | 6.9063 | .00262  | S-.14636 | .03728 | -.00599 | -.00230 |
| #3 | 8.6432 | 6.9113 | -.00260 | S-.14636 | .02795 | -.00600 | -.00236 |
| #4 | 8.5840 | 6.8863 | -.00260 | S-.14636 | .04400 | .05014  | .03094  |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 600.00  | 100.00  | 50.000  | 400.00  | 100.00  | 100.00  | 100.00  |
| Low    | -5.0000 | -.01500 | -.04000 | -5.0000 | -.04000 | -.10000 | -.06000 |

| Elem  | SE     | SI     | SN      | SR     | TI     | TL     | V_     |
|-------|--------|--------|---------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avge  | .02741 | 2.0807 | -.00273 | .23288 | .00172 | .04154 | .00000 |
| SDev  | .05875 | .0098  | .00836  | .00133 | .00049 | .05244 | .00004 |
| %RSD  | 214.31 | .47098 | 305.76  | .56893 | 28.571 | 126.24 | 1040.1 |

|    |        |        |         |        |        |        |        |
|----|--------|--------|---------|--------|--------|--------|--------|
| #1 | .05136 | 2.0723 | -.00499 | .23103 | .00229 | .01922 | .00004 |
| #2 | .09302 | 2.0779 | -.00277 | .23379 | .00131 | .01985 | .00003 |

|    |         |        |         |        |        |        |         |
|----|---------|--------|---------|--------|--------|--------|---------|
| #3 | -.04445 | 2.0779 | -.01164 | .23389 | .00131 | .00736 | -.00003 |
| #4 | .00972  | 2.0949 | .00846  | .23280 | .00196 | .11973 | -.00002 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 100.00  | 50.000  | 50.000  | 100.00  | 100.00  |
| Low    | -.25000 | -.50000 | -.10000 | -.05000 | -.05000 | -2.0000 | -.05000 |

Elem ZN  
Units ppm  
Avge .04766  
SDev .00105  
%RSD 2.1973

#1 .04790  
#2 .04629  
#3 .04882  
#4 .04764

Errors LC Pass  
High 100.00  
Low -.02000

## Analysis Report

674 811

11/05/00 09:22:29 AM

page 1

Method: QUANMET Sample Name: DN4P6P5T Operator: WTR  
 Run Time: 11/05/00 09:19:24  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP  
 Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | B_     | BA     | BE     | CA     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00117 | .14232 | .08571 | .01038 | .05663 | .00032 | 5.0138 |
| SDev  | .00181 | .00463 | .04813 | .00000 | .00085 | .00008 | .0337  |
| %RSD  | 154.75 | 3.2563 | 56.156 | .03165 | 1.4964 | 23.884 | .67166 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | .00368  | .14016 | .13679 | .01038 | .05536 | .00026 | 4.9771 |
| #2 | .00081  | .14178 | .05097 | .01039 | .05700 | .00026 | 5.0368 |
| #3 | .00082  | .14896 | .11629 | .01039 | .05708 | .00038 | 5.0473 |
| #4 | -.00064 | .13840 | .03881 | .01038 | .05708 | .00039 | 4.9938 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 100.00  | 100.00  | 100.00  | 15.000  | 600.00  |
| Low    | -.01000 | -.20000 | -.30000 | -.20000 | -.20000 | -.00500 | -5.0000 |

| Elem  | CD     | CO     | CR     | CU     | FE     | K_     | LI     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00147 | .00633 | .00215 | .00199 | .01498 | .20695 | .00083 |
| SDev  | .00150 | .00200 | .00238 | .00085 | .00211 | .37196 | .00032 |
| %RSD  | 102.10 | 31.627 | 110.60 | 42.463 | 14.080 | 179.73 | 39.288 |

|    |        |        |         |        |        |         |        |
|----|--------|--------|---------|--------|--------|---------|--------|
| #1 | .00030 | .00916 | .00040  | .00266 | .01617 | .39897  | .00071 |
| #2 | .00314 | .00491 | -.00013 | .00089 | .01481 | -.30083 | .00043 |
| #3 | .00011 | .00633 | .00470  | .00265 | .01685 | .55258  | .00118 |
| #4 | .00233 | .00491 | .00363  | .00177 | .01208 | .17708  | .00099 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  | 100.00  | 400.00  | 1000.0  | 20.000  |
| Low    | -.00500 | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.05000 |

| Elem  | MG     | MN     | MO     | NA     | NI     | PB     | SB     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | 1.7978 | 1.4032 | .00131 | 267.51 | .00248 | .00209 | .01940 |
| SDev  | .0203  | .0140  | .00500 | 4.78   | .00396 | .01460 | .03010 |
| %RSD  | 1.1307 | .99642 | 382.41 | 1.7850 | 159.49 | 697.64 | 155.17 |

|    |        |        |         |        |         |         |         |
|----|--------|--------|---------|--------|---------|---------|---------|
| #1 | 1.7674 | 1.3835 | -.00261 | 260.55 | .00636  | -.00579 | .06387  |
| #2 | 1.8106 | 1.4145 | .00783  | 271.41 | .00032  | -.01399 | .00834  |
| #3 | 1.8052 | 1.4115 | .00261  | 269.10 | -.00196 | .01009  | .00817  |
| #4 | 1.8079 | 1.4035 | -.00261 | 269.00 | .00522  | .01806  | -.00278 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 600.00  | 100.00  | 50.000  | 400.00  | 100.00  | 100.00  | 100.00  |
| Low    | -5.0000 | -.01500 | -.04000 | -5.0000 | -.04000 | -.10000 | -.06000 |

| Elem  | SE     | SI     | SN     | SR     | TI     | TL     | V_      |
|-------|--------|--------|--------|--------|--------|--------|---------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avge  | .01671 | .43990 | .00507 | .04787 | .00049 | .08239 | -.00119 |
| SDev  | .02316 | .00328 | .02782 | .00097 | .00057 | .07658 | .00245  |
| %RSD  | 138.59 | .74634 | 548.68 | 2.0332 | 115.47 | 92.947 | 206.51  |

|    |        |        |         |        |         |        |         |
|----|--------|--------|---------|--------|---------|--------|---------|
| #1 | .00526 | .43708 | -.02024 | .04643 | .00098  | .17914 | -.00003 |
| #2 | .00942 | .44274 | -.01604 | .04840 | -.00000 | .00430 | .00010  |



|    |        |        |        |        |         |        |         |
|----|--------|--------|--------|--------|---------|--------|---------|
| #3 | .00109 | .44274 | .03717 | .04850 | .00098  | .04177 | .00005  |
| #4 | .05107 | .43703 | .01939 | .04816 | -.00000 | .10435 | -.00486 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 100.00  | 50.000  | 50.000  | 100.00  | 100.00  |
| Low    | -.25000 | -.50000 | -.10000 | -.05000 | -.05000 | -2.0000 | -.05000 |

|       |        |
|-------|--------|
| Elem  | ZN     |
| Units | ppm    |
| Avge  | .00867 |
| SDev  | .00196 |
| %RSD  | 22.638 |

|    |        |
|----|--------|
| #1 | .01023 |
| #2 | .00614 |
| #3 | .00808 |
| #4 | .01021 |

|        |         |
|--------|---------|
| Errors | LC Pass |
| High   | 100.00  |
| Low    | -.02000 |

## Analysis Report

11/05/00 09:25:37 AM

674 813

page 1

Method: QUANMET Sample Name: DN4P6ST

Operator: WTR

Run Time: 11/05/00 09:22:32

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | B_     | BA     | BE     | CA     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .93442 | .64303 | 5.2026 | .02177 | 45.416 | .00134 | 23.351 |
| SDev  | .00387 | .00493 | .0457  | .01555 | .331   | .00008 | .033   |
| %RSD  | .41429 | .76695 | .87766 | 71.437 | .72836 | 5.7320 | .14344 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .93156 | .64538 | 5.2608 | .01399 | 45.348 | .00141 | 23.346 |
| #2 | .93299 | .63813 | 5.1751 | .04509 | 45.300 | .00141 | 23.394 |
| #3 | .93301 | .63982 | 5.1587 | .01400 | 45.125 | .00128 | 23.313 |
| #4 | .94014 | .64878 | 5.2158 | .01399 | 45.891 | .00128 | 23.349 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 100.00  | 100.00  | 100.00  | 15.000  | 600.00  |
| Low    | -.01000 | -.20000 | -.30000 | -.20000 | -.20000 | -.00500 | -5.0000 |

| Elem  | CD     | CO     | CR     | CU     | FE     | K_     | LI     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .95467 | .02161 | 4.5924 | .01127 | .10859 | .61872 | .00101 |
| SDev  | .00459 | .00281 | .0141  | .00084 | .00196 | .29409 | .00022 |
| %RSD  | .48109 | 12.995 | .30620 | 7.4823 | 1.8017 | 47.533 | 21.882 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .94854 | .02413 | 4.5856 | .01150 | .10808 | .80007 | .00099 |
| #2 | .95584 | .01989 | 4.5991 | .01237 | .10604 | .39043 | .00071 |
| #3 | .95467 | .01856 | 4.5765 | .01061 | .11013 | .93661 | .00118 |
| #4 | .95960 | .02385 | 4.6082 | .01061 | .11013 | .34776 | .00118 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  | 100.00  | 400.00  | 1000.0  | 20.000  |
| Low    | -.00500 | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.05000 |

| Elem  | MG     | MN     | MO      | NA      | NI     | PB     | SB     |
|-------|--------|--------|---------|---------|--------|--------|--------|
| Units | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avge  | 8.1946 | 6.5593 | -.00129 | S814.67 | .03685 | 4.6736 | .00344 |
| SDev  | .0411  | .0225  | .00500  | 1629.6  | .00506 | .0039  | .03308 |
| %RSD  | .50115 | .34309 | 387.15  | 200.04  | 13.726 | .08421 | 961.72 |

|    |        |        |         |          |        |        |         |
|----|--------|--------|---------|----------|--------|--------|---------|
| #1 | 8.2014 | 6.5528 | -.00782 | S-.14636 | .03113 | 4.6716 | .01176  |
| #2 | 8.1448 | 6.5608 | -.00260 | S3259.1  | .03419 | 4.6716 | .04494  |
| #3 | 8.1879 | 6.5348 | .00262  | S-.14636 | .04204 | 4.6795 | -.01029 |
| #4 | 8.2445 | 6.5889 | .00262  | S-.14636 | .04002 | 4.6716 | -.03266 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC High | LC Pass | LC Pass | LC Pass |
| High   | 600.00  | 100.00  | 50.000  | 400.00  | 100.00  | 100.00  | 100.00  |
| Low    | -5.0000 | -.01500 | -.04000 | -5.0000 | -.04000 | -.10000 | -.06000 |

| Elem  | SE     | SI     | SN      | SR     | TI     | TL     | V_      |
|-------|--------|--------|---------|--------|--------|--------|---------|
| Units | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     |
| Avge  | 1.0574 | 1.9759 | -.00386 | .22432 | .00261 | .02659 | -.00034 |
| SDev  | .0432  | .0146  | .01560  | .00167 | .00065 | .02371 | .00178  |
| %RSD  | 4.0878 | .73953 | 404.57  | .74282 | 25.000 | 89.155 | 516.62  |

|    |        |        |         |        |        |         |         |
|----|--------|--------|---------|--------|--------|---------|---------|
| #1 | 1.0053 | 1.9703 | .00616  | .22392 | .00229 | -.00786 | -.00286 |
| #2 | 1.0970 | 1.9816 | -.01809 | .22368 | .00229 | .02977  | -.00035 |

|    |        |        |         |        |        |        |        |
|----|--------|--------|---------|--------|--------|--------|--------|
| #3 | 1.0387 | 1.9590 | .01271  | .22294 | .00359 | .04204 | .00088 |
| #4 | 1.0886 | 1.9929 | -.01620 | .22674 | .00229 | .04241 | .00095 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 100.00  | 50.000  | 50.000  | 100.00  | 100.00  |
| Low    | -.25000 | -.50000 | -.10000 | -.05000 | -.05000 | -2.0000 | -.05000 |

Elem ZN  
Units ppm  
Avge .04541  
SDev .00065  
%RSD 1.4295

#1 .04549  
#2 .04493  
#3 .04491  
#4 .04629

Errors LC Pass  
High 100.00  
Low -.02000

## Analysis Report

11/05/00 09:28:50 AM

page 1

Method: QUANMET Sample Name: DN4P6DT Operator: WTR  
 Run Time: 11/05/00 09:25:44  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP  
 Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | B_       | BA      | BE      | CA      |
|--------|---------|---------|---------|----------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .94477  | .65723  | 5.1728  | .01226   | 45.465  | .00147  | 23.757  |
| SDev   | .00358  | .00446  | .0601   | .00205   | .327    | .00007  | .147    |
| %RSD   | .37907  | .67895  | 1.1616  | 16.755   | .71920  | 4.9453  | .61823  |
| #1     | .94011  | .65781  | 5.1586  | .01399   | 45.496  | .00141  | 23.610  |
| #2     | .94442  | .65233  | 5.1626  | .00993   | 45.447  | .00153  | 23.741  |
| #3     | .94870  | .66300  | 5.1135  | .01114   | 45.060  | .00153  | 23.960  |
| #4     | .94586  | .65580  | 5.2566  | .01399   | 45.859  | .00140  | 23.716  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 100.00  | 100.00   | 100.00  | 15.000  | 600.00  |
| Low    | -.01000 | -.20000 | -.30000 | -.20000  | -.20000 | -.00500 | -5.0000 |
| Elem   | CD      | CO      | CR      | CU       | FE      | K_      | LI      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .96396  | .02191  | 4.6356  | .01127   | .10842  | .86834  | .00164  |
| SDev   | .00673  | .00153  | .0166   | .00085   | .00180  | .23058  | .00102  |
| %RSD   | .69774  | 6.9944  | .35815  | 7.5000   | 1.6624  | 26.554  | 62.614  |
| #1     | .95468  | .02122  | 4.6147  | .01061   | .10808  | .87687  | .00099  |
| #2     | .97073  | .02119  | 4.6389  | .01149   | .10945  | .84274  | .00154  |
| #3     | .96576  | .02421  | 4.6550  | .01238   | .11013  | 1.1585  | .00090  |
| #4     | .96468  | .02103  | 4.6340  | .01061   | .10604  | .59525  | .00311  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  | 100.00   | 400.00  | 1000.0  | 20.000  |
| Low    | -.00500 | -.05000 | -.01000 | -.02500  | -.10000 | -5.0000 | -.05000 |
| Elem   | MG      | MN      | MO      | NA       | NI      | PB      | SB      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | 8.3118  | 6.6464  | -.00129 | S-.14636 | .03876  | 4.7137  | .02800  |
| SDev   | .0192   | .0139   | .00500  | .00000   | .00772  | .0682   | .02943  |
| %RSD   | .23073  | .20934  | 387.13  | .00000   | 19.910  | 1.4459  | 105.11  |
| #1     | 8.3280  | 6.6299  | -.00782 | S-.14636 | .03523  | 4.6796  | .05590  |
| #2     | 8.2903  | 6.6399  | -.00260 | S-.14636 | .03212  | 4.6796  | .04457  |
| #3     | 8.3011  | 6.6580  | .00262  | S-.14636 | .04978  | 4.8159  | -.01093 |
| #4     | 8.3280  | 6.6580  | .00262  | S-.14636 | .03791  | 4.6796  | .02247  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 600.00  | 100.00  | 50.000  | 400.00   | 100.00  | 100.00  | 100.00  |
| Low    | -5.0000 | -.01500 | -.04000 | -5.0000  | -.04000 | -.10000 | -.06000 |
| Elem   | SE      | SI      | SN      | SR       | TI      | TL      | V_      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | 1.0845  | 1.9859  | -.00264 | .22619   | .00261  | .03037  | .00096  |
| SDev   | .0535   | .0054   | .02076  | .00118   | .00046  | .10365  | .00363  |
| %RSD   | 4.9291  | .27428  | 785.12  | .52013   | 17.678  | 341.30  | 377.38  |
| #1     | 1.0137  | 1.9816  | -.01361 | .22590   | .00229  | -.04477 | -.00400 |
| #2     | 1.0845  | 1.9816  | -.01588 | .22590   | .00261  | .09285  | .00216  |

|    |        |        |         |        |        |         |        |
|----|--------|--------|---------|--------|--------|---------|--------|
| #3 | 1.0970 | 1.9873 | .02823  | .22511 | .00327 | .14300  | .00106 |
| #4 | 1.1428 | 1.9930 | -.00932 | .22787 | .00229 | -.06961 | .00463 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 100.00  | 50.000  | 50.000  | 100.00  | 100.00  |
| Low    | -.25000 | -.50000 | -.10000 | -.05000 | -.05000 | -2.0000 | -.05000 |

|       |        |
|-------|--------|
| Elem  | ZN     |
| Units | ppm    |
| Avge  | .04793 |
| SDev  | .00040 |
| %RSD  | .83994 |

|    |        |
|----|--------|
| #1 | .04766 |
| #2 | .04793 |
| #3 | .04762 |
| #4 | .04849 |

|        |         |
|--------|---------|
| Errors | LC Pass |
| High   | 100.00  |
| Low    | -.02000 |

## Analysis Report

11/05/00 09:31:58 AM

page 1

Method: QUANMET Sample Name: DN4QJT

Operator: WTR

Run Time: 11/05/00 09:28:52

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | B_       | BA      | BE      | CA      |
|--------|---------|---------|---------|----------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .00278  | 2.6709  | .17296  | .06396   | 1.0014  | .00056  | 123.06  |
| SDev   | .00117  | .0320   | .09038  | .00262   | .0116   | .00007  | .39     |
| %RSD   | 41.938  | 1.1980  | 52.257  | 4.0967   | 1.1605  | 13.088  | .31311  |
| #1     | .00421  | 2.6326  | .16000  | .06672   | .98469  | .00050  | 122.65  |
| #2     | .00135  | 2.6701  | .06570  | .06392   | 1.0106  | .00063  | 123.28  |
| #3     | .00278  | 2.7109  | .28602  | .06474   | 1.0077  | .00050  | 123.48  |
| #4     | .00278  | 2.6701  | .18012  | .06045   | 1.0026  | .00063  | 122.84  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 100.00  | 100.00   | 100.00  | 15.000  | 600.00  |
| Low    | -.01000 | -.20000 | -.30000 | -.20000  | -.20000 | -.00500 | -5.0000 |
| Elem   | CD      | CO      | CR      | CU       | FE      | K_      | LI      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .00390  | .00688  | .00591  | .01544   | 1.9910  | 2.2082  | .00111  |
| SDev   | .00305  | .00178  | .00102  | .00085   | .0130   | .1976   | .00021  |
| %RSD   | 78.089  | 25.912  | 17.232  | 5.4709   | .65501  | 8.9475  | 18.867  |
| #1     | .00796  | .00440  | .00739  | .01522   | 1.9736  | 2.0546  | .00118  |
| #2     | .00119  | .00723  | .00577  | .01434   | 1.9988  | 2.1399  | .00090  |
| #3     | .00197  | .00865  | .00524  | .01610   | 2.0029  | 2.1399  | .00137  |
| #4     | .00450  | .00723  | .00524  | .01610   | 1.9886  | 2.4983  | .00099  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  | 100.00   | 400.00  | 1000.0  | 20.000  |
| Low    | -.00500 | -.05000 | -.01000 | -.02500  | -.10000 | -5.0000 | -.05000 |
| Elem   | MG      | MN      | MO      | NA       | NI      | PB      | SB      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | 13.234  | 1.2188  | -.00366 | S-.14636 | .02156  | .02195  | .00846  |
| SDev   | .121    | .0057   | .00500  | .00000   | .01000  | .02394  | .02704  |
| %RSD   | .91423  | .46497  | 136.61  | .00000   | 46.376  | 109.08  | 319.49  |
| #1     | 13.086  | 1.2107  | .00287  | S-.14636 | .00973  | .05603  | .04149  |
| #2     | 13.382  | 1.2228  | -.00757 | S-.14636 | .02373  | .01591  | -.01364 |
| #3     | 13.234  | 1.2228  | -.00235 | S-.14636 | .03376  | -.00007 | .01965  |
| #4     | 13.234  | 1.2188  | -.00757 | S-.14636 | .01903  | .01591  | -.01365 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 600.00  | 100.00  | 50.000  | 400.00   | 100.00  | 100.00  | 100.00  |
| Low    | -5.0000 | -.01500 | -.04000 | -5.0000  | -.04000 | -.10000 | -.06000 |
| Elem   | SE      | SI      | SN      | SR       | TI      | TL      | V_      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | .01334  | 6.7020  | .00299  | .46404   | .05122  | .15220  | .00480  |
| SDev   | .02417  | .0401   | .01395  | .00484   | .00072  | .03729  | .00007  |
| %RSD   | 181.23  | .59845  | 467.08  | 1.0428   | 1.4146  | 24.501  | 1.4130  |
| #1     | .00704  | 6.6610  | .01753  | .45701   | .05196  | .14298  | .00489  |
| #2     | .04461  | 6.7572  | -.00265 | .46786   | .05163  | .19280  | .00474  |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| #3     | -.01370 | 6.6949  | .01080  | .46638  | .05098  | .16772  | .00481  |
| #4     | .01541  | 6.6949  | -.01373 | .46490  | .05032  | .10532  | .00474  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 100.00  | 50.000  | 50.000  | 100.00  | 100.00  |
| Low    | -.25000 | -.50000 | -.10000 | -.05000 | -.05000 | -2.0000 | -.05000 |

Elem ZN  
Units ppm  
Avge .15915  
SDev .00085  
%RSD .53741

#1 .15808  
#2 .15884  
#3 .15993  
#4 .15974

Errors LC Pass  
High 100.00  
Low -.02000

Method: QUANMET Sample Name: CCV2-1 0057-122-1 Operator: WTR  
 Run Time: 11/05/00 09:32:00  
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP  
 Mode: CONC Corr. Factor: 1

674 819

| Elem  | AG     | AL     | AS     | B_     | BA     | BE     | CA     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .99082 | 49.330 | 5.2432 | 4.8736 | 4.8198 | 4.8807 | 51.609 |
| SDev  | .00274 | .078   | .0185  | .0373  | .0156  | .0093  | .099   |
| %RSD  | .27615 | .15800 | .35321 | .76581 | .32404 | .19131 | .19190 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .98866 | 49.299 | 5.2364 | 4.8438 | 4.8144 | 4.8759 | 51.550 |
| #2 | .99159 | 49.412 | 5.2433 | 4.8992 | 4.8379 | 4.8904 | 51.622 |
| #3 | .98866 | 49.372 | 5.2684 | 4.9119 | 4.8254 | 4.8864 | 51.521 |
| #4 | .99436 | 49.237 | 5.2246 | 4.8395 | 4.8013 | 4.8701 | 51.743 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 1.1000  | 55.000  | 5.5000  | 5.5000  | 5.5000  | 5.5000  | 55.000  |
| Low    | .90000  | 45.000  | 4.5000  | 4.5000  | 4.5000  | 4.5000  | 45.000  |

| Elem  | CD     | CO     | CR     | CU     | FE     | K_     | LI     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | 5.1042 | 4.9245 | 4.9685 | 4.8189 | 51.508 | 48.840 | 4.8080 |
| SDev  | .0252  | .0038  | .0074  | .0138  | .044   | .299   | .0230  |
| %RSD  | .49358 | .07795 | .14847 | .28627 | .08459 | .61254 | .47931 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 5.0706 | 4.9228 | 4.9630 | 4.8092 | 51.479 | 48.446 | 4.7987 |
| #2 | 5.1182 | 4.9283 | 4.9737 | 4.8348 | 51.569 | 48.898 | 4.8352 |
| #3 | 5.1000 | 4.9199 | 4.9614 | 4.8259 | 51.509 | 48.847 | 4.8166 |
| #4 | 5.1279 | 4.9269 | 4.9759 | 4.8057 | 51.474 | 49.171 | 4.7816 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 5.5000  | 5.5000  | 5.5000  | 5.5000  | 55.000  | 55.000  | 5.5000  |
| Low    | 4.5000  | 4.5000  | 4.5000  | 4.5000  | 45.000  | 45.000  | 4.5000  |

| Elem  | MG     | MN     | MO     | NA     | NI     | PB     | SB     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | 49.790 | 4.9334 | 4.9623 | 47.725 | 4.9434 | 5.0809 | 4.9548 |
| SDev  | .117   | .0045  | .0137  | .162   | .0192  | .0383  | .0053  |
| %RSD  | .23531 | .09147 | .27673 | .33921 | .38744 | .75448 | .10737 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 49.629 | 4.9332 | 4.9479 | 47.617 | 4.9172 | 5.0829 | 4.9575 |
| #2 | 49.876 | 4.9372 | 4.9740 | 47.911 | 4.9490 | 5.0269 | 4.9576 |
| #3 | 49.876 | 4.9272 | 4.9531 | 47.808 | 4.9629 | 5.1148 | 4.9468 |
| #4 | 49.777 | 4.9362 | 4.9740 | 47.565 | 4.9445 | 5.0991 | 4.9573 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 55.000  | 5.5000  | 5.5000  | 55.000  | 5.5000  | 5.5000  | 5.5000  |
| Low    | 45.000  | 4.5000  | 4.5000  | 45.000  | 4.5000  | 4.5000  | 4.5000  |

| Elem  | SE     | SI     | SN     | SR     | TI     | TL     | V_     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | 5.0232 | 4.8888 | 5.0632 | 4.8645 | 4.9107 | 9.7148 | 4.8650 |
| SDev  | .0504  | .0297  | .0376  | .0141  | .0081  | .1483  | .0066  |
| %RSD  | 1.0033 | .60836 | .74220 | .29015 | .16529 | 1.5268 | .13620 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 5.0981 | 4.8449 | 5.0505 | 4.8604 | 4.9060 | 9.5400 | 4.8624 |
| #2 | 4.9983 | 4.9073 | 5.0416 | 4.8819 | 4.9217 | 9.8892 | 4.8749 |



|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #3 | 5.0065 | 4.8958 | 5.0415 | 4.8678 | 4.9119 | 9.6647 | 4.8625 |
| #4 | 4.9897 | 4.9071 | 5.1192 | 4.8481 | 4.9034 | 9.7652 | 4.8604 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 5.5000  | 5.5000  | 5.5000  | 5.5000  | 5.5000  | 11.000  | 5.5000  |
| Low    | 4.5000  | 4.5000  | 4.5000  | 4.5000  | 4.5000  | 9.0000  | 4.5000  |

Elem ZN  
Units ppm  
Avge 4.9405  
SDev .0107  
%RSD .21752

#1 4.9390  
#2 4.9547  
#3 4.9286  
#4 4.9397

Errors LC Pass  
High 5.5000  
Low 4.5000

## Analysis Report

11/05/00 09:38:13 AM 674 821 page 1

Method: QUANMET Sample Name: CCB1

Operator: WTR

Run Time: 11/05/00 09:35:08

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | B_     | BA     | BE     | CA      |
|-------|--------|--------|--------|--------|--------|--------|---------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avge  | .00286 | .01774 | .04581 | .02108 | .00041 | .00025 | -.00699 |
| SDev  | .00071 | .00592 | .04773 | .00274 | .00029 | .00028 | .00271  |
| %RSD  | 24.833 | 33.385 | 104.18 | 13.001 | 70.444 | 109.17 | 38.851  |

|    |        |        |         |        |        |         |         |
|----|--------|--------|---------|--------|--------|---------|---------|
| #1 | .00252 | .01366 | .09687  | .02519 | .00048 | .00024  | -.00590 |
| #2 | .00250 | .01373 | .06834  | .01970 | .00048 | .00013  | -.01025 |
| #3 | .00393 | .02625 | -.01348 | .01970 | .00000 | -.00000 | -.00789 |
| #4 | .00250 | .01734 | .03153  | .01971 | .00068 | .00064  | -.00391 |

| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
|--------|---------|---------|---------|---------|---------|---------|---------|
| High   | .01000  | .20000  | .30000  | .20000  | .20000  | .00500  | 5.0000  |
| Low    | -.01000 | -.20000 | -.30000 | -.20000 | -.20000 | -.00500 | -5.0000 |

| Elem  | CD     | CO     | CR     | CU      | FE      | K_     | LI      |
|-------|--------|--------|--------|---------|---------|--------|---------|
| Units | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     |
| Avge  | .00017 | .00247 | .00188 | -.00022 | -.00476 | .08534 | -.00015 |
| SDev  | .00237 | .00070 | .00027 | .00044  | .00340  | .29648 | .00168  |
| %RSD  | 1404.8 | 28.469 | 14.278 | 201.66  | 71.380  | 347.41 | 1103.9  |

|    |         |        |        |         |         |         |         |
|----|---------|--------|--------|---------|---------|---------|---------|
| #1 | -.00199 | .00212 | .00201 | .00000  | -.00834 | .45871  | -.00238 |
| #2 | -.00168 | .00212 | .00202 | .00000  | -.00561 | -.22402 | .00118  |
| #3 | .00155  | .00353 | .00148 | .00000  | -.00493 | .16855  | .00110  |
| #4 | .00279  | .00211 | .00202 | -.00088 | -.00017 | -.06187 | -.00050 |

| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
|--------|---------|---------|---------|---------|---------|---------|---------|
| High   | .00500  | .05000  | .01000  | .02500  | .10000  | 5.0000  | .05000  |
| Low    | -.00500 | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.05000 |

| Elem  | MG      | MN       | MO     | NA     | NI      | PB     | SB      |
|-------|---------|----------|--------|--------|---------|--------|---------|
| Units | ppm     | ppm      | ppm    | ppm    | ppm     | ppm    | ppm     |
| Avge  | -.00000 | .00000   | .00522 | .00236 | -.00457 | .00403 | -.02503 |
| SDev  | .00933  | .00058   | .00301 | .00869 | .00406  | .01008 | .01563  |
| %RSD  | 2004e6  | 1354700. | 57.736 | 368.21 | 88.745  | 250.18 | 62.437  |

|    |         |         |        |         |         |         |         |
|----|---------|---------|--------|---------|---------|---------|---------|
| #1 | -.00808 | -.00050 | .00783 | -.00021 | .00120  | -.00600 | -.02495 |
| #2 | -.00269 | -.00050 | .00783 | -.00595 | -.00833 | .00205  | -.00296 |
| #3 | -.00269 | .00050  | .00261 | .00103  | -.00551 | .00203  | -.03612 |
| #4 | .01347  | .00050  | .00261 | .01457  | -.00565 | .01803  | -.03611 |

| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
|--------|---------|---------|---------|---------|---------|---------|---------|
| High   | 5.0000  | .01500  | .04000  | 5.0000  | .04000  | .10000  | .06000  |
| Low    | -5.0000 | -.01500 | -.04000 | -5.0000 | -.04000 | -.10000 | -.06000 |

| Elem  | SE      | SI      | SN     | SR     | TI     | TL      | V_     |
|-------|---------|---------|--------|--------|--------|---------|--------|
| Units | ppm     | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avge  | -.01564 | -.00989 | .01098 | .00041 | .00106 | -.00936 | .00128 |
| SDev  | .02966  | .00003  | .00950 | .00045 | .00049 | .04832  | .00244 |
| %RSD  | 189.68  | .29183  | 86.578 | 109.83 | 46.154 | 516.36  | 190.40 |

|    |         |         |         |        |        |         |        |
|----|---------|---------|---------|--------|--------|---------|--------|
| #1 | -.05731 | -.00984 | -.00066 | .00036 | .00065 | -.00621 | .00494 |
| #2 | .00936  | -.00990 | .02160  | .00046 | .00065 | -.05625 | .00011 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| #3     | -.01564 | -.00990 | .01481  | -.00014 | .00163  | .05632  | .00004  |
| #4     | .00104  | -.00990 | .00816  | .00095  | .00131  | -.03129 | .00004  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .25000  | .50000  | .10000  | .05000  | .05000  | .30000  | .05000  |
| Low    | -.25000 | -.50000 | -.10000 | -.05000 | -.05000 | -.30000 | -.05000 |

Elem ZN  
Units ppm  
Avge .00002  
SDev .00167  
%RSD 7552.3

|    |         |
|----|---------|
| #1 | -.00012 |
| #2 | -.00229 |
| #3 | .00125  |
| #4 | .00125  |

|        |         |
|--------|---------|
| Errors | LC Pass |
| High   | .02000  |
| Low    | -.02000 |

Method: QUANMET Sample Name: DN4QKT Operator: WTR  
Run Time: 11/05/00 09:38:16  
Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT/JA61EICP  
Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | B_     | BA     | BE     | CA     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00108 | .29153 | .20808 | .07419 | .65998 | .00029 | 35.377 |
| SDev  | .00117 | .00420 | .06016 | .00102 | .00388 | .00012 | .152   |
| %RSD  | 108.50 | 1.4402 | 28.909 | 1.3765 | .58823 | 42.409 | .43029 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | .00251  | .29473 | .29079 | .07266 | .65539 | .00038 | 35.402 |
| #2 | -.00035 | .28577 | .18873 | .07470 | .66471 | .00013 | 35.164 |
| #3 | .00108  | .29106 | .14782 | .07470 | .65895 | .00038 | 35.419 |
| #4 | .00108  | .29458 | .20500 | .07470 | .66087 | .00026 | 35.524 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 100.00  | 100.00  | 100.00  | 15.000  | 600.00  |
| Low    | -.01000 | -.20000 | -.30000 | -.20000 | -.20000 | -.00500 | -5.0000 |

| Elem  | CD      | CO     | CR     | CU     | FE     | K_     | LI      |
|-------|---------|--------|--------|--------|--------|--------|---------|
| Units | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avge  | -.00132 | .00112 | .00081 | .00706 | .05242 | 2.2551 | -.00146 |
| SDev  | .00163  | .00408 | .00257 | .00144 | .00116 | .6033  | .00076  |
| %RSD  | 124.15  | 364.05 | 318.90 | 20.449 | 2.2185 | 26.753 | 52.227  |

|    |         |         |         |        |        |        |         |
|----|---------|---------|---------|--------|--------|--------|---------|
| #1 | .00086  | .00606  | .00148  | .00883 | .05294 | 2.9848 | -.00095 |
| #2 | -.00305 | -.00382 | -.00121 | .00529 | .05089 | 1.5084 | -.00219 |
| #3 | -.00122 | .00041  | -.00121 | .00706 | .05225 | 2.2935 | -.00067 |
| #4 | -.00185 | .00183  | .00417  | .00706 | .05361 | 2.2338 | -.00202 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  | 100.00  | 400.00  | 1000.0  | 20.000  |
| Low    | -.00500 | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.05000 |

| Elem  | MG     | MN     | MO     | NA       | NI      | PB     | SB      |
|-------|--------|--------|--------|----------|---------|--------|---------|
| Units | ppm    | ppm    | ppm    | ppm      | ppm     | ppm    | ppm     |
| Avge  | 4.3284 | .04608 | .00523 | S-.14636 | -.00318 | .00782 | -.00289 |
| SDev  | .0064  | .00100 | .00674 | .00000   | .00462  | .01658 | .00906  |
| %RSD  | .14818 | 2.1722 | 128.93 | .00000   | 145.24  | 211.99 | 313.67  |

|    |        |        |         |          |         |         |         |
|----|--------|--------|---------|----------|---------|---------|---------|
| #1 | 4.3378 | .04758 | .00262  | S-.14636 | -.00183 | .01799  | .00818  |
| #2 | 4.3270 | .04557 | -.00260 | S-.14636 | -.00156 | -.00633 | -.00274 |
| #3 | 4.3243 | .04558 | .00784  | S-.14636 | -.00992 | .02584  | -.00298 |
| #4 | 4.3243 | .04558 | .01306  | S-.14636 | .00058  | -.00620 | -.01402 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 600.00  | 100.00  | 50.000  | 400.00  | 100.00  | 100.00  | 100.00  |
| Low    | -5.0000 | -.01500 | -.04000 | -5.0000 | -.04000 | -.10000 | -.06000 |

| Elem  | SE      | SI     | SN     | SR     | TI     | TL      | V_     |
|-------|---------|--------|--------|--------|--------|---------|--------|
| Units | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avge  | -.02692 | 2.2279 | .02328 | .22465 | .00074 | -.00339 | .00037 |
| SDev  | .05634  | .0294  | .02713 | .00130 | .00049 | .04132  | .00059 |
| %RSD  | 209.29  | 1.3195 | 116.54 | .58056 | 66.667 | 1220.0  | 157.99 |

|    |        |        |         |        |        |         |         |
|----|--------|--------|---------|--------|--------|---------|---------|
| #1 | .01370 | 2.2024 | .04605  | .22294 | .00131 | .04348  | .00125  |
| #2 | .01786 | 2.2533 | -.01608 | .22610 | .00033 | -.00646 | -.00004 |

|    |         |        |        |        |        |         |        |
|----|---------|--------|--------|--------|--------|---------|--------|
| #3 | -.03629 | 2.2533 | .03270 | .22466 | .00098 | .00600  | .00010 |
| #4 | -.10294 | 2.2024 | .03044 | .22491 | .00033 | -.05657 | .00018 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 100.00  | 50.000  | 50.000  | 100.00  | 100.00  |
| Low    | -.25000 | -.50000 | -.10000 | -.05000 | -.05000 | -2.0000 | -.05000 |

|       |        |
|-------|--------|
| Elem  | ZN     |
| Units | ppm    |
| Avge  | .03562 |
| SDev  | .00193 |
| %RSD  | 5.4242 |

|    |        |
|----|--------|
| #1 | .03354 |
| #2 | .03524 |
| #3 | .03550 |
| #4 | .03821 |

|        |         |
|--------|---------|
| Errors | LC Pass |
| High   | 100.00  |
| Low    | -.02000 |

Method: QUANMET Sample Name: DNRXGT

Operator: WTR

Run Time: 11/05/00 09:41:24

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

**674 825**

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | B_      | BA      | BE      | CA      |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | -.00079 | .01456  | .05498  | .34198  | .09463  | -.00000 | 178.19  |
| SDev   | .00138  | .00682  | .04126  | .00704  | .00029  | .00001  | 1.14    |
| %RSD   | 174.58  | 46.855  | 75.035  | 2.0574  | .30458  | 200.00  | .64015  |
| #1     | -.00044 | .00838  | .05607  | .34808  | .09489  | -.00000 | 177.39  |
| #2     | -.00187 | .01373  | .09689  | .33933  | .09470  | -.00000 | 177.61  |
| #3     | .00101  | .02423  | -.00133 | .33324  | .09422  | -.00001 | 179.87  |
| #4     | -.00187 | .01190  | .06830  | .34726  | .09470  | -.00000 | 177.87  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 100.00  | 100.00  | 100.00  | 15.000  | 600.00  |
| Low    | -.01000 | -.20000 | -.30000 | -.20000 | -.20000 | -.00500 | -5.0000 |
| Elem   | CD      | CO      | CR      | CU      | FE      | K_      | LI      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00075  | .00103  | -.00080 | .00265  | .04354  | 9.5411  | .13458  |
| SDev   | .00159  | .00136  | .00183  | .00125  | .00151  | .1032   | .00197  |
| %RSD   | 212.54  | 131.31  | 227.31  | 47.000  | 3.4663  | 1.0817  | 1.4654  |
| #1     | .00117  | .00068  | .00148  | .00353  | .04541  | 9.6670  | .13611  |
| #2     | -.00157 | .00210  | -.00013 | .00265  | .04405  | 9.5645  | .13545  |
| #3     | .00141  | -.00074 | -.00228 | .00353  | .04200  | 9.5133  | .13169  |
| #4     | .00198  | .00209  | -.00228 | .00089  | .04268  | 9.4195  | .13506  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  | 100.00  | 400.00  | 1000.0  | 20.000  |
| Low    | -.00500 | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.05000 |
| Elem   | MG      | MN      | MO      | NA      | NI      | PB      | SB      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | 48.743  | .49146  | .01045  | 79.048  | .00573  | .02009  | .02500  |
| SDev   | .067    | .00126  | .00301  | .549    | .01208  | .01889  | .02935  |
| %RSD   | .13708  | .25644  | 28.850  | .69469  | 210.74  | 94.036  | 117.43  |
| #1     | 48.758  | .49021  | .00784  | 79.403  | -.00720 | .03412  | .03038  |
| #2     | 48.783  | .49121  | .00784  | 79.367  | .01651  | -.00589 | .06388  |
| #3     | 48.645  | .49321  | .01306  | 78.237  | .01552  | .03404  | .00851  |
| #4     | 48.788  | .49121  | .01306  | 79.184  | -.00190 | .01807  | -.00279 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 600.00  | 100.00  | 50.000  | 400.00  | 100.00  | 100.00  | 100.00  |
| Low    | -5.0000 | -.01500 | -.04000 | -5.0000 | -.04000 | -.10000 | -.06000 |
| Elem   | SE      | SI      | SN      | SR      | TI      | TL      | V_      |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .02409  | 6.9608  | -.01316 | 2.4249  | -.01078 | .05952  | .00134  |
| SDev   | .02488  | .0000   | .00934  | .0067   | .00027  | .05309  | .00244  |
| %RSD   | 103.29  | .00040  | 71.027  | .27831  | 2.4742  | 89.197  | 181.31  |
| #1     | -.00299 | 6.9608  | -.00704 | 2.4293  | -.01078 | .04699  | .00011  |
| #2     | .05533  | 6.9608  | -.00911 | 2.4291  | -.01111 | .00947  | .00010  |

|    |        |        |         |        |         |        |        |
|----|--------|--------|---------|--------|---------|--------|--------|
| #3 | .01367 | 6.9609 | -.02708 | 2.4150 | -.01046 | .13460 | .00500 |
| #4 | .03033 | 6.9608 | -.00939 | 2.4261 | -.01078 | .04701 | .00017 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 100.00  | 50.000  | 50.000  | 100.00  | 100.00  |
| Low    | -.25000 | -.50000 | -.10000 | -.05000 | -.05000 | -2.0000 | -.05000 |

|       |        |
|-------|--------|
| Elem  | ZN     |
| Units | ppm    |
| Avge  | .00215 |
| SDev  | .00140 |
| %RSD  | 65.031 |

|    |        |
|----|--------|
| #1 | .00091 |
| #2 | .00116 |
| #3 | .00393 |
| #4 | .00260 |

|        |         |
|--------|---------|
| Errors | LC Pass |
| High   | 100.00  |
| Low    | -.02000 |

Method: QUANMET Sample Name: DNRXRT

Operator: WTR

Run Time: 11/05/00 09:44:32

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP 674 827

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | B_       | BA       | BE      | CA      |
|--------|---------|---------|---------|----------|----------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm      | ppm      | ppm     | ppm     |
| Avge   | -.00093 | .04035  | .17402  | .21958   | .14176   | .00017  | H995.89 |
| SDev   | .00309  | .01526  | .04254  | .00231   | .00070   | .00007  | 3.06    |
| %RSD   | 331.58  | 37.822  | 24.449  | 1.0501   | .49161   | 43.945  | .30717  |
| #1     | -.00094 | .04309  | .18625  | .22289   | .14210   | .00023  | H999.21 |
| #2     | -.00378 | .02874  | .22723  | .21801   | .14114   | .00010  | H993.93 |
| #3     | -.00236 | .02870  | .15368  | .21801   | .14258   | .00010  | H992.73 |
| #4     | .00336  | .06086  | .12891  | .21943   | .14123   | .00023  | H997.69 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass  | LC Pass | LC High |
| High   | 2.0000  | 600.00  | 100.00  | 100.00   | 100.00   | 15.000  | 600.00  |
| Low    | -.01000 | -.20000 | -.30000 | -.20000  | -.20000  | -.00500 | -5.0000 |
| Elem   | CD      | CO      | CR      | CU       | FE       | K_      | LI      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm      | ppm     | ppm     |
| Avge   | -.00071 | .00887  | -.00308 | .00488   | .17135   | 9.2808  | .02173  |
| SDev   | .00273  | .00389  | .00234  | .00114   | .00432   | .4293   | .00149  |
| %RSD   | 382.67  | 43.888  | 76.122  | 23.412   | 2.5212   | 4.6260  | 6.8645  |
| #1     | .00247  | .01063  | -.00120 | .00532   | .17663   | 9.5475  | .02366  |
| #2     | -.00031 | .00498  | -.00388 | .00443   | .16641   | 8.9416  | .02186  |
| #3     | -.00084 | .00640  | -.00603 | .00355   | .16982   | 8.8904  | .02007  |
| #4     | -.00418 | .01347  | -.00120 | .00620   | .17254   | 9.7438  | .02131  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass  | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  | 100.00   | 400.00   | 1000.0  | 20.000  |
| Low    | -.00500 | -.05000 | -.01000 | -.02500  | -.10000  | -5.0000 | -.05000 |
| Elem   | MG      | MN      | MO      | NA       | NI       | PB      | SB      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm      | ppm     | ppm     |
| Avge   | 39.133  | 19.048  | .09660  | S-.14636 | .02073   | .00219  | .01093  |
| SDev   | .206    | .052    | .00426  | .00000   | .00473   | .01475  | .01895  |
| %RSD   | .52766  | .27423  | 4.4121  | .00000   | 22.792   | 674.31  | 173.41  |
| #1     | 39.396  | 19.118  | .09138  | S-.14636 | .02410   | .01028  | .03041  |
| #2     | 39.091  | 19.003  | .09660  | S-.14636 | .02421   | -.01397 | -.01399 |
| #3     | 39.150  | 19.057  | .10182  | S-.14636 | .01413   | -.00589 | .00806  |
| #4     | 38.895  | 19.014  | .09660  | S-.14636 | .02050   | .01834  | .01923  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass  | LC Pass | LC Pass |
| High   | 600.00  | 100.00  | 50.000  | 400.00   | 100.00   | 100.00  | 100.00  |
| Low    | -5.0000 | -.01500 | -.04000 | -5.0000  | -.04000  | -.10000 | -.06000 |
| Elem   | SE      | SI      | SN      | SR       | TI       | TL      | V_      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm      | ppm     | ppm     |
| Avge   | .03072  | H29.785 | .02135  | 1.5502   | L-.06454 | .07714  | .01093  |
| SDev   | .04369  | .114    | .01173  | .0100    | .00078   | .06944  | .00005  |
| %RSD   | 142.22  | .38307  | 54.933  | .64322   | 1.2053   | 90.028  | .47376  |
| #1     | -.00259 | H29.904 | .00425  | 1.5575   | L-.06470 | .09949  | .01087  |
| #2     | -.00678 | H29.667 | .02624  | 1.5464   | L-.06503 | .12379  | .01093  |



|    |        |         |        |        |          |         |        |
|----|--------|---------|--------|--------|----------|---------|--------|
| #3 | .04738 | H29.859 | .03077 | 1.5591 | L-.06503 | -.02596 | .01099 |
| #4 | .08488 | H29.712 | .02416 | 1.5379 | L-.06340 | .11122  | .01094 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC High | LC Pass | LC Pass | LC Low  | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 100.00  | 50.000  | 50.000  | 100.00  | 100.00  |
| Low    | -.25000 | -.50000 | -.10000 | -.05000 | -.05000 | -2.0000 | -.05000 |

|       |        |
|-------|--------|
| Elem  | ZN     |
| Units | ppm    |
| Avge  | .03997 |
| SDev  | .00084 |
| %RSD  | 2.1099 |

|    |        |
|----|--------|
| #1 | .04036 |
| #2 | .03956 |
| #3 | .03903 |
| #4 | .04093 |

|        |         |
|--------|---------|
| Errors | LC Pass |
| High   | 100.00  |
| Low    | -.02000 |

Method: QUANMET Sample Name: DN6N4T

Operator: WTR

Run Time: 11/05/00 09:47:45

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | B_       | BA      | BE      | CA      |
|--------|---------|---------|---------|----------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | -.00105 | .02842  | .17029  | .03544   | .21573  | .00012  | H657.68 |
| SDev   | .00248  | .01098  | .05283  | .00173   | .00059  | .00000  | 4.46    |
| %RSD   | 236.01  | 38.638  | 31.024  | 4.8726   | .27280  | 1.1930  | .67872  |
| #1     | -.00033 | .03510  | .23970  | .03457   | .21625  | .00012  | H658.11 |
| #2     | -.00463 | .01200  | .15410  | .03457   | .21617  | .00012  | H651.26 |
| #3     | .00109  | .03330  | .17434  | .03457   | .21549  | .00012  | H660.23 |
| #4     | -.00033 | .03327  | .11304  | .03803   | .21501  | .00012  | H661.13 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC High |
| High   | 2.0000  | 600.00  | 100.00  | 100.00   | 100.00  | 15.000  | 600.00  |
| Low    | -.01000 | -.20000 | -.30000 | -.20000  | -.20000 | -.00500 | -5.0000 |
| Elem   | CD      | CO      | CR      | CU       | FE      | K_      | LI      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | -.00208 | .00068  | -.00000 | .02358   | .00888  | 2.4962  | .00019  |
| SDev   | .00142  | .00200  | .00119  | .00085   | .00068  | .0849   | .00060  |
| %RSD   | 68.452  | 293.74  | 40063.  | 3.5851   | 7.6927  | 3.4002  | 311.98  |
| #1     | -.00279 | .00210  | .00040  | .02381   | .00923  | 2.5325  | .00071  |
| #2     | .00005  | -.00215 | -.00068 | .02292   | .00786  | 2.3959  | -.00023 |
| #3     | -.00286 | .00068  | -.00121 | .02292   | .00923  | 2.5922  | -.00042 |
| #4     | -.00271 | .00210  | .00148  | .02469   | .00923  | 2.4642  | .00071  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  | 100.00   | 400.00  | 1000.0  | 20.000  |
| Low    | -.00500 | -.05000 | -.01000 | -.02500  | -.10000 | -5.0000 | -.05000 |
| Elem   | MG      | MN      | MO      | NA       | NI      | PB      | SB      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | 34.151  | .00125  | -.00261 | S-.14636 | .00358  | .08433  | .10818  |
| SDev   | .035    | .00050  | .00426  | .00000   | .01387  | .02650  | .02016  |
| %RSD   | .10395  | 39.868  | 163.37  | .00000   | 387.27  | 31.429  | 18.632  |
| #1     | 34.155  | .00150  | -.00261 | S-.14636 | -.01358 | .06635  | .13014  |
| #2     | 34.131  | .00150  | -.00783 | S-.14636 | -.00074 | .05819  | .09705  |
| #3     | 34.118  | .00150  | -.00261 | S-.14636 | .01025  | .09837  | .11942  |
| #4     | 34.198  | .00050  | .00261  | S-.14636 | .01839  | .11439  | .08612  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass | LC Pass | LC Pass |
| High   | 600.00  | 100.00  | 50.000  | 400.00   | 100.00  | 100.00  | 100.00  |
| Low    | -5.0000 | -.01500 | -.04000 | -5.0000  | -.04000 | -.10000 | -.06000 |
| Elem   | SE      | SI      | SN      | SR       | TI      | TL      | V_      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     |
| Avge   | -.00622 | .28720  | -.01382 | .26118   | -.04191 | .06242  | .00450  |
| SDev   | .05118  | .02941  | .02049  | .00036   | .00082  | .05548  | .00065  |
| %RSD   | 822.55  | 10.238  | 148.27  | .13878   | 1.9493  | 88.876  | 14.500  |
| #1     | .03856  | .31266  | .00013  | .26121   | -.04150 | .00611  | .00480  |
| #2     | -.03226 | .26173  | -.00444 | .26160   | -.04314 | .08123  | .00352  |

|    |         |        |         |        |         |        |        |
|----|---------|--------|---------|--------|---------|--------|--------|
| #3 | .03440  | .26174 | -.04426 | .26071 | -.04150 | .03114 | .00479 |
| #4 | -.06558 | .31266 | -.00671 | .26121 | -.04150 | .13120 | .00487 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 100.00  | 50.000  | 50.000  | 100.00  | 100.00  |
| Low    | -.25000 | -.50000 | -.10000 | -.05000 | -.05000 | -2.0000 | -.05000 |

Elem ZN  
Units ppm  
Avge .00340  
SDev .00066  
%RSD 19.388

#1 .00394  
#2 .00333  
#3 .00249  
#4 .00383

Errors LC Pass  
High 100.00  
Low -.02000

Method: QUANMET Sample Name: DN6N6T

Operator: WTR

Run Time: 11/05/00 09:50:58

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

| Elem   | AG      | AL      | AS      | B_       | BA       | BE      | CA      |
|--------|---------|---------|---------|----------|----------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm      | ppm      | ppm     | ppm     |
| Avge   | -.00212 | .10970  | .18803  | .02490   | .13869   | .00011  | H817.74 |
| SDev   | .00136  | .01515  | .02044  | .01672   | .00101   | .00001  | 3.25    |
| %RSD   | 64.372  | 13.813  | 10.870  | 67.168   | .73076   | 4.4728  | .39792  |
| #1     | -.00317 | .09546  | .19422  | .01728   | .13979   | .00011  | H815.55 |
| #2     | -.00034 | .13114  | .18584  | .04979   | .13778   | .00012  | H822.02 |
| #3     | -.00319 | .10609  | .21055  | .01870   | .13931   | .00012  | H814.89 |
| #4     | -.00176 | .10609  | .16151  | .01382   | .13787   | .00012  | H818.48 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass  | LC Pass | LC High |
| High   | 2.0000  | 600.00  | 100.00  | 100.00   | 100.00   | 15.000  | 600.00  |
| Low    | -.01000 | -.20000 | -.30000 | -.20000  | -.20000  | -.00500 | -5.0000 |
| Elem   | CD      | CO      | CR      | CU       | FE       | K_      | LI      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm      | ppm     | ppm     |
| Avge   | -.00227 | .00179  | -.00067 | .01741   | .00017   | 2.0140  | -.00090 |
| SDev   | .00184  | .00212  | .00107  | .00084   | .00102   | .2059   | .00155  |
| %RSD   | 81.058  | 118.16  | 159.05  | 4.8413   | 597.28   | 10.225  | 173.01  |
| #1     | -.00039 | .00073  | .00093  | .01763   | -.00034  | 2.2594  | -.00222 |
| #2     | -.00162 | .00497  | -.00121 | .01676   | .00102   | 1.8754  | .00005  |
| #3     | -.00476 | .00074  | -.00121 | .01675   | -.00102  | 1.8156  | -.00222 |
| #4     | -.00232 | .00073  | -.00121 | .01851   | .00102   | 2.1058  | .00079  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass  | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  | 100.00   | 400.00   | 1000.0  | 20.000  |
| Low    | -.00500 | -.05000 | -.01000 | -.02500  | -.10000  | -5.0000 | -.05000 |
| Elem   | MG      | MN      | MO      | NA       | NI       | PB      | SB      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm      | ppm     | ppm     |
| Avge   | .24181  | .00125  | .00261  | S-.14636 | -.00107  | .73161  | .06102  |
| SDev   | .00917  | .00050  | .00603  | .00000   | .00434   | .03139  | .00555  |
| %RSD   | 3.7921  | 40.121  | 230.94  | .00000   | 403.93   | 4.2910  | 9.0980  |
| #1     | .24518  | .00050  | -.00261 | S-.14636 | -.00663  | .74763  | .06375  |
| #2     | .24248  | .00150  | -.00261 | S-.14636 | .00186   | .72367  | .06385  |
| #3     | .22901  | .00150  | .00783  | S-.14636 | -.00235  | .76366  | .06378  |
| #4     | .25057  | .00150  | .00783  | S-.14636 | .00283   | .69149  | .05269  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass  | LC Pass  | LC Pass | LC Pass |
| High   | 600.00  | 100.00  | 50.000  | 400.00   | 100.00   | 100.00  | 100.00  |
| Low    | -5.0000 | -.01500 | -.04000 | -5.0000  | -.04000  | -.10000 | -.06000 |
| Elem   | SE      | SI      | SN      | SR       | TI       | TL      | V_      |
| Units  | ppm     | ppm     | ppm     | ppm      | ppm      | ppm     | ppm     |
| Avge   | .02500  | 2.4104  | -.00234 | .31228   | L-.05212 | .06875  | .00607  |
| SDev   | .05982  | .0071   | .01006  | .00165   | .00063   | .08173  | .00237  |
| %RSD   | 239.34  | .29428  | 429.13  | .52852   | 1.2005   | 118.87  | 39.082  |
| #1     | .00937  | 2.4005  | -.00233 | .31448   | L-.05196 | .06874  | .00963  |
| #2     | -.01145 | 2.4175  | -.00012 | .31152   | L-.05130 | -.03135 | .00479  |

|        |         |         |         |         |          |         |         |
|--------|---------|---------|---------|---------|----------|---------|---------|
| #3     | .11352  | 2.4118  | -.01564 | .31250  | L-.05261 | .06879  | .00493  |
| #4     | -.01145 | 2.4118  | .00871  | .31063  | L-.05261 | .16884  | .00493  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Low   | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 100.00  | 50.000  | 50.000   | 100.00  | 100.00  |
| Low    | -.25000 | -.50000 | -.10000 | -.05000 | -.05000  | -2.0000 | -.05000 |

|       |        |
|-------|--------|
| Elem  | ZN     |
| Units | ppm    |
| Avge  | .00147 |
| SDev  | .00092 |
| %RSD  | 62.474 |

|    |        |
|----|--------|
| #1 | .00122 |
| #2 | .00255 |
| #3 | .00176 |
| #4 | .00036 |

|        |         |
|--------|---------|
| Errors | LC Pass |
| High   | 100.00  |
| Low    | -.02000 |

Method: QUANMET Sample Name: DN6N7T

Operator: WTR

Run Time: 11/05/00 09:54:11

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | B_     | BA     | BE     | CA     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00101 | .48855 | .26671 | .02268 | .30818 | .00032 | 17.562 |
| SDev  | .00166 | .00717 | .04604 | .00231 | .00120 | .00012 | .052   |
| %RSD  | 164.30 | 1.4676 | 17.262 | 10.184 | .38877 | 39.128 | .29415 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | .00245  | .49379 | .27275 | .02238 | .30827 | .00037 | 17.511 |
| #2 | -.00043 | .48330 | .20345 | .02441 | .30655 | .00038 | 17.554 |
| #3 | -.00043 | .48151 | .31380 | .01953 | .30847 | .00013 | 17.549 |
| #4 | .00245  | .49560 | .27684 | .02441 | .30943 | .00038 | 17.634 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 100.00  | 100.00  | 100.00  | 15.000  | 600.00  |
| Low    | -.01000 | -.20000 | -.30000 | -.20000 | -.20000 | -.00500 | -5.0000 |

| Elem  | CD     | CO     | CR     | CU     | FE     | K_     | LI     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .06753 | .00531 | .00188 | .04167 | .12220 | 3.2792 | .00066 |
| SDev  | .00471 | .00244 | .00296 | .00044 | .00211 | .1644  | .00031 |
| %RSD  | 6.9683 | 45.849 | 157.27 | 1.0594 | 1.7248 | 5.0127 | 46.693 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .06139 | .00180 | .00040 | .04145 | .12101 | 3.1299 | .00024 |
| #2 | .07179 | .00601 | .00040 | .04145 | .12033 | 3.5139 | .00071 |
| #3 | .07056 | .00742 | .00040 | .04146 | .12237 | 3.2408 | .00071 |
| #4 | .06637 | .00602 | .00631 | .04234 | .12510 | 3.2323 | .00099 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  | 100.00  | 400.00  | 1000.0  | 20.000  |
| Low    | -.00500 | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.05000 |

| Elem  | MG     | MN     | MO      | NA       | NI     | PB      | SB     |
|-------|--------|--------|---------|----------|--------|---------|--------|
| Units | ppm    | ppm    | ppm     | ppm      | ppm    | ppm     | ppm    |
| Avge  | 1.9884 | .52627 | -.00259 | S-.14636 | .01152 | H134.20 | .20239 |
| SDev  | .0049  | .00216 | .00426  | .00000   | .00149 | .48     | .01914 |
| %RSD  | .24739 | .41143 | 164.30  | .00000   | 12.963 | .35773  | 9.4583 |

|    |        |        |         |          |        |         |        |
|----|--------|--------|---------|----------|--------|---------|--------|
| #1 | 1.9857 | .52527 | -.00259 | S-.14636 | .00975 | H133.98 | .21892 |
| #2 | 1.9911 | .52427 | -.00782 | S-.14636 | .01133 | H133.75 | .18582 |
| #3 | 1.9830 | .52627 | -.00259 | S-.14636 | .01340 | H134.22 | .18580 |
| #4 | 1.9938 | .52928 | .00263  | S-.14636 | .01162 | H134.87 | .21901 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC High | LC Pass |
| High   | 600.00  | 100.00  | 50.000  | 400.00  | 100.00  | 100.00  | 100.00  |
| Low    | -5.0000 | -.01500 | -.04000 | -5.0000 | -.04000 | -.10000 | -.06000 |

| Elem  | SE      | SI     | SN      | SR     | TI     | TL     | V_     |
|-------|---------|--------|---------|--------|--------|--------|--------|
| Units | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avge  | -.00588 | 1.8007 | -.01632 | .12305 | .00057 | .02132 | .00178 |
| SDev  | .03557  | .0000  | .02215  | .00060 | .00016 | .02702 | .00291 |
| %RSD  | 605.21  | .00187 | 135.70  | .48929 | 28.571 | 126.77 | 163.17 |

|    |         |        |         |        |        |         |         |
|----|---------|--------|---------|--------|--------|---------|---------|
| #1 | -.04025 | 1.8007 | .01368  | .12329 | .00033 | -.00369 | .00480  |
| #2 | .00557  | 1.8007 | -.02193 | .12216 | .00065 | .02133  | -.00010 |

|    |         |        |         |        |        |        |         |
|----|---------|--------|---------|--------|--------|--------|---------|
| #3 | .03891  | 1.8007 | -.01750 | .12324 | .00065 | .05884 | -.00124 |
| #4 | -.02774 | 1.8007 | -.03953 | .12349 | .00065 | .00878 | .00367  |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 100.00  | 50.000  | 50.000  | 100.00  | 100.00  |
| Low    | -.25000 | -.50000 | -.10000 | -.05000 | -.05000 | -2.0000 | -.05000 |

|       |        |
|-------|--------|
| Elem  | ZN     |
| Units | ppm    |
| Avge  | .13963 |
| SDev  | .00181 |
| %RSD  | 1.3002 |

|    |        |
|----|--------|
| #1 | .14169 |
| #2 | .14004 |
| #3 | .13729 |
| #4 | .13949 |

|        |         |
|--------|---------|
| Errors | LC Pass |
| High   | 100.00  |
| Low    | -.02000 |

Method: QUANMET Sample Name: DN6N8T

Operator: WTR

Run Time: 11/05/00 09:57:24

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

| Elem  | AG      | AL     | AS     | B_     | BA     | BE     | CA     |
|-------|---------|--------|--------|--------|--------|--------|--------|
| Units | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | -.00116 | 1.0336 | .28091 | .05531 | .36185 | .00041 | 200.49 |
| SDev  | .00185  | .0092  | .00825 | .00282 | .00350 | .00006 | .52    |
| %RSD  | 160.01  | .89282 | 2.9360 | 5.0987 | .96663 | 14.799 | .25938 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.00045 | 1.0238 | .29328 | .05186 | .35768 | .00038 | 199.89 |
| #2 | -.00186 | 1.0452 | .27669 | .05876 | .36152 | .00050 | 201.05 |
| #3 | -.00331 | 1.0293 | .27690 | .05531 | .36623 | .00038 | 200.24 |
| #4 | .00100  | 1.0362 | .27676 | .05531 | .36199 | .00037 | 200.76 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 100.00  | 100.00  | 100.00  | 15.000  | 600.00  |
| Low    | -.01000 | -.20000 | -.30000 | -.20000 | -.20000 | -.00500 | -5.0000 |

| Elem  | CD     | CO     | CR     | CU     | FE     | K_     | LI     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .04278 | .01527 | .00403 | .03969 | .02413 | 4.2905 | .00412 |
| SDev  | .00064 | .00182 | .00349 | .00072 | .00179 | .3192  | .00069 |
| %RSD  | 1.4980 | 11.941 | 86.685 | 1.8166 | 7.4286 | 7.4406 | 16.750 |

|    |        |        |         |        |        |        |        |
|----|--------|--------|---------|--------|--------|--------|--------|
| #1 | .04321 | .01457 | -.00067 | .03881 | .02498 | 3.9491 | .00309 |
| #2 | .04247 | .01739 | .00739  | .04057 | .02566 | 4.6916 | .00447 |
| #3 | .04204 | .01315 | .00363  | .03969 | .02157 | 4.1454 | .00447 |
| #4 | .04341 | .01598 | .00578  | .03969 | .02430 | 4.3758 | .00447 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  | 100.00  | 400.00  | 1000.0  | 20.000  |
| Low    | -.00500 | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.05000 |

| Elem  | MG     | MN     | MO      | NA       | NI     | PB     | SB     |
|-------|--------|--------|---------|----------|--------|--------|--------|
| Units | ppm    | ppm    | ppm     | ppm      | ppm    | ppm    | ppm    |
| Avge  | 7.6147 | .54776 | -.00652 | S-.14636 | .01100 | 53.418 | .22735 |
| SDev  | .0496  | .00129 | .00500  | .00000   | .00831 | .140   | .02763 |
| %RSD  | .65074 | .23579 | 76.633  | .00000   | 75.555 | .26178 | 12.155 |

|    |        |        |         |          |        |        |        |
|----|--------|--------|---------|----------|--------|--------|--------|
| #1 | 7.5440 | .54626 | -.00261 | S-.14636 | .00237 | 53.211 | .23007 |
| #2 | 7.6490 | .54926 | -.00783 | S-.14636 | .00764 | 53.452 | .26328 |
| #3 | 7.6490 | .54826 | -.01305 | S-.14636 | .01203 | 53.508 | .21911 |
| #4 | 7.6167 | .54726 | -.00261 | S-.14636 | .02197 | 53.500 | .19694 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 600.00  | 100.00  | 50.000  | 400.00  | 100.00  | 100.00  | 100.00  |
| Low    | -5.0000 | -.01500 | -.04000 | -5.0000 | -.04000 | -.10000 | -.06000 |

| Elem  | SE      | SI     | SN      | SR     | TI      | TL     | V_     |
|-------|---------|--------|---------|--------|---------|--------|--------|
| Units | ppm     | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avge  | -.00618 | 12.066 | -.00732 | .98742 | -.01225 | .12259 | .00234 |
| SDev  | .03762  | .054   | .01468  | .01046 | .00063  | .07575 | .00282 |
| %RSD  | 609.22  | .44726 | 200.47  | 1.0590 | 5.1063  | 61.794 | 120.43 |

|    |         |        |         |        |         |        |         |
|----|---------|--------|---------|--------|---------|--------|---------|
| #1 | -.04471 | 11.985 | -.01507 | .97374 | -.01176 | .19764 | -.00004 |
| #2 | -.02388 | 12.087 | .00724  | .98927 | -.01176 | .16007 | .00475  |



|    |        |        |         |        |         |        |         |
|----|--------|--------|---------|--------|---------|--------|---------|
| #3 | .04276 | 12.098 | -.02399 | .99914 | -.01307 | .11014 | -.00016 |
| #4 | .00112 | 12.093 | .00253  | .98755 | -.01242 | .02248 | .00481  |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 100.00  | 50.000  | 50.000  | 100.00  | 100.00  |
| Low    | -.25000 | -.50000 | -.10000 | -.05000 | -.05000 | -2.0000 | -.05000 |

Elem ZN  
Units ppm  
Avge .20046  
SDev .00364  
%RSD 1.8149

|    |        |
|----|--------|
| #1 | .20179 |
| #2 | .19904 |
| #3 | .20474 |
| #4 | .19626 |

|        |         |
|--------|---------|
| Errors | LC Pass |
| High   | 100.00  |
| Low    | -.02000 |

Method: QUANMET Sample Name: DN6N7T/2 PB

Operator: WTR

Run Time: 11/05/00 10:01:39

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | B_     | BA     | BE     | CA     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00104 | .24945 | .13588 | .02490 | .15893 | .00019 | 9.0094 |
| SDev  | .00117 | .01073 | .07190 | .00971 | .00083 | .00007 | .0234  |
| %RSD  | 112.59 | 4.3030 | 52.919 | 38.989 | .52276 | 36.482 | .25972 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | .00247  | .26098 | .05405 | .02226 | .15821 | .00013 | 9.0382 |
| #2 | -.00039 | .23780 | .20953 | .03913 | .15965 | .00026 | 8.9943 |
| #3 | .00102  | .24330 | .18094 | .02084 | .15965 | .00014 | 8.9869 |
| #4 | .00106  | .25570 | .09899 | .01737 | .15821 | .00025 | 9.0183 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 2.0000  | 600.00  | 100.00  | 100.00  | 100.00  | 15.000  | 600.00  |
| Low    | -.01000 | -.20000 | -.30000 | -.20000 | -.20000 | -.00500 | -5.0000 |

| Elem  | CD     | CO     | CR     | CU     | FE     | K_     | LI      |
|-------|--------|--------|--------|--------|--------|--------|---------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avge  | .03713 | .00476 | .00201 | .02007 | .05838 | 1.4444 | -.00036 |
| SDev  | .00385 | .00304 | .00219 | .00111 | .00096 | .3435  | .00138  |
| %RSD  | 10.371 | 63.896 | 108.83 | 5.5405 | 1.6500 | 23.778 | 385.10  |

|    |        |        |         |        |        |        |         |
|----|--------|--------|---------|--------|--------|--------|---------|
| #1 | .03760 | .00476 | .00363  | .02029 | .05974 | 1.4828 | .00071  |
| #2 | .03585 | .00194 | -.00013 | .01852 | .05838 | 1.1244 | -.00219 |
| #3 | .03293 | .00336 | .00040  | .02029 | .05770 | 1.2609 | -.00067 |
| #4 | .04213 | .00899 | .00416  | .02117 | .05770 | 1.9095 | .00071  |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  | 100.00  | 400.00  | 1000.0  | 20.000  |
| Low    | -.00500 | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.05000 |

| Elem  | MG     | MN     | MO      | NA      | NI     | PB     | SB     |
|-------|--------|--------|---------|---------|--------|--------|--------|
| Units | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avge  | 1.0467 | .27039 | -.00391 | H693.28 | .00528 | 68.935 | .08322 |
| SDev  | .0104  | .00058 | .00500  | 5.09    | .00596 | .114   | .01398 |
| %RSD  | .99691 | .21446 | 127.91  | .73403  | 112.91 | .16588 | 16.797 |

|    |        |        |         |         |        |        |        |
|----|--------|--------|---------|---------|--------|--------|--------|
| #1 | 1.0427 | .27090 | -.00260 | H690.64 | .00159 | 69.053 | .06376 |
| #2 | 1.0454 | .27090 | .00262  | H693.53 | .01342 | 68.877 | .08602 |
| #3 | 1.0373 | .26989 | -.00782 | H700.30 | .00015 | 69.005 | .09707 |
| #4 | 1.0615 | .26989 | -.00782 | H688.65 | .00595 | 68.805 | .08604 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC High | LC Pass | LC Pass | LC Pass |
| High   | 600.00  | 100.00  | 50.000  | 400.00  | 100.00  | 100.00  | 100.00  |
| Low    | -5.0000 | -.01500 | -.04000 | -5.0000 | -.04000 | -.10000 | -.06000 |

| Elem  | SE     | SI     | SN      | SR     | TI     | TL     | V_     |
|-------|--------|--------|---------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avge  | .00747 | .89539 | -.01960 | .06330 | .00049 | .08266 | .00056 |
| SDev  | .02393 | .00004 | .01175  | .00040 | .00019 | .03537 | .00349 |
| %RSD  | 320.44 | .00455 | 59.950  | .63497 | 38.490 | 42.785 | 626.11 |

|    |         |        |         |        |        |        |        |
|----|---------|--------|---------|--------|--------|--------|--------|
| #1 | -.01127 | .89540 | -.01358 | .06335 | .00065 | .10766 | .00118 |
| #2 | -.01128 | .89538 | -.00684 | .06291 | .00065 | .10771 | .00003 |

|    |        |        |         |        |        |        |         |
|----|--------|--------|---------|--------|--------|--------|---------|
| #3 | .01371 | .89534 | -.03340 | .06384 | .00033 | .03266 | -.00373 |
| #4 | .03871 | .89544 | -.02458 | .06310 | .00033 | .08260 | .00474  |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 20.000  | 100.00  | 50.000  | 50.000  | 100.00  | 100.00  |
| Low    | -.25000 | -.50000 | -.10000 | -.05000 | -.05000 | -2.0000 | -.05000 |

Elem ZN  
Units ppm  
Avge .06947  
SDev .00140  
%RSD 2.0216

|    |        |
|----|--------|
| #1 | .07025 |
| #2 | .06828 |
| #3 | .06830 |
| #4 | .07106 |

|        |         |
|--------|---------|
| Errors | LC Pass |
| High   | 100.00  |
| Low    | -.02000 |

Method: QUANMET Sample Name: CCV2-2

Operator: WTR

Run Time: 11/05/00 10:04:48

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | B_     | BA     | BE     | CA     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | .98459 | 48.894 | 5.1880 | 4.8341 | 4.7744 | 4.8578 | 51.691 |
| SDev  | .00074 | .180   | .0576  | .0106  | .0270  | .0156  | .194   |
| %RSD  | .07561 | .36910 | 1.1098 | .21993 | .56579 | .32105 | .37501 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .98424 | 48.972 | 5.1863 | 4.8212 | 4.7836 | 4.8584 | 51.557 |
| #2 | .98416 | 48.651 | 5.2382 | 4.8422 | 4.7414 | 4.8366 | 51.876 |
| #3 | .98426 | 49.073 | 5.1078 | 4.8434 | 4.8054 | 4.8739 | 51.493 |
| #4 | .98570 | 48.878 | 5.2196 | 4.8297 | 4.7670 | 4.8624 | 51.838 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 1.1000  | 55.000  | 5.5000  | 5.5000  | 5.5000  | 5.5000  | 55.000  |
| Low    | .90000  | 45.000  | 4.5000  | 4.5000  | 4.5000  | 4.5000  | 45.000  |

| Elem  | CD     | CO     | CR     | CU     | FE     | K_     | LI     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | 5.0700 | 4.9159 | 4.9702 | 4.7670 | 51.246 | 47.853 | 4.7279 |
| SDev  | .0241  | .0094  | .0147  | .0262  | .061   | .290   | .0456  |
| %RSD  | .47559 | .19033 | .29536 | .54921 | .11956 | .60609 | .96377 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 5.0790 | 4.9102 | 4.9651 | 4.7765 | 51.220 | 47.516 | 4.7498 |
| #2 | 5.0374 | 4.9259 | 4.9711 | 4.7307 | 51.181 | 47.823 | 4.6680 |
| #3 | 5.0691 | 4.9059 | 4.9549 | 4.7924 | 51.259 | 47.848 | 4.7737 |
| #4 | 5.0944 | 4.9214 | 4.9899 | 4.7686 | 51.325 | 48.224 | 4.7202 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 5.5000  | 5.5000  | 5.5000  | 5.5000  | 55.000  | 55.000  | 5.5000  |
| Low    | 4.5000  | 4.5000  | 4.5000  | 4.5000  | 45.000  | 45.000  | 4.5000  |

| Elem  | MG     | MN     | MO     | NA     | NI     | PB     | SB     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | 49.373 | 4.9131 | 4.9375 | 47.106 | 4.9370 | 5.0771 | 4.9852 |
| SDev  | .140   | .0083  | .0104  | .323   | .0279  | .0177  | .0265  |
| %RSD  | .28349 | .16926 | .21160 | .68482 | .56531 | .34842 | .53077 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 49.394 | 4.9071 | 4.9322 | 47.248 | 4.9024 | 5.0589 | 5.0017 |
| #2 | 49.179 | 4.9121 | 4.9322 | 46.670 | 4.9679 | 5.0836 | 5.0133 |
| #3 | 49.513 | 4.9081 | 4.9322 | 47.425 | 4.9294 | 5.0987 | 4.9576 |
| #4 | 49.405 | 4.9251 | 4.9531 | 47.083 | 4.9482 | 5.0672 | 4.9685 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 55.000  | 5.5000  | 5.5000  | 55.000  | 5.5000  | 5.5000  | 5.5000  |
| Low    | 45.000  | 4.5000  | 4.5000  | 45.000  | 4.5000  | 4.5000  | 4.5000  |

| Elem  | SE     | SI     | SN     | SR     | TI     | TL     | V_     |
|-------|--------|--------|--------|--------|--------|--------|--------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge  | 5.0338 | 4.8588 | 5.0789 | 4.8130 | 4.8709 | 9.7773 | 4.8433 |
| SDev  | .1092  | .0283  | .0275  | .0232  | .0124  | .1702  | .0085  |
| %RSD  | 2.1691 | .58321 | .54222 | .48098 | .25396 | 1.7406 | .17461 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 5.1514 | 4.8447 | 5.0418 | 4.8193 | 4.8759 | 9.8682 | 4.8453 |
| #2 | 4.8889 | 4.8445 | 5.0952 | 4.7844 | 4.8540 | 9.9437 | 4.8308 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| #3     | 5.0641  | 4.8447  | 5.0749  | 4.8400  | 4.8831  | 9.7427  | 4.8477  |
| #4     | 5.0309  | 4.9013  | 5.1038  | 4.8084  | 4.8707  | 9.5543  | 4.8493  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 5.5000  | 5.5000  | 5.5000  | 5.5000  | 5.5000  | 11.000  | 5.5000  |
| Low    | 4.5000  | 4.5000  | 4.5000  | 4.5000  | 4.5000  | 9.0000  | 4.5000  |

Elem ZN  
Units ppm  
Avge 4.9207  
SDev .0077  
%RSD .15549

#1 4.9172  
#2 4.9126  
#3 4.9225  
#4 4.9304

Errors LC Pass  
High 5.5000  
Low 4.5000

Method: QUANMET Sample Name: CCB2

Operator: WTR

Run Time: 11/05/00 10:07:56

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

| Elem  | AG     | AL     | AS     | B_     | BA     | BE     | CA      |
|-------|--------|--------|--------|--------|--------|--------|---------|
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avge  | .00179 | .01109 | .05303 | .01096 | .00010 | .00016 | -.01099 |
| SDev  | .00274 | .01115 | .03068 | .00605 | .00026 | .00016 | .00364  |
| %RSD  | 153.38 | 100.57 | 57.861 | 55.185 | 260.30 | 99.626 | 33.113  |

|    |         |         |        |        |         |         |         |
|----|---------|---------|--------|--------|---------|---------|---------|
| #1 | .00250  | .00845  | .01935 | .00689 | -.00008 | -.00000 | -.01117 |
| #2 | -.00036 | .01372  | .04382 | .01036 | .00000  | .00013  | -.01307 |
| #3 | -.00036 | -.00231 | .09299 | .00690 | .00000  | .00013  | -.01390 |
| #4 | .00537  | .02449  | .05594 | .01970 | .00048  | .00038  | -.00581 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .01000  | .20000  | .30000  | .20000  | .20000  | .00500  | 5.0000  |
| Low    | -.01000 | -.20000 | -.30000 | -.20000 | -.20000 | -.00500 | -5.0000 |

| Elem  | CD      | CO     | CR      | CU      | FE      | K_      | LI     |
|-------|---------|--------|---------|---------|---------|---------|--------|
| Units | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avge  | -.00107 | .00106 | -.00094 | -.00176 | -.00714 | -.10668 | .00022 |
| SDev  | .00135  | .00313 | .00221  | .00144  | .00141  | .40811  | .00067 |
| %RSD  | 126.53  | 295.25 | 235.46  | 81.728  | 19.670  | 382.57  | 304.38 |

|    |         |         |         |         |         |         |         |
|----|---------|---------|---------|---------|---------|---------|---------|
| #1 | .00023  | .00212  | -.00336 | -.00353 | -.00697 | -.36056 | .00024  |
| #2 | -.00006 | -.00212 | -.00121 | -.00177 | -.00698 | -.36910 | .00043  |
| #3 | -.00196 | -.00070 | -.00121 | -.00176 | -.00902 | -.18988 | -.00070 |
| #4 | -.00247 | .00495  | .00201  | .00000  | -.00561 | .49284  | .00090  |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .00500  | .05000  | .01000  | .02500  | .10000  | 5.0000  | .05000  |
| Low    | -.00500 | -.05000 | -.01000 | -.02500 | -.10000 | -5.0000 | -.05000 |

| Elem  | MG      | MN     | MO     | NA     | NI      | PB      | SB      |
|-------|---------|--------|--------|--------|---------|---------|---------|
| Units | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     | ppm     |
| Avge  | -.01347 | .00050 | .00261 | .00133 | -.00432 | -.01603 | -.01108 |
| SDev  | .02537  | .00000 | .00426 | .00753 | .00305  | .02010  | .02284  |
| %RSD  | 188.33  | .24314 | 163.35 | 564.22 | 70.485  | 125.41  | 206.17  |

|    |         |        |         |         |         |         |         |
|----|---------|--------|---------|---------|---------|---------|---------|
| #1 | -.02964 | .00050 | .00261  | .00267  | -.00309 | -.00602 | -.03600 |
| #2 | -.02694 | .00050 | .00261  | -.00267 | -.00059 | -.04618 | -.01380 |
| #3 | -.02155 | .00050 | .00783  | -.00595 | -.00654 | -.00605 | -.01390 |
| #4 | .02425  | .00050 | -.00261 | .01129  | -.00707 | -.00587 | .01939  |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 5.0000  | .01500  | .04000  | 5.0000  | .04000  | .10000  | .06000  |
| Low    | -5.0000 | -.01500 | -.04000 | -5.0000 | -.04000 | -.10000 | -.06000 |

| Elem  | SE      | SI     | SN      | SR     | TI     | TL     | V_     |
|-------|---------|--------|---------|--------|--------|--------|--------|
| Units | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avge  | -.01148 | .01981 | -.01723 | .00031 | .00106 | .00320 | .00094 |
| SDev  | .03952  | .03439 | .00853  | .00044 | .00098 | .07739 | .00177 |
| %RSD  | 344.33  | 173.57 | 49.465  | 141.67 | 91.879 | 2420.4 | 188.74 |

|    |         |         |         |         |         |         |        |
|----|---------|---------|---------|---------|---------|---------|--------|
| #1 | -.04897 | .04668  | -.00514 | .00007  | .00131  | -.04372 | .00003 |
| #2 | -.03647 | -.00990 | -.02500 | -.00014 | -.00000 | -.03117 | .00003 |

|    |        |         |         |        |        |         |        |
|----|--------|---------|---------|--------|--------|---------|--------|
| #3 | .00101 | -.00990 | -.01835 | .00046 | .00065 | .11895  | .00010 |
| #4 | .03852 | .05238  | -.02044 | .00085 | .00229 | -.03127 | .00359 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | .25000  | .50000  | .10000  | .05000  | .05000  | .30000  | .05000  |
| Low    | -.25000 | -.50000 | -.10000 | -.05000 | -.05000 | -.30000 | -.05000 |

|       |         |
|-------|---------|
| Elem  | ZN      |
| Units | ppm     |
| Avge  | -.00332 |
| SDev  | .00147  |
| %RSD  | 44.275  |

|    |         |
|----|---------|
| #1 | -.00423 |
| #2 | -.00368 |
| #3 | -.00422 |
| #4 | -.00115 |

|        |         |
|--------|---------|
| Errors | LC Pass |
| High   | .02000  |
| Low    | -.02000 |

674 843

# STL-Pittsburgh Atomic Absorption Data for Mercury

Instrument: PS200HG

Analyst Name: William A. Hyde

Date of Analysis: 11-6-00

File ID: 1106HGA

Matrix: WATER

Lot Number/SDG

Method

|                  |                |                |
|------------------|----------------|----------------|
| <u>COJ260114</u> | <u>TCLP</u>    | <u>7470A</u>   |
| <u>COJ310200</u> | ↓              |                |
| <u>COJ310122</u> | ↓              |                |
| <u>COK020283</u> | ↓              |                |
| <u>COJ240123</u> |                |                |
| <u>COJ280122</u> |                |                |
| <u>AOJ240135</u> |                |                |
| <u>AOJ260102</u> |                |                |
| <u>AOJ270143</u> |                |                |
| <u>COJ140138</u> | <u>JERVISI</u> | <u>ILM04.0</u> |
| <u>COJ240075</u> | ↓              | ↓              |
|                  |                |                |
|                  |                |                |



674 844

William A. Hoyle 11-6-00

08:34:11 06 Nov 2000

Folder: 1106HGA  
Protocol: HGMET

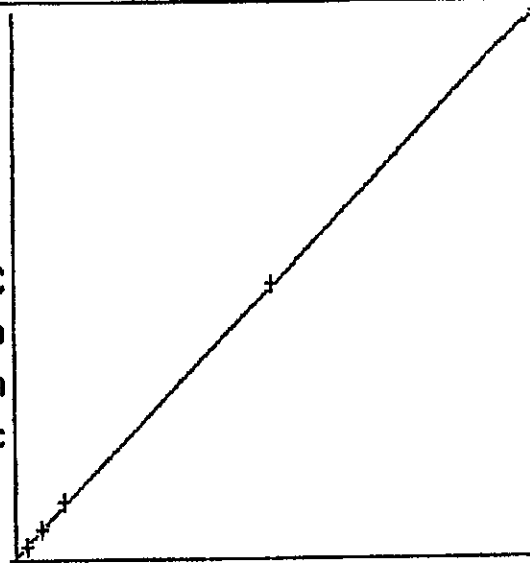
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| Line                   | Conc. | Units | SD/RSD | 1           | 2 | 3                       | 4 | 5 |
|------------------------|-------|-------|--------|-------------|---|-------------------------|---|---|
| *** Standard: 1 Rep: 1 |       |       |        | Seq: 0      |   | 08:34:11 06 Nov 2000 HG |   |   |
| Hg                     | .000  | ppb   | 2350   |             |   |                         |   |   |
| *** Standard: 2 Rep: 1 |       |       |        | Seq: 1      |   | 08:35:37 06 Nov 2000 HG |   |   |
| Hg                     | .200  | ppb   | 20091  | 0057-138-15 |   |                         |   |   |
| *** Standard: 3 Rep: 1 |       |       |        | Seq: 2      |   | 08:37:02 06 Nov 2000 HG |   |   |
| Hg                     | .500  | ppb   | 45747  | 0057-139-1  |   |                         |   |   |
| *** Standard: 4 Rep: 1 |       |       |        | Seq: 3      |   | 08:38:43 06 Nov 2000 HG |   |   |
| Hg                     | 1.00  | ppb   | 85851  | 0057-139-2  |   |                         |   |   |
| *** Standard: 5 Rep: 1 |       |       |        | Seq: 4      |   | 08:40:29 06 Nov 2000 HG |   |   |
| Hg                     | 5.00  | ppb   | 451973 | 0057-139-3  |   |                         |   |   |
| *** Standard: 6 Rep: 1 |       |       |        | Seq: 5      |   | 08:41:58 06 Nov 2000 HG |   |   |
| Hg                     | 10.0  | ppb   | 922103 | 0057-139-4  |   |                         |   |   |

674 845

RunProt: HGMET STL-PITTSBURGH METALS ANALYSIS  
 RunFold: 1106HGA Seq: 6 Batch:  
 Prnt: R/T On Pump: On  
 Rev: 4.2 08:42:39 06 Nov 2000 Xmit: Off Gas: 0.30 LPM  
 State: Idle User: WAI A/S: On

CALIBRATION: Line proto: HGMET  
 Hg Accepted  
 Conc. Calc. Dev. ->linear  
 S1 .000 .040 .040 Quadratic  
 S2 .200 .233 .033 Wtdlinear  
 S3 .500 .512 .012 C  
 S4 1.00 .948 -.052 Accept o  
 S5 5.00 4.93 -.072 n  
 S6 10.0 10.0 .039 c  
 A .0000000 r .999923  
 B 1.00700e-5 C 1.46865e-2



Mean  
 S1 2350 0 SD 2350  
 S2 20091 0 %RSD 20091  
 S3 45747 0 %RSD 45747  
 S4 85851 0 %RSD 85851  
 S5 451973 0 %RSD 451973  
 S6 922103 0 %RSD 922103

New cal coefficients stored

674 846

William a Hoyle 11-6-00

08:44:50 06 Nov 2000

Folder: 1106HGA

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Protocol: HGMET

| Line                   | Conc. | Units | SD/RSD | 1          | 2                       | 3 | 4 | 5 |
|------------------------|-------|-------|--------|------------|-------------------------|---|---|---|
| *** Sample ID: ICV5-1  |       |       |        | Seq: 6     | 08:44:50 06 Nov 2000 HG |   |   |   |
| Hg                     | 2.56  | ppb   | 234545 | 0057-139-5 |                         |   |   |   |
| *** Sample ID: ICB1    |       |       |        | Seq: 7     | 08:46:24 06 Nov 2000 HG |   |   |   |
| Hg                     | .084  | ppb   | 6380   |            |                         |   |   |   |
| *** Sample ID: CRA-1   |       |       |        | Seq: 8     | 08:47:52 06 Nov 2000 HG |   |   |   |
| Hg                     | .219  | ppb   | 18808  | 0057-139-6 |                         |   |   |   |
| *** Sample ID: CCV5-1  |       |       |        | Seq: 9     | 08:49:56 06 Nov 2000 HG |   |   |   |
| Hg                     | 5.03  | ppb   | 461320 | 0057-139-7 |                         |   |   |   |
| *** Sample ID: CCB1    |       |       |        | Seq: 10    | 08:51:36 06 Nov 2000 HG |   |   |   |
| Hg                     | .056  | ppb   | 3825   |            |                         |   |   |   |
| *** Sample ID: DPD32BT |       |       |        | Seq: 11    | 08:53:27 06 Nov 2000 HG |   |   |   |
| Hg                     | .156  | ppb   | 12981  |            |                         |   |   |   |
| *** Sample ID: DPD32CT |       |       |        | Seq: 12    | 08:55:22 06 Nov 2000 HG |   |   |   |
| Hg                     | 2.69  | ppb   | 246104 | 0057-139-8 |                         |   |   |   |
| *** Sample ID: DPAMLBT |       |       |        | Seq: 13    | 08:57:29 06 Nov 2000 HG |   |   |   |
| Hg                     | .093  | ppb   | 7238   |            |                         |   |   |   |
| *** Sample ID: DNRXGT  |       |       |        | Seq: 14    | 08:59:06 06 Nov 2000 HG |   |   |   |
| Hg                     | .088  | ppb   | 6704   |            |                         |   |   |   |
| *** Sample ID: DNRXRT  |       |       |        | Seq: 15    | 09:00:36 06 Nov 2000 HG |   |   |   |
| Hg                     | .090  | ppb   | 6891   |            |                         |   |   |   |
| *** Sample ID: DN4P6T  |       |       |        | Seq: 16    | 09:02:26 06 Nov 2000 HG |   |   |   |
| Hg                     | .084  | ppb   | 6410   |            |                         |   |   |   |
| *** Sample ID: DN4P6ST |       |       |        | Seq: 17    | 09:03:53 06 Nov 2000 HG |   |   |   |
| Hg                     | 5.22  | ppb   | 478433 |            |                         |   |   |   |

SP. REC.  
103%

674 847

09:05:18 06 Nov 2000

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Protocol: HGMET

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| Line                   | Conc. | Units | SD/RSD | 1          | 2                       | 3 | 4 | 5                                     |
|------------------------|-------|-------|--------|------------|-------------------------|---|---|---------------------------------------|
| *** Sample ID: DN4P6DT |       |       |        | Seq: 18    | 09:05:18 06 Nov 2000 HG |   |   |                                       |
| Hg                     | 5.29  | ppb   | 485502 |            |                         |   |   | SP.REC.<br>104%                       |
| *** Sample ID: DN4QJT  |       |       |        | Seq: 19    | 09:07:43 06 Nov 2000 HG |   |   |                                       |
| Hg                     | .064  | ppb   | 4568   |            |                         |   |   |                                       |
| *** Sample ID: DN4QKT  |       |       |        | Seq: 20    | 09:09:11 06 Nov 2000 HG |   |   |                                       |
| Hg                     | -.038 | ppb   | -4806  |            |                         |   |   |                                       |
| *** Sample ID: CCV5-2  |       |       |        | Seq: 21    | 09:10:35 06 Nov 2000 HG |   |   |                                       |
| Hg                     | 5.15  | ppb   | 471990 |            |                         |   |   |                                       |
| *** Sample ID: CCB2    |       |       |        | Seq: 22    | 09:12:22 06 Nov 2000 HG |   |   |                                       |
| Hg                     | .054  | ppb   | 3646   |            |                         |   |   |                                       |
| *** Sample ID: DPD34BT |       |       |        | Seq: 23    | 09:13:47 06 Nov 2000 HG |   |   |                                       |
| Hg                     | .044  | ppb   | 2692   |            |                         |   |   |                                       |
| *** Sample ID: DPD34CT |       |       |        | Seq: 24    | 09:15:23 06 Nov 2000 HG |   |   |                                       |
| Hg                     | 2.61  | ppb   | 238566 | 0057-139-9 |                         |   |   |                                       |
| *** Sample ID: DPDLBT  |       |       |        | Seq: 25    | 09:17:30 06 Nov 2000 HG |   |   |                                       |
| Hg                     | .014  | ppb   | -45    |            |                         |   |   |                                       |
| *** Sample ID: DN30ET  |       |       |        | Seq: 26    | 09:18:58 06 Nov 2000 HG |   |   |                                       |
| Hg                     | .126  | ppb   | 10281  |            |                         |   |   |                                       |
| *** Sample ID: DN30EST |       |       |        | Seq: 27    | 09:20:53 06 Nov 2000 HG |   |   |                                       |
| Hg                     | 5.03  | ppb   | 460307 |            |                         |   |   | SP.REC.<br>100% 98%<br>WAH<br>11-6-00 |
| *** Sample ID: DN30EDT |       |       |        | Seq: 28    | 09:22:29 06 Nov 2000 HG |   |   |                                       |
| Hg                     | 5.24  | ppb   | 481120 |            |                         |   |   | SP.REC.<br>102%                       |
| *** Sample ID: DN30JT  |       |       |        | Seq: 29    | 09:23:59 06 Nov 2000 HG |   |   |                                       |
| Hg                     | .086  | ppb   | 6579   |            |                         |   |   |                                       |

09:25:33 06 Nov 2000

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| Line                  | Conc. | Units | SD/RSD | 1       | 2                       | 3 | 4 | 5 |
|-----------------------|-------|-------|--------|---------|-------------------------|---|---|---|
| *** Sample ID: DN30KT |       |       |        |         |                         |   |   |   |
|                       |       |       |        | Seq: 30 | 09:25:33 06 Nov 2000 HG |   |   |   |
| Hg                    | .168  | ppb   | 14089  |         |                         |   |   |   |
| *** Sample ID: DN30MT |       |       |        |         |                         |   |   |   |
|                       |       |       |        | Seq: 31 | 09:27:11 06 Nov 2000 HG |   |   |   |
| Hg                    | .091  | ppb   | 7009   |         |                         |   |   |   |
| *** Sample ID: DN30PT |       |       |        |         |                         |   |   |   |
|                       |       |       |        | Seq: 32 | 09:28:36 06 Nov 2000 HG |   |   |   |
| Hg                    | .079  | ppb   | 5952   |         |                         |   |   |   |
| *** Sample ID: CCV5-3 |       |       |        |         |                         |   |   |   |
|                       |       |       |        | Seq: 33 | 09:30:02 06 Nov 2000 HG |   |   |   |
| Hg                    | 5.09  | ppb   | 466594 |         |                         |   |   |   |
| *** Sample ID: CCB3   |       |       |        |         |                         |   |   |   |
|                       |       |       |        | Seq: 34 | 09:32:41 06 Nov 2000 HG |   |   |   |
| Hg                    | .091  | ppb   | 7031   |         |                         |   |   |   |
| *** Sample ID: DN30TT |       |       |        |         |                         |   |   |   |
|                       |       |       |        | Seq: 35 | 09:34:06 06 Nov 2000 HG |   |   |   |
| Hg                    | .073  | ppb   | 5326   |         |                         |   |   |   |
| *** Sample ID: DN300T |       |       |        |         |                         |   |   |   |
|                       |       |       |        | Seq: 36 | 09:35:34 06 Nov 2000 HG |   |   |   |
| Hg                    | .142  | ppb   | 11698  |         |                         |   |   |   |
| *** Sample ID: DN301T |       |       |        |         |                         |   |   |   |
|                       |       |       |        | Seq: 37 | 09:37:00 06 Nov 2000 HG |   |   |   |
| Hg                    | .123  | ppb   | 9954   |         |                         |   |   |   |
| *** Sample ID: DN9GAT |       |       |        |         |                         |   |   |   |
|                       |       |       |        | Seq: 38 | 09:38:29 06 Nov 2000 HG |   |   |   |
| Hg                    | .280  | ppb   | 24408  |         |                         |   |   |   |
| *** Sample ID: DN9GGT |       |       |        |         |                         |   |   |   |
|                       |       |       |        | Seq: 39 | 09:40:15 06 Nov 2000 HG |   |   |   |
| Hg                    | .247  | ppb   | 21344  |         |                         |   |   |   |
| *** Sample ID: DN9GHT |       |       |        |         |                         |   |   |   |
|                       |       |       |        | Seq: 40 | 09:41:40 06 Nov 2000 HG |   |   |   |
| Hg                    | .279  | ppb   | 24281  |         |                         |   |   |   |
| *** Sample ID: DN9GJT |       |       |        |         |                         |   |   |   |
|                       |       |       |        | Seq: 41 | 09:43:25 06 Nov 2000 HG |   |   |   |
| Hg                    | .243  | ppb   | 20997  |         |                         |   |   |   |

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09:44:52 06 Nov 2000

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| Line                  | Conc. | Units | SD/RSD | 1       | 2                       | 3 | 4 | 5 |
|-----------------------|-------|-------|--------|---------|-------------------------|---|---|---|
| *** Sample ID: DN9GKT |       |       |        | Seq: 42 | 09:44:52 06 Nov 2000 HG |   |   |   |
| Hg                    | .239  | ppb   | 20670  |         |                         |   |   |   |
| *** Sample ID: DN9GLT |       |       |        | Seq: 43 | 09:46:17 06 Nov 2000 HG |   |   |   |
| Hg                    | .217  | ppb   | 18567  |         |                         |   |   |   |
| *** Sample ID: DN9GMT |       |       |        | Seq: 44 | 09:47:57 06 Nov 2000 HG |   |   |   |
| Hg                    | .304  | ppb   | 26586  |         |                         |   |   |   |
| *** Sample ID: CCV5-4 |       |       |        | Seq: 45 | 09:49:45 06 Nov 2000 HG |   |   |   |
| Hg                    | 5.30  | ppb   | 486010 |         |                         |   |   |   |
| *** Sample ID: CCB4   |       |       |        | Seq: 46 | 09:51:21 06 Nov 2000 HG |   |   |   |
| Hg                    | -.006 | ppb   | -1857  |         |                         |   |   |   |
| *** Sample ID: DN9GNT |       |       |        | Seq: 47 | 09:53:02 06 Nov 2000 HG |   |   |   |
| Hg                    | .241  | ppb   | 20850  |         |                         |   |   |   |
| *** Sample ID: DPD5WB |       |       |        | Seq: 48 | 09:54:29 06 Nov 2000 HG |   |   |   |
| Hg                    | .060  | ppb   | 4196   |         |                         |   |   |   |
| *** Sample ID: DPD5WC |       |       |        | Seq: 49 | 09:56:05 06 Nov 2000 HG |   |   |   |
| Hg                    | 2.53  | ppb   | 231758 |         | 0057-139-10             |   |   |   |
| *** Sample ID: DNMA5  |       |       |        | Seq: 50 | 09:57:33 06 Nov 2000 HG |   |   |   |
| Hg                    | 4.26  | ppb   | 390682 |         |                         |   |   |   |
| *** Sample ID: DNMA5S |       |       |        | Seq: 51 | 09:59:01 06 Nov 2000 HG |   |   |   |
| Hg                    | 5.23  | ppb   | 479801 |         |                         |   |   |   |
| *** Sample ID: DNMA5D |       |       |        | Seq: 52 | 10:00:32 06 Nov 2000 HG |   |   |   |
| Hg                    | 5.20  | ppb   | 477185 |         |                         |   |   |   |
| *** Sample ID: DNMA8  |       |       |        | Seq: 53 | 10:02:10 06 Nov 2000 HG |   |   |   |
| Hg                    | 2.26  | ppb   | 206542 |         |                         |   |   |   |

SP.REC.  
9746 NCSP.REC.  
9746 NC  
WTR  
11/06

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10:04:01 06 Nov 2000

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| Line                  | Conc. | Units | SD/RSD | 1       | 2 | 3                    | 4  | 5                |
|-----------------------|-------|-------|--------|---------|---|----------------------|----|------------------|
| *** Sample ID: DNMCA  |       |       |        | Seq: 54 |   | 10:04:01 06 Nov 2000 | HG |                  |
| Hg                    | 4.53  | ppb   | 415565 |         |   |                      |    |                  |
| *** Sample ID: DPD51B |       |       |        | Seq: 55 |   | 10:05:30 06 Nov 2000 | HG |                  |
| Hg                    | .172  | ppb   | 14428  |         |   |                      |    |                  |
| *** Sample ID: DPD51C |       |       |        | Seq: 56 |   | 10:07:28 06 Nov 2000 | HG |                  |
| Hg                    | 2.60  | ppb   | 237494 |         |   |                      |    |                  |
| *** Sample ID: CCV5-5 |       |       |        | Seq: 57 |   | 10:09:00 06 Nov 2000 | HG |                  |
| Hg                    | 5.14  | ppb   | 471066 |         |   |                      |    |                  |
| *** Sample ID: CCB5   |       |       |        | Seq: 58 |   | 10:10:32 06 Nov 2000 | HG |                  |
| Hg                    | .011  | ppb   | -359   |         |   |                      |    |                  |
| *** Sample ID: DN1CR  |       |       |        | Seq: 59 |   | 10:13:03 06 Nov 2000 | HG |                  |
| Hg                    | .095  | ppb   | 7400   |         |   |                      |    |                  |
| *** Sample ID: DN1CRS |       |       |        | Seq: 60 |   | 10:14:29 06 Nov 2000 | HG |                  |
| Hg                    | 1.10  | ppb   | 100249 |         |   |                      |    | SP. REC.<br>101% |
| *** Sample ID: DN1CRD |       |       |        | Seq: 61 |   | 10:15:56 06 Nov 2000 | HG |                  |
| Hg                    | 1.10  | ppb   | 100237 |         |   |                      |    | SP. REC.<br>101% |
| *** Sample ID: DN1CT  |       |       |        | Seq: 62 |   | 10:17:31 06 Nov 2000 | HG |                  |
| Hg                    | .033  | ppb   | 1671   |         |   |                      |    |                  |
| *** Sample ID: DPD53B |       |       |        | Seq: 63 |   | 10:19:10 06 Nov 2000 | HG |                  |
| Hg                    | .056  | ppb   | 3834   |         |   |                      |    |                  |
| *** Sample ID: DPD53C |       |       |        | Seq: 64 |   | 10:20:37 06 Nov 2000 | HG |                  |
| Hg                    | 2.38  | ppb   | 217298 |         |   |                      |    |                  |
| *** Sample ID: DNMHA  |       |       |        | Seq: 65 |   | 10:22:03 06 Nov 2000 | HG |                  |
| Hg                    | .041  | ppb   | 2375   |         |   |                      |    |                  |

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| Line                  | Conc. | Units | SD/RSD | 1       | 2                    | 3  | 4 | 5               |
|-----------------------|-------|-------|--------|---------|----------------------|----|---|-----------------|
| *** Sample ID: DNMHAS |       |       |        | Seq: 66 | 10:23:30 06 Nov 2000 | HG |   |                 |
| Hg                    | 1.06  | ppb   | 96474  |         |                      |    |   | SP REC.<br>100% |
| *** Sample ID: DNMHAD |       |       |        | Seq: 67 | 10:24:59 06 Nov 2000 | HG |   |                 |
| Hg                    | 1.10  | ppb   | 99824  |         |                      |    |   | SP REC.<br>110% |
| *** Sample ID: DNRMG  |       |       |        | Seq: 68 | 10:26:37 06 Nov 2000 | HG |   |                 |
| Hg                    | .027  | ppb   | 1112   |         |                      |    |   |                 |
| *** Sample ID: CCV5-6 |       |       |        | Seq: 69 | 10:28:30 06 Nov 2000 | HG |   |                 |
| Hg                    | 5.10  | ppb   | 468254 |         |                      |    |   |                 |
| *** Sample ID: CCB6   |       |       |        | Seq: 70 | 10:29:56 06 Nov 2000 | HG |   |                 |
| Hg                    | .097  | ppb   | 7543   |         |                      |    |   |                 |
| *** Sample ID: DNXCP  |       |       |        | Seq: 71 | 10:31:28 06 Nov 2000 | HG |   |                 |
| Hg                    | .084  | ppb   | 6408   |         |                      |    |   |                 |
| *** Sample ID: DNX4D  |       |       |        | Seq: 72 | 10:33:44 06 Nov 2000 | HG |   |                 |
| Hg                    | .036  | ppb   | 1957   |         |                      |    |   |                 |
| *** Sample ID: DPD36B |       |       |        | Seq: 73 | 10:35:10 06 Nov 2000 | HG |   |                 |
| Hg                    | .182  | ppb   | 15386  |         |                      |    |   |                 |
| *** Sample ID: DPD36C |       |       |        | Seq: 74 | 10:37:06 06 Nov 2000 | HG |   |                 |
| Hg                    | 2.43  | ppb   | 222611 |         |                      |    |   | 0057-139-13     |
| *** Sample ID: DPD36L |       |       |        | Seq: 75 | 10:38:35 06 Nov 2000 | HG |   |                 |
| Hg                    | 2.58  | ppb   | 236308 |         |                      |    |   | 0057-139-14     |
| *** Sample ID: DM60M  |       |       |        | Seq: 76 | 10:40:22 06 Nov 2000 | HG |   |                 |
| Hg                    | .078  | ppb   | 5787   |         |                      |    |   |                 |
| *** Sample ID: DNN32  |       |       |        | Seq: 77 | 10:41:48 06 Nov 2000 | HG |   |                 |
| Hg                    | .051  | ppb   | 3367   |         |                      |    |   |                 |



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| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|------|-------|-------|--------|---|---|---|---|---|
|------|-------|-------|--------|---|---|---|---|---|

\*\*\* Sample ID: CCV5-7

Seq: 78

10:43:28 06 Nov 2000 HG

Hg 5.13 ppb 470588

\*\*\* Sample ID: CCB7

Seq: 79

10:45:05 06 Nov 2000 HG

Hg .053 ppb 3520

END OF ANALYSIS  
WAH  
11-6-00

674 853

RunProt: HGMET STL-PITTSBURGH METALS ANALYSIS  
RunFold: 1106HGA Seq: 0 Batch:  
Prnt: R/T On Pump: Off  
Rev: 4.2 07:46:07 06 Nov 2000 Xmit: Off Gas: LPM  
State: Idle User: WAH A/S: On

AUTOSAMPLER: Rack Edit rack: RACK1

| cup ID | Extended id | Weight | Volume | Macro | check macros |
|--------|-------------|--------|--------|-------|--------------|
| 1      | ICV5-1      | 1.0000 | 1.0000 |       |              |
| 2      | ICB1        | 1.0000 | 1.0000 |       |              |
| 3      | CRA-1       | 1.0000 | 1.0000 |       |              |
| 4      | CCV5-1      | 1.0000 | 1.0000 |       |              |
| 5      | CCB1        | 1.0000 | 1.0000 |       |              |
| 6      | DPD32BT     | 1.0000 | 1.0000 |       |              |
| 7      | DPD32CT     | 1.0000 | 1.0000 |       |              |
| 8      | DPAMLBT     | 1.0000 | 1.0000 |       |              |
| 9      | DNRXGT      | 1.0000 | 1.0000 |       |              |
| 10     | DNRXRT      | 1.0000 | 1.0000 |       |              |
| 11     | DN4P6T      | 1.0000 | 1.0000 |       |              |
| 12     | DN4P6ST     | 1.0000 | 1.0000 |       |              |
| 13     | DN4P6DT     | 1.0000 | 1.0000 |       |              |
| 14     | DN4QJT      | 1.0000 | 1.0000 |       |              |
| 15     | DN4QKT      | 1.0000 | 1.0000 |       |              |

PgDn

Cup 1 ID: ICV5-1

Cell down mode Ins to switch

RunProt: HGMET STL-PITTSBURGH METALS ANALYSIS  
RunFold: 1106HGA Seq: 0 Batch:  
Prnt: R/T On Pump: Off  
Rev: 4.2 07:46:08 06 Nov 2000 Xmit: Off Gas: LPM  
State: Idle User: WAH A/S: On

AUTOSAMPLER: Rack Edit rack: RACK1 PgUp  
cup ID Extended id Weight Volume Macro check macros  
16 CCV5-2 1.0000 1.0000  
17 CCB2 1.0000 1.0000  
18 DPD34BT 1.0000 1.0000  
19 DPD34CT 1.0000 1.0000  
20 DPDLBT 1.0000 1.0000  
21 DN30ET 1.0000 1.0000  
22 DN30EST 1.0000 1.0000  
23 DN30EDT 1.0000 1.0000  
24 DN30JT 1.0000 1.0000  
25 DN30KT 1.0000 1.0000  
26 DN30MT 1.0000 1.0000  
27 DN30PT 1.0000 1.0000  
28 CCV5-3 1.0000 1.0000  
29 CCB3 1.0000 1.0000  
30 DN30TT 1.0000 1.0000

PgDn

Cup 16 ID: CCV5-2

Cell down mode Ins to switch

RunProt: HGMET STL-PITTSBURGH METALS ANALYSIS  
RunFold: 1106HGA Seq: 0 Batch:  
Prnt: R/T On Pump: Off  
Rev: 4.2 07:46:10 06 Nov 2000 Xmit: Off Gas: LPM  
State: Idle User: WAH A/S: On

AUTOSAMPLER: Rack Edit rack: RACK1 PgUp  
cup ID Extended id Weight Volume Macro check macros  
31 DN300T 1.0000 1.0000  
32 DN301T 1.0000 1.0000  
33 DN9GAT 1.0000 1.0000  
34 DN9GGT 1.0000 1.0000  
35 DN9GHT 1.0000 1.0000  
36 DN9GJT 1.0000 1.0000  
37 DN9GKT 1.0000 1.0000  
38 DN9GLT 1.0000 1.0000  
39 DN9GMT 1.0000 1.0000  
40 CCV5-4 1.0000 1.0000  
41 CCB4 1.0000 1.0000  
42 DN9GNT 1.0000 1.0000  
43 DPD5WB 1.0000 1.0000  
44 DPD5WC 1.0000 1.0000

PgDn

Cup 31 ID: DN300T

Cell down mode Ins to switch

674 856

|                  |                                |                      |                    |
|------------------|--------------------------------|----------------------|--------------------|
| RunProt: HGMET   | STL-PITTSBURGH METALS ANALYSIS |                      |                    |
| RunFold: 1106HGA | Seq: 0                         | Batch:               |                    |
|                  | Prnt: R/T On                   | Pump: Off            |                    |
|                  | Rev: 4.2                       | 07:54:04 06 Nov 2000 | Xmit: Off Gas: LPM |
| State: Idle      |                                | User: WAH            | A/S: On            |

AUTOSAMPLER: Rack Edit rack: RACK2

| cup ID    | Extended id | Weight | Volume | Macro | check macros |
|-----------|-------------|--------|--------|-------|--------------|
| 1 DNMA5   |             | 1.0000 | 1.0000 |       |              |
| 2 DNMA5S  |             | 1.0000 | 1.0000 |       |              |
| 3 DNMA5D  |             | 1.0000 | 1.0000 |       |              |
| 4 DNMA8   |             | 1.0000 | 1.0000 |       |              |
| 5 DNMA    |             | 1.0000 | 1.0000 |       |              |
| 6 DPD51B  |             | 1.0000 | 1.0000 |       |              |
| 7 DPD51C  |             | 1.0000 | 1.0000 |       |              |
| 8 CCV5-5  |             | 1.0000 | 1.0000 |       |              |
| 9 CCB5    |             | 1.0000 | 1.0000 |       |              |
| 10 DN1CR  |             | 1.0000 | 1.0000 |       |              |
| 11 DN1CRS |             | 1.0000 | 1.0000 |       |              |
| 12 DN1CRD |             | 1.0000 | 1.0000 |       |              |
| 13 DN1CT  |             | 1.0000 | 1.0000 |       |              |
| 14 DPD53B |             | 1.0000 | 1.0000 |       |              |
| 15 DPD53C |             | 1.0000 | 1.0000 |       |              |

PgDn

|                 |                              |
|-----------------|------------------------------|
| Cup 1 ID: DNMA5 | Cell down mode Ins to switch |
|-----------------|------------------------------|

RunProt: HGMET STL-PITTSBURGH METALS ANALYSIS  
 RunFold: 1106HGA Seq: 0 Batch:  
 Prnt: R/T On Pump: Off  
 Rev: 4.2 07:54:06 06 Nov 2000 Xmit: Off Gas: LPM  
 State: Idle User: WAH A/S: On

AUTOSAMPLER: Rack Edit rack: RACK2 PgUp

| cup ID    | Extended id | Weight | Volume | Macro | check macros |
|-----------|-------------|--------|--------|-------|--------------|
| 16 DNMHA  |             | 1.0000 | 1.0000 |       |              |
| 17 DNMHAS |             | 1.0000 | 1.0000 |       |              |
| 18 DNMHAD |             | 1.0000 | 1.0000 |       |              |
| 19 DNRM6  |             | 1.0000 | 1.0000 |       |              |
| 20 CCV5-6 |             | 1.0000 | 1.0000 |       |              |
| 21 CCB6   |             | 1.0000 | 1.0000 |       |              |
| 22 DNXCP  |             | 1.0000 | 1.0000 |       |              |
| 23 DNX4D  |             | 1.0000 | 1.0000 |       |              |
| 24 DPD36B |             | 1.0000 | 1.0000 |       |              |
| 25 DPD36C |             | 1.0000 | 1.0000 |       |              |
| 26 DPD36L |             | 1.0000 | 1.0000 |       |              |
| 27 DM60M  |             | 1.0000 | 1.0000 |       |              |
| 28 DNN32  |             | 1.0000 | 1.0000 |       |              |
| 29 CCV5-7 |             | 1.0000 | 1.0000 |       |              |
| 30 CCB7   |             | 1.0000 | 1.0000 |       |              |

PgDn

Cup 16 ID: DNMHA

Cell down mode Ins to switch

# TCLP (N<sup>o</sup> 1311)



STL Pittsburgh  
450 William Pitt Way  
Pittsburgh, PA 15238  
412-820-8380

|                                     |                          |                        |                                  |                                            |                           |                          |
|-------------------------------------|--------------------------|------------------------|----------------------------------|--------------------------------------------|---------------------------|--------------------------|
| Analyst<br><i>Kenneth M. Murphy</i> | Room/Temp<br><i>2402</i> | Date<br><i>11-2-00</i> | Client Codes                     | Solution # 1 - <i>Log Book # 004997-12</i> | Probe<br><i>SW60516ST</i> | Balance<br><i>248.17</i> |
| Lot # <i>004997-12</i>              |                          |                        | Solution # 2 - <i>Log Book #</i> |                                            |                           |                          |

| Fluid Determination             |         |          |          |                        | TCLP Extraction     |                 |            |                      |                         |                                                |             |          |
|---------------------------------|---------|----------|----------|------------------------|---------------------|-----------------|------------|----------------------|-------------------------|------------------------------------------------|-------------|----------|
| Sample ID                       | Wgt/Vol | Init. pH | Final pH | Extract Fluid #1 or #2 | Sample ID           | Wgt (g) Wet/Dry | Fluid Vol. | Vessel glass/plastic | Final pH after Tumbling | Conc. HNO <sub>3</sub> to Acidity (for Metals) |             |          |
| 1 DNP46                         | 500g    | 1.65     | 1.54     | Sh #1                  | PR-TCLP             | ↓               | 2000ml     | Glass                | 4.75                    | 5.21                                           |             |          |
| 2 DNP46                         | ↓       | 7.55     | 1.53     | ↓                      | DNP46               | 100.0g          | ↓          | ↓                    | 4.80                    | 6.21                                           |             |          |
| 3 DNP46                         | ↓       | 7.80     | 1.52     | ↓                      | DNP46               | ↓               | ↓          | ↓                    | 4.90                    | ↓                                              |             |          |
| 4 DNP46                         | ↓       | 14.07    | 1.80     | ↓                      | DNP46               | ↓               | ↓          | ↓                    | 4.88                    | ↓                                              |             |          |
| 5 DNP46                         | ↓       | 14.73    | 2.24     | ↓                      | DNP46               | ↓               | ↓          | ↓                    | 4.86                    | ↓                                              |             |          |
| 6 DNP46                         | ↓       | 9.84     | 1.45     | ↓                      | DNP46               | ↓               | ↓          | ↓                    | 4.84                    | ↓                                              |             |          |
| 7 DNP46                         | ↓       | 10.22    | 1.50     | ↓                      | DNP46               | ↓               | ↓          | ↓                    | 4.84                    | ↓                                              |             |          |
| 8 DNP46                         | ↓       | 13.49    | 1.78     | ↓                      | DNP46               | ↓               | ↓          | ↓                    | 4.84                    | ↓                                              |             |          |
| 9. _____                        | _____   | _____    | _____    | _____                  | DNP46               | ↓               | ↓          | ↓                    | 4.84                    | ↓                                              |             |          |
| 10 _____                        | _____   | _____    | _____    | _____                  | DNP46               | ↓               | ↓          | ↓                    | 4.84                    | ↓                                              |             |          |
| 11 _____                        | _____   | _____    | _____    | _____                  | DNP46               | ↓               | ↓          | ↓                    | 4.84                    | ↓                                              |             |          |
| 12 _____                        | _____   | _____    | _____    | _____                  | DNP46               | ↓               | ↓          | ↓                    | 4.84                    | ↓                                              |             |          |
| 13. _____                       | _____   | _____    | _____    | _____                  | DNP46               | ↓               | ↓          | ↓                    | 4.84                    | ↓                                              |             |          |
| 14 _____                        | _____   | _____    | _____    | _____                  | DNP46               | ↓               | ↓          | ↓                    | 4.84                    | ↓                                              |             |          |
| 15 _____                        | _____   | _____    | _____    | _____                  | DNP46               | ↓               | ↓          | ↓                    | 4.84                    | ↓                                              |             |          |
| Extract(s)                      |         |          |          |                        | Extract(s) Received |                 |            |                      |                         | Extract(s) Retained/Used                       |             |          |
| (Record line number from above) |         |          |          |                        | Date                | Time            | Analyst    | Location             | Date                    | Time                                           | What's Left | Location |
| All above                       |         |          |          |                        | 11-3-00             | 1300            | J. Murphy  | W. 24                | 11-3-00                 | 1330                                           | W. 24       | 3015     |
|                                 |         |          |          |                        |                     |                 |            | M.D.                 |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
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|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
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|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             |          |
|                                 |         |          |          |                        |                     |                 |            |                      |                         |                                                |             | </       |

| Extract(s)                      |      |      |           | Extract(s) Received |         |      |           | Extract(s) Retungished |      |      |         |
|---------------------------------|------|------|-----------|---------------------|---------|------|-----------|------------------------|------|------|---------|
| (Record line number from above) | Date | Time | Analyst   | Location            | Date    | Time | Analyst   | Location               | Date | Time | Analyst |
| 11-3-00                         | 1200 |      | J. Murphy | M.D.                | 11-3-00 | 1330 | J. Murphy | 3015                   |      |      |         |

**Metals Preparation Log**  
**Logbook ID: MT1**

Logbook ID: MTT

674 859

[illegible]



098 429

## Hg Digestion Log

Quanterra Incorporated  
450 William Pitt Way  
Pittsburgh, Pennsylvania 15238  
412/826-5477 FAX 412/826-5571



QUA-4169

Pipet # H31609

Serial Number

032

Log Book Number

96-MT-578

Start Time

07:00-07:05

| Sample ID                       | Date Rec'd | Prep Date | Prepared By         | WVVol    | Sample Type | Run Date    | Comments                           |
|---------------------------------|------------|-----------|---------------------|----------|-------------|-------------|------------------------------------|
| 1. STD0                         | N/A        | 11-6-00   | N/A                 | 100ml    | WATER       | 11-6-00     | N/A                                |
| 2. STD1                         |            |           |                     |          |             |             | 0057-138-15                        |
| 3. STD2                         |            |           |                     |          |             |             | 0057-135-1                         |
| 4. STD3                         |            |           |                     |          |             |             | 0057-135-2                         |
| 5. STD4                         |            |           |                     |          |             |             | 0057-135-3                         |
| 6. STD5                         |            |           |                     |          |             |             | 0057-135-4                         |
| 7. ICV                          |            |           |                     |          |             |             | 0057-135-5                         |
| 8. ICR                          |            |           |                     |          |             |             | N/A                                |
| 9. CRA                          |            |           |                     |          |             |             | 0057-139-6                         |
| 10. CCV                         |            |           |                     |          |             |             | 0057-135-7                         |
| 11. CCB                         |            |           |                     |          |             |             | N/A                                |
| 12. DDB32BT                     |            |           |                     |          |             |             | N/A                                |
| 13. DDB32CT                     |            |           |                     |          |             |             | 0057-135-8                         |
| 14. DDBMLBT                     |            |           |                     |          |             |             | N/A                                |
| 15. DDBXGT                      | 10-26-00   |           |                     |          |             |             | N/A                                |
| 16. DDBXRT                      |            |           |                     |          |             |             | N/A                                |
| 17. DDBPGT                      | 10-31-00   |           |                     |          |             |             | N/A                                |
| 18. DDBPGST                     |            |           |                     |          |             |             | +5ml 0057-138-13                   |
| 19. DDBPGBT                     |            |           |                     |          |             |             | +5ml 0057-138-13                   |
| 20. DDBQST                      |            |           |                     |          |             |             | N/A                                |
| 21. DDBQKT                      |            |           |                     |          |             |             | N/A                                |
| 22. DDB34BT                     | N/A        |           |                     |          |             |             | N/A                                |
| 23. DDB34CT                     |            |           |                     |          |             |             | 0057-135-9                         |
| 24. DDBLEBT                     |            |           |                     |          |             |             | N/A                                |
| 25. DDBLEST                     | 10-31-00   |           |                     |          |             |             | N/A                                |
| Reagents                        |            | Vol (ml)  |                     |          |             | Ref. Number | Method                             |
| HNO3                            | 2.5ml      |           |                     |          |             | 6423 T09A05 | 74708/ILM040 AUTOCALVE 15PSI 120°C |
| H2SO4                           | 5.0ml      |           |                     |          |             | 5557 T02A12 | SNCL2 = 0057-135-16                |
| KMNO4                           | 15.0ml     |           |                     |          |             | 0057-133-15 | NAL-NH2OH = 0057-133-14            |
| K2S2O4                          | 8.0ml      |           |                     |          |             | 0057-136-1  | WAT 11-6-00                        |
| Extract(s)                      |            |           | Extract(s) Received |          |             |             | Extract(s) Relinquished            |
| (Record line number from above) | Date       | Time      | Analyst             | Location | Date        | Time        | Analyst                            |
|                                 |            |           | WAT 11-6-00         |          |             |             |                                    |

**Quanterra**

**Environmental Services**

|               |     |                 |           |            |               |
|---------------|-----|-----------------|-----------|------------|---------------|
| Serial Number | 033 | Log Book Number | 96-MT-578 | Start Time | 07:10 → 07:20 |
|---------------|-----|-----------------|-----------|------------|---------------|

| Sample ID                       | Date Rec'd | Prep Date | Prepared By         | WVVol       | Sample Type             | Run Date | Comments                             |
|---------------------------------|------------|-----------|---------------------|-------------|-------------------------|----------|--------------------------------------|
| 1. DN30EST                      | 10-31-00   | 11-6-00   | WAH                 | 12ml        | WATER                   | 11-6-00  | +5ml 0057-138-13                     |
| 2. DN30EOT                      |            |           |                     |             |                         |          | N/A                                  |
| 3. DN30CT                       |            |           |                     |             |                         |          |                                      |
| 4. DN30KT                       |            |           |                     |             |                         |          |                                      |
| 5. DN30MT                       |            |           |                     |             |                         |          |                                      |
| 6. DN30PT                       |            |           |                     |             |                         |          |                                      |
| 7. DN30TT                       |            |           |                     |             |                         |          |                                      |
| 8. DN30OT                       |            |           |                     |             |                         |          |                                      |
| 9. DN30IT                       |            |           |                     |             |                         |          |                                      |
| 10. DN9GAT                      | 11-2-00    |           |                     |             |                         |          |                                      |
| 11. DN9GBT                      |            |           |                     |             |                         |          |                                      |
| 12. DN9GHT                      |            |           |                     |             |                         |          |                                      |
| 13. DN9GJT                      |            |           |                     |             |                         |          |                                      |
| 14. DN9GKT                      |            |           |                     |             |                         |          |                                      |
| 15. DN9GLT                      |            |           |                     |             |                         |          |                                      |
| 16. DN9GMT                      |            |           |                     |             |                         |          |                                      |
| 17. DN9GNT                      |            |           |                     |             |                         |          |                                      |
| 18. DBD5WB                      | N/A        |           |                     |             |                         |          |                                      |
| 19. DPDSWC                      |            |           |                     |             |                         |          | 0057-138-13<br>WAH 11-6-00           |
| 20. DMMAS                       | 10-24-00   |           |                     |             |                         |          | N/A                                  |
| 21. DMMAS5                      |            |           |                     |             |                         |          | +1ml 0057-138-13                     |
| 22. DMMASD                      |            |           |                     |             |                         |          | +1ml 0057-138-13                     |
| 23. DMMAS8                      |            |           |                     |             |                         |          | N/A                                  |
| 24. DMKCA                       |            |           |                     |             |                         |          |                                      |
| 25. DPD5IB                      | N/A        |           |                     |             |                         |          |                                      |
| Reagents                        |            | Vol (mL)  |                     |             | Ref. Number             |          | Method                               |
| HNO <sub>3</sub>                | 2.5 ml     |           |                     |             | MILLICKRODT 6623 TQPAOS |          | 7470A/FILMOLYO AUTOCLAVE 15PSI 120°C |
| H <sub>2</sub> SO <sub>4</sub>  | 5.0 ml     |           |                     |             | ↓ 5557 TOAIRA           |          | SINCE = 0057-135-16                  |
| KIMNO <sub>4</sub>              | 15.0 ml    |           |                     |             | 0057-133-15             |          | MALE-AHAOK = 0057-133-14             |
| KSSO <sub>4</sub>               | 8.0 ml     |           |                     |             | 0057-136-1              |          | WAH 11-6-00                          |
| Extract(s)                      |            |           | Extract(s) Received |             |                         |          | Extract(s) Relinquished              |
| (Record line number from above) | Date       | Time      | Analyst             | Location    | Date                    | Time     | Analyst                              |
|                                 |            |           |                     | WAH 11-6-00 |                         |          |                                      |

**Quantera**

**Environmental Services**

|               |     |                 |           |            |               |
|---------------|-----|-----------------|-----------|------------|---------------|
| Serial Number | 034 | Log Book Number | 96-MT-578 | Start Time | 07:10 → 07:23 |
|---------------|-----|-----------------|-----------|------------|---------------|

STL Pittsburgh

REQUESTED BY: RIZZOC

METHOD: QO Inductively Coupled Plasma (6010B)

| <u>STORAGE LOCATION</u> | <u>WORK ORDER #</u> | <u>PICKED</u><br><u>CNTR#</u> | <u>CONTROL #</u> | <u>CLIENT #</u> | <u>ANALYSIS</u> | <u>LOTID</u> | <u>SMP#</u> | <u>SFX</u> | <u>MATRIX</u><br><u>DESCRIPTION</u> | <u>QTY</u><br><u>RCVD</u> | <u>QTY</u><br><u>REQD</u> |
|-------------------------|---------------------|-------------------------------|------------------|-----------------|-----------------|--------------|-------------|------------|-------------------------------------|---------------------------|---------------------------|
| 10D                     | DNRXG               | _____                         | 280407           | 016512          | I-34-QO         | C0J260114    | 007         |            | WATER                               | 0                         | 1                         |
| 10D                     | DNRXR               | _____                         | 280408           | 016512          | A-34-QO         | C0J260114    | 013         |            | SOLID                               | 0                         | 1                         |
| 12D CLP1                | DN4P6               | _____                         | 280413           | 399411          | A-34-QO         | C0J310200    | 001         |            | SOLID                               | 0                         | 3                         |
| 12D CLP1                | DN4QJ               | _____                         | 280414           | 399411          | A-34-QO         | C0J310200    | 002         |            | SOLID                               | 0                         | 3                         |
| 12D CLP1                | DN4QK               | _____                         | 280415           | 399411          | A-34-QO         | C0J310200    | 003         |            | SOLID                               | 0                         | 3                         |
| 12E                     | DN6N4               | _____                         | 280409           | 413315          | A-34-QO         | C0K010182    | 001         |            | SOLID                               | 0                         | 1                         |
| 12E                     | DN6N6               | _____                         | 280410           | 413315          | A-34-QO         | C0K010182    | 002         |            | SOLID                               | 0                         | 1                         |
| 12E                     | DN6N7               | _____                         | 280411           | 413315          | A-34-QO         | C0K010182    | 003         |            | SOLID                               | 0                         | 1                         |
| 12E                     | DN6N8               | _____                         | 280412           | 413315          | A-34-QO         | C0K010182    | 004         |            | SOLID                               | 0                         | 1                         |

RELINQUISHED BY

RECEIVED BY

DATE/TIME

|                               |                               |                     |
|-------------------------------|-------------------------------|---------------------|
| <u>A. C.</u>                  | <u>Cynthia A. [Signature]</u> | <u>11-4-00 0930</u> |
| <u>Cynthia A. [Signature]</u> | <u>A. C.</u>                  | <u>11-4-00 1200</u> |
| _____                         | _____                         | _____               |
| _____                         | _____                         | _____               |
| _____                         | _____                         | _____               |
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| _____                         | _____                         | _____               |
| _____                         | _____                         | _____               |

674 864

PSR024 11/02/00 11:45:31 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY: MURPHYJ

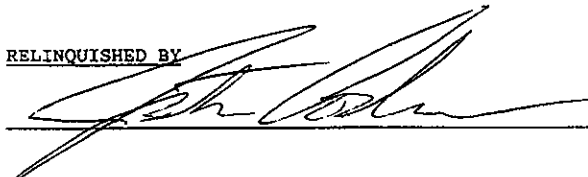
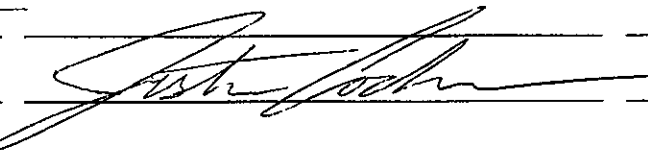
METHOD: QO Inductively Coupled Plasma (6010B)

| <u>STORAGE LOCATION</u> | <u>WORK ORDER #</u> | <u>PICKED</u><br><u>CNTR#</u> | <u>CONTROL #</u> | <u>CLIENT #</u> | <u>ANALYSIS</u> | <u>LOTID</u> | <u>SMP#</u> | <u>SFX</u> | <u>MATRIX</u><br><u>DESCRIPTION</u> | <u>QTY</u>  | <u>QTY</u>  |
|-------------------------|---------------------|-------------------------------|------------------|-----------------|-----------------|--------------|-------------|------------|-------------------------------------|-------------|-------------|
|                         |                     |                               |                  |                 |                 |              |             |            |                                     | <u>RCVD</u> | <u>REQD</u> |
| 10D                     | DNRXG               | ___                           | 279793           | 016512          | I-34-QO         | C0J260114    | 007         |            | WATER                               | 0           | 1 1         |
| 10D                     | DNRXR               | ___                           | 279794           | 016512          | A-34-QO         | C0J260114    | 013         |            | SOLID                               | 0           | 1 1         |

RELINQUISHED BY

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DATE/TIME

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\*\*\*\*\* END OF REPORT \*\*\*\*\*

REQUESTED BY: MURPHYJ

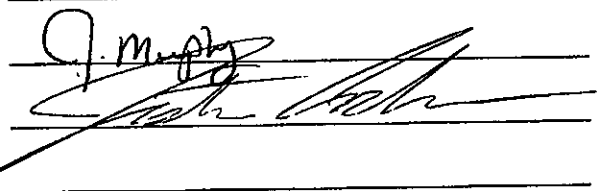
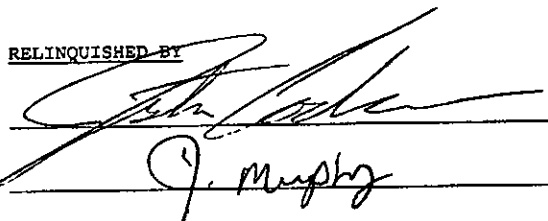
METHOD: QO Inductively Coupled Plasma (6010B)

| <u>STORAGE LOCATION</u> | <u>WORK ORDER #</u> | <u>PICKED</u><br><u>CNTR#</u> | <u>CONTROL #</u> | <u>CLIENT #</u> | <u>ANALYSIS</u> | <u>LOTID</u> | <u>SMP#</u> | <u>SFX</u> | <u>MATRIX</u><br><u>DESCRIPTION</u> | <u>QTY</u><br><u>RCVD</u> | <u>QTY</u><br><u>REQD</u> |
|-------------------------|---------------------|-------------------------------|------------------|-----------------|-----------------|--------------|-------------|------------|-------------------------------------|---------------------------|---------------------------|
| 12D CLP1                | DN4P6               | — — —                         | 279790           | 399411          | A-34-QO         | C0J310200    | 001         |            | SOLID                               | 0                         | 3 1                       |
| 12D CLP1                | DN4QJ               | — — —                         | 279791           | 399411          | A-34-QO         | C0J310200    | 002         |            | SOLID                               | 0                         | 3 1                       |
| 12D CLP1                | DN4QK               | — — —                         | 279792           | 399411          | A-34-QO         | C0J310200    | 003         |            | SOLID                               | 0                         | 3 1                       |
| 12E                     | DN6N4               | — — —                         | 279786           | 413315          | A-34-QO         | C0K010182    | 001         |            | SOLID                               | 0                         | 1 1                       |
| 12E                     | DN6N6               | — — —                         | 279787           | 413315          | A-34-QO         | C0K010182    | 002         |            | SOLID                               | 0                         | 1 1                       |
| 12E                     | DN6N7               | — — —                         | 279788           | 413315          | A-34-QO         | C0K010182    | 003         |            | SOLID                               | 0                         | 1 1                       |
| 12E                     | DN6N8               | — — —                         | 279789           | 413315          | A-34-QO         | C0K010182    | 004         |            | SOLID                               | 0                         | 1 1                       |

RELINQUISHED BY

RECEIVED BY

DATE/TIME



11-2-00 1300

11-2-00 16:00

\*\*\*\*\* END OF REPORT \*\*\*\*\*

REQUESTED BY: HOYLEM

674 866

METHOD: 08 Mercury (7470A, Cold Vapor) - Liquid

| <u>STORAGE LOCATION</u> | <u>WORK ORDER #</u> | <u>PICKED</u><br><u>CNTR#</u> | <u>CONTROL #</u> | <u>CLIENT #</u> | <u>ANALYSIS</u> | <u>LOTID</u> | <u>SMP#</u> | <u>SFX</u> | <u>MATRIX</u><br><u>DESCRIPTION</u> | <u>QTY</u><br><u>RCVD</u> | <u>QTY</u><br><u>REQD</u> |
|-------------------------|---------------------|-------------------------------|------------------|-----------------|-----------------|--------------|-------------|------------|-------------------------------------|---------------------------|---------------------------|
| 10D                     | DNRXG               | ___                           | 280731           | 016512          | I-0M-08         | COJ260114    | 007         |            | WATER                               | 0                         | 1                         |
| 10D                     | DNRXR               | ___                           | 280732           | 016512          | A-0M-08         | COJ260114    | 013         |            | SOLID                               | 0                         | 1                         |
| 12D CLP1                | DN4P6               | ___                           | 280733           | 399411          | A-0M-08         | COJ310200    | 001         |            | SOLID                               | 0                         | 3                         |
| 12D CLP1                | DN4QJ               | ___                           | 280734           | 399411          | A-0M-08         | COJ310200    | 002         |            | SOLID                               | 0                         | 3                         |
| 12D CLP1                | DN4QK               | ___                           | 280735           | 399411          | A-0M-08         | COJ310200    | 003         |            | SOLID                               | 0                         | 3                         |

DPAmLB

TCLP  
LEACHATE

RELINQUISHED BYRECEIVED BYDATE/TIME

|                        |                        |                |              |
|------------------------|------------------------|----------------|--------------|
| <u>William A Hoyle</u> | <u>William A Hoyle</u> | <u>11-6-00</u> | <u>05:05</u> |
| <u>William A Hoyle</u> | <u>William A Hoyle</u> | <u>11-6-00</u> | <u>06:10</u> |
| _____                  | _____                  | _____          | _____        |
| _____                  | _____                  | _____          | _____        |
| _____                  | _____                  | _____          | _____        |
| _____                  | _____                  | _____          | _____        |
| _____                  | _____                  | _____          | _____        |
| _____                  | _____                  | _____          | _____        |

\*\*\*\*\* END OF REPORT \*\*\*\*\*

54

55

674 867

# GENERAL CHEMISTRY DATA



674 868

## UXB INTERNATIONAL

Client Sample ID: DF/24-A/0304/CVS/008

## General Chemistry

Lot-Sample #...: C0J310200-001    Work Order #....: DN4P6    Matrix.....: SOLID  
 Date Sampled...: 10/30/00    Date Received...: 10/31/00  
 % Moisture.....: 16

| PARAMETER        | RESULT | RL                 | UNITS    | METHOD                 | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|------------------|--------|--------------------|----------|------------------------|-------------------------------|-----------------|
| pH               | 4.6    |                    | No Units | SW846 9045C            | 10/31/00                      | 0305422         |
|                  |        | Dilution Factor: 1 |          | MS Run #.....: 0305232 |                               |                 |
| Ignitability     | NO     | --                 | No Units | SW846 SECTION 7.1      | 11/01/00                      | 0306114         |
|                  |        | Dilution Factor: 1 |          | MS Run #.....: 0306017 |                               |                 |
| Percent Solids   | 84.1   |                    | %        | MCAWW 160.3 MOD        | 11/01-11/02/00                | 0306187         |
|                  |        | Dilution Factor: 1 |          | MS Run #.....: 0307054 |                               |                 |
| Reactive Cyanide | ND     | 200                | mg/kg    | SW846 7.3.3            | 11/06-11/07/00                | 0312296         |
|                  |        | Dilution Factor: 1 |          | MS Run #... : 0312124  |                               |                 |
| Reactive Sulfide | ND     | 200                | mg/kg    | SW846 7.3.4            | 11/06/00                      | 0311442         |
|                  |        | Dilution Factor: 1 |          | MS Run #.....: 0312010 |                               |                 |

674 869

## UXB INTERNATIONAL

Client Sample ID: DF/24-A/0304/CVS/010

## General Chemistry

Lot-Sample #....: C0J310200-002      Work Order #....: DN4QJ      Matrix.....: SOLID  
 Date Sampled....: 10/30/00      Date Received...: 10/31/00  
 % Moisture.....: 13

| PARAMETER        | RESULT | RL  | UNITS              | METHOD                 | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|------------------|--------|-----|--------------------|------------------------|-------------------------------|-----------------|
| pH               | 6.7    |     | No Units           | SW846 9045C            | 10/31/00                      | 0305422         |
|                  |        |     | Dilution Factor: 1 | MS Run #.... : 0305232 |                               |                 |
| Ignitability     | NO     | --  | No Units           | SW846 SECTION 7.1      | 11/01/00                      | 0306114         |
|                  |        |     | Dilution Factor: 1 | MS Run #.....: 0306017 |                               |                 |
| Percent Solids   | 87.5   |     | %                  | MCAWW 160.3 MOD        | 11/01-11/02/00                | 0306187         |
|                  |        |     | Dilution Factor: 1 | MS Run #.....: 0307054 |                               |                 |
| Reactive Cyanide | ND     | 200 | mg/kg              | SW846 7.3.3            | 11/06-11/07/00                | 0312296         |
|                  |        |     | Dilution Factor: 1 | MS Run #.....: 0312124 |                               |                 |
| Reactive Sulfide | ND     | 200 | mg/kg              | SW846 7.3.4            | 11/06/00                      | 0311442         |
|                  |        |     | Dilution Factor: 1 | MS Run #.....: 0312010 |                               |                 |

674 870

## UXB INTERNATIONAL

Client Sample ID: DF/24-A/0304/CVS/012

## General Chemistry

Lot-Sample #....: C0J310200-003      Work Order #....: DN4QK      Matrix.....: SOLID  
 Date Sampled....: 10/30/00      Date Received...: 10/31/00  
 % Moisture.....: 17

| PARAMETER        | RESULT | RL  | UNITS    | METHOD             | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|------------------|--------|-----|----------|--------------------|-------------------------------|-----------------|
| pH               | 6.9    |     | No Units | SW846 9045C        | 10/31/00                      | 0305422         |
|                  |        |     |          | Dilution Factor: 1 | MS Run #..... 0305232         |                 |
| Ignitability     | NO     | --  | No Units | SW846 SECTION 7.1  | 11/01/00                      | 0306114         |
|                  |        |     |          | Dilution Factor: 1 | MS Run #.... : 0306017        |                 |
| Percent Solids   | 83.4   |     | %        | MCAWW 160.3 MOD    | 11/01-11/02/00                | 0306187         |
|                  |        |     |          | Dilution Factor 1  | MS Run #..... : 0307054       |                 |
| Reactive Cyanide | ND     | 200 | mg/kg    | SW846 7.3.3        | 11/06-11/07/00                | 0312296         |
|                  |        |     |          | Dilution Factor: 1 | MS Run # .... : 0312124       |                 |
| Reactive Sulfide | ND     | 200 | mg/kg    | SW846 7.3.4        | 11/06/00                      | 0311442         |
|                  |        |     |          | Dilution Factor: 1 | MS Run #..... 0312010         |                 |

674 871

## METHOD BLANK REPORT

## General Chemistry

Client Lot #...: C0J310200

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u>                   | <u>PREPARATION-</u><br><u>ANALYSIS DATE</u> | <u>PREP</u><br><u>BATCH #</u> |
|------------------|---------------|----------------------------------|--------------|---------------------------------|---------------------------------------------|-------------------------------|
| Reactive Cyanide | ND            | Work Order #: DPF601AA<br>200    | mg/kg        | MB Lot-Sample #:<br>SW846 7.3.3 | A0K070000-296<br>11/06-11/07/00             | 0312296                       |
|                  |               | Dilution Factor: 1               |              |                                 |                                             |                               |
| Reactive Sulfide | ND            | Work Order #: DPE0D1AA<br>200    | mg/kg        | MB Lot-Sample #:<br>SW846 7.3.4 | A0K060000-442<br>11/06/00                   | 0311442                       |
|                  |               | Dilution Factor: 1               |              |                                 |                                             |                               |

NOTE(S) :

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

674 872

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C0J310200

Matrix.....: WATER

| PARAMETER        | RESULT | REPORTING<br>LIMIT            | UNITS | METHOD                          | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|------------------|--------|-------------------------------|-------|---------------------------------|-------------------------------|-----------------|
| Reactive Sulfide | ND     | Work Order #: DPE0D1AD<br>200 | mg/kg | MB Lot-Sample #:<br>SW846 7.3.4 | A0K060000-442<br>11/06/00     | 0311442         |
|                  |        | Dilution Factor 1             |       |                                 |                               |                 |

NOTE(S) :

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

674 873

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## General Chemistry

Client Lot #...: C0J310200

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> | <u>METHOD</u>                                               | <u>PREPARATION-<br/>ANALYSIS DATE</u>      | <u>PREP<br/>BATCH #</u> |
|------------------|-----------------------------|----------------------------|-------------------------------------------------------------|--------------------------------------------|-------------------------|
| pH               | 100                         | (85 - 115)                 | Work Order #: DN48E1AA<br>SW846 9045C<br>Dilution Factor: 1 | LCS Lot-Sample#: C0J310000-422<br>10/31/00 | 0305422                 |

**NOTE(S) :**

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

674 874

## SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

Client Lot #....: C0J310200

Work Order #....: DN4P6-SMP

Matrix.....: SOLID

DN4P6-DUP

Date Sampled...: 10/30/00

Date Received...: 10/31/00

% Moisture.....: 16

| PARAM          | RESULT | DUPLICATE<br>RESULT | UNITS | RPD  | RPD<br>LIMIT | METHOD                                            | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|----------------|--------|---------------------|-------|------|--------------|---------------------------------------------------|-------------------------------|-----------------|
| Percent Solids | 84.1   | 83.7                | %     | 0.47 | (0-20)       | SD Lot-Sample #: C0J310200-001<br>MCAWW 160.3 MOD | 11/01-11/02/00                | 0306187         |

Dilution Factor: 1

Prep Date.....: 0307054

Analysis Date. :

Prep Batch #....:

pH

4.6

4.8

No Units 4.3

(0-20)

SD Lot-Sample #: C0J310200-001

SW846 9045C

10/31/00

0305422

Dilution Factor: 1

Prep Date.....: 0305232

Analysis Date...

Prep Batch #....:

Ignitability

No Units 0

(0-0.0)

SD Lot-Sample #: C0J310200-001

SW846 SECTION 7.1 11/01/00

0306114

Dilution Factor: 1

Prep Date.....: 0306017

Analysis Date...

Prep Batch #....:

674 875

## SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

Client Lot #...: C0J310200

Work Order #...: DN508-SMP  
DN508-DUP

Matrix.....: WATER

Date Sampled...: 10/30/00

Date Received...: 10/31/00

| <u>PARAM</u>                                                       | <u>RESULT</u> | <u>DUPLICATE</u> | <u>UNITS</u> | <u>RPD</u> | <u>RPD</u>   | <u>METHOD</u>    | <u>PREPARATION-</u>  | <u>PREP</u>    |
|--------------------------------------------------------------------|---------------|------------------|--------------|------------|--------------|------------------|----------------------|----------------|
|                                                                    |               | <u>RESULT</u>    |              |            | <u>LIMIT</u> |                  | <u>ANALYSIS DATE</u> | <u>BATCH #</u> |
| Reactive Sulfide                                                   |               |                  |              |            |              | SD Lot-Sample #: | A0K010128-002        |                |
| ND                                                                 |               | ND               | mg/kg        | 64         | (0-20)       | SW846 7.3.4      | 11/06/00             | 0311442        |
| Dilution Factor: 1                                                 |               |                  |              |            |              |                  |                      |                |
| Prep Date .....: 0312010    Analysis Date...:    Prep Batch #....: |               |                  |              |            |              |                  |                      |                |



674 876

## SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

Client Lot #....: C0J310200

Work Order #....: DN51C-SMP  
DN51C-DUP

Matrix.....: SOLID

Date Sampled....: 10/30/00

Date Received...: 10/31/00

% Moisture.....: 100

| PARAM            | RESULT | DUPLICATE<br>RESULT | UNITS | RPD | RPD<br>LIMIT | METHOD                                        | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH #   |
|------------------|--------|---------------------|-------|-----|--------------|-----------------------------------------------|-------------------------------|-------------------|
| Reactive Cyanide | ND     | ND                  | mg/kg | 0.0 | (0-20)       | SD Lot-Sample #: A0K010128-003<br>SW846 7.3.3 | 11/06-11/07/00                | 0312296           |
|                  |        |                     |       |     |              | Dilution Factor 1                             |                               |                   |
|                  |        |                     |       |     |              | Prep Date.....: 0312124                       | Analysis Date...:             | Prep Batch #....: |
| Reactive Sulfide | ND     | ND                  | mg/kg | 200 | (0-20)       | SD Lot-Sample #: A0K010128-003<br>SW846 7.3.4 | 11/06/00                      | 0311442           |
|                  |        |                     |       |     |              | Dilution Factor 1                             |                               |                   |
|                  |        |                     |       |     |              | Prep Date.....: 0312010                       | Analysis Date...:             | Prep Batch #....: |

674 877

Analyst: BRANDY MUECHNIK  
Date: 10/31/00  
Start Time: 16:45

| Reading      | Buffer | Manf.<br>Lot No. | Rec'd          | Expire        |
|--------------|--------|------------------|----------------|---------------|
| <u>4.00</u>  | 4.0    | LABCHEM 9245-18  | <u>8/25/00</u> | <u>9/8/01</u> |
| <u>7.02</u>  | 7.0    | 0220-07          | <u>8/25/00</u> | <u>8/7/02</u> |
| <u>10.05</u> | 10.0   | ✓ 0047-16        | <u>5/19/00</u> | <u>3/8/01</u> |

Relative Percent Difference =  $4.26\%$

$$\frac{|X_1 - X_2|}{\left(\frac{X_1 + X_2}{2}\right)} \times 100$$

| Sample ID       | pH Solid | pH Reading |
|-----------------|----------|------------|
| LCS             |          | 6.97       |
| CoJ 310200 -001 |          | 4.59       |
| ↓ -001 DUP      |          | 4.79       |
| ↓ -002          |          | 6.72       |
| ✓ -003          |          | 6.89       |
| LCS             |          | 6.98       |

BM  
6/31/00

REQUESTED BY: MLECHICB

IOD: OZ pH (9045C) - Non-Aqueous

| <u>STORAGE LOCATION</u> | <u>WORK ORDER #</u> | <u>PICKED</u><br><u>CNTR#</u> | <u>CONTROL #</u> | <u>CLIENT #</u> | <u>ANALYSIS</u> | <u>LOTID</u> | <u>SMP#</u> | <u>SFX</u> | <u>MATRIX</u><br><u>DESCRIPTION</u> | <u>QTY</u><br><u>RCVD</u> | <u>QTY</u><br><u>REQD</u> |
|-------------------------|---------------------|-------------------------------|------------------|-----------------|-----------------|--------------|-------------|------------|-------------------------------------|---------------------------|---------------------------|
| 12D CLP1                | DN4P6-1-AQ          | — — —                         | 278952           | 399411          | A-88-OZ         | C0J310200    | 001         |            | SOLID                               | 3                         | 1                         |
| 12D CLP1                | DN4QJ-1-AQ          | — — —                         | 278953           | 399411          | A-88-OZ         | C0J310200    | 002         |            | SOLID                               | 3                         | 1                         |
| 12D CLP1                | DN4QK-1-AQ          | — — —                         | 278954           | 399411          | A-88-OZ         | C0J310200    | 003         |            | SOLID                               | 3                         | 1                         |

RELINQUISHED BY

RECEIVED BY

DATE/TIME

10/31/00 16:45

10/31/00 17:00

\*\*\*\*\* END OF REPORT \*\*\*\*\*

Ignitability  
Method Ignitability (Sw7.1.2)

STL Pittsburgh  
450 William Pitt Way  
Pittsburgh, PA 15238

674 879

|                                   |                      |
|-----------------------------------|----------------------|
| ANALYST: <u>ERIC L. WESOLOSKI</u> | DATE: <u>11-1-00</u> |
| BATCH: <u>0306114</u>             | TIME: <u>06:48</u>   |

| SAMPLE ID                        | RESULT    |
|----------------------------------|-----------|
| <u>605310200 -001</u>            | <u>NO</u> |
| <u>                  -001 Ap</u> | <u>NO</u> |
| <u>                  -002</u>    | <u>NO</u> |
| <u>                  -003</u>    | <u>NO</u> |
| <div>END<br/>11-1-00</div>       |           |
|                                  |           |
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|                                  |           |

Reviewed by [Signature] Date 11-1-00

WC-00-0060

Page 24 of 100

[Signature] 11/1/00

REQUESTED BY: MESOLOSE

674 880

METHOD: IQ Ignitability (SW7.1.2)

| STORAGE LOCATION | WORK ORDER # | PICKED<br>CNTR# | CONTROL # | CLIENT # | ANALYSIS | LOTID     | SMP# | SFX | MATRIX<br>DESCRIPTION | QTY  | QTY  |
|------------------|--------------|-----------------|-----------|----------|----------|-----------|------|-----|-----------------------|------|------|
|                  |              |                 |           |          |          |           |      |     |                       | RCVD | REQD |
| 12D CLP1         | DN4P6-1-AR   | — — —           | 278978    | 399411   | A-88-IQ  | COJ310200 | 001  |     | SOLID                 | 3    | 1    |
| 12D CLP1         | DN4QJ-1-AR   | — — —           | 278979    | 399411   | A-88-IQ  | COJ310200 | 002  |     | SOLID                 | 3    | 1    |
| 12D CLP1         | DN4QK-1-AR   | — — —           | 278980    | 399411   | A-88-IQ  | COJ310200 | 003  |     | SOLID                 | 3    | 1    |

RELINQUISHED BY

RECEIVED BY

DATE/TIME

*C. F. Warrick*  
*C. F. Warrick**C. F. Warrick*  
*C. F. Warrick**10/01/00 (06:45)*  
*11/01/00 (08:00)*

\*\*\*\*\* END OF REPORT \*\*\*\*\*

STL Pittsburgh  
TOTAL SOLIDS/PERCENT MOISTURE LOG SHEET

674 881

|                          |                          |                  |                          |                                           |
|--------------------------|--------------------------|------------------|--------------------------|-------------------------------------------|
| Lot No. <u>C0J310205</u> | Lot No. <u>C0J280169</u> | Lot No. _____    | Batch No. <u>0306181</u> | Analyst: <u>BRANDY MUECHICK</u>           |
| <u>C0J310200</u>         | <u>C0J310225</u>         | _____            | <u>0306187</u>           | In: Date <u>11/1/00</u> Time <u>10:45</u> |
| <u>C0J310228</u>         | <u>C0J260170</u>         | <u>C0J280161</u> | <u>0306308</u>           | Out: Date <u>11/2/00</u> Time <u>0530</u> |
| <u>C0J280132</u>         | _____                    | _____            | <u>0306309</u>           | Balance ID #: <u>108476</u>               |
|                          |                          |                  |                          | Oven Temp: <u>103°C±2°C</u>               |

| SAMPLE ID     | TARE NO. | TARE | SAMPLE + TARE | DRIED SAMPLE + TARE | SAMPLE ID        | TARE NO. | TARE | SAMPLE + TARE | DRIED SAMPLE + TARE |
|---------------|----------|------|---------------|---------------------|------------------|----------|------|---------------|---------------------|
| C0J310205-001 | 96       | 1.03 | 6.08          | 5.74                | C0J310228-005DUP | 66       | 1.03 | 6.09          | 5.42                |
| -002          | 3        | 1.09 | 6.15          | 5.83                | -006             | 51       | 1.06 | 6.11          | 4.88                |
| -003          | 88       | 1.06 | 6.08          | 5.57                | -007             | 60       | 1.04 | 6.09          | 4.87                |
| -004          | 99       | 1.03 | 6.09          | 4.70                | -008             | 94       | 1.06 | 6.05          | 5.28                |
| -006          | 91       | 1.06 | 6.05          | 5.40                | -009             | 52       | 1.02 | 6.04          | 5.53                |
| -007          | 82       | 1.08 | 6.10          | 5.74                | -011             | 105      | 1.06 | 6.07          | 5.42                |
| -008          | 42       | 1.04 | 6.06          | 5.04                | -012             | 95       | 1.06 | 6.12          | 5.43                |
| -009          | 20       | 1.07 | 6.08          | 5.15                | C0J260170-001    | 83       | 1.05 | 6.08          | 4.77                |
| ✓ -011        | 55       | 1.07 | 6.07          | 5.33                | C0J280161-002    | 18       | 1.07 | 6.07          | 5.61                |
| C0J280169-001 | 32       | 1.04 | 6.05          | 5.31                | ✓ -003           | 65       | 1.09 | 6.12          | 5.76                |
| -002          | 28       | 1.05 | 6.05          | 5.09                | C0J280132-001    | 92       | 1.07 | 6.08          | 5.19                |
| -003          | 63       | 1.06 | 6.12          | 5.25                | -001DUP          | 35       | 1.09 | 6.13          | 5.15                |
| -004          | 85       | 1.10 | 6.14          | 5.32                | -002             | 112      | 1.03 | 6.03          | 4.99                |
| -005          | 101      | 1.07 | 6.07          | 5.35                | -003             | 40       | 1.06 | 6.08          | 4.24                |
| -006          | 106      | 1.04 | 6.07          | 5.37                | -004             | 43       | 1.05 | 6.03          | 3.51                |
| -007          | 2        | 1.08 | 6.09          | 4.82                | -005             | 97       | 1.06 | 6.14          | 3.36                |
| -007DUP       | 89       | 1.06 | 6.13          | 4.45                | -006             | 11       | 1.06 | 6.08          | 5.52                |
| -009          | 48       | 1.06 | 6.15          | 5.12                | -007             | 98       | 1.04 | 6.06          | 5.48                |
| ✓ -010        | 109      | 1.03 | 6.03          | 5.03                | -008             | 103      | 1.08 | 6.08          | 3.73                |
| C0J310200-001 | 44       | 1.02 | 6.10          | 5.29                | -009             | 47       | 1.04 | 6.10          | 3.86                |
| -001DUP       | 39       | 1.05 | 6.07          | 5.25                | -010             | 218      | 1.13 | 6.11          | 5.47                |
| -002          | 9        | 1.06 | 6.09          | 5.46                | ✓ -011           | 90       | 1.04 | 6.08          | 5.42                |
| ✓ -003        | 45       | 1.05 | 6.10          | 5.26                |                  |          |      |               |                     |
| C0J310225-001 | 44       | 1.04 | 6.03          | 5.08                |                  |          |      |               |                     |
| -002          | 21       | 1.04 | 6.09          | 5.53                |                  |          |      |               |                     |
| -003          | 80       | 1.06 | 6.06          | 5.37                |                  |          |      |               |                     |
| -004          | 33       | 1.04 | 6.10          | 5.08                |                  |          |      |               |                     |
| -005          | 15       | 1.03 | 6.07          | 4.96                |                  |          |      |               |                     |
| -006          | 62       | 1.06 | 6.05          | 5.12                |                  |          |      |               |                     |
| -007          | 115      | 1.10 | 6.08          | 5.05                |                  |          |      |               |                     |
| -008          | 69       | 1.06 | 6.12          | 4.82                |                  |          |      |               |                     |
| ✓ -009        | 61       | 1.07 | 6.11          | 5.49                |                  |          |      |               |                     |
| C0J310228-001 | 76       | 1.05 | 6.08          | 5.43                |                  |          |      |               |                     |
| -002          | 4        | 1.05 | 6.07          | 5.32                |                  |          |      |               |                     |
| -003          | 25       | 1.05 | 6.10          | 5.11                |                  |          |      |               |                     |
| ✓ -005        | 12       | 1.04 | 6.04          | 5.45                |                  |          |      |               |                     |

674 882

## STL - Pittsburgh WATER CONTENT SHEET

|           |         |         |
|-----------|---------|---------|
| SHEET NUM | 0011001 |         |
| TESTED    | BM      | 11/1/00 |
| CHECKED   | Cu      | 11-2-00 |

|         |                     |
|---------|---------------------|
| CREATED | 11/1/00 11:12:45 AM |
| REVISED | 11/1/00 2:19:27 PM  |

## COMMENTS

C0J310205,C0J280169,C0J310200,C0J310225,C0J310228,C0J260170,C0J280161,C0J280132

| CLIENT SAMPLE<br>IDENTIFICATION | LAB SAMP<br>IDENT | TARE<br>NO | WEIGHT<br>TARE | WEIGHT<br>TARE +<br>WET SMP | WEIGHT<br>TARE +<br>DRY SAMP | TIME<br>IN | TIME<br>OUT | WEIGHT<br>WATER | WATER<br>CONTENT<br>CALC. | SOLIDS<br>CONTENT<br>CALC. |
|---------------------------------|-------------------|------------|----------------|-----------------------------|------------------------------|------------|-------------|-----------------|---------------------------|----------------------------|
| C0J310205                       | 001               | 96         | 1.03           | 6.08                        | 5.74                         | 10:45      | 9:00        | 0.34            | 6.733                     | 93.267                     |
| C0J310205                       | 002               | 3          | 1.09           | 6.15                        | 5.83                         | 10:45      | 9:00        | 0.32            | 6.324                     | 93.676                     |
| C0J310205                       | 003               | 88         | 1.06           | 6.08                        | 5.57                         | 10:45      | 9:00        | 0.51            | 10.159                    | 89.841                     |
| C0J310205                       | 004               | 99         | 1.03           | 6.09                        | 4.7                          | 10:45      | 9:00        | 1.39            | 27.47                     | 72.53                      |
| C0J310205                       | 006               | 91         | 1.06           | 6.05                        | 5.4                          | 10:45      | 9:00        | 0.65            | 13.028                    | 86.974                     |
| C0J310205                       | 007               | 82         | 1.08           | 6.1                         | 5.74                         | 10:45      | 9:00        | 0.36            | 7.171                     | 92.829                     |
| C0J310205                       | 008               | 42         | 1.04           | 6.06                        | 5.04                         | 10:45      | 9:00        | 1.02            | 20.319                    | 79.681                     |
| C0J310205                       | 009               | 20         | 1.07           | 6.08                        | 5.15                         | 10:45      | 9:00        | 0.93            | 18.563                    | 81.437                     |
| C0J310205                       | 011               | 55         | 1.07           | 6.07                        | 5.33                         | 10:45      | 9:00        | 0.74            | 14.8                      | 85.2                       |
| C0J280169                       | 001               | 32         | 1.04           | 6.05                        | 5.31                         | 10:45      | 9:00        | 0.74            | 14.77                     | 85.23                      |
| C0J280169                       | 002               | 28         | 1.05           | 6.05                        | 5.09                         | 10:45      | 9:00        | 0.96            | 19.2                      | 80.8                       |
| C0J280169                       | 003               | 63         | 1.06           | 6.12                        | 5.25                         | 10:45      | 9:00        | 0.87            | 17.194                    | 82.806                     |
| C0J280169                       | 004               | 85         | 1.1            | 6.14                        | 5.32                         | 10:45      | 9:00        | 0.82            | 16.27                     | 83.73                      |
| C0J280169                       | 005               | 101        | 1.07           | 6.07                        | 5.35                         | 10:45      | 9:00        | 0.72            | 14.4                      | 85.6                       |
| C0J280169                       | 006               | 106        | 1.04           | 6.07                        | 5.37                         | 10:45      | 9:00        | 0.7             | 13.917                    | 86.083                     |
| C0J280169                       | 007               | 2          | 1.08           | 6.09                        | 4.82                         | 10:45      | 9:00        | 1.27            | 25.349                    | 74.651                     |
| C0J280169                       | 007/DUP           | 89         | 1.06           | 6.13                        | 4.45                         | 10:45      | 9:00        | 1.68            | 33.136                    | 66.864                     |
| 280169                          | 009               | 48         | 1.06           | 6.15                        | 5.12                         | 10:45      | 9:00        | 1.03            | 20.236                    | 79.764                     |

674 883

## STL - Pittsburgh WATER CONTENT SHEET

|          |         |         |
|----------|---------|---------|
| HEET NUM | 0011001 |         |
| TESTED   | BM      | 11/1/00 |
| CHECKED  | CLL     | 11-2-00 |

CREATED: 11/1/00 11:12 45 AM

REVISED: 11/1/00 2:19:27 PM

COMMENTS:

C0J310205,C0J280169,C0J310200,C0J310225,C0J310228,C0J260170,C0J280161,C0J280132

| CLIENT SAMPLE<br>IDENTIFICATION | LAB SAMP<br>IDENT | TARE<br>NO. | WEIGHT<br>TARE | WEIGHT<br>TARE +<br>WET SMP | WEIGHT<br>TARE +<br>DRY SAMP | TIME<br>IN | TIME<br>OUT | WEIGHT<br>WATER | WATER<br>CONTENT<br>CALC. | SOLIDS<br>CONTENT<br>CALC. |
|---------------------------------|-------------------|-------------|----------------|-----------------------------|------------------------------|------------|-------------|-----------------|---------------------------|----------------------------|
| C0J280169                       | 010               | 109         | 1.03           | 6.03                        | 5.03                         | 10:45      | 9:00        | 1               | 20                        | 80                         |
| C0J310200                       | 001               | 64          | 1.02           | 6.1                         | 5.29                         | 10:45      | 9:00        | 0.81            | 15.945                    | 84.055                     |
| C0J310200                       | 001/DUP           | 39          | 1.05           | 6.07                        | 5.25                         | 10:45      | 9:00        | 0.82            | 16.335                    | 83.665                     |
| C0J310200                       | 002               | 9           | 1.06           | 6.09                        | 5.46                         | 10:45      | 9:00        | 0.63            | 12.525                    | 87.475                     |
| C0J310200                       | 003               | 45          | 1.05           | 6.1                         | 5.26                         | 10:45      | 9:00        | 0.84            | 16.634                    | 83.366                     |
| C0J310225                       | 001               | 44          | 1.04           | 6.03                        | 5.08                         | 10:45      | 9:00        | 0.95            | 19.038                    | 80.962                     |
| J10225                          | 002               | 21          | 1.04           | 6.09                        | 5.53                         | 10:45      | 9:00        | 0.56            | 11.089                    | 88.911                     |
| C0J310225                       | 003               | 80          | 1.06           | 6.06                        | 5.37                         | 10:45      | 9:00        | 0.69            | 13.8                      | 86.2                       |
| C0J310225                       | 004               | 33          | 1.04           | 6.1                         | 5.08                         | 10:45      | 9:00        | 1.02            | 20.158                    | 79.842                     |
| C0J310225                       | 005               | 15          | 1.03           | 6.07                        | 4.96                         | 10:45      | 9:00        | 1.11            | 22.024                    | 77.976                     |
| C0J310225                       | 006               | 62          | 1.06           | 6.05                        | 5.12                         | 10:45      | 9:00        | 0.93            | 18.637                    | 81.363                     |
| C0J310225                       | 007               | 115         | 1.1            | 6.08                        | 5.05                         | 10:45      | 9:00        | 1.03            | 20.683                    | 79.317                     |
| C0J310225                       | 008               | 69          | 1.06           | 6.12                        | 4.82                         | 10:45      | 9:00        | 1.3             | 25.692                    | 74.308                     |
| C0J310225                       | 009               | 61          | 1.07           | 6.11                        | 5.49                         | 10:45      | 9:00        | 0.62            | 12.302                    | 87.698                     |
| C0J310228                       | 001               | 76          | 1.05           | 6.08                        | 5.43                         | 10:45      | 9:00        | 0.65            | 12.922                    | 87.078                     |
| C0J310228                       | 002               | 4           | 1.05           | 6.07                        | 5.32                         | 10:45      | 9:00        | 0.75            | 14.94                     | 85.06                      |
| 310228                          | 003               | 25          | 1.05           | 6.1                         | 5.11                         | 10:45      | 9:00        | 0.99            | 19.604                    | 80.396                     |
| C0J310228                       | 005               | 12          | 1.04           | 6.04                        | 5.45                         | 10:45      | 9:00        | 0.59            | 11.8                      | 88.2                       |

REP:  
0.5"



674 884

## STL - Pittsburgh WATER CONTENT SHEET

|           |             |         |
|-----------|-------------|---------|
| SHEET NUM | 0011001     |         |
| TESTED    | BM          | 11/1/00 |
| CHECKED   | CUL 11-2-00 |         |

|          |                     |
|----------|---------------------|
| CREATED  | 11/1/00 11 12 45 AM |
| REVISED: | 11/1/00 2 19:27 PM  |

## COMMENTS.

C0J310205,C0J280169,C0J310200,C0J310225,C0J310228,C0J260170,C0J280161,C0J280132

| CLIENT SAMPLE IDENTIFICATION | LAB SAMP IDENT                               | TARE NO. | WEIGHT TARE | WEIGHT TARE + WET SMP | WEIGHT TARE + DRY SAMP | TIME IN | TIME OUT | WEIGHT WATER | WATER CONTENT CALC. | SOLIDS CONTENT CALC           |
|------------------------------|----------------------------------------------|----------|-------------|-----------------------|------------------------|---------|----------|--------------|---------------------|-------------------------------|
| C0J310228                    | 005/DUP                                      | 66       | 1 03        | 6 09                  | 5.42                   | 10 45   | 9:00     | 0.67         | 13.241              | 86 759 <sup>RPO: 1.66</sup>   |
| C0J310228                    | 006                                          | 51       | 1.06        | 6.11                  | 4.88                   | 10 45   | 9 00     | 1.23         | 24 356              | 75 644                        |
| C0J310228                    | 007                                          | 60       | 1 04        | 6 09                  | 4 87                   | 10 45   | 9:00     | 1 22         | 24 158              | 75 842                        |
| C0J310228                    | 008                                          | 94       | 1.06        | 6.05                  | 5.28                   | 10 45   | 9 00     | 0.77         | 15 431              | 84 569                        |
| C0J310228                    | 009                                          | 52       | 1 02        | 6 04                  | 5 53                   | 10 45   | 9:00     | 0.51         | 10 159              | 89 841                        |
| C0J310228                    | 011                                          | 105      | 1.06        | 6.07                  | 5.42                   | 10 45   | 9 00     | 0.65         | 12.974              | 87.026                        |
| C0J310228                    | 012                                          | 95       | 1 06        | 6 12                  | 5 43                   | 10 45   | 9 00     | 0 69         | 13 636              | 86 364                        |
| C0J260170                    | 001                                          | 83       | 1 05        | 6.08                  | 4 77                   | 10.45   | 9 00     | 1.31         | 26 044              | 73 956                        |
| C0J280161                    | 001 <sup>002</sup><br><sup>CUL 11-2-00</sup> | 18       | 1 07        | 6 07                  | 5 61                   | 10 45   | 9 00     | 0 46         | 9 2                 | 90 8                          |
| C0J280161                    | 003 <sup>004</sup><br><sup>CUL 11-2-00</sup> | 65       | 1.09        | 6 12                  | 5 75                   | 10:45   | 9:00     | 0.37         | 7.356               | 92.644                        |
| C0J280132                    | 001                                          | 92       | 1 07        | 6 08                  | 5 19                   | 10 45   | 9 00     | 0 89         | 17.764              | 82 236 <sup>RPO = 2.197</sup> |
| C0J280132                    | 001/DUP                                      | 35       | 1.09        | 6 13                  | 5 15                   | 10:45   | 9:00     | 0 98         | 19 444              | 80 556                        |
| C0J280132                    | 002                                          | 112      | 1.03        | 6 03                  | 4.99                   | 10 45   | 9 00     | 1.04         | 20.8                | 79.2                          |
| C0J280132                    | 003                                          | 40       | 1 06        | 6 08                  | 4.24                   | 10:45   | 9 00     | 1 84         | 36 653              | 63.347                        |
| C0J280132                    | 004                                          | 43       | 1 05        | 6 03                  | 3.51                   | 10.45   | 9 00     | 2.52         | 50.602              | 49 398                        |
| C0J280132                    | 005                                          | 97       | 1.06        | 6.14                  | 3 36                   | 10 45   | 9 00     | 2 78         | 54.724              | 45 276                        |
| 280132                       | 006                                          | 11       | 1 06        | 6 08                  | 5 52                   | 10.45   | 9 00     | 0.56         | 11 155              | 88 845                        |
| C0J280132                    | 007                                          | 98       | 1 04        | 6.06                  | 5 48                   | 10 45   | 9 00     | 0 58         | 11.554              | 88 446                        |

## STL - Pittsburgh WATER CONTENT SHEET

674 885

|           |         |         |
|-----------|---------|---------|
| SHEET NUM | 0011001 |         |
| TESTED    | BM      | 11/1/00 |
| CHECKED   | CU      | 11-2-00 |

|          |                     |
|----------|---------------------|
| CREATED: | 11/1/00 11:12:45 AM |
| REVISED: | 11/1/00 2:19:27 PM  |

## COMMENTS

C0J310205,C0J280169,C0J310200,C0J310225,C0J310228,C0J260170,C0J280161,C0J280132

| CLIENT SAMPLE<br>IDENTIFICATION | LAB SAMP<br>IDENT. | TARE<br>NO. | WEIGHT<br>TARE | WEIGHT<br>TARE +<br>WET SMP | WEIGHT<br>TARE +<br>DRY SAMP | TIME<br>IN | TIME<br>OUT | WEIGHT<br>WATER | WATER<br>CONTENT<br>CALC. | SOLIDS<br>CONTENT<br>CALC. |
|---------------------------------|--------------------|-------------|----------------|-----------------------------|------------------------------|------------|-------------|-----------------|---------------------------|----------------------------|
| C0J280132                       | 008                | 103         | 1.08           | 6.08                        | 3.73                         | 10:45      | 9:00        | 2.35            | 47                        | 53                         |
| C0J280132                       | 009                | 47          | 1.04           | 6.1                         | 3.86                         | 10:45      | 9:00        | 2.24            | 44.269                    | 55.731                     |
| C0J280132                       | 010                | 21B         | 1.13           | 6.11                        | 5.47                         | 10:45      | 9:00        | 0.64            | 12.851                    | 87.149                     |
| C0J280132                       | 011                | 90          | 1.04           | 6.08                        | 5.42                         | 10:45      | 9:00        | 0.66            | 13.095                    | 86.905                     |
| C0J280161                       | 002                | 18          | 1.07           | 6.07                        | 5.61                         | 10:45      | 9:00        | 0.46            | 9.2                       | 90.8                       |
| C0J280161                       | 004                | 65          | 1.09           | 6.12                        | 5.75                         | 10:45      | 9:00        | 0.37            | 7.356                     | 92.644                     |

REQUESTED BY. MLECHICB

OD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

| STORAGE LOCATION | WORK ORDER # | PICKED<br>CNTR# | CONTROL # | CLIENT # | ANALYSIS          | LOTID | SMP# | SFX | MATRIX<br>DESCRIPTION | QTY<br>RCVD | QTY<br>REQD |
|------------------|--------------|-----------------|-----------|----------|-------------------|-------|------|-----|-----------------------|-------------|-------------|
| 12A,B CLP1       | DN1MX-1-AD   | ___             | 279043    | 001361   | A-88-SM C0J280169 | 001   |      |     | SOLID                 | 3           | 1           |
| 12A,B CLP1       | DN1M0-1-AN   | ___             | 279044    | 001361   | A-88-SM C0J280169 | 002   |      |     | SOLID                 | 3           | 1           |
| 12A,B CLP1       | DN1M1-1-AN   | ___             | 279045    | 001361   | A-88-SM C0J280169 | 003   |      |     | SOLID                 | 3           | 1           |
| 12A,B CLP1       | DN1M2-1-AN   | ___             | 279046    | 001361   | A-88-SM C0J280169 | 004   |      |     | SOLID                 | 3           | 1           |
| 12A,B CLP1       | DN1M3-1-AN   | ___             | 279047    | 001361   | A-88-SM C0J280169 | 005   |      |     | SOLID                 | 3           | 1           |
| 12A,B CLP1       | DN1M4-1-AN   | ___             | 279048    | 001361   | A-88-SM C0J280169 | 006   |      |     | SOLID                 | 3           | 1           |
| 12A,B CLP1       | DN1M5-1-CE   | ___             | 279049    | 001361   | A-88-SM C0J280169 | 007   |      |     | SOLID                 | 7           | 1           |
| 12A,B CLP1       | DN1M7-1-AN   | ___             | 279050    | 001361   | A-88-SM C0J280169 | 009   |      |     | SOLID                 | 3           | 1           |
| 12A,B CLP1       | DN1M8-1-AN   | ___             | 279051    | 001361   | A-88-SM C0J280169 | 010   |      |     | SOLID                 | 3           | 1           |
| 12C CLP1         | DN4RA-1-AA   | ___             | 279055    | 090501   | A-88-SM C0J310205 | 001   |      |     | SOLID                 | 2           | 1           |
| CLP1             | DN4RE-1-AA   | ___             | 279056    | 090501   | A-88-SM C0J310205 | 002   |      |     | SOLID                 | 2           | 1           |
| 12C CLP1         | DN4RF-1-AA   | ___             | 279057    | 090501   | A-88-SM C0J310205 | 003   |      |     | SOLID                 | 2           | 1           |
| 12C CLP1         | DN4RG-1-AA   | ___             | 279058    | 090501   | A-88-SM C0J310205 | 004   |      |     | SOLID                 | 2           | 1           |
| 12C CLP1         | DN4RJ-1-AA   | ___             | 279059    | 090501   | A-88-SM C0J310205 | 006   |      |     | SOLID                 | 2           | 1           |
| 12C CLP1         | DN4RK-1-AA   | ___             | 279060    | 090501   | A-88-SM C0J310205 | 007   |      |     | SOLID                 | 2           | 1           |
| 12C CLP1         | DN4RM-1-AA   | ___             | 279061    | 090501   | A-88-SM C0J310205 | 008   |      |     | SOLID                 | 2           | 1           |
| 12C CLP1         | DN4RP-1-AA   | ___             | 279062    | 090501   | A-88-SM C0J310205 | 009   |      |     | SOLID                 | 2           | 1           |
| 12C CLP1         | DN4RT-1-AA   | ___             | 279063    | 090501   | A-88-SM C0J310205 | 011   |      |     | SOLID                 | 2           | 1           |
| 12D CLP1         | DN4P6-1-AA   | ___             | 279052    | 399411   | A-88-SM C0J310200 | 001   |      |     | SOLID                 | 3           | 1           |
| 12D CLP1         | DN4QJ-1-AA   | ___             | 279053    | 399411   | A-88-SM C0J310200 | 002   |      |     | SOLID                 | 3           | 1           |
| 12D CLP1         | DN4QK-1-AA   | ___             | 279054    | 399411   | A-88-SM C0J310200 | 003   |      |     | SOLID                 | 3           | 1           |
| 12D,E CLP1       | DN401-1-AD   | ___             | 279064    | 001361   | A-88-SM C0J310225 | 001   |      |     | SOLID                 | 2           | 1           |
| 12D,E CLP1       | DN409-1-AP   | ___             | 279065    | 001361   | A-88-SM C0J310225 | 002   |      |     | SOLID                 | 2           | 1           |
| ,E CLP1          | DN41A-1-AP   | ___             | 279066    | 001361   | A-88-SM C0J310225 | 003   |      |     | SOLID                 | 2           | 1           |
| 12D,E CLP1       | DN41D-1-AP   | ___             | 279067    | 001361   | A-88-SM C0J310225 | 004   |      |     | SOLID                 | 2           | 1           |
| 12D,E CLP1       | DN41K-1-AP   | ___             | 279068    | 001361   | A-88-SM C0J310225 | 005   |      |     | SOLID                 | 2           | 1           |

REQUESTED BY: MLECHICB

OD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

| STORAGE LOCATION | WORK ORDER # | PICKED | CONTROL # | CLIENT # | ANALYSIS | LOTID     | SMP# | SFX | MATRIX DESCRIPTION | QTY  | QTY  |
|------------------|--------------|--------|-----------|----------|----------|-----------|------|-----|--------------------|------|------|
|                  |              | CNTR#  |           |          |          |           |      |     |                    | RCVD | REQD |
| 12D,E CLP1       | DN41N-1-AP   | ___    | 279069    | 001361   | A-88-SM  | C0J310225 | 006  |     | SOLID              | 2    | 1    |
| 12D,E CLP1       | DN41P-1-AP   | ___    | 279070    | 001361   | A-88-SM  | C0J310225 | 007  |     | SOLID              | 2    | 1    |
| 12D,E CLP1       | DN41Q-1-AP   | ___    | 279071    | 001361   | A-88-SM  | C0J310225 | 008  |     | SOLID              | 2    | 1    |
| 12D,E CLP1       | DN41T-1-AP   | ___    | 279072    | 001361   | A-88-SM  | C0J310225 | 009  |     | SOLID              | 2    | 1    |

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DATE/TIME

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11/01/00 9:40

11/01/00 10:50

\*\*\*\*\* END OF REPORT \*\*\*\*\*

REQUESTED BY, MLECHICB

OD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

| STORAGE LOCATION | WORK ORDER # | PICKED<br>CNTR# | CONTROL # | CLIENT # | ANALYSIS          | LOTID | SMP# | SFX | MATRIX<br>DESCRIPTION | QTY<br>RCVD | QTY<br>REQD |
|------------------|--------------|-----------------|-----------|----------|-------------------|-------|------|-----|-----------------------|-------------|-------------|
| 10D.E CLP1       | DNTC4-1-AV   | — — —           | 279116    | 009072   | A-88-SM COJ260170 | 001   |      |     | SOLID                 | 4           | 1           |
| 11E,12A CLP1     | DN1D9-1-AW   | — — —           | 279117    | 009072   | A-88-SM COJ280132 | 001   |      |     | SOLID                 | 10          | 1           |
| 11E,12A CLP1     | DN1EC-1-A8   | — — —           | 279118    | 009072   | A-88-SM COJ280132 | 002   |      |     | SOLID                 | 8           | 1           |
| 11E,12A CLP1     | DN1ED-1-A8   | — — —           | 279119    | 009072   | A-88-SM COJ280132 | 003   |      |     | SOLID                 | 9           | 1           |
| 11E,12A CLP1     | DN1EE-1-AW   | — — —           | 279120    | 009072   | A-88-SM COJ280132 | 004   |      |     | SOLID                 | 7           | 1           |
| 11E,12A CLP1     | DN1EF-1-A8   | — — —           | 279121    | 009072   | A-88-SM COJ280132 | 005   |      |     | SOLID                 | 7           | 1           |
| 11E,12A CLP1     | DN1EH-1-AK   | — — —           | 279122    | 009072   | A-88-SM COJ280132 | 006   |      |     | SOLID                 | 7           | 1           |
| 11E,12A CLP1     | DN1EJ-1-AW   | — — —           | 279123    | 009072   | A-88-SM COJ280132 | 007   |      |     | SOLID                 | 7           | 1           |
| 11E,12A CLP1     | DN1EK-1-A8   | — — —           | 279124    | 009072   | A-88-SM COJ280132 | 008   |      |     | SOLID                 | 9           | 1           |
| 11E,12A CLP1     | DN1EN-1-A8   | — — —           | 279125    | 009072   | A-88-SM COJ280132 | 009   |      |     | SOLID                 | 9           | 1           |
| 12A CLP1         | DN1EP-1-A8   | — — —           | 279126    | 009072   | A-88-SM COJ280132 | 010   |      |     | SOLID                 | 9           | 1           |
| 11E,12A CLP1     | DN1ET-1-A8   | — — —           | 279127    | 009072   | A-88-SM COJ280132 | 011   |      |     | SOLID                 | 9           | 1           |
| 12A CLP1         | DN1KT-1-AW   | — — —           | 279128    | 009072   | A-88-SM COJ280161 | 001   |      |     | SOLID                 | 9           | 1           |
| 12A CLP1         | DN1K2-1-AD   | — — —           | 279129    | 009072   | A-88-SM COJ280161 | 002   |      |     | SOLID                 | 1           | 1           |
| 12A CLP1         | DN1K5-1-A8   | — — —           | 279130    | 009072   | A-88-SM COJ280161 | 003   |      |     | SOLID                 | 9           | 1           |
| 12A CLP1         | DN1K8-1-AD   | — — —           | 279131    | 009072   | A-88-SM COJ280161 | 004   |      |     | SOLID                 | 1           | 1           |
| 12E CLP1         | DN418-1-AD   | — — —           | 279132    | 001361   | A-88-SM COJ310228 | 001   |      |     | SOLID                 | 2           | 1           |
| 12E CLP1         | DN419-1-AP   | — — —           | 279133    | 001361   | A-88-SM COJ310228 | 002   |      |     | SOLID                 | 2           | 1           |
| 12E CLP1         | DN42C-1-AP   | — — —           | 279134    | 001361   | A-88-SM COJ310228 | 003   |      |     | SOLID                 | 2           | 1           |
| 12E CLP1         | DN42K-1-CH   | — — —           | 279135    | 001361   | A-88-SM COJ310228 | 005   |      |     | SOLID                 | 6           | 1           |
| 12E CLP1         | DN422-1-AP   | — — —           | 279136    | 001361   | A-88-SM COJ310228 | 006   |      |     | SOLID                 | 5           | 1           |
| 12E CLP1         | DN429-1-AP   | — — —           | 279137    | 001361   | A-88-SM COJ310228 | 007   |      |     | SOLID                 | 5           | 1           |
| 12E CLP1         | DN43A-1-AP   | — — —           | 279138    | 001361   | A-88-SM COJ310228 | 008   |      |     | SOLID                 | 5           | 1           |
| CLP1             | DN43E-1-AP   | — — —           | 279139    | 001361   | A-88-SM COJ310228 | 009   |      |     | SOLID                 | 5           | 1           |
| 12E CLP1         | DN43P-1-AP   | — — —           | 279140    | 001361   | A-88-SM COJ310228 | 011   |      |     | SOLID                 | 2           | 1           |
| 12E CLP1         | DN43W-1-AP   | — — —           | 279141    | 001361   | A-88-SM COJ310228 | 012   |      |     | SOLID                 | 2           | 1           |

REQUESTED BY: MLECHICB

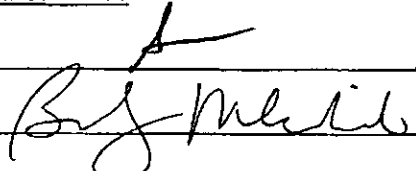
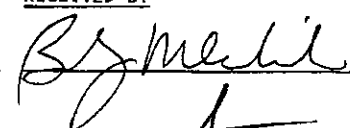
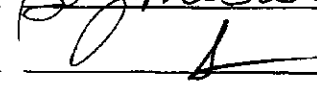
IOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

| <u>STORAGE LOCATION</u> | <u>WORK ORDER #</u> | <u>PICKED</u><br><u>CNTR#</u> | <u>CONTROL #</u> | <u>CLIENT #</u> | <u>ANALYSIS</u> | <u>LOTID</u> | <u>SMP#</u> | <u>SFX</u> | <u>MATRIX</u><br><u>DESCRIPTION</u> | <u>QTY</u><br><u>RCVD</u> | <u>QTY</u><br><u>REQD</u> |
|-------------------------|---------------------|-------------------------------|------------------|-----------------|-----------------|--------------|-------------|------------|-------------------------------------|---------------------------|---------------------------|
|-------------------------|---------------------|-------------------------------|------------------|-----------------|-----------------|--------------|-------------|------------|-------------------------------------|---------------------------|---------------------------|

RELINQUISHED BY

RECEIVED BY

DATE/TIME

|                                                                                     |                                                                                      |               |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------|
|  |  | 11/1/00 12:05 |
|                                                                                     |   | 11/1/00 13:00 |
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|                                                                                     |                                                                                      |               |
|                                                                                     |                                                                                      |               |

\*\*\*\*\* END OF REPORT \*\*\*\*\*

## TITRIMETRIC LOGSHEET

Analysis # Reactive Cyanide 674 890  
 Prep/ Anal. Date 11.6.00 / 11.7.00  
 Analyst AS

Batch Number 0312289 / 296  
 LCS Number —  
 LCS Prep Date —  
 RL 200

Titrant Name Silver Nitrate

Titrant Normality 0.0192 N

Titrant Standardization Date/ Initials NA / —

| Sample Number | Sample Volume | Dil | Titrant Vol (mL) | Final Conc. | Units | QC Calculations and Comments |
|---------------|---------------|-----|------------------|-------------|-------|------------------------------|
| BK            | 100 ml        |     | 0.05             | 12.5        | mg/kg |                              |
| DN50W         | 100           |     | 0.05             | 12.5        |       |                              |
| DN51C         | 100           |     | 0.05             | 12.5        |       |                              |
| DN51C -X      | 100           |     | 0.05             | 12.5        |       |                              |
| DN51M         | 100           |     | 0.025            | 6.25        |       |                              |
| DN51P         | 100           |     | 0.05             | 12.5        |       |                              |
| DN4PG         | 100           |     | 0.025            | 6.25        |       |                              |
| DN4QJ         | 100           |     | 0.05             | 12.5        |       |                              |
| DN4QK         | 100           |     | 0.05             |             |       |                              |
| DN50B         | 100           |     | 0.05             |             |       |                              |
| DN50B-X       | 100           |     | 0.05             |             |       |                              |
| DN51K         | 100           |     | 0.05             |             |       |                              |
| DN51N         | 100           |     | 0.05             |             |       |                              |
| DN51R         | 100           |     | 0.025            | 6.25        |       |                              |
| DN9GA         | 100           |     | 0.05             | 12.5        |       |                              |
| DN3NK         | 100           |     | 0.05             |             |       |                              |
| DN7CL         | 100           |     | 0.05             |             |       |                              |
| DN7DC         | 100           |     | 0.05             |             |       |                              |
| DN94K         | 100           |     | 0.05             |             |       |                              |
| DN65R         | 100           |     | 0.05             |             |       |                              |

STL Pittsburgh  $\text{CN}^- \left( \frac{\text{mg}}{\text{kg}} \right) = \text{ml. titrant} \times 250$





## TITRIMETRIC LOGSHEET

Analysis Rx Sulfide  
 Prep/ Anal. Date 11-6-00  
 Analyst LEU

674 892

Batch Number 03/1442  
 LCS Number NA  
 LCS Prep Date NA  
 RL 200mg/Kg

Titrant Name Sodium Thiosulfate

Iodine

0.02804 N Standardized

Titrant Normality 0.025Titrant Standardization Date/ Initials 10-13-00 / LEU

| Sample Number | Sample Volume | Dil. | Titrant Vol (mL) | Final Conc. | Units | QC Calculations and Comments |
|---------------|---------------|------|------------------|-------------|-------|------------------------------|
| 81K           | 10g           |      | 22.6             | ND          | mg/Kg |                              |
| DN50W         |               |      | 22.5             | ND          |       |                              |
| DN51C         |               |      | 22.3             | 13          |       |                              |
| DN51C-X       |               |      | 22.5             | ND          |       |                              |
| DN51M         |               |      | 22.7             |             |       |                              |
| DN51P         |               |      | 22.7             |             |       |                              |
| DN4P6         |               |      | 22.5             |             |       |                              |
| DN4QT         |               |      | 22.6             |             |       |                              |
| DN4QK         |               |      | 22.0             | 43.2        |       |                              |
| DN7C6         |               |      | 22.5             | ND          |       |                              |
| DN7DC         |               |      | 22.3             | 13          |       |                              |
| DN94K         |               |      | 22.6             | ND          |       |                              |
| DN65R         |               |      | 21.6             | 83          |       |                              |
| DN65X         |               |      | 22.1             | 123         |       |                              |
| DN9G4         |               |      | 22.2             | 23          |       |                              |
| DN9AJ         |               |      | 21.2             | 123         |       |                              |
| DN9AM         |               |      | 22.1             | 123         |       |                              |
| DN508         |               |      | 21.9             | 53          |       |                              |
| DN508-X       |               |      | 21.4             | 103         |       |                              |
| DN51K         | 10g           |      | 22.4             | 3.19        |       |                              |

$$\left( \frac{\text{mL}}{\text{F}} \cdot N \text{ of Iodine} \right) - \left( \text{mL titr.} \cdot N_{\text{thio}} \right) \times 16000 / 10g = \text{result} \cdot (0.25) \times 1800$$

Rev. 10/30/98  
180 N: Metals/Wet Log

674 893

Batch Number 0311442  
LCS Number NA  
LCS Prep Date NA  
RL 200 mg / Kg.

Titrant Standardization Date/ Initials 10-13-06 / LEW

[illegible]

pg 2 of 2.

**FINAL PAGE**

**PART I**

**ADMINISTRATIVE RECORD**

**PART I**

**FINAL PAGE**