

# **FOCUSED GROUNDWATER REMEDIATION REPORT**

**(Volume IV of V)**

**Appendix E-3**

For The:  
**570 MAIN STREET PROPERTY  
WESTBURY NEW YORK**  
(NYSDEC SITE CODE # 130043A)

Prepared For:  
**IMC EASTERN CORP.  
C/O SUE GORNICK  
9730 INDEPENDENCE AVENUE  
CHATSWORTH, CA 91311**

**MAY 2002**

**Hull**  
& associates, inc.

## **APPENDIX E-3**

### **Analytical Report from Lancaster Laboratories December 19, 2001 Post-Treatment Event**



## ANALYTICAL RESULTS

Prepared for:

Hull & Associates  
6130 Wilcox Rd.  
Dublin OH 43016

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

## SAMPLE GROUP

The sample group for this submittal is 791585. Samples arrived at the laboratory on Thursday, December 27, 2001.

### Client Description

NMB008:AW-1U:G121901A/B Matrix Spike Grab Water  
NMB008:AW-1U:G121901A/B Matrix Spike Dup/Dup Grab

### Lancaster Labs Number

3750934  
3750935

## METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Hull & Associates  
1 COPY TO Data Package Group

Attn: Mr. Bill Dennis

Questions? Contact your Client Services Representative  
Marianne L Bragg at (717) 656-2300.

Respectfully Submitted,

  
Max E. Snavey  
Sr. Chemist



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



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Page 1 of 2

Lancaster Laboratories Sample No. WW 3750934

Collected: 12/19/2001 10:15 by PG

Account Number: 10062

Submitted: 12/27/2001 11:15

Reported: 02/18/2002 at 14:22

Discard: 02/26/2002

Hull &amp; Associates

6130 Wilcox Rd.

Dublin OH 43016

NMB008:AW-1U:G121901A/B Matrix Spike Grab Water

Sample

IMC Magnetics - NY

AWA1U SDG#: HUL03-06MS

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 113.               | 4.00                              | mg/l  | 40              |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 681.               | 50.                               | mg/l  | 25              |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | 679.7 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 682.2 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 679.2 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 682.7 mg/l         |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | 5,600.             | 1,000.                            | mg/l  | 200             |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | 24.                | 2.0                               | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | 14.                | 5.0                               | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | 19.                | 1.0                               | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | 18.                | 5.0                               | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | 18.                | 1.0                               | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | 19.                | 1.0                               | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | 22.                | 1.0                               | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | 19.                | 1.0                               | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | 16.                | 1.0                               | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | 20.                | 1.0                               | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | 20.                | 1.0                               | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | 20.                | 1.0                               | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | 21.                | 1.0                               | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | 20.                | 1.0                               | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | 20.                | 1.0                               | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | 20.                | 1.0                               | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | 20.                | 1.0                               | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | 19.                | 1.0                               | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | 19.                | 1.0                               | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | 18.                | 1.0                               | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | 20.                | 1.0                               | ug/l  | 1               |
| 08520                                                                                                                                                    | Dibromochloromethane           | 124-48-1   | 21.                | 1.0                               | ug/l  | 1               |
| 08523                                                                                                                                                    | Tetrachloroethene              | 127-18-4   | 20.                | 1.0                               | ug/l  | 1               |
| 08526                                                                                                                                                    | Chlorobenzene                  | 108-90-7   | 19.                | 1.0                               | ug/l  | 1               |



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Lancaster Laboratories Sample No. WW 3750934

Collected: 12/19/2001 10:15 by PG

Account Number: 10062

Submitted: 12/27/2001 11:15

Reported: 02/18/2002 at 14:22

Discard: 02/26/2002

NMB008:AW-1U:G121901A/B Matrix Spike Grab Water

Sample

IMC Magnetix - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

AWA1U SDG#: HUL03-06MS

| CAT   |                           |            | As Received | As Received           |       |                 |
|-------|---------------------------|------------|-------------|-----------------------|-------|-----------------|
| No.   | Analysis Name             | CAS Number | Result      | Limit of Quantitation | Units | Dilution Factor |
| 08527 | Bromoform                 | 75-25-2    | 22.         | 1.0                   | ug/l  | 1               |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5    | 21.         | 1.0                   | ug/l  | 1               |
| 08533 | 1,3-Dichlorobenzene (m)   | 541-73-1   | 20.         | 1.0                   | ug/l  | 1               |
| 08534 | 1,4-Dichlorobenzene (p)   | 106-46-7   | 19.         | 1.0                   | ug/l  | 1               |
| 08535 | 1,2-Dichlorobenzene (o)   | 95-50-1    | 20.         | 1.0                   | ug/l  | 1               |
| 08541 | Benzene                   | 71-43-2    | 20.         | 1.0                   | ug/l  | 1               |
| 08543 | Toluene                   | 108-88-3   | 19.         | 1.0                   | ug/l  | 1               |
| 08545 | Ethylbenzene              | 100-41-4   | 19.         | 1.0                   | ug/l  | 1               |
| 08561 | Xylene (total)            | 1330-20-7  | 59.         | 3.0                   | ug/l  | 1               |

## Laboratory Chronicle

| CAT   |                                |              |        | Analysis         |                  |                 |
|-------|--------------------------------|--------------|--------|------------------|------------------|-----------------|
| No.   | Analysis Name                  | Method       | Trial# | Date and Time    | Analyst          | Dilution Factor |
| 00254 | Iron                           | SW-846 7380  | 1      | 01/08/2002 08:35 | Damary Valentin  | 40              |
| 00354 | Total Organic Carbon (Quad)    | SW-846 9060  | 1      | 01/04/2002 15:20 | Timothy M Petree | 25              |
| 01125 | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00 | Susan A Engle    | 200             |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 12/31/2001 17:54 | Todd T Smythe    | 1               |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43 | Denise K Conners | 1               |
| 01127 | GC VOA Water Prep              | SW-846 5030B | 1      | 12/31/2001 17:54 | Todd T Smythe    | n.a.            |



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Lancaster Laboratories Sample No. WW 3750935

Collected: 12/19/2001 10:15 by PG

Account Number: 10062

through 12/19/2001 10:30

Submitted: 12/27/2001 11:15

Hull &amp; Associates

Reported: 02/18/2002 at 14:22

6130 Wilcox Rd.

Discard: 02/26/2002

Dublin OH 43016

NMB008:AW-1U:G121901A/B Matrix Spike Dup/Dup Grab

Water Sample

IMC Magnetix - NY

AWA1U SDG#: HUL03-06MSD

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 113.               | 4.00                              | mg/l  | 40              |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 665.               | 50.                               | mg/l  | 25              |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | 662.2 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 670.0 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 660.1 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 668.6 mg/l         |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | 5,700.             | 1,000.                            | mg/l  | 200             |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | 21.                | 2.0                               | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | 13.                | 5.0                               | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | 17.                | 1.0                               | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | 18.                | 5.0                               | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | 18.                | 1.0                               | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | 16.                | 1.0                               | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | 21.                | 1.0                               | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | 18.                | 1.0                               | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | 16.                | 1.0                               | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | 21.                | 1.0                               | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | 21.                | 1.0                               | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | 20.                | 1.0                               | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | 21.                | 1.0                               | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | 20.                | 1.0                               | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | 20.                | 1.0                               | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | 20.                | 1.0                               | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | 20.                | 1.0                               | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | 19.                | 1.0                               | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | 20.                | 1.0                               | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | 18.                | 1.0                               | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | 20.                | 1.0                               | ug/l  | 1               |
| 08520                                                                                                                                                    | Dibromochloromethane           | 124-48-1   | 21.                | 1.0                               | ug/l  | 1               |
| 08523                                                                                                                                                    | Tetrachloroethene              | 127-18-4   | 20.                | 1.0                               | ug/l  | 1               |
| 08526                                                                                                                                                    | Chlorobenzene                  | 108-90-7   | 20.                | 1.0                               | ug/l  | 1               |



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 Lancaster, PA 17605-2425  
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Lancaster Laboratories Sample No. WW 3750935

Collected: 12/19/2001 10:15 by PG  
 through 12/19/2001 10:30  
 Submitted: 12/27/2001 11:15  
 Reported: 02/18/2002 at 14:22  
 Discard: 02/26/2002  
 NMB008:AW-1U:G121901A/B Matrix Spike Dup/Dup Grab  
 Water Sample  
 IMC Magnetix - NY

Account Number: 10062

Hull & Associates  
 6130 Wilcox Rd.  
 Dublin OH 43016

AWA1U SDG#: HUL03-06MSD

| CAT No. | Analysis Name             | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 08527   | Bromoform                 | 75-25-2    | 22.                | 1.0                               | ug/l  | 1               |
| 08528   | 1,1,2,2-Tetrachloroethane | 79-34-5    | 22.                | 1.0                               | ug/l  | 1               |
| 08533   | 1,3-Dichlorobenzene (m)   | 541-73-1   | 21.                | 1.0                               | ug/l  | 1               |
| 08534   | 1,4-Dichlorobenzene (p)   | 106-46-7   | 20.                | 1.0                               | ug/l  | 1               |
| 08535   | 1,2-Dichlorobenzene (o)   | 95-50-1    | 20.                | 1.0                               | ug/l  | 1               |
| 08541   | Benzene                   | 71-43-2    | 20.                | 1.0                               | ug/l  | 1               |
| 08543   | Toluene                   | 108-88-3   | 20.                | 1.0                               | ug/l  | 1               |
| 08545   | Ethylbenzene              | 100-41-4   | 20.                | 1.0                               | ug/l  | 1               |
| 08561   | Xylene (total)            | 1330-20-7  | 61.                | 3.0                               | ug/l  | 1               |

## Laboratory Chronicle

| CAT No. | Analysis Name                  | Method       | Trial# | Analysis Date and Time | Analyst          | Dilution Factor |
|---------|--------------------------------|--------------|--------|------------------------|------------------|-----------------|
| 00254   | Iron                           | SW-846 7380  | 1      | 01/08/2002 08:35       | Damary Valentin  | 40              |
| 00354   | Total Organic Carbon (Quad)    | SW-846 9060  | 1      | 01/04/2002 15:53       | Timothy M Petree | 25              |
| 01125   | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00       | Susan A Engle    | 200             |
| 08404   | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 12/31/2001 18:37       | Todd T Smythe    | 1               |
| 00820   | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43       | Denise K Connors | 1               |
| 01127   | GC VOA Water Prep              | SW-846 5030B | 1      | 12/31/2001 18:37       | Todd T Smythe    | n.a.            |



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FEB 21 2002

LS

Dublin Ofc

To Bill Dennis

Dear Client:

Enclosed please find the requested data package.

Any questions or concerns you might have regarding this data package should be directed to your client representative, Marianne Bragg, at (717) 656-2300 extension 1876.

Sincerely yours,

LANCASTER LABORATORIES  
Data Packages Department

# Data Package

*NYSDEC ASP Category B Data Package*

*Analytical Data Report Package  
for  
Hull & Associates*

*NMB008 - IMC Magnetics - NY  
Water Samples  
Collected on 12/19/01  
Sample No. 3749340-3749357, 3750934-3750935*

*PA Cert. # 36-037  
NY Cert. # 10670  
NJ Cert. # PA011  
NC Cert. # 521*

*Prepared by Amy M. Mason*  
*Quality Assurance Review Audrey J. McNamee, Oct 4/04*  
*Date 2/20/02*  
*Delivery Date 2/20/02*



**Sample Reference List for SDG Number HUL03  
with a Data Package Type of NYSDEC**

**10062 - Hull & Associates**  
 NMB008 - IMC Magnetics - NY

| Lab<br>Sample<br>Number | Lab<br>Sample<br>Code | Client Sample Description                                    |
|-------------------------|-----------------------|--------------------------------------------------------------|
| 3749340                 | AW-3U                 | NMB008:AW-3U:G121901 Grab Water Sample                       |
| 3749341                 | AW-3L                 | NMB008:AW-3L:G121901 Grab Water Sample                       |
| 3749342                 | MW-8U                 | NMB008:MW-8U:G121901 Grab Water Sample                       |
| 3749343                 | MW-8M                 | NMB008:MW-8M:G121901 Grab Water Sample                       |
| 3749344                 | MW-8L                 | NMB008:MW-8L:G121901 Grab Water Sample                       |
| 3749345                 | AWA1U                 | NMB008:AW-1U:G121901A/B Unspiked Grab Water Sample           |
| 3749346                 | AWB1U                 | NMB008:AW-1U:G121901B Duplicate Grab Water Sample            |
| 3749347                 | AW-1L                 | NMB008:AW-1L:G121901 Grab Water Sample                       |
| 3749348                 | AW-2U                 | NMB008:AW-2U:G121901 Grab Water Sample                       |
| 3749349                 | AW-2L                 | NMB008:AW-2L:G121901 Grab Water Sample                       |
| 3749350                 | MW-9U                 | NMB008:MW-9U:G121901 Grab Water Sample                       |
| 3749351                 | MW-9L                 | NMB008:MW-9L:G121901 Grab Water Sample                       |
| 3749352                 | MW10U                 | NMB008:MW-10U:G121901 Grab Water Sample                      |
| 3749353                 | MW10L                 | NMB008:MW-10L:G121901 Grab Water Sample                      |
| 3749354                 | MW-5U                 | NMB008:MW-5U:G121901 Grab Water Sample                       |
| 3749355                 | MW-5M                 | NMB008:MW-5M:G121901 Grab Water Sample                       |
| 3749356                 | MW-5L                 | NMB008:MW-5L:G121901 Grab Water Sample                       |
| 3749357                 | FIELD                 | FieldBlank Grab Water Sample                                 |
| 3750934                 | AWA1U                 | NMB008:AW-1:G121901A/B Matrix Spike Grab WaterSample         |
| 3750935                 | AWA1U                 | NMB008:AW-1:G121901A/B Matrix Spike Dup/Dup GrabWater Sample |

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For Lancaster Laboratories use only

Acct. # 10062 Sample # 3749340 -57

3750934-35

Please print. Instructions on reverse side correspond with circled numbers.

| 1                                                          |          | 2                  |                | 3                                    |           | 4                             |       | 5                             |       | 6                                              |                       |                         |  |
|------------------------------------------------------------|----------|--------------------|----------------|--------------------------------------|-----------|-------------------------------|-------|-------------------------------|-------|------------------------------------------------|-----------------------|-------------------------|--|
| Client: Hull & Associates                                  |          | Acct. #:           |                | Project Name: NMB008 - JMC Magnetics |           | Project Manager: Lance Turley |       | Sampler: Paul Gazzo           |       | Name of state where samples were collected: NY |                       |                         |  |
| Sample Identification                                      |          | Date Collected     | Time Collected | Grab                                 | Composite | Soil                          | Water | Potable (Check if applicable) | NPDES | Other                                          | Total # of Containers |                         |  |
| NMB008:AW-3U:G121901                                       | 12/19/01 | 9:00               |                |                                      |           |                               |       |                               |       |                                                |                       |                         |  |
| NMB008:AW-3L:G121901                                       | 12/19/01 | 9:15               |                |                                      |           |                               |       |                               |       |                                                |                       |                         |  |
| NMB008:MW-8U:G121901                                       | 12/19/01 | 9:30               |                |                                      |           |                               |       |                               |       |                                                |                       |                         |  |
| NMB008:MW-8M:G121901                                       | 12/19/01 | 9:45               |                |                                      |           |                               |       |                               |       |                                                |                       |                         |  |
| NMB008:MW-8L:G121901                                       | 12/19/01 | 10:00              |                |                                      |           |                               |       |                               |       |                                                |                       |                         |  |
| NMB008:AW-1U:G121901A                                      | 12/19/01 | 10:15              |                |                                      |           |                               |       |                               |       |                                                |                       |                         |  |
| NMB008:AW-1U:G121901B                                      | 12/19/01 | 10:30              |                |                                      |           |                               |       |                               |       |                                                |                       |                         |  |
| NMB008:AW-1L:G121901                                       | 12/19/01 | 10:45              |                |                                      |           |                               |       |                               |       |                                                |                       |                         |  |
| NMB008:AW-2U:G121901                                       | 12/19/01 | 11:00              |                |                                      |           |                               |       |                               |       |                                                |                       |                         |  |
| NMB008:AW-2L:G121901                                       | 12/19/01 | 11:15              |                |                                      |           |                               |       |                               |       |                                                |                       |                         |  |
| 7 Turnaround Time Requested (TAT) (please circle):         |          | Normal             | Rush           | Relinquished by: S. Mucke            |           | Relinquished by: A. Jan       |       | Relinquished by: A. Jan       |       | Relinquished by: A. Jan                        |                       |                         |  |
| Date results are needed:                                   |          |                    |                | Date                                 |           | Date                          |       | Date                          |       | Date                                           |                       |                         |  |
| Rush results requested by (please circle):                 |          | Phone              | Fax            | Date                                 |           | Date                          |       | Date                          |       | Date                                           |                       |                         |  |
| Phone #:                                                   |          |                    |                | Date                                 |           | Date                          |       | Date                          |       | Date                                           |                       |                         |  |
| Fax #:                                                     |          |                    |                | Date                                 |           | Date                          |       | Date                          |       | Date                                           |                       |                         |  |
| 8 Data Package Options (please circle if requested)        |          | SDG Complete?      |                | Relinquished by: A. Jan              |           | Relinquished by: A. Jan       |       | Relinquished by: A. Jan       |       | Relinquished by: A. Jan                        |                       |                         |  |
| QC Summary                                                 |          | Type VI (Raw Data) | Yes            | No                                   | Date      |                               | Date  |                               | Date  |                                                | Date                  |                         |  |
| Type I (Tier I)                                            |          | GLP                |                |                                      | Date      |                               | Date  |                               | Date  |                                                | Date                  |                         |  |
| Type II (Tier II)                                          |          | Other              |                |                                      | Date      |                               | Date  |                               | Date  |                                                | Date                  |                         |  |
| Type III (NJ Red. Del.)                                    |          |                    |                |                                      | Date      |                               | Date  |                               | Date  |                                                | Date                  |                         |  |
| Type IV (CLP)                                              |          |                    |                |                                      | Date      |                               | Date  |                               | Date  |                                                | Date                  |                         |  |
| Site-specific QC required? Yes No                          |          |                    |                | Relinquished by: A. Jan              |           | Relinquished by: A. Jan       |       | Relinquished by: A. Jan       |       | Relinquished by: A. Jan                        |                       | Relinquished by: A. Jan |  |
| (if yes, indicate QC sample and submit triplicate volume.) |          |                    |                | Date                                 |           | Date                          |       | Date                          |       | Date                                           |                       | Date                    |  |
| Internal Chain of Custody required? Yes No                 |          |                    |                | Relinquished by: A. Jan              |           | Relinquished by: A. Jan       |       | Relinquished by: A. Jan       |       | Relinquished by: A. Jan                        |                       | Relinquished by: A. Jan |  |





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in 6749

[illegible]

Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client

21021 ZREV.5/77611

# Sample Administration

## Receipt Documentation Log

Client/Project: (Hull & Assoc) Handy of New York Shipping Container Sealed: (Y) N

Date of Receipt: 12-21-01

COC Seal Present: Y (N)

Time of Receipt: 0920

COC Seal Intact: Y (N)

Source Code: 50-1

Package: (Chilled) / Not Chilled

Unpacker Emp. No.: 1255

| Temperature of Shipping Containers                                                                                                                                                                                       |                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>#1 <u>(Vials)</u></p> <p>Thermometer ID: <u>1340</u></p> <p>Temp.: <u>3.0</u></p> <p>Temp. Bottle / Surface Temp.</p> <p>Wet Ice / Dry Ice / Ice Packs</p> <p>Ice Present? <u>(Y)</u> / N Loose / <u>(Bagged)</u></p> | <p>#2</p> <p>Thermometer ID: <u>1340</u></p> <p>Temp.: <u>2.0</u></p> <p>Temp. Bottle / Surface Temp.</p> <p>Wet Ice / Dry Ice / Ice Packs</p> <p>Ice Present? <u>(Y)</u> / N Loose / <u>(Bagged)</u></p>                |
| <p>#3</p> <p>Thermometer ID: <u>1340</u></p> <p>Temp.: <u>2.5</u></p> <p>Temp. Bottle / Surface Temp.</p> <p>Wet Ice / Dry Ice / Ice Packs</p> <p>Ice Present? <u>(Y)</u> / N Loose / <u>(Bagged)</u></p>                | <p>#4 <u>(Vials)</u></p> <p>Thermometer ID: <u>1340</u></p> <p>Temp.: <u>3.0</u></p> <p>Temp. Bottle / Surface Temp.</p> <p>Wet Ice / Dry Ice / Ice Packs</p> <p>Ice Present? <u>(Y)</u> / N Loose / <u>(Bagged)</u></p> |

Paperwork Discrepancy/Unpacking Problems: NMB008: mw-9U: G121901 -  
wrong sample ID on the label of (1)  
NMB008: mw-8U: G12190

| Sample Administration Internal Chain of Custody |                 |             |                                    |
|-------------------------------------------------|-----------------|-------------|------------------------------------|
| Name                                            | Date            | Time        | Reason for Transfer                |
| <u>Kathy Binkley</u>                            | <u>12-21-01</u> | <u>1325</u> | Unpacking <u>to storage</u>        |
| <u>Margie Budarko</u>                           | <u>12/21/01</u> | <u>1440</u> | Place in Storage or <u>(Entry)</u> |
|                                                 |                 |             | Remove from Storage                |
|                                                 |                 |             | Place in Storage or Entry          |
|                                                 |                 |             | Entry                              |

## Sample Administration

### Receipt Documentation Log

(Hull & Assoc.)  
Client/Project: Handix of New York Shipping Container Sealed: (Y) / N  
Date of Receipt: 12-21-01 COC Seal Present: Y / (N)  
Time of Receipt: 0920 COC Seal Intact: Y / (N)  
Source Code: 50-1 Package: (Chilled) / Not Chilled  
Unpacker Emp. No.: 1255

#### Temperature of Shipping Containers

| #5                                                  | #2                                |
|-----------------------------------------------------|-----------------------------------|
| Thermometer ID: <u>1340</u>                         | Thermometer ID: _____             |
| Temp.: <u>2.0</u>                                   | Temp.: _____                      |
| Temp. Bottle / Surface Temp.                        | Temp. Bottle / Surface Temp.      |
| Wet Ice / Dry Ice / Ice Packs                       | Wet Ice / Dry Ice / Ice Packs     |
| Ice Present? <u>(Y)</u> / N Loose / <u>(Bagged)</u> | Ice Present? Y / N Loose / Bagged |
| #3                                                  | #4                                |
| Thermometer ID: _____                               | Thermometer ID: _____             |
| Temp.: _____                                        | Temp.: _____                      |
| Temp. Bottle / Surface Temp.                        | Temp. Bottle / Surface Temp.      |
| Wet Ice / Dry Ice / Ice Packs                       | Wet Ice / Dry Ice / Ice Packs     |
| Ice Present? Y / N Loose / Bagged                   | Ice Present? Y / N Loose / Bagged |

Paperwork Discrepancy/Unpacking Problems: \_\_\_\_\_

#### Sample Administration Internal Chain of Custody

| Name                 | Date            | Time        | Reason for Transfer                |
|----------------------|-----------------|-------------|------------------------------------|
| <u>Kelly Binkley</u> | <u>12-21-01</u> | <u>1325</u> | Unpacking <u>to storage</u>        |
| <u>Max Bedard</u>    | <u>12/21/01</u> | <u>1440</u> | Place in Storage or <u>(Entry)</u> |
|                      |                 |             | Remove from Storage                |
|                      |                 |             | Place in Storage or Entry          |
|                      |                 |             | Entry                              |

# Chain-of-Custody Record





## Secure Storage Chain of Custody Metals

Client/Project: Hull & Associates/NMB008

Sample #: 3749340-57 & 3750934-35 SDG: HuL03

Digest Type (circle one): Hg Metals GF Hydrides Trial No: \_\_\_\_\_ (If not 1, fill in)

Batch No: 

|   |   |   |   |   |
|---|---|---|---|---|
| 0 | 2 | 0 | 0 | 3 |
|---|---|---|---|---|

|   |   |   |   |
|---|---|---|---|
| 0 | 8 | 2 | 0 |
|---|---|---|---|

|   |   |   |
|---|---|---|
| 0 | 0 | 1 |
|---|---|---|

| Sample Number(s) in Custody | Released By                | Received By                | Date of Transfer | Time of Transfer | Reason for Change of Custody |
|-----------------------------|----------------------------|----------------------------|------------------|------------------|------------------------------|
| 3749340-57<br>3750934-35    | D. Connors<br>824          | GFAA<br>Locked Storage     | 01-03-02         | 1050             | GFAA<br>Locked Storage       |
| 3749340-57<br>3750934-35    | GFAA Storage               | D. Volante <sup>1254</sup> | 01-08-02         | 0805             | Fe Analysis                  |
| 3749340-57<br>3750934-35    | D. Volante <sup>1254</sup> | GFAA Storage               | 01-08-02         | 0930             | GFAA Storage                 |
|                             |                            |                            |                  |                  |                              |
|                             |                            |                            |                  |                  |                              |
|                             |                            |                            |                  |                  |                              |
|                             |                            |                            |                  |                  |                              |
|                             |                            |                            |                  |                  |                              |
|                             |                            |                            |                  |                  |                              |
|                             |                            |                            |                  |                  |                              |
|                             |                            |                            |                  |                  |                              |
|                             |                            |                            |                  |                  |                              |
|                             |                            |                            |                  |                  |                              |
|                             |                            |                            |                  |                  |                              |
|                             |                            |                            |                  |                  |                              |
|                             |                            |                            |                  |                  |                              |
|                             |                            |                            |                  |                  |                              |
|                             |                            |                            |                  |                  |                              |

**Secure Storage Chain of Custody  
Original Sample**

Client/Project: Hull + Associates / NMB008  
Preservative: HCl Matrix: WW SDG: HUL03  
Sample # Range of Entry Group: 3749340-57<sup>⑧</sup> Bottle Type: (52) 40 mL vial

| Sample Number(s)<br>in Custody | Released<br>By                  | Received<br>By                | Date of<br>Transfer | Time of<br>Transfer | Reason for Change<br>of Custody           | Dist., Extr.,<br>or Digest<br>Chain<br>Created (X) |
|--------------------------------|---------------------------------|-------------------------------|---------------------|---------------------|-------------------------------------------|----------------------------------------------------|
| 3749340-57                     | 391<br>T. Bedard                | VOA<br>refrig                 | 12/21/01            | 1530                | entry to storage                          |                                                    |
| 3749340-57                     | VOA<br>refrig.                  | W. Wann<br>1025               | 12/21/01            | 2300                | Transfer VOA<br>vial storage              |                                                    |
| 3749340-57                     | V. Wann<br>1025                 | VOA<br>vial storage           | 12/22/01            | 0030                | Storage                                   |                                                    |
| 3749340-57 <sup>⑧</sup>        | VOA vial<br>storage             | S. Price<br>688               | 12-29-01            | 1615                | transfer to<br>dept 25.                   |                                                    |
| 3749340-57 <sup>⑧</sup>        | S. Price<br>688                 | Dept 25<br>VOA frig           | 12-29-01            | 1620                | Storage before<br>analysis                |                                                    |
| 3749340-57 <sup>⑧</sup>        | Dept 25<br>VOA frig             | S. Price<br>688               | 12-31-01            | 1515                | transfer to<br>instrument for<br>analysis |                                                    |
| 3749340-57 <sup>⑧</sup>        | S. Price<br>688                 | Dept 25<br>autosampler<br>#18 | 12-31-01            | 1516                | analysis                                  |                                                    |
| 3749340-53, 57 <sup>⑧</sup>    | Dept. 25<br>Autosampler<br>#18  | T. Smythe<br>115              | 1-2-02              | 07:15               | Transfer to storage<br>after analysis     |                                                    |
| 3749340-53, 57 <sup>⑧</sup>    | T. Smythe<br>115                | Dept. 25<br>Storage           | 1-2-02              | 07:16               | Storage                                   |                                                    |
| ⑧ NMB008 11/6/02<br>3749345-56 | Dept. 25<br>Auto Sampler<br>#18 | NMBarnow<br>994               | 01-02-02            | 09:30               | Transfer to storage<br>after analysis     |                                                    |
| 3749354-56                     | NMBarnow<br>994                 | Dept. 25<br>Storage           | 01-02-02            | 09:31               | Storage                                   |                                                    |
|                                |                                 |                               |                     |                     |                                           |                                                    |
|                                |                                 |                               |                     |                     |                                           |                                                    |
|                                |                                 |                               |                     |                     |                                           |                                                    |
|                                |                                 |                               |                     |                     |                                           |                                                    |
|                                |                                 |                               |                     |                     |                                           |                                                    |

⑦ 3750934, 3750935 - Client requested the use of 52B vials of samples 3749345 and 3749346 as the samples 3750934 and 3750935. The 52B vials were released and received on the same dates and times as the associated 52A vials of samples 3749345 and 3749346.

The request to use the 52B vials was made half way through the chain of custody record. 2016 Rev. 04/15/99

NMB994.





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## METHODOLOGY SUMMARY/REFERENCE

### 0254 Iron (water)

The solution resulting from the metals digestion is analyzed by Flame AA.

Reference: Test Methods for Evaluating Solid Waste  
SW-846, Method 7380, September 1986

\*\*\*\*\*

### 0820 Metals Water Digestion

The sample is digested with nitric and hydrochloric acids.

Reference: Test Methods for Evaluating Solid Waste  
SW-846, Method 3005A, July 1992

\*\*\*\*\*

### 0212 Total Dissolved Solids (water)

A well-mixed sample is filtered through a glass fiber filter. The filtrate is collected in a tared beaker and dried to a constant weight. The increase in weight is the total dissolved solids.

Reference: Methods for Chemical Analysis of Water and Wastes  
USEPA 600/4-79-020, Method 160.1

\*\*\*\*\*

### 1125 Sulfate (water)

The sample is converted to a barium sulfate suspension. The resulting turbidity is determined using a nephelometer by comparison to a standard curve.

Reference: Methods for Chemical Analysis of Water and Wastes  
USEPA 600/4-79-020, Method 375.4



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#### **0354 Total Organic Carbon (Quad) (water)**

Following acidification, the sample is purged with nitrogen to remove inorganic carbon. Persulfate is injected to oxidize organic carbon to carbon dioxide which is detected by IR. An OI Model 700 TOC Analyzer is used. The analysis is performed and reported in quadruplicate.

Reference: Test Methods for Evaluating Solid Waste,  
SW-846, Method 9060, September 1986

\*\*\*\*\*

#### **8404 Halocarbons/Aromatics by SW846**

The volatile compounds are extracted by bubbling an inert gas through the sample and are collected on a sorbent trap. The trap is thermally desorbed and the compounds are separated by gas chromatography under programmed temperature conditions. Each analyte is quantitated using an electrolytic conductivity detector.

Reference: Test Methods for Evaluating Solid Waste  
SW-846, Methods 8021B, December 1996

\*\*\*\*\*

#### **1127 GC VOA Water Prep**

An undiluted aliquot of the water sample or a dilution of the sample is purged with an inert gas and the volatiles are collected on an adsorbent trap that is subsequently desorbed onto a gas chromatographic column.

Reference: Test Methods for Evaluating Solid Waste,  
SW-846, Method 5030B, Revision 2, December 1996



## ANALYTICAL RESULTS

Prepared for:

Hull & Associates  
6130 Wilcox Rd.  
Dublin OH 43016

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

## SAMPLE GROUP

The sample group for this submittal is 791279. Samples arrived at the laboratory on Friday, December 21, 2001.

### Client Description

### Lancaster Labs Number

|                                                    |         |
|----------------------------------------------------|---------|
| NMB008:AW-3U:G121901 Grab Water Sample             | 3749340 |
| NMB008:AW-3L:G121901 Grab Water Sample             | 3749341 |
| NMB008:MW-8U:G121901 Grab Water Sample             | 3749342 |
| NMB008:MW-8M:G121901 Grab Water Sample             | 3749343 |
| NMB008:MW-8L:G121901 Grab Water Sample             | 3749344 |
| NMB008:AW-1U:G121901A/B Unspiked Grab Water Sample | 3749345 |
| NMB008:AW-1U:G121901B Duplicate Grab Water Sample  | 3749346 |
| NMB008:AW-1L:G121901 Grab Water Sample             | 3749347 |
| NMB008:AW-2U:G121901 Grab Water Sample             | 3749348 |
| NMB008:AW-2L:G121901 Grab Water Sample             | 3749349 |
| NMB008:MW-9U:G121901 Grab Water Sample             | 3749350 |
| NMB008:MW-9L:G121901 Grab Water Sample             | 3749351 |
| NMB008:MW-10U:G121901 Grab Water Sample            | 3749352 |
| NMB008:MW-10L:G121901 Grab Water Sample            | 3749353 |
| NMB008:MW-5U:G121901 Grab Water Sample             | 3749354 |
| NMB008:MW-5M:G121901 Grab Water Sample             | 3749355 |
| NMB008:MW-5L:G121901 Grab Water Sample             | 3749356 |
| FieldBlank Grab Water Sample                       | 3749357 |

## METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO  
1 COPY TO

Hull & Associates  
Data Package Group

Attn: Mr. Bill Dennis



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Questions? Contact your Client Services Representative  
Marianne Bragg at (717) 656-2300.

Respectfully Submitted,

*Victoria M. Martell*  
Victoria M. Martell  
Chemist



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3749340

Collected: 12/19/2001 09:00 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:56

Discard: 01/17/2002

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

NMB008:AW-3U:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

AW-3U SDG#: HUL03-01

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 127.               | 4.00                              | mg/l  | 40              |
| 00212                                                                                                                                                    | Total Dissolved Solids         | n.a.       | 3,660.             | 240.                              | mg/l  | 1               |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 222.               | 50.                               | mg/l  | 25              |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | 222.5 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 224.9 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 218.6 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 221.3 mg/l         |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | 1,220.             | 500.                              | mg/l  | 100             |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | < 2.0              | 2.0                               | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1,1-Trichloroethene          | 75-35-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08520                                                                                                                                                    | Dibromochloromethane           | 124-48-1   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08523                                                                                                                                                    | Tetrachloroethene              | 127-18-4   | < 1.0              | 1.0                               | ug/l  | 1               |



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3749340

Collected: 12/19/2001 09:00 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:56

Discard: 01/17/2002

NMB008:AW-3U:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

AW-3U SDG#: HUL03-01

| CAT No. | Analysis Name             | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 08526   | Chlorobenzene             | 108-90-7   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08527   | Bromoform                 | 75-25-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08528   | 1,1,2,2-Tetrachloroethane | 79-34-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08533   | 1,3-Dichlorobenzene (m)   | 541-73-1   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08534   | 1,4-Dichlorobenzene (p)   | 106-46-7   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08535   | 1,2-Dichlorobenzene (o)   | 95-50-1    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08541   | Benzene                   | 71-43-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08543   | Toluene                   | 108-88-3   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08545   | Ethylbenzene              | 100-41-4   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08561   | Xylene (total)            | 1330-20-7  | < 3.0              | 3.0                               | ug/l  | 1               |

## Laboratory Chronicle

| CAT No. | Analysis Name                  | Method       | Trial# | Analysis Date and Time | Analyst            | Dilution Factor |
|---------|--------------------------------|--------------|--------|------------------------|--------------------|-----------------|
| 00254   | Iron                           | SW-846 7380  | 1      | 01/08/2002 08:42       | Damary S. Valentin | 40              |
| 00212   | Total Dissolved Solids         | EPA 160.1    | 1      | 12/24/2001 09:32       | Susan A. Engle     | 1               |
| 00354   | Total Organic Carbon (Quad)    | SW-846 9060  | 1      | 01/05/2002 01:02       | Timothy M. Petree  | 25              |
| 01125   | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00       | Susan A. Engle     | 100             |
| 08404   | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 01/01/2002 00:04       | Todd T. Smythe     | 1               |
| 00820   | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43       | Denise K. Conners  | 1               |
| 01127   | GC VOA Water Prep              | SW-846 5030B | 1      | 01/01/2002 00:04       | Todd T. Smythe     | n.a.            |



Lancaster Laboratories Sample No. WW 3749341

Collected: 12/19/2001 09:15 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:57

Discard: 01/17/2002

NMB008:AW-3L:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

AW-3L SDG#: HUL03-02

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 125.               | 4.00                              | mg/l  | 40              |
| 00212                                                                                                                                                    | Total Dissolved Solids         | n.a.       | 5,350.             | 240.                              | mg/l  | 1               |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 374.               | 50.                               | mg/l  | 25              |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | 370.9 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 373.4 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 373.7 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 376.1 mg/l         |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | 1,410.             | 500.                              | mg/l  | 100             |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | < 2.0              | 2.0                               | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08520                                                                                                                                                    | Dibromochloromethane           | 124-48-1   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08523                                                                                                                                                    | Tetrachloroethene              | 127-18-4   | < 1.0              | 1.0                               | ug/l  | 1               |



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3749341

Collected: 12/19/2001 09:15 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:57

Discard: 01/17/2002

NMB008:AW-3L:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

AW-3L SDG#: HUL03-02

| CAT<br>No. | Analysis Name             | CAS Number | As Received<br>Result | As Received              |       | Dilution<br>Factor |
|------------|---------------------------|------------|-----------------------|--------------------------|-------|--------------------|
|            |                           |            |                       | Limit of<br>Quantitation | Units |                    |
| 08526      | Chlorobenzene             | 108-90-7   | < 1.0                 | 1.0                      | ug/l  | 1                  |
| 08527      | Bromoform                 | 75-25-2    | < 1.0                 | 1.0                      | ug/l  | 1                  |
| 08528      | 1,1,2,2-Tetrachloroethane | 79-34-5    | < 1.0                 | 1.0                      | ug/l  | 1                  |
| 08533      | 1,3-Dichlorobenzene (m)   | 541-73-1   | < 1.0                 | 1.0                      | ug/l  | 1                  |
| 08534      | 1,4-Dichlorobenzene (p)   | 106-46-7   | < 1.0                 | 1.0                      | ug/l  | 1                  |
| 08535      | 1,2-Dichlorobenzene (o)   | 95-50-1    | < 1.0                 | 1.0                      | ug/l  | 1                  |
| 08541      | Benzene                   | 71-43-2    | < 1.0                 | 1.0                      | ug/l  | 1                  |
| 08543      | Toluene                   | 108-88-3   | < 1.0                 | 1.0                      | ug/l  | 1                  |
| 08545      | Ethylbenzene              | 100-41-4   | < 1.0                 | 1.0                      | ug/l  | 1                  |
| 08561      | Xylene (total)            | 1330-20-7  | < 3.0                 | 3.0                      | ug/l  | 1                  |

## Laboratory Chronicle

| CAT<br>No. | Analysis Name                     | Method       | Analysis |                  | Analyst            | Dilution<br>Factor |
|------------|-----------------------------------|--------------|----------|------------------|--------------------|--------------------|
|            |                                   |              | Trial#   | Date and Time    |                    |                    |
| 00254      | Iron                              | SW-846 7380  | 1        | 01/08/2002 08:43 | Damary S. Valentin | 40                 |
| 00212      | Total Dissolved Solids            | EPA 160.1    | 1        | 12/24/2001 09:32 | Susan A. Engle     | 1                  |
| 00354      | Total Organic Carbon<br>(Quad)    | SW-846 9060  | 1        | 01/05/2002 01:35 | Timothy M. Petree  | 25                 |
| 01125      | Sulfate (turbidimetric)           | EPA 375.4    | 1        | 01/02/2002 09:00 | Susan A. Engle     | 100                |
| 08404      | Halocarbons/Aromatics by<br>SW846 | SW-846 8021B | 1        | 01/01/2002 00:47 | Todd T. Smythe     | 1                  |
| 00820      | WW SW-846 FAA Digest (tot<br>rec) | SW-846 3005A | 1        | 01/03/2002 08:43 | Denise K. Conners  | 1                  |
| 01127      | GC VOA Water Prep                 | SW-846 5030B | 1        | 01/01/2002 00:47 | Todd T. Smythe     | n.a.               |



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2425 New Holland Pike  
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Lancaster, PA 17605-2425  
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Lancaster Laboratories Sample No. WW 3749342

Collected: 12/19/2001 09:30 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:57

Discard: 01/17/2002

NMB008:MW-8U:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

MW-8U SDG#: HUL03-03

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 397.               | 10.0                              | mg/l  | 100             |
| 00212                                                                                                                                                    | Total Dissolved Solids         | n.a.       | 407.               | 30.                               | mg/l  | 1               |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 6.9                | 2.0                               | mg/l  | 1               |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | 7.6 mg/l           |                                   |       |                 |
|                                                                                                                                                          |                                |            | 6.6 mg/l           |                                   |       |                 |
|                                                                                                                                                          |                                |            | 6.4 mg/l           |                                   |       |                 |
|                                                                                                                                                          |                                |            | 6.9 mg/l           |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | < 1,000.           | 1,000.                            | mg/l  | 200             |
| Due to interferences from the sample matrix, the reporting limit for the sulfate determination was increased.                                            |                                |            |                    |                                   |       |                 |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | < 2.0              | 2.0                               | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | 2.6                | 1.0                               | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | < 1.0              | 1.0                               | ug/l  | 1               |



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
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Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3749342

Collected: 12/19/2001 09:30 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:57

Discard: 01/17/2002

NMB008:MW-8U:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

MW-8U SDG#: HUL03-03

| CAT   |                           |            | As Received | As Received           |       |                 |
|-------|---------------------------|------------|-------------|-----------------------|-------|-----------------|
| No.   | Analysis Name             | CAS Number | Result      | Limit of Quantitation | Units | Dilution Factor |
| 08520 | Dibromochloromethane      | 124-48-1   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08523 | Tetrachloroethene         | 127-18-4   | 24.         | 1.0                   | ug/l  | 1               |
| 08526 | Chlorobenzene             | 108-90-7   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08527 | Bromoform                 | 75-25-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08533 | 1,3-Dichlorobenzene (m)   | 541-73-1   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08534 | 1,4-Dichlorobenzene (p)   | 106-46-7   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08535 | 1,2-Dichlorobenzene (o)   | 95-50-1    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08541 | Benzene                   | 71-43-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08543 | Toluene                   | 108-88-3   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08545 | Ethylbenzene              | 100-41-4   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08561 | Xylene (total)            | 1330-20-7  | < 3.0       | 3.0                   | ug/l  | 1               |

## Laboratory Chronicle

| CAT   |                                |              |        | Analysis         |                    | Dilution |
|-------|--------------------------------|--------------|--------|------------------|--------------------|----------|
| No.   | Analysis Name                  | Method       | Trial# | Date and Time    | Analyst            | Factor   |
| 00254 | Iron                           | SW-846 7380  | 1      | 01/08/2002 08:49 | Damary S. Valentin | 100      |
| 00212 | Total Dissolved Solids         | EPA 160.1    | 1      | 12/24/2001 09:32 | Susan A. Engle     | 1        |
| 00354 | Total Organic Carbon (Quad)    | SW-846 9060  | 2      | 01/07/2002 20:11 | Timothy M. Petree  | 1        |
| 01125 | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00 | Susan A. Engle     | 200      |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 01/01/2002 01:31 | Todd T. Smythe     | 1        |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43 | Denise K. Conners  | 1        |
| 01127 | GC VOA Water Prep              | SW-846 5030B | 1      | 01/01/2002 01:31 | Todd T. Smythe     | n.a.     |



Lancaster Laboratories Sample No. WW 3749343

Collected: 12/19/2001 09:45 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:57

Discard: 01/17/2002

NMB008:MW-8M:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

MW-8M SDG#: HUL03-04

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 1.68               | 0.100                             | mg/l  | 1               |
| 00212                                                                                                                                                    | Total Dissolved Solids         | n.a.       | 305.               | 30.                               | mg/l  | 1               |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 2.7                | 2.0                               | mg/l  | 1               |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | 2.5 mg/l           |                                   |       |                 |
|                                                                                                                                                          |                                |            | 2.5 mg/l           |                                   |       |                 |
|                                                                                                                                                          |                                |            | 3.7 mg/l           |                                   |       |                 |
|                                                                                                                                                          |                                |            | 2.2 mg/l           |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | 100.               | 20.                               | mg/l  | 4               |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | < 2.0              | 2.0                               | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08520                                                                                                                                                    | Dibromochloromethane           | 124-48-1   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08523                                                                                                                                                    | Tetrachloroethene              | 127-18-4   | 4.2                | 1.0                               | ug/l  | 1               |



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Lancaster Laboratories Sample No. WW 3749343

Collected: 12/19/2001 09:45 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:57

Discard: 01/17/2002

NMB008:MW-8M:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

MW-8M SDG#: HUL03-04

| CAT No. | Analysis Name             | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 08526   | Chlorobenzene             | 108-90-7   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08527   | Bromoform                 | 75-25-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08528   | 1,1,2,2-Tetrachloroethane | 79-34-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08533   | 1,3-Dichlorobenzene (m)   | 541-73-1   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08534   | 1,4-Dichlorobenzene (p)   | 106-46-7   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08535   | 1,2-Dichlorobenzene (o)   | 95-50-1    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08541   | Benzene                   | 71-43-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08543   | Toluene                   | 108-88-3   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08545   | Ethylbenzene              | 100-41-4   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08561   | Xylene (total)            | 1330-20-7  | < 3.0              | 3.0                               | ug/l  | 1               |

## Laboratory Chronicle

| CAT No. | Analysis Name                  | Method       | Trial# | Analysis Date and Time | Analyst            | Dilution Factor |
|---------|--------------------------------|--------------|--------|------------------------|--------------------|-----------------|
| 00254   | Iron                           | SW-846 7380  | 1      | 01/08/2002 08:49       | Damary S. Valentin | 1               |
| 00212   | Total Dissolved Solids         | EPA 160.1    | 1      | 12/24/2001 09:32       | Susan A. Engle     | 1               |
| 00354   | Total Organic Carbon (Quad)    | SW-846 9060  | 1      | 01/07/2002 13:43       | Timothy M. Petree  | 1               |
| 01125   | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00       | Susan A. Engle     | 4               |
| 08404   | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 01/01/2002 02:14       | Todd T. Smythe     | 1               |
| 00820   | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43       | Denise K. Connors  | 1               |
| 01127   | GC VOA Water Prep              | SW-846 5030B | 1      | 01/01/2002 02:14       | Todd T. Smythe     | n.a.            |



Lancaster Laboratories Sample No. WW 3749344

Collected: 12/19/2001 10:00 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:57

Discard: 01/17/2002

NMB008:MW-8L:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

MW-8L SDG#: HUL03-05

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 1.39               | 0.100                             | mg/l  | 1               |
| 00212                                                                                                                                                    | Total Dissolved Solids         | n.a.       | 252.               | 30.                               | mg/l  | 1               |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | < 2.0              | 2.0                               | mg/l  | 1               |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | 1.4 mg/l           |                                   |       |                 |
|                                                                                                                                                          |                                |            | 1.8 mg/l           |                                   |       |                 |
|                                                                                                                                                          |                                |            | 1.2 mg/l           |                                   |       |                 |
|                                                                                                                                                          |                                |            | 1.5 mg/l           |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | 36.                | 20.                               | mg/l  | 4               |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | < 2.0              | 2.0                               | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | 8.8                | 1.0                               | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | 2.5                | 1.0                               | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | 35.                | 1.0                               | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08520                                                                                                                                                    | Dibromochloromethane           | 124-48-1   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08523                                                                                                                                                    | Tetrachloroethene              | 127-18-4   | 6.7                | 1.0                               | ug/l  | 1               |



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2425 New Holland Pike  
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Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3749344

Collected: 12/19/2001 10:00 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:57

Discard: 01/17/2002

NMB008:MW-8L:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

MW-8L SDG#: HUL03-05

| CAT No. | Analysis Name             | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 08526   | Chlorobenzene             | 108-90-7   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08527   | Bromoform                 | 75-25-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08528   | 1,1,2,2-Tetrachloroethane | 79-34-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08533   | 1,3-Dichlorobenzene (m)   | 541-73-1   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08534   | 1,4-Dichlorobenzene (p)   | 106-46-7   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08535   | 1,2-Dichlorobenzene (o)   | 95-50-1    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08541   | Benzene                   | 71-43-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08543   | Toluene                   | 108-88-3   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08545   | Ethylbenzene              | 100-41-4   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08561   | Xylene (total)            | 1330-20-7  | < 3.0              | 3.0                               | ug/l  | 1               |

## Laboratory Chronicle

| CAT No. | Analysis Name                  | Method       | Trial# | Analysis Date and Time | Analyst            | Dilution Factor |
|---------|--------------------------------|--------------|--------|------------------------|--------------------|-----------------|
| 00254   | Iron                           | SW-846 7380  | 1      | 01/08/2002 08:49       | Damary S. Valentin | 1               |
| 00212   | Total Dissolved Solids         | EPA 160.1    | 1      | 12/24/2001 09:32       | Susan A. Engle     | 1               |
| 00354   | Total Organic Carbon (Quad)    | SW-846 9060  | 1      | 01/07/2002 14:32       | Timothy M. Petree  | 1               |
| 01125   | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00       | Susan A. Engle     | 4               |
| 08404   | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 01/01/2002 02:58       | Todd T. Smythe     | 1               |
| 00820   | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43       | Denise K. Connors  | 1               |
| 01127   | GC VOA Water Prep              | SW-846 5030B | 1      | 01/01/2002 02:58       | Todd T. Smythe     | n.a.            |



Lancaster Laboratories Sample No. WW 3749345

Collected: 12/19/2001 10:15 by PG Account Number: 10062  
 through 12/19/2001 10:30  
 Submitted: 12/21/2001 09:20 Hull & Associates  
 Reported: 01/09/2002 at 20:57 6130 Wilcox Rd.  
 Discard: 01/17/2002 Dublin OH 43016  
 NMB008:AW-1U:G121901A/B Unspiked Grab Water Sample  
 NMB008 - IMC Magnetix - NY

AWA1U SDG#: HUL03-06BKG

| CAT                                                                                                                                                      |                                |            | As Received | As Received           |       |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|-------------|-----------------------|-------|-----------------|
| No.                                                                                                                                                      | Analysis Name                  | CAS Number | Result      | Limit of Quantitation | Units | Dilution Factor |
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 111.        | 4.00                  | mg/l  | 40              |
| 00212                                                                                                                                                    | Total Dissolved Solids         | n.a.       | 4,260.      | 240.                  | mg/l  | 1               |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 423.        | 50.                   | mg/l  | 25              |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |             |                       |       |                 |
|                                                                                                                                                          |                                |            | 416.6 mg/l  |                       |       |                 |
|                                                                                                                                                          |                                |            | 423.1 mg/l  |                       |       |                 |
|                                                                                                                                                          |                                |            | 425.7 mg/l  |                       |       |                 |
|                                                                                                                                                          |                                |            | 425.4 mg/l  |                       |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | 1,870.      | 500.                  | mg/l  | 100             |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |             |                       |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | < 2.0       | 2.0                   | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | < 5.0       | 5.0                   | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | < 5.0       | 5.0                   | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | < 1.0       | 1.0                   | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | < 1.0       | 1.0                   | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08520                                                                                                                                                    | Dibromochloromethane           | 124-48-1   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08523                                                                                                                                                    | Tetrachloroethene              | 127-18-4   | < 1.0       | 1.0                   | ug/l  | 1               |



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 2425 New Holland Pike  
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Lancaster Laboratories Sample No. WW 3749345

Collected: 12/19/2001 10:15 by PG Account Number: 10062  
 through 12/19/2001 10:30  
 Submitted: 12/21/2001 09:20 Hull & Associates  
 Reported: 01/09/2002 at 20:57 6130 Wilcox Rd.  
 Discard: 01/17/2002 Dublin OH 43016  
 NMB008:AW-1U:G121901A/B Unspiked Grab Water Sample  
 NMB008 - IMC Magnetics - NY

AWA1U SDG#: HUL03-06BKG

| CAT   |                           |            | As Received | As Received           |       |                 |
|-------|---------------------------|------------|-------------|-----------------------|-------|-----------------|
| No.   | Analysis Name             | CAS Number | Result      | Limit of Quantitation | Units | Dilution Factor |
| 08526 | Chlorobenzene             | 108-90-7   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08527 | Bromoform                 | 75-25-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08533 | 1,3-Dichlorobenzene (m)   | 541-73-1   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08534 | 1,4-Dichlorobenzene (p)   | 106-46-7   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08535 | 1,2-Dichlorobenzene (o)   | 95-50-1    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08541 | Benzene                   | 71-43-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08543 | Toluene                   | 108-88-3   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08545 | Ethylbenzene              | 100-41-4   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08561 | Xylene (total)            | 1330-20-7  | < 3.0       | 3.0                   | ug/l  | 1               |

## Laboratory Chronicle

| CAT   |                                |              |        | Analysis         |                    |                 |
|-------|--------------------------------|--------------|--------|------------------|--------------------|-----------------|
| No.   | Analysis Name                  | Method       | Trial# | Date and Time    | Analyst            | Dilution Factor |
| 00254 | Iron                           | SW-846 7380  | 1      | 01/08/2002 08:24 | Damary S. Valentin | 40              |
| 00212 | Total Dissolved Solids         | EPA 160.1    | 1      | 12/26/2001 09:15 | Susan A. Engle     | 1               |
| 00354 | Total Organic Carbon (Quad)    | SW-846 9060  | 1      | 01/04/2002 14:32 | Timothy M. Petree  | 25              |
| 01125 | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00 | Susan A. Engle     | 100             |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 12/31/2001 16:54 | Todd T. Smythe     | 1               |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43 | Denise K. Connors  | 1               |
| 01127 | GC VOA Water Prep              | SW-846 5030B | 1      | 12/31/2001 16:54 | Todd T. Smythe     | n.a.            |





Lancaster Laboratories Sample No. WW 3749346

Collected: 12/19/2001 10:30 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:57

Discard: 01/17/2002

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

NMB008:AW-1U:G121901B Duplicate Grab Water Sample

NMB008 - IMC Magnetix - NY

AWB1U SDG#: HUL03-07FD

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 176.               | 4.00                              | mg/l  | 40              |
| 00212                                                                                                                                                    | Total Dissolved Solids         | n.a.       | 3,990.             | 240.                              | mg/l  | 1               |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 407.               | 50.                               | mg/l  | 25              |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | 408.0 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 404.2 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 407.8 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 407.2 mg/l         |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | 1,790.             | 500.                              | mg/l  | 100             |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | < 2.0              | 2.0                               | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08520                                                                                                                                                    | Dibromochloromethane           | 124-48-1   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08523                                                                                                                                                    | Tetrachloroethene              | 127-18-4   | < 1.0              | 1.0                               | ug/l  | 1               |



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3749346

Collected: 12/19/2001 10:30 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:57

Discard: 01/17/2002

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

NMB008:AW-1U:G121901B Duplicate Grab Water Sample

NMB008 - IMC Magnetix - NY

AWB1U SDG#: HUL03-07FD

| CAT   |                           |            | As Received | As Received           |       |                 |
|-------|---------------------------|------------|-------------|-----------------------|-------|-----------------|
| No.   | Analysis Name             | CAS Number | Result      | Limit of Quantitation | Units | Dilution Factor |
| 08526 | Chlorobenzene             | 108-90-7   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08527 | Bromoform                 | 75-25-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08533 | 1,3-Dichlorobenzene (m)   | 541-73-1   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08534 | 1,4-Dichlorobenzene (p)   | 106-46-7   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08535 | 1,2-Dichlorobenzene (o)   | 95-50-1    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08541 | Benzene                   | 71-43-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08543 | Toluene                   | 108-88-3   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08545 | Ethylbenzene              | 100-41-4   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08561 | Xylene (total)            | 1330-20-7  | < 3.0       | 3.0                   | ug/l  | 1               |

## Laboratory Chronicle

| CAT   |                                |              |        | Analysis         |                    |                 |
|-------|--------------------------------|--------------|--------|------------------|--------------------|-----------------|
| No.   | Analysis Name                  | Method       | Trial# | Date and Time    | Analyst            | Dilution Factor |
| 00254 | Iron                           | SW-846 7380  | 1      | 01/08/2002 08:51 | Damary S. Valentin | 40              |
| 00212 | Total Dissolved Solids         | EPA 160.1    | 1      | 12/26/2001 09:15 | Susan A. Engle     | 1               |
| 00354 | Total Organic Carbon (Quad)    | SW-846 9060  | 1      | 01/04/2002 16:41 | Timothy M. Petree  | 25              |
| 01125 | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00 | Susan A. Engle     | 100             |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 01/01/2002 03:41 | Todd T. Smythe     | 1               |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43 | Denise K. Connors  | 1               |
| 01127 | GC VOA Water Prep              | SW-846 5030B | 1      | 01/01/2002 03:41 | Todd T. Smythe     | n.a.            |



Lancaster Laboratories Sample No. WW 3749347

Collected: 12/19/2001 10:45 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:57

Discard: 01/17/2002

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

NMB008:AW-1L:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

AW-1L SDG#: HUL03-08

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 65.9               | 4.00                              | mg/l  | 40              |
| 00212                                                                                                                                                    | Total Dissolved Solids         | n.a.       | 3,330.             | 240.                              | mg/l  | 1               |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 265.               | 50.                               | mg/l  | 25              |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | 266.6 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 263.3 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 267.5 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 263.0 mg/l         |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | 1,090.             | 500.                              | mg/l  | 100             |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | < 2.0              | 2.0                               | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08520                                                                                                                                                    | Dibromochloromethane           | 124-48-1   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08523                                                                                                                                                    | Tetrachloroethene              | 127-18-4   | < 1.0              | 1.0                               | ug/l  | 1               |



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
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Lancaster Laboratories Sample No. WW 3749347

Collected: 12/19/2001 10:45 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:57

Discard: 01/17/2002

NMB008:AW-1L:G121901 Grab Water Sample

NMB008 - IMC Magnetism - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

AW-1L SDG#: HUL03-08

| CAT No. | Analysis Name             | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 08526   | Chlorobenzene             | 108-90-7   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08527   | Bromoform                 | 75-25-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08528   | 1,1,2,2-Tetrachloroethane | 79-34-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08533   | 1,3-Dichlorobenzene (m)   | 541-73-1   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08534   | 1,4-Dichlorobenzene (p)   | 106-46-7   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08535   | 1,2-Dichlorobenzene (o)   | 95-50-1    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08541   | Benzene                   | 71-43-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08543   | Toluene                   | 108-88-3   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08545   | Ethylbenzene              | 100-41-4   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08561   | Xylene (total)            | 1330-20-7  | < 3.0              | 3.0                               | ug/l  | 1               |

## Laboratory Chronicle

| CAT No. | Analysis Name                  | Method       | Trial# | Analysis Date and Time | Analyst            | Dilution Factor |
|---------|--------------------------------|--------------|--------|------------------------|--------------------|-----------------|
| 00254   | Iron                           | SW-846 7380  | 1      | 01/08/2002 08:54       | Damary S. Valentin | 40              |
| 00212   | Total Dissolved Solids         | EPA 160.1    | 1      | 12/26/2001 09:15       | Susan A. Engle     | 1               |
| 00354   | Total Organic Carbon (Quad)    | SW-846 9060  | 1      | 01/04/2002 17:14       | Timothy M. Petree  | 25              |
| 01125   | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00       | Susan A. Engle     | 100             |
| 08404   | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 01/01/2002 04:24       | Todd T. Smythe     | 1               |
| 00820   | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43       | Denise K. Connors  | 1               |
| 01127   | GC VOA Water Prep              | SW-846 5030B | 1      | 01/01/2002 04:24       | Todd T. Smythe     | n.a.            |



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2425 New Holland Pike  
PO Box 12425  
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717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3749348

Collected: 12/19/2001 11:00 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:57

Discard: 01/17/2002

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

NMB008:AW-2U:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

AW-2U SDG#: HUL03-09

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 131.               | 4.00                              | mg/l  | 40              |
| 00212                                                                                                                                                    | Total Dissolved Solids         | n.a.       | 2,980.             | 240.                              | mg/l  | 1               |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 106.               | 20.                               | mg/l  | 10              |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | 105.3 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 107.1 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 104.6 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 105.2 mg/l         |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | 570.               | 500.                              | mg/l  | 100             |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | < 2.0              | 2.0                               | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08520                                                                                                                                                    | Dibromochloromethane           | 124-48-1   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08523                                                                                                                                                    | Tetrachloroethene              | 127-18-4   | 8.5                | 1.0                               | ug/l  | 1               |



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2425 New Holland Pike  
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Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

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Lancaster Laboratories Sample No. WW 3749348

Collected: 12/19/2001 11:00 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:57

Discard: 01/17/2002

NMB008:AW-2U:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

AW-2U SDG#: HUL03-09

| CAT   |                           |            | As Received | As Received           |       |                 |
|-------|---------------------------|------------|-------------|-----------------------|-------|-----------------|
| No.   | Analysis Name             | CAS Number | Result      | Limit of Quantitation | Units | Dilution Factor |
| 08526 | Chlorobenzene             | 108-90-7   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08527 | Bromoform                 | 75-25-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08533 | 1,3-Dichlorobenzene (m)   | 541-73-1   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08534 | 1,4-Dichlorobenzene (p)   | 106-46-7   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08535 | 1,2-Dichlorobenzene (o)   | 95-50-1    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08541 | Benzene                   | 71-43-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08543 | Toluene                   | 108-88-3   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08545 | Ethylbenzene              | 100-41-4   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08561 | Xylene (total)            | 1330-20-7  | < 3.0       | 3.0                   | ug/l  | 1               |

## Laboratory Chronicle

| CAT   |                                |              |        | Analysis         |                    | Dilution |
|-------|--------------------------------|--------------|--------|------------------|--------------------|----------|
| No.   | Analysis Name                  | Method       | Trial# | Date and Time    | Analyst            | Factor   |
| 00254 | Iron                           | SW-846 7380  | 1      | 01/08/2002 09:00 | Damary S. Valentin | 40       |
| 00212 | Total Dissolved Solids         | EPA 160.1    | 1      | 12/26/2001 09:15 | Susan A. Engle     | 1        |
| 00354 | Total Organic Carbon (Quad)    | SW-846 9060  | 1      | 01/07/2002 15:04 | Timothy M. Petree  | 10       |
| 01125 | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00 | Susan A. Engle     | 100      |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 01/01/2002 05:08 | Todd T. Smythe     | 1        |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43 | Denise K. Conners  | 1        |
| 01127 | GC VOA Water Prep              | SW-846 5030B | 1      | 01/01/2002 05:08 | Todd T. Smythe     | n.a.     |



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3749349

Collected: 12/19/2001 11:15 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:58

Discard: 01/17/2002

NMB008:AW-2L:G121901 Grab Water Sample

NMB008 - IMC Magnetics - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

AW-2L SDG#: HUL03-10

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 174.               | 4.00                              | mg/l  | 40              |
| 00212                                                                                                                                                    | Total Dissolved Solids         | n.a.       | 5,120.             | 240.                              | mg/l  | 1               |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 546.               | 50.                               | mg/l  | 25              |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | 545.6 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 543.0 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 547.4 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 547.4 mg/l         |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | 2,070.             | 500.                              | mg/l  | 100             |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | < 2.0              | 2.0                               | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08520                                                                                                                                                    | Dibromochloromethane           | 124-48-1   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08523                                                                                                                                                    | Tetrachloroethene              | 127-18-4   | 2.6                | 1.0                               | ug/l  | 1               |



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Lancaster, PA 17605-2425  
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Lancaster Laboratories Sample No. WW 3749349

Collected: 12/19/2001 11:15 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:58

Discard: 01/17/2002

NMB008:AW-2L:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

AW-2L SDG#: HUL03-10

| CAT No. | Analysis Name             | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 08526   | Chlorobenzene             | 108-90-7   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08527   | Bromoform                 | 75-25-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08528   | 1,1,2,2-Tetrachloroethane | 79-34-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08533   | 1,3-Dichlorobenzene (m)   | 541-73-1   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08534   | 1,4-Dichlorobenzene (p)   | 106-46-7   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08535   | 1,2-Dichlorobenzene (o)   | 95-50-1    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08541   | Benzene                   | 71-43-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08543   | Toluene                   | 108-88-3   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08545   | Ethylbenzene              | 100-41-4   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08561   | Xylene (total)            | 1330-20-7  | < 3.0              | 3.0                               | ug/l  | 1               |

## Laboratory Chronicle

| CAT No. | Analysis Name                  | Method       | Trial# | Analysis Date and Time | Analyst            | Dilution Factor |
|---------|--------------------------------|--------------|--------|------------------------|--------------------|-----------------|
| 00254   | Iron                           | SW-846 7380  | 1      | 01/08/2002 09:02       | Damary S. Valentin | 40              |
| 00212   | Total Dissolved Solids         | EPA 160.1    | 1      | 12/26/2001 09:15       | Susan A. Engle     | 1               |
| 00354   | Total Organic Carbon (Quad)    | SW-846 9060  | 1      | 01/04/2002 18:34       | Timothy M. Petree  | 25              |
| 01125   | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00       | Susan A. Engle     | 100             |
| 08404   | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 01/01/2002 05:51       | Todd T. Smythe     | 1               |
| 00820   | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43       | Denise K. Connors  | 1               |
| 01127   | GC VOA Water Prep              | SW-846 5030B | 1      | 01/01/2002 05:51       | Todd T. Smythe     | n.a.            |





Lancaster Laboratories Sample No. WW 3749350

Collected: 12/19/2001 11:30 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:58

Discard: 01/17/2002

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

NMB008:MW-9U:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

MW-9U SDG#: HUL03-11

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 278.               | 10.0                              | mg/l  | 100             |
| 00212                                                                                                                                                    | Total Dissolved Solids         | n.a.       | 1,370.             | 120.                              | mg/l  | 1               |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 95.                | 20.                               | mg/l  | 10              |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | 95.7 mg/l          |                                   |       |                 |
|                                                                                                                                                          |                                |            | 96.1 mg/l          |                                   |       |                 |
|                                                                                                                                                          |                                |            | 94.1 mg/l          |                                   |       |                 |
|                                                                                                                                                          |                                |            | 95.7 mg/l          |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | < 1,000.           | 1,000.                            | mg/l  | 200             |
| Due to interferences from the sample matrix, the reporting limit for the sulfate determination was increased.                                            |                                |            |                    |                                   |       |                 |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | < 2.0              | 2.0                               | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | 1.2                | 1.0                               | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | < 1.0              | 1.0                               | ug/l  | 1               |



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Lancaster Laboratories Sample No. WW 3749350

Collected: 12/19/2001 11:30 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:58

Discard: 01/17/2002

NMB008:MW-9U:G121901 Grab Water Sample

NMB008 - IMC Magnetics - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

MW-9U SDG#: HUL03-11

| CAT No. | Analysis Name             | CAS Number | As Received Result | As Received           |       | Dilution Factor |
|---------|---------------------------|------------|--------------------|-----------------------|-------|-----------------|
|         |                           |            |                    | Limit of Quantitation | Units |                 |
| 08520   | Dibromochloromethane      | 124-48-1   | < 1.0              | 1.0                   | ug/l  | 1               |
| 08523   | Tetrachloroethene         | 127-18-4   | 11.                | 1.0                   | ug/l  | 1               |
| 08526   | Chlorobenzene             | 108-90-7   | < 1.0              | 1.0                   | ug/l  | 1               |
| 08527   | Bromoform                 | 75-25-2    | < 1.0              | 1.0                   | ug/l  | 1               |
| 08528   | 1,1,2,2-Tetrachloroethane | 79-34-5    | < 1.0              | 1.0                   | ug/l  | 1               |
| 08533   | 1,3-Dichlorobenzene (m)   | 541-73-1   | < 1.0              | 1.0                   | ug/l  | 1               |
| 08534   | 1,4-Dichlorobenzene (p)   | 106-46-7   | < 1.0              | 1.0                   | ug/l  | 1               |
| 08535   | 1,2-Dichlorobenzene (o)   | 95-50-1    | < 1.0              | 1.0                   | ug/l  | 1               |
| 08541   | Benzene                   | 71-43-2    | < 1.0              | 1.0                   | ug/l  | 1               |
| 08543   | Toluene                   | 108-88-3   | < 1.0              | 1.0                   | ug/l  | 1               |
| 08545   | Ethylbenzene              | 100-41-4   | < 1.0              | 1.0                   | ug/l  | 1               |
| 08561   | Xylene (total)            | 1330-20-7  | < 3.0              | 3.0                   | ug/l  | 1               |

## Laboratory Chronicle

| CAT No. | Analysis Name                  | Method       | Analysis |                  | Analyst            | Dilution Factor |
|---------|--------------------------------|--------------|----------|------------------|--------------------|-----------------|
|         |                                |              | Trial#   | Date and Time    |                    |                 |
| 00254   | Iron                           | SW-846 7380  | 1        | 01/08/2002 09:03 | Damary S. Valentin | 100             |
| 00212   | Total Dissolved Solids         | EPA 160.1    | 1        | 12/26/2001 09:15 | Susan A. Engle     | 1               |
| 00354   | Total Organic Carbon (Quad)    | SW-846 9060  | 1        | 01/07/2002 15:52 | Timothy M. Petree  | 10              |
| 01125   | Sulfate (turbidimetric)        | EPA 375.4    | 1        | 01/02/2002 09:00 | Susan A. Engle     | 200             |
| 08404   | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1        | 01/02/2002 03:38 | Todd T. Smythe     | 1               |
| 00820   | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1        | 01/03/2002 08:43 | Denise K. Connors  | 1               |
| 01127   | GC VOA Water Prep              | SW-846 5030B | 1        | 01/02/2002 03:38 | Todd T. Smythe     | n.a.            |



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PO Box 12425  
Lancaster, PA 17605-2425  
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Lancaster Laboratories Sample No. WW 3749351

Collected: 12/19/2001 11:45 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:58

Discard: 01/17/2002

NMB008:MW-9L:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

MW-9L SDG#: HUL03-12

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 1.54               | 0.100                             | mg/l  | 1               |
| 00212                                                                                                                                                    | Total Dissolved Solids         | n.a.       | 440.               | 30.                               | mg/l  | 1               |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 12.1               | 2.0                               | mg/l  | 1               |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | 13.1 mg/l          |                                   |       |                 |
|                                                                                                                                                          |                                |            | 11.5 mg/l          |                                   |       |                 |
|                                                                                                                                                          |                                |            | 11.3 mg/l          |                                   |       |                 |
|                                                                                                                                                          |                                |            | 12.4 mg/l          |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | 166.               | 50.                               | mg/l  | 10              |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | < 2.0              | 2.0                               | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | 1.0                | 1.0                               | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08520                                                                                                                                                    | Dibromochloromethane           | 124-48-1   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08523                                                                                                                                                    | Tetrachloroethene              | 127-18-4   | 18.                | 1.0                               | ug/l  | 1               |



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2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3749351

Collected: 12/19/2001 11:45 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Hull & Associates

Reported: 01/09/2002 at 20:58

6130 Wilcox Rd.

Discard: 01/17/2002

Dublin OH 43016

NMB008:MW-9L:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

MW-9L SDG#: HUL03-12

| CAT   |                           |            | As Received | As Received           |       |                 |
|-------|---------------------------|------------|-------------|-----------------------|-------|-----------------|
| No.   | Analysis Name             | CAS Number | Result      | Limit of Quantitation | Units | Dilution Factor |
| 08526 | Chlorobenzene             | 108-90-7   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08527 | Bromoform                 | 75-25-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08533 | 1,3-Dichlorobenzene (m)   | 541-73-1   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08534 | 1,4-Dichlorobenzene (p)   | 106-46-7   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08535 | 1,2-Dichlorobenzene (o)   | 95-50-1    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08541 | Benzene                   | 71-43-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08543 | Toluene                   | 108-88-3   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08545 | Ethylbenzene              | 100-41-4   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08561 | Xylene (total)            | 1330-20-7  | < 3.0       | 3.0                   | ug/l  | 1               |

## Laboratory Chronicle

| CAT   |                                |              |        | Analysis         |                    |                 |
|-------|--------------------------------|--------------|--------|------------------|--------------------|-----------------|
| No.   | Analysis Name                  | Method       | Trial# | Date and Time    | Analyst            | Dilution Factor |
| 00254 | Iron                           | SW-846 7380  | 1      | 01/08/2002 09:03 | Damary S. Valentin | 1               |
| 00212 | Total Dissolved Solids         | EPA 160.1    | 1      | 12/26/2001 09:15 | Susan A. Engle     | 1               |
| 00354 | Total Organic Carbon (Quad)    | SW-846 9060  | 1      | 01/07/2002 16:25 | Timothy M. Petree  | 1               |
| 01125 | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00 | Susan A. Engle     | 10              |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 01/02/2002 04:21 | Todd T. Smythe     | 1               |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43 | Denise K. Conners  | 1               |
| 01127 | GC VOA Water Prep              | SW-846 5030B | 1      | 01/02/2002 04:21 | Todd T. Smythe     | n.a.            |



Lancaster Laboratories Sample No. WW 3749352

Collected: 12/19/2001 12:00 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:58

Discard: 01/17/2002

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

NMB008:MW-10U:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

MW10U SDG#: HUL03-13

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 79.6               | 4.00                              | mg/l  | 40              |
| 00212                                                                                                                                                    | Total Dissolved Solids         | n.a.       | 915.               | 60.                               | mg/l  | 1               |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 11.5               | 2.0                               | mg/l  | 1               |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | 15.9 mg/l          |                                   |       |                 |
|                                                                                                                                                          |                                |            | 9.0 mg/l           |                                   |       |                 |
|                                                                                                                                                          |                                |            | 9.5 mg/l           |                                   |       |                 |
|                                                                                                                                                          |                                |            | 11.6 mg/l          |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | < 1,000.           | 1,000.                            | mg/l  | 200             |
| Due to interferences from the sample matrix, the reporting limit for the sulfate determination was increased.                                            |                                |            |                    |                                   |       |                 |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | < 2.0              | 2.0                               | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | 2.6                | 1.0                               | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | < 1.0              | 1.0                               | ug/l  | 1               |



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Lancaster Laboratories Sample No. WW 3749352

Collected: 12/19/2001 12:00 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:58

Discard: 01/17/2002

NMB008:MW-10U:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

MW10U SDG#: HUL03-13

| CAT   |                           |            | As Received | As Received           |       |                 |
|-------|---------------------------|------------|-------------|-----------------------|-------|-----------------|
| No.   | Analysis Name             | CAS Number | Result      | Limit of Quantitation | Units | Dilution Factor |
| 08520 | Dibromochloromethane      | 124-48-1   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08523 | Tetrachloroethene         | 127-18-4   | 83.         | 10.                   | ug/l  | 10              |
| 08526 | Chlorobenzene             | 108-90-7   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08527 | Bromoform                 | 75-25-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08533 | 1,3-Dichlorobenzene (m)   | 541-73-1   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08534 | 1,4-Dichlorobenzene (p)   | 106-46-7   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08535 | 1,2-Dichlorobenzene (o)   | 95-50-1    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08541 | Benzene                   | 71-43-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08543 | Toluene                   | 108-88-3   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08545 | Ethylbenzene              | 100-41-4   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08561 | Xylene (total)            | 1330-20-7  | < 3.0       | 3.0                   | ug/l  | 1               |

## Laboratory Chronicle

| CAT   |                                |              |        | Analysis         |                    | Dilution |
|-------|--------------------------------|--------------|--------|------------------|--------------------|----------|
| No.   | Analysis Name                  | Method       | Trial# | Date and Time    | Analyst            | Factor   |
| 00254 | Iron                           | SW-846 7380  | 1      | 01/08/2002 09:04 | Damary S. Valentin | 40       |
| 00212 | Total Dissolved Solids         | EPA 160.1    | 1      | 12/26/2001 09:15 | Susan A. Engle     | 1        |
| 00354 | Total Organic Carbon (Quad)    | SW-846 9060  | 1      | 01/07/2002 17:13 | Timothy M. Petree  | 1        |
| 01125 | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00 | Susan A. Engle     | 200      |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 01/02/2002 05:08 | Todd T. Smythe     | 1        |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 01/02/2002 06:38 | Todd T. Smythe     | 10       |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43 | Denise K. Connors  | 1        |
| 01127 | GC VOA Water Prep              | SW-846 5030B | 1      | 01/02/2002 05:08 | Todd T. Smythe     | n.a.     |



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717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3749353

Collected: 12/19/2001 12:15 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:58

Discard: 01/17/2002

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

NMB008:MW-10L:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

MW10L SDG#: HUL03-14

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 62.9               | 4.00                              | mg/l  | 40              |
| 00212                                                                                                                                                    | Total Dissolved Solids         | n.a.       | 2,530.             | 240.                              | mg/l  | 1               |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 277.               | 50.                               | mg/l  | 25              |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | 273.4 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 278.4 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 278.2 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 277.2 mg/l         |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | 1,130.             | 500.                              | mg/l  | 100             |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | < 2.0              | 2.0                               | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08520                                                                                                                                                    | Dibromochloromethane           | 124-48-1   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08523                                                                                                                                                    | Tetrachloroethene              | 127-18-4   | 9.2                | 1.0                               | ug/l  | 1               |



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Lancaster Laboratories Sample No. WW 3749353

Collected: 12/19/2001 12:15 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:58

Discard: 01/17/2002

NMB008: MW-10L: G121901 Grab Water Sample

NMB008 - IMC Magnetics - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

MW10L SDG#: HUL03-14

| CAT No. | Analysis Name             | CAS Number | As Received Result | As Received           |       | Dilution Factor |
|---------|---------------------------|------------|--------------------|-----------------------|-------|-----------------|
|         |                           |            |                    | Limit of Quantitation | Units |                 |
| 08526   | Chlorobenzene             | 108-90-7   | < 1.0              | 1.0                   | ug/l  | 1               |
| 08527   | Bromoform                 | 75-25-2    | < 1.0              | 1.0                   | ug/l  | 1               |
| 08528   | 1,1,2,2-Tetrachloroethane | 79-34-5    | < 1.0              | 1.0                   | ug/l  | 1               |
| 08533   | 1,3-Dichlorobenzene (m)   | 541-73-1   | < 1.0              | 1.0                   | ug/l  | 1               |
| 08534   | 1,4-Dichlorobenzene (p)   | 106-46-7   | < 1.0              | 1.0                   | ug/l  | 1               |
| 08535   | 1,2-Dichlorobenzene (o)   | 95-50-1    | < 1.0              | 1.0                   | ug/l  | 1               |
| 08541   | Benzene                   | 71-43-2    | < 1.0              | 1.0                   | ug/l  | 1               |
| 08543   | Toluene                   | 108-88-3   | < 1.0              | 1.0                   | ug/l  | 1               |
| 08545   | Ethylbenzene              | 100-41-4   | < 1.0              | 1.0                   | ug/l  | 1               |
| 08561   | Xylene (total)            | 1330-20-7  | < 3.0              | 3.0                   | ug/l  | 1               |

## Laboratory Chronicle

| CAT No. | Analysis Name                  | Method       | Trial# | Analysis         |  | Analyst            | Dilution Factor |
|---------|--------------------------------|--------------|--------|------------------|--|--------------------|-----------------|
|         |                                |              |        | Date and Time    |  |                    |                 |
| 00254   | Iron                           | SW-846 7380  | 1      | 01/08/2002 09:05 |  | Damary S. Valentin | 40              |
| 00212   | Total Dissolved Solids         | EPA 160.1    | 1      | 12/26/2001 09:15 |  | Susan A. Engle     | 1               |
| 00354   | Total Organic Carbon (Quad)    | SW-846 9060  | 1      | 01/04/2002 21:16 |  | Timothy M. Petree  | 25              |
| 01125   | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00 |  | Susan A. Engle     | 100             |
| 08404   | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 01/02/2002 05:51 |  | Todd T. Smythe     | 1               |
| 00820   | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43 |  | Denise K. Connors  | 1               |
| 01127   | GC VOA Water Prep              | SW-846 5030B | 1      | 01/02/2002 05:51 |  | Todd T. Smythe     | n.a.            |





Lancaster Laboratories Sample No. WW 3749354

Collected: 12/19/2001 12:30 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:58

Discard: 01/17/2002

NMB008:MW-5U:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

MW-5U SDG#: HUL03-15

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 253.               | 10.0                              | mg/l  | 100             |
| 00212                                                                                                                                                    | Total Dissolved Solids         | n.a.       | 247.               | 30.                               | mg/l  | 1               |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 3.3                | 2.0                               | mg/l  | 1               |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | 3.3 mg/l           |                                   |       |                 |
|                                                                                                                                                          |                                |            | 3.4 mg/l           |                                   |       |                 |
|                                                                                                                                                          |                                |            | 3.2 mg/l           |                                   |       |                 |
|                                                                                                                                                          |                                |            | 3.1 mg/l           |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | < 500.             | 500.                              | mg/l  | 100             |
| Due to interferences from the sample matrix, the reporting limit for the sulfate determination was increased.                                            |                                |            |                    |                                   |       |                 |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | < 20.              | 20.                               | ug/l  | 10              |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | < 50.              | 50.                               | ug/l  | 10              |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | < 10.              | 10.                               | ug/l  | 10              |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | < 50.              | 50.                               | ug/l  | 10              |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | < 10.              | 10.                               | ug/l  | 10              |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | < 10.              | 10.                               | ug/l  | 10              |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | < 10.              | 10.                               | ug/l  | 10              |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | < 10.              | 10.                               | ug/l  | 10              |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | < 10.              | 10.                               | ug/l  | 10              |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | < 10.              | 10.                               | ug/l  | 10              |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | < 10.              | 10.                               | ug/l  | 10              |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | < 10.              | 10.                               | ug/l  | 10              |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | < 10.              | 10.                               | ug/l  | 10              |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | < 10.              | 10.                               | ug/l  | 10              |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | < 10.              | 10.                               | ug/l  | 10              |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | < 10.              | 10.                               | ug/l  | 10              |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | 11.                | 10.                               | ug/l  | 10              |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | < 10.              | 10.                               | ug/l  | 10              |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | < 10.              | 10.                               | ug/l  | 10              |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | < 10.              | 10.                               | ug/l  | 10              |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | < 10.              | 10.                               | ug/l  | 10              |



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717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3749354

Collected: 12/19/2001 12:30 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Hull & Associates

Reported: 01/09/2002 at 20:58

6130 Wilcox Rd.

Discard: 01/17/2002

Dublin OH 43016

NMB008:MW-5U:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

MW-5U SDG#: HUL03-15

| CAT No. | Analysis Name             | CAS Number | As Received Result | As Received           |       | Dilution Factor |
|---------|---------------------------|------------|--------------------|-----------------------|-------|-----------------|
|         |                           |            |                    | Limit of Quantitation | Units |                 |
| 08520   | Dibromochloromethane      | 124-48-1   | < 10.              | 10.                   | ug/l  | 10              |
| 08523   | Tetrachloroethene         | 127-18-4   | 310.               | 10.                   | ug/l  | 10              |
| 08526   | Chlorobenzene             | 108-90-7   | < 10.              | 10.                   | ug/l  | 10              |
| 08527   | Bromoform                 | 75-25-2    | < 10.              | 10.                   | ug/l  | 10              |
| 08528   | 1,1,2,2-Tetrachloroethane | 79-34-5    | < 10.              | 10.                   | ug/l  | 10              |
| 08533   | 1,3-Dichlorobenzene (m)   | 541-73-1   | < 10.              | 10.                   | ug/l  | 10              |
| 08534   | 1,4-Dichlorobenzene (p)   | 106-46-7   | < 10.              | 10.                   | ug/l  | 10              |
| 08535   | 1,2-Dichlorobenzene (o)   | 95-50-1    | < 10.              | 10.                   | ug/l  | 10              |
| 08541   | Benzene                   | 71-43-2    | < 10.              | 10.                   | ug/l  | 10              |
| 08543   | Toluene                   | 108-88-3   | < 10.              | 10.                   | ug/l  | 10              |
| 08545   | Ethylbenzene              | 100-41-4   | < 10.              | 10.                   | ug/l  | 10              |
| 08561   | Xylene (total)            | 1330-20-7  | < 30.              | 30.                   | ug/l  | 10              |

Due to dilution of the sample made necessary by the high level of tetrachloroethene, normal reporting limits were not attained.

## Laboratory Chronicle

| CAT No. | Analysis Name                  | Method       | Trial# | Analysis         |  | Analyst            | Dilution Factor |
|---------|--------------------------------|--------------|--------|------------------|--|--------------------|-----------------|
|         |                                |              |        | Date and Time    |  |                    |                 |
| 00254   | Iron                           | SW-846 7380  | 1      | 01/08/2002 09:06 |  | Damary S. Valentin | 100             |
| 00212   | Total Dissolved Solids         | EPA 160.1    | 1      | 12/26/2001 09:15 |  | Susan A. Engle     | 1               |
| 00354   | Total Organic Carbon (Quad)    | SW-846 9060  | 1      | 01/07/2002 17:46 |  | Timothy M. Petree  | 1               |
| 01125   | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00 |  | Susan A. Engle     | 100             |
| 08404   | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 01/02/2002 08:47 |  | Todd T. Smythe     | 10              |
| 00820   | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43 |  | Denise K. Connors  | 1               |
| 01127   | GC VOA Water Prep              | SW-846 5030B | 1      | 01/02/2002 08:47 |  | Todd T. Smythe     | n.a.            |



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Lancaster Laboratories Sample No. WW 3749355

Collected: 12/19/2001 12:45 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:58

Discard: 01/17/2002

NMB008:MW-5M:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

MW-5M SDG#: HUL03-16

| CAT                                                                                                                                                      |                                |            | As Received | As Received           |       |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|-------------|-----------------------|-------|-----------------|
| No.                                                                                                                                                      | Analysis Name                  | CAS Number | Result      | Limit of Quantitation | Units | Dilution Factor |
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 8.70        | 1.00                  | mg/l  | 10              |
| 00212                                                                                                                                                    | Total Dissolved Solids         | n.a.       | 156.        | 30.                   | mg/l  | 1               |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 2.3         | 2.0                   | mg/l  | 1               |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |             |                       |       |                 |
|                                                                                                                                                          |                                |            | 2.4 mg/l    |                       |       |                 |
|                                                                                                                                                          |                                |            | 2.3 mg/l    |                       |       |                 |
|                                                                                                                                                          |                                |            | 1.9 mg/l    |                       |       |                 |
|                                                                                                                                                          |                                |            | 2.4 mg/l    |                       |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | 22.         | 10.                   | mg/l  | 2               |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |             |                       |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | < 2.0       | 2.0                   | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | < 5.0       | 5.0                   | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | < 5.0       | 5.0                   | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | 1.8         | 1.0                   | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | 8.4         | 1.0                   | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | < 1.0       | 1.0                   | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | < 1.0       | 1.0                   | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08520                                                                                                                                                    | Dibromochloromethane           | 124-48-1   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08523                                                                                                                                                    | Tetrachloroethene              | 127-18-4   | 1.7         | 1.0                   | ug/l  | 1               |



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2425 New Holland Pike  
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Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3749355

Collected: 12/19/2001 12:45 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Hull & Associates

Reported: 01/09/2002 at 20:58

6130 Wilcox Rd.

Discard: 01/17/2002

Dublin OH 43016

NMB008:MW-5M:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

MW-5M SDG#: HUL03-16

| CAT   |                           |            | As Received | As Received           |       |                 |
|-------|---------------------------|------------|-------------|-----------------------|-------|-----------------|
| No.   | Analysis Name             | CAS Number | Result      | Limit of Quantitation | Units | Dilution Factor |
| 08526 | Chlorobenzene             | 108-90-7   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08527 | Bromoform                 | 75-25-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08533 | 1,3-Dichlorobenzene (m)   | 541-73-1   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08534 | 1,4-Dichlorobenzene (p)   | 106-46-7   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08535 | 1,2-Dichlorobenzene (o)   | 95-50-1    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08541 | Benzene                   | 71-43-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08543 | Toluene                   | 108-88-3   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08545 | Ethylbenzene              | 100-41-4   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08561 | Xylene (total)            | 1330-20-7  | < 3.0       | 3.0                   | ug/l  | 1               |

## Laboratory Chronicle

| CAT   |                                |              |        | Analysis         |                    |                 |
|-------|--------------------------------|--------------|--------|------------------|--------------------|-----------------|
| No.   | Analysis Name                  | Method       | Trial# | Date and Time    | Analyst            | Dilution Factor |
| 00254 | Iron                           | SW-846 7380  | 1      | 01/08/2002 09:09 | Damary S. Valentin | 10              |
| 00212 | Total Dissolved Solids         | EPA 160.1    | 1      | 12/26/2001 09:15 | Susan A. Engle     | 1               |
| 00354 | Total Organic Carbon (Quad)    | SW-846 9060  | 1      | 01/07/2002 18:34 | Timothy M. Petree  | 1               |
| 01125 | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00 | Susan A. Engle     | 2               |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 01/02/2002 07:21 | Todd T. Smythe     | 1               |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43 | Denise K. Conners  | 1               |
| 01127 | GC VOA Water Prep              | SW-846 5030B | 1      | 01/02/2002 07:21 | Todd T. Smythe     | n.a.            |



Lancaster Laboratories Sample No. WW 3749356

Collected: 12/19/2001 13:00 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Reported: 01/09/2002 at 20:59

Discard: 01/17/2002

NMB008:MW-5L:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

Hull & Associates

6130 Wilcox Rd.

Dublin OH 43016

MW-5L SDG#: HUL03-17

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 0.821              | 0.100                             | mg/l  | 1               |
| 00212                                                                                                                                                    | Total Dissolved Solids         | n.a.       | 188.               | 30.                               | mg/l  | 1               |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | < 2.0              | 2.0                               | mg/l  | 1               |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | .9 mg/l            |                                   |       |                 |
|                                                                                                                                                          |                                |            | 1.6 mg/l           |                                   |       |                 |
|                                                                                                                                                          |                                |            | 1.0 mg/l           |                                   |       |                 |
|                                                                                                                                                          |                                |            | 1.7 mg/l           |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | 31.                | 10.                               | mg/l  | 2               |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | < 2.0              | 2.0                               | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | < 5.0              | 5.0                               | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | 5.3                | 1.0                               | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | 1.9                | 1.0                               | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | 21.                | 1.0                               | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | < 1.0              | 1.0                               | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | < 1.0              | 1.0                               | ug/l  | 1               |
| 08520                                                                                                                                                    | Dibromochloromethane           | 124-48-1   | < 1.0              | 1.0                               | ug/l  | 1               |
| 08523                                                                                                                                                    | Tetrachloroethene              | 127-18-4   | 1.4                | 1.0                               | ug/l  | 1               |



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2425 New Holland Pike  
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Lancaster Laboratories Sample No. WW 3749356

Collected: 12/19/2001 13:00 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Hull & Associates

Reported: 01/09/2002 at 20:59

6130 Wilcox Rd.

Discard: 01/17/2002

Dublin OH 43016

NMB008:MW-5L:G121901 Grab Water Sample

NMB008 - IMC Magnetix - NY

MW-5L SDG#: HUL03-17

| CAT   |                           |            | As Received | As Received           |       |                 |
|-------|---------------------------|------------|-------------|-----------------------|-------|-----------------|
| No.   | Analysis Name             | CAS Number | Result      | Limit of Quantitation | Units | Dilution Factor |
| 08526 | Chlorobenzene             | 108-90-7   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08527 | Bromoform                 | 75-25-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08533 | 1,3-Dichlorobenzene (m)   | 541-73-1   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08534 | 1,4-Dichlorobenzene (p)   | 106-46-7   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08535 | 1,2-Dichlorobenzene (o)   | 95-50-1    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08541 | Benzene                   | 71-43-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08543 | Toluene                   | 108-88-3   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08545 | Ethylbenzene              | 100-41-4   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08561 | Xylene (total)            | 1330-20-7  | < 3.0       | 3.0                   | ug/l  | 1               |

## Laboratory Chronicle

| CAT   |                                |              |        | Analysis         |                    |                 |
|-------|--------------------------------|--------------|--------|------------------|--------------------|-----------------|
| No.   | Analysis Name                  | Method       | Trial# | Date and Time    | Analyst            | Dilution Factor |
| 00254 | Iron                           | SW-846 7380  | 1      | 01/08/2002 09:10 | Damary S. Valentin | 1               |
| 00212 | Total Dissolved Solids         | EPA 160.1    | 1      | 12/26/2001 09:15 | Susan A. Engle     | 1               |
| 00354 | Total Organic Carbon (Quad)    | SW-846 9060  | 1      | 01/07/2002 19:06 | Timothy M. Petree  | 1               |
| 01125 | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00 | Susan A. Engle     | 2               |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 01/02/2002 08:04 | Todd T. Smythe     | 1               |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43 | Denise K. Conners  | 1               |
| 01127 | GC VOA Water Prep              | SW-846 5030B | 1      | 01/02/2002 08:04 | Todd T. Smythe     | n.a.            |



Lancaster Laboratories Sample No. WW 3749357

Collected: 12/19/2001 13:30 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20

Hull &amp; Associates

Reported: 01/09/2002 at 20:59

6130 Wilcox Rd.

Discard: 01/17/2002

Dublin OH 43016

FieldBlank Grab Water Sample

NMB008 - IMC Magnetics - NY

FIELD SDG#: HUL03-18FB\*

| CAT                                                                                                                                                      |                                |            | As Received | As Received           |       |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|-------------|-----------------------|-------|-----------------|
| No.                                                                                                                                                      | Analysis Name                  | CAS Number | Result      | Limit of Quantitation | Units | Dilution Factor |
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | < 0.100     | 0.100                 | mg/l  | 1               |
| 00212                                                                                                                                                    | Total Dissolved Solids         | n.a.       | < 30.       | 30.                   | mg/l  | 1               |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | < 2.0       | 2.0                   | mg/l  | 1               |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |             |                       |       |                 |
|                                                                                                                                                          |                                |            | .6 mg/l     |                       |       |                 |
|                                                                                                                                                          |                                |            | .5 mg/l     |                       |       |                 |
|                                                                                                                                                          |                                |            | .5 mg/l     |                       |       |                 |
|                                                                                                                                                          |                                |            | .4 mg/l     |                       |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | < 5.0       | 5.0                   | mg/l  | 1               |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |             |                       |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | < 2.0       | 2.0                   | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | < 5.0       | 5.0                   | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | < 5.0       | 5.0                   | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | < 1.0       | 1.0                   | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | < 1.0       | 1.0                   | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08520                                                                                                                                                    | Dibromochloromethane           | 124-48-1   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08523                                                                                                                                                    | Tetrachloroethene              | 127-18-4   | < 1.0       | 1.0                   | ug/l  | 1               |



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 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3749357

Collected: 12/19/2001 13:30 by PG

Account Number: 10062

Submitted: 12/21/2001 09:20  
 Reported: 01/09/2002 at 20:59  
 Discard: 01/17/2002  
 FieldBlank Grab Water Sample  
 NMB008 - IMC Magnetix - NY

Hull & Associates  
 6130 Wilcox Rd.  
 Dublin OH 43016

FIELD SDG#: HUL03-18FB\*

| CAT   |                           |            | As Received | As Received           |       |                 |
|-------|---------------------------|------------|-------------|-----------------------|-------|-----------------|
| No.   | Analysis Name             | CAS Number | Result      | Limit of Quantitation | Units | Dilution Factor |
| 08526 | Chlorobenzene             | 108-90-7   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08527 | Bromoform                 | 75-25-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08533 | 1,3-Dichlorobenzene (m)   | 541-73-1   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08534 | 1,4-Dichlorobenzene (p)   | 106-46-7   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08535 | 1,2-Dichlorobenzene (o)   | 95-50-1    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08541 | Benzene                   | 71-43-2    | < 1.0       | 1.0                   | ug/l  | 1               |
| 08543 | Toluene                   | 108-88-3   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08545 | Ethylbenzene              | 100-41-4   | < 1.0       | 1.0                   | ug/l  | 1               |
| 08561 | Xylene (total)            | 1330-20-7  | < 3.0       | 3.0                   | ug/l  | 1               |

## Laboratory Chronicle

| CAT   |                                |              |        | Analysis         |                    | Dilution |
|-------|--------------------------------|--------------|--------|------------------|--------------------|----------|
| No.   | Analysis Name                  | Method       | Trial# | Date and Time    | Analyst            | Factor   |
| 00254 | Iron                           | SW-846 7380  | 1      | 01/08/2002 09:11 | Damary S. Valentin | 1        |
| 00212 | Total Dissolved Solids         | EPA 160.1    | 1      | 12/26/2001 09:15 | Susan A. Engle     | 1        |
| 00354 | Total Organic Carbon (Quad)    | SW-846 9060  | 1      | 01/05/2002 00:14 | Timothy M. Petree  | 1        |
| 01125 | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00 | Susan A. Engle     | 1        |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 12/31/2001 23:21 | Todd T. Smythe     | 1        |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43 | Denise K. Conners  | 1        |
| 01127 | GC VOA Water Prep              | SW-846 5030B | 1      | 12/31/2001 23:21 | Todd T. Smythe     | n.a.     |





## ANALYTICAL RESULTS

Prepared for:

Hull & Associates  
6130 Wilcox Rd.  
Dublin OH 43016

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

## SAMPLE GROUP

The sample group for this submittal is 791585. Samples arrived at the laboratory on Thursday, December 27, 2001.

### Client Description

NMB008:AW-1U:G121901A/B Matrix Spike Grab Water  
NMB008:AW-1U:G121901A/B Matrix Spike Dup/Dup Grab

### Lancaster Labs Number

3750934  
3750935

## METHODOLOGY

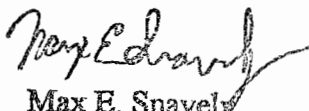
The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Hull & Associates  
1 COPY TO Data Package Group

Attn: Mr. Bill Dennis

Questions? Contact your Client Services Representative  
Marianne L Bragg at (717) 656-2300.

Respectfully Submitted,

  
Max E. Snavey  
Sr. Chemist



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
PO Box 12425  
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2216



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Lancaster Laboratories Sample No. WW 3750934

Collected: 12/19/2001 10:15 by PG

Account Number: 10062

Submitted: 12/27/2001 11:15

Reported: 02/18/2002 at 14:22

Discard: 02/26/2002

Hull &amp; Associates

6130 Wilcox Rd.

Dublin OH 43016

NMB008:AW-1U:G121901A/B Matrix Spike Grab Water Sample

IMC Magnetix - NY

AWA1U SDG#: HUL03-06MS

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 113.               | 4.00                              | mg/l  | 40              |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 681.               | 50.                               | mg/l  | 25              |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | 679.7 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 682.2 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 679.2 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 682.7 mg/l         |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | 5,600.             | 1,000.                            | mg/l  | 200             |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | 24.                | 2.0                               | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | 14.                | 5.0                               | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | 19.                | 1.0                               | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | 18.                | 5.0                               | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | 18.                | 1.0                               | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | 19.                | 1.0                               | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | 22.                | 1.0                               | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | 19.                | 1.0                               | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | 16.                | 1.0                               | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | 20.                | 1.0                               | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | 20.                | 1.0                               | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | 20.                | 1.0                               | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | 21.                | 1.0                               | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | 20.                | 1.0                               | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | 20.                | 1.0                               | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | 20.                | 1.0                               | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | 20.                | 1.0                               | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | 19.                | 1.0                               | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | 19.                | 1.0                               | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | 18.                | 1.0                               | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | 20.                | 1.0                               | ug/l  | 1               |
| 08520                                                                                                                                                    | Dibromochloromethane           | 124-48-1   | 21.                | 1.0                               | ug/l  | 1               |
| 08523                                                                                                                                                    | Tetrachloroethene              | 127-18-4   | 20.                | 1.0                               | ug/l  | 1               |
| 08526                                                                                                                                                    | Chlorobenzene                  | 108-90-7   | 19.                | 1.0                               | ug/l  | 1               |



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Lancaster Laboratories Sample No. WW 3750934

Collected: 12/19/2001 10:15 by PG

Account Number: 10062

Submitted: 12/27/2001 11:15

Reported: 02/18/2002 at 14:22

Discard: 02/26/2002

Hull &amp; Associates

6130 Wilcox Rd.

Dublin OH 43016

NMB008:AW-1U:G121901A/B Matrix Spike Grab Water Sample

IMC Magnetix - NY

AWA1U SDG#: HUL03-06MS

| CAT No. | Analysis Name             | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 08527   | Bromoform                 | 75-25-2    | 22.                | 1.0                               | ug/l  | 1               |
| 08528   | 1,1,2,2-Tetrachloroethane | 79-34-5    | 21.                | 1.0                               | ug/l  | 1               |
| 08533   | 1,3-Dichlorobenzene (m)   | 541-73-1   | 20.                | 1.0                               | ug/l  | 1               |
| 08534   | 1,4-Dichlorobenzene (p)   | 106-46-7   | 19.                | 1.0                               | ug/l  | 1               |
| 08535   | 1,2-Dichlorobenzene (o)   | 95-50-1    | 20.                | 1.0                               | ug/l  | 1               |
| 08541   | Benzene                   | 71-43-2    | 20.                | 1.0                               | ug/l  | 1               |
| 08543   | Toluene                   | 108-88-3   | 19.                | 1.0                               | ug/l  | 1               |
| 08545   | Ethylbenzene              | 100-41-4   | 19.                | 1.0                               | ug/l  | 1               |
| 08561   | Xylene (total)            | 1330-20-7  | 59.                | 3.0                               | ug/l  | 1               |

## Laboratory Chronicle

| CAT No. | Analysis Name                  | Method       | Trial# | Analysis Date and Time | Analyst          | Dilution Factor |
|---------|--------------------------------|--------------|--------|------------------------|------------------|-----------------|
| 00254   | Iron                           | SW-846 7380  | 1      | 01/08/2002 08:35       | Damary Valentin  | 40              |
| 00354   | Total Organic Carbon (Quad)    | SW-846 9060  | 1      | 01/04/2002 15:20       | Timothy M Petree | 25              |
| 01125   | Sulfate (turbidimetric)        | EPA 375.4    | 1      | 01/02/2002 09:00       | Susan A Engle    | 200             |
| 08404   | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1      | 12/31/2001 17:54       | Todd T Smythe    | 1               |
| 00820   | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1      | 01/03/2002 08:43       | Denise K Connors | 1               |
| 01127   | GC VOA Water Prep              | SW-846 5030B | 1      | 12/31/2001 17:54       | Todd T Smythe    | n.a.            |



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Lancaster Laboratories Sample No. WW 3750935

Collected: 12/19/2001 10:15 by PG

Account Number: 10062

through 12/19/2001 10:30

Submitted: 12/27/2001 11:15

Hull &amp; Associates

Reported: 02/18/2002 at 14:22

6130 Wilcox Rd.

Discard: 02/26/2002

Dublin OH 43016

NMB008:AW-1U:G121901A/B Matrix Spike Dup/Dup Grab

Water Sample

IMC Magnetix - NY

AWA1U SDG#: HUL03-06MSD

| CAT No.                                                                                                                                                  | Analysis Name                  | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------------|-----------------------------------|-------|-----------------|
| 00254                                                                                                                                                    | Iron                           | 7439-89-6  | 113.               | 4.00                              | mg/l  | 40              |
| 00354                                                                                                                                                    | Total Organic Carbon (Quad)    | n.a.       | 665.               | 50.                               | mg/l  | 25              |
| EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: |                                |            |                    |                                   |       |                 |
|                                                                                                                                                          |                                |            | 662.2 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 670.0 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 660.1 mg/l         |                                   |       |                 |
|                                                                                                                                                          |                                |            | 668.6 mg/l         |                                   |       |                 |
| 01125                                                                                                                                                    | Sulfate (turbidimetric)        | 14808-79-8 | 5,700.             | 1,000.                            | mg/l  | 200             |
| 08404                                                                                                                                                    | Halocarbons/Aromatics by SW846 |            |                    |                                   |       |                 |
| 08483                                                                                                                                                    | Dichlorodifluoromethane        | 75-71-8    | 21.                | 2.0                               | ug/l  | 1               |
| 08484                                                                                                                                                    | Chloromethane                  | 74-87-3    | 13.                | 5.0                               | ug/l  | 1               |
| 08485                                                                                                                                                    | Vinyl Chloride                 | 75-01-4    | 17.                | 1.0                               | ug/l  | 1               |
| 08487                                                                                                                                                    | Bromomethane                   | 74-83-9    | 18.                | 5.0                               | ug/l  | 1               |
| 08488                                                                                                                                                    | Chloroethane                   | 75-00-3    | 18.                | 1.0                               | ug/l  | 1               |
| 08489                                                                                                                                                    | Trichlorofluoromethane         | 75-69-4    | 16.                | 1.0                               | ug/l  | 1               |
| 08490                                                                                                                                                    | 1,1-Dichloroethene             | 75-35-4    | 21.                | 1.0                               | ug/l  | 1               |
| 08492                                                                                                                                                    | Methylene Chloride             | 75-09-2    | 18.                | 1.0                               | ug/l  | 1               |
| 08494                                                                                                                                                    | trans-1,2-Dichloroethene       | 156-60-5   | 16.                | 1.0                               | ug/l  | 1               |
| 08496                                                                                                                                                    | 1,1-Dichloroethane             | 75-34-3    | 21.                | 1.0                               | ug/l  | 1               |
| 08498                                                                                                                                                    | cis-1,2-Dichloroethene         | 156-59-2   | 21.                | 1.0                               | ug/l  | 1               |
| 08502                                                                                                                                                    | Chloroform                     | 67-66-3    | 20.                | 1.0                               | ug/l  | 1               |
| 08504                                                                                                                                                    | 1,2-Dichloroethane             | 107-06-2   | 21.                | 1.0                               | ug/l  | 1               |
| 08506                                                                                                                                                    | 1,1,1-Trichloroethane          | 71-55-6    | 20.                | 1.0                               | ug/l  | 1               |
| 08509                                                                                                                                                    | Carbon Tetrachloride           | 56-23-5    | 20.                | 1.0                               | ug/l  | 1               |
| 08511                                                                                                                                                    | 1,2-Dichloropropane            | 78-87-5    | 20.                | 1.0                               | ug/l  | 1               |
| 08512                                                                                                                                                    | Trichloroethene                | 79-01-6    | 20.                | 1.0                               | ug/l  | 1               |
| 08514                                                                                                                                                    | Bromodichloromethane           | 75-27-4    | 19.                | 1.0                               | ug/l  | 1               |
| 08516                                                                                                                                                    | cis-1,3-Dichloropropene        | 10061-01-5 | 20.                | 1.0                               | ug/l  | 1               |
| 08517                                                                                                                                                    | trans-1,3-Dichloropropene      | 10061-02-6 | 18.                | 1.0                               | ug/l  | 1               |
| 08518                                                                                                                                                    | 1,1,2-Trichloroethane          | 79-00-5    | 20.                | 1.0                               | ug/l  | 1               |
| 08520                                                                                                                                                    | Dibromochloromethane           | 124-48-1   | 21.                | 1.0                               | ug/l  | 1               |
| 08523                                                                                                                                                    | Tetrachloroethene              | 127-18-4   | 20.                | 1.0                               | ug/l  | 1               |
| 08526                                                                                                                                                    | Chlorobenzene                  | 108-90-7   | 20.                | 1.0                               | ug/l  | 1               |



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Lancaster Laboratories Sample No. WW 3750935

Collected: 12/19/2001 10:15 by PG

Account Number: 10062

through 12/19/2001 10:30

Submitted: 12/27/2001 11:15

Hull &amp; Associates

Reported: 02/18/2002 at 14:22

6130 Wilcox Rd.

Discard: 02/26/2002

Dublin OH 43016

NMB008:AW-1U:G121901A/B Matrix Spike Dup/Dup Grab

Water Sample

IMC Magnetix - NY

AWA1U SDG#: HUL03-06MSD

| CAT<br>No. | Analysis Name             | CAS Number | As Received<br>Result | As Received              |       | Dilution<br>Factor |
|------------|---------------------------|------------|-----------------------|--------------------------|-------|--------------------|
|            |                           |            |                       | Limit of<br>Quantitation | Units |                    |
| 08527      | Bromoform                 | 75-25-2    | 22.                   | 1.0                      | ug/l  | 1                  |
| 08528      | 1,1,2,2-Tetrachloroethane | 79-34-5    | 22.                   | 1.0                      | ug/l  | 1                  |
| 08533      | 1,3-Dichlorobenzene (m)   | 541-73-1   | 21.                   | 1.0                      | ug/l  | 1                  |
| 08534      | 1,4-Dichlorobenzene (p)   | 106-46-7   | 20.                   | 1.0                      | ug/l  | 1                  |
| 08535      | 1,2-Dichlorobenzene (o)   | 95-50-1    | 20.                   | 1.0                      | ug/l  | 1                  |
| 08541      | Benzene                   | 71-43-2    | 20.                   | 1.0                      | ug/l  | 1                  |
| 08543      | Toluene                   | 108-88-3   | 20.                   | 1.0                      | ug/l  | 1                  |
| 08545      | Ethylbenzene              | 100-41-4   | 20.                   | 1.0                      | ug/l  | 1                  |
| 08561      | Xylene (total)            | 1330-20-7  | 61.                   | 3.0                      | ug/l  | 1                  |

## Laboratory Chronicle

| CAT<br>No. | Analysis Name                     | Method       | Trial# | Analysis         |  | Analyst          | Dilution<br>Factor |
|------------|-----------------------------------|--------------|--------|------------------|--|------------------|--------------------|
|            |                                   |              |        | Date and Time    |  |                  |                    |
| 00254      | Iron                              | SW-846 7380  | 1      | 01/08/2002 08:35 |  | Damary Valentin  | 40                 |
| 00354      | Total Organic Carbon<br>(Quad)    | SW-846 9060  | 1      | 01/04/2002 15:53 |  | Timothy M Petree | 25                 |
| 01125      | Sulfate (turbidimetric)           | EPA 375.4    | 1      | 01/02/2002 09:00 |  | Susan A Engle    | 200                |
| 08404      | Halocarbons/Aromatics by<br>SW846 | SW-846 8021B | 1      | 12/31/2001 18:37 |  | Todd T Smythe    | 1                  |
| 00820      | WW SW-846 FAA Digest (tot<br>rec) | SW-846 3005A | 1      | 01/03/2002 08:43 |  | Denise K Connors | 1                  |
| 01127      | GC VOA Water Prep                 | SW-846 5030B | 1      | 12/31/2001 18:37 |  | Todd T Smythe    | n.a.               |



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## Volatiles by GC Data

**Case Narrative  
Conformance/Nonconformance  
Summary**

Client : Hull & Associates  
Project: IMC Magnetix - NY  
Volatiles by GC - Water

# SAMPLE ANALYSES

| LL<br>Sample # | Sample<br>Designation | Matrix<br>Soil Water | Comments         |
|----------------|-----------------------|----------------------|------------------|
| 3749340        | AW-3U                 | X                    |                  |
| 3749341        | AW-3L                 | X                    |                  |
| 3749342        | MW-8U                 | X                    |                  |
| 3749343        | MW-8M                 | X                    |                  |
| 3749344        | MW-8L                 | X                    |                  |
| 3749345        | AWA1U                 | X                    | Unspiked         |
| 3749346        | AWB1U                 | X                    |                  |
| 3749347        | AW-1L                 | X                    |                  |
| 3749348        | AW-2U                 | X                    |                  |
| 3749349        | AW-2L                 | X                    |                  |
| 3749350        | MW-9U                 | X                    |                  |
| 3749351        | MW-9L                 | X                    |                  |
| 3749352        | MW10U                 | X                    |                  |
| 3749352        | MW10U                 | X                    | DF 10            |
| 3749353        | MW10L                 | X                    |                  |
| 3749354        | MW-5U                 | X                    | DF 10            |
| 3749355        | MW-5M                 | X                    |                  |
| 3749356        | MW-5L                 | X                    |                  |
| '49357         | FIELD                 | X                    |                  |
| 3750934MS      | AWA1U                 | X                    | Matrix Spike     |
| 3750935MSD     | AWA1U                 | X                    | Matrix Spike Dup |

# QUALITY CONTROL ANALYSES

|         |   |                    |
|---------|---|--------------------|
| BLK1808 | X | Method Blank       |
| BLK1809 | X | Method Blank       |
| BLK1810 | X | Method Blank       |
| LCS1802 | X | Lab Control Sample |

# SAMPLE PREPARATION

Dilutions were necessary for some samples as noted in the comments section above.

# ANALYSIS

The integration system reviews the chromatogram retention times, comparing them to the retention times in the ID Window column. A peak in the sample chromatogram with a retention time within the ID window is identified as a "hit."

The method used for analysis was EPA SW-846 Method 5030B/8021B. A J&W DB-VRX, 75m x 0.45mm capillary column was used for the analysis of all samples.

problems were encountered during analysis.



Client : Hull & Associates  
Project: IMC Magnetics - NY  
Volatiles by GC - Water

QUALITY CONTROL AND NONCONFORMANCE SUMMARY

Client submitted batch QC was referenced.  
All QC was within specifications.

Due to the limitations of the data package generating software, the NYSDEC ASP forms could not be included for the GC Volatiles data. Sample results are summarized on the analysis reports, and QC and calibration information is included on summary forms in this section of the data package.

The initial calibration H18314 met the requirements of SW-846 Method 8000B (section 7.7) since the average of all relative standard deviation values was < 20%. (The average % RSD was calculated using all of the compounds in the standard, though the ICAL summary form in this data package reflects only the client requested compounds.) As stated in method 8000B (section 7.5.1.2.3) the data user should be made aware that the %RSD(s) for chloromethane and methylene chloride fell outside of the < 20% criteria.

The calibration verification standard (injection #26 analyzed on 01/01/02 at 06:34) met the requirements of SW-846 Method 8000B (section 7.7) since the average of all percent drift values was < 15%. (The average % drift was calculated using all of the compounds in the standard, though the CCV summary form in this data package only reflects the client requested compounds.) As stated in method 8000B (section 7.5.1.2.3) the data user should be made aware that the %drift for chloromethane outside of the +/- 15% criteria.

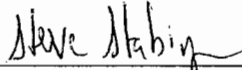
The calibration verification standard (injection #26 analyzed on 01/02/02 at 01:19) met the requirements of SW-846 Method 8000B (section 7.7) since the average of all percent drift values was < 15%. (The average % drift was calculated using all of the compounds in the standard, though the CCV summary form in this data package only reflects the client requested compounds.) As stated in method 8000B (section 7.5.1.2.3) the data user should be made aware that the %drift for chloromethane, trichloromethane, methylene chloride and bromoform fell outside of the +/- 15% criteria.

The calibration verification standard (injection #26 analyzed on 01/12/02 at 09:44) met the requirements of SW-846 Method 8000B (section 7.7) since the average of all percent drift values was < 15%. (The average % drift was calculated using all of the compounds in the standard, though the CCV summary form in this data package only reflects the client requested compounds.) As stated in method 8000B (section 7.5.1.2.3) the data user should be made aware that the %drift for chloromethane and methylene chloride fell outside of the +/- 15% criteria.

DATA INTERPRETATION

No explanation is necessary for the data submitted.

Narrative reviewed and approved by:

  
Steve J. Stabinger, Group Leader

2/8/02  
Date

## QC Summary

Surrogate Recovery  
Volatiles by GC - Water

| LL<br>Sample# | Sample<br>Code | Dilution<br>Factor | 1B4CB-H<br>Water-HALL<br>% Recovery | 1B4CB-P<br>Water-PID<br>% Recovery | TOT<br>OUT |
|---------------|----------------|--------------------|-------------------------------------|------------------------------------|------------|
| 3749340       | AW-3U          | 1.0                | 96                                  | 89                                 |            |
| 3749341       | AW-3L          | 1.0                | 97                                  | 89                                 |            |
| 3749342       | MW-8U          | 1.0                | 97                                  | 90                                 |            |
| 3749343       | MW-8M          | 1.0                | 96                                  | 88                                 |            |
| 3749344       | MW-8L          | 1.0                | 98                                  | 87                                 |            |
| 3749345       | AWA1U          | 1.0                | 91                                  | 90                                 |            |
| 3749346       | AWB1U          | 1.0                | 94                                  | 84                                 |            |
| 3749347       | AW-1L          | 1.0                | 98                                  | 89                                 |            |
| 3749348       | AW-2U          | 1.0                | 98                                  | 89                                 |            |
| 3749349       | AW-2L          | 1.0                | 100                                 | 89                                 |            |
| 3749350       | MW-9U          | 1.0                | 93                                  | 88                                 |            |
| 3749351       | MW-9L          | 1.0                | 93                                  | 89                                 |            |
| 3749352       | MW10U          | 1.0                | 95                                  | 91                                 |            |
| 3749352       | MW10U          | 10.0               | 98                                  |                                    |            |
| 3749353       | MW10L          | 1.0                | 94                                  | 89                                 |            |
| 3749354       | MW-5U          | 10.0               | 93                                  | 87                                 |            |
| 3749355       | MW-5M          | 1.0                | 91                                  | 89                                 |            |
| 3749356       | MW-5L          | 1.0                | 92                                  | 89                                 |            |
| 3749357       | FIELD          | 1.0                | 94                                  | 88                                 |            |
| 3750934MS     | AWA1U          | 1.0                | 104                                 | 97                                 |            |
| 3750935MSD    | AWA1U          | 1.0                | 102                                 | 99                                 |            |
| BLK1808       | METHOD BLANK   | 1.0                | 90                                  | 92                                 |            |
| BLK1809       | METHOD BLANK   | 1.0                | 99                                  | 87                                 |            |
| BLK1810       | METHOD BLANK   | 1.0                | 93                                  | 89                                 |            |
| LCS1802       | LAB CONTROL    | 1.0                | 98                                  | 91                                 |            |

\* = Values outside quality control limits.

D = Surrogates diluted - not counted towards total out.

TOT OUT = Total # of surrogates with recovery outside control limits.

|         |                                          | Control Limits |       |
|---------|------------------------------------------|----------------|-------|
|         |                                          | Lower          | Upper |
| 1B4CB-H | = 1-Bromo-4-Chlorobenzene (Water - HALL) | 59             | 132   |
| 1B4CB-P | = 1-Bromo-4-Chlorobenzene (Water - PID)  | 69             | 121   |

Quality Control Summary  
SDG# HUL03

Method Blank  
Volatiles by GC - Water

Blank ID.....: BLK1808  
Date.....: 12/31/01  
Instrument.....: 5843

Batch Number.....: 01365A18  
Time.....: 15:15  
Matrix.....: Water

| Sample Information |                |          |       |
|--------------------|----------------|----------|-------|
| LL<br>Sample#      | Sample<br>Code | Analysis |       |
|                    |                | Date     | Time  |
| 3749345            | AWA1U          | 12/31/01 | 16:54 |
| 3750934MS          | AWA1U          | 12/31/01 | 17:54 |
| 3750935MSD         | AWA1U          | 12/31/01 | 18:37 |
| LCS1802            | LAB CONTROL    | 12/31/01 | 19:20 |

Quality Control Summary  
SDG# HUL03

Method Blank  
Volatiles by GC - Water

Blank ID.....: BLK1808  
Date.....: 12/31/01  
Instrument.....: 5843

Batch Number.....: 01365A18  
Time.....: 15:15  
Matrix.....: Water

| Method Blank Results |                           |                    |            |            |
|----------------------|---------------------------|--------------------|------------|------------|
| CAS Number           | Compound                  | Blank Conc. (UG/L) | LOQ (UG/L) | MDL (UG/L) |
| 75-71-8              | DICHLORODIFLUOROMETHANE   | ND                 | 2          | .2         |
| 74-87-3              | CHLOROMETHANE             | ND                 | 5          | .5         |
| 75-01-4              | VINYL CHLORIDE            | ND                 | 1          | .2         |
| 74-83-9              | BROMOMETHANE              | ND                 | 5          | .5         |
| 75-00-3              | CHLOROETHANE              | ND                 | 1          | .2         |
| 75-69-4              | TRICHLOROFLUOROMETHANE    | ND                 | 1          | .2         |
| 75-35-4              | 1,1-DICHLOROETHENE        | ND                 | 1          | .2         |
| 75-09-2              | METHYLENE CHLORIDE        | ND                 | 1          | .2         |
| 156-60-5             | TRANS-1,2-DICHLOROETHENE  | ND                 | 1          | .2         |
| 75-34-3              | 1,1-DICHLOROETHANE        | ND                 | 1          | .2         |
| 156-59-2             | CIS-1,2-DICHLOROETHENE    | ND                 | 1          | .2         |
| 67-66-3              | CHLOROFORM                | ND                 | 1          | .2         |
| 107-06-2             | 1,2-DICHLOROETHANE        | ND                 | 1          | .2         |
| 71-55-6              | 1,1,1-TRICHLOROETHANE     | ND                 | 1          | .2         |
| 56-23-5              | CARBON TETRACHLORIDE      | ND                 | 1          | .2         |
| 71-43-2              | BENZENE                   | ND                 | 1          | .2         |
| 78-87-5              | 1,2-DICHLOROPROPANE       | ND                 | 1          | .2         |
| 79-01-6              | TRICHLOROETHENE           | ND                 | 1          | .2         |
| 75-27-4              | BROMODICHLOROMETHANE      | ND                 | 1          | .2         |
| 10061-01-5           | CIS-1,3-DICHLOROPROPENE   | ND                 | 1          | .2         |
| 10061-02-6           | TRANS-1,3-DICHLOROPROPENE | ND                 | 1          | .2         |
| 79-00-5              | 1,1,2-TRICHLOROETHANE     | ND                 | 1          | .2         |
| 108-88-3             | TOLUENE                   | ND                 | 1          | .2         |
| 124-48-1             | DIBROMOCHLOROMETHANE      | ND                 | 1          | .2         |
| 127-18-4             | TETRACHLOROETHENE         | ND                 | 1          | .2         |
| 108-90-7             | CHLOROBENZENE             | ND                 | 1          | .2         |
| 100-41-4             | ETHYLBENZENE              | ND                 | 1          | .2         |
| 75-25-2              | BROMOFORM                 | ND                 | 1          | .2         |
| 79-34-5              | 1,1,2,2-TETRACHLOROETHANE | ND                 | 1          | .2         |
| 541-73-1             | 1,3-DICHLOROBENZENE       | ND                 | 1          | .2         |
| 106-46-7             | 1,4-DICHLOROBENZENE       | ND                 | 1          | .2         |
| 95-50-1              | 1,2-DICHLOROBENZENE       | ND                 | 1          | .2         |
| 1330-20-7            | TOTAL XYLENES             | ND                 | 3          | .6         |

LOQ = Limit of Quantitation; MDL = Method Detection Limit  
ND = None Detected; \* = Above Limit of Quantitation

Method Blank  
Volatiles by GC - Water

Blank ID.....: BLK1809  
Date.....: 12/31/01  
Instrument.....: 5843

Batch Number.....: 01365A18  
Time.....: 21:55  
Matrix.....: Water

| Sample Information |                |          |       |
|--------------------|----------------|----------|-------|
| LL<br>Sample#      | Sample<br>Code | Analysis |       |
|                    |                | Date     | Time  |
| 3749357            | FIELD          | 12/31/01 | 23:21 |
| 3749340            | AW-3U          | 01/01/02 | 00:04 |
| 3749341            | AW-3L          | 01/01/02 | 00:47 |
| 3749342            | MW-8U          | 01/01/02 | 01:31 |
| 3749343            | MW-8M          | 01/01/02 | 02:14 |
| 3749344            | MW-8L          | 01/01/02 | 02:58 |
| 3749346            | AWB1U          | 01/01/02 | 03:41 |
| 3749347            | AW-1L          | 01/01/02 | 04:24 |
| 3749348            | AW-2U          | 01/01/02 | 05:08 |
| 3749349            | AW-2L          | 01/01/02 | 05:51 |

Method Blank  
Volatiles by GC - Water

Blank ID.....: BLK1809  
Date.....: 12/31/01  
Instrument.....: 5843

Batch Number.....: 01365A18  
Time.....: 21:55  
Matrix.....: Water

| Method Blank Results |                           |                    |            |            |
|----------------------|---------------------------|--------------------|------------|------------|
| CAS Number           | Compound                  | Blank Conc. (UG/L) | LOQ (UG/L) | MDL (UG/L) |
| 75-71-8              | DICHLORODIFLUOROMETHANE   | ND                 | 2          | .2         |
| 74-87-3              | CHLOROMETHANE             | ND                 | 5          | .5         |
| 75-01-4              | VINYL CHLORIDE            | ND                 | 1          | .2         |
| 74-83-9              | BROMOMETHANE              | ND                 | 5          | .5         |
| 75-00-3              | CHLOROETHANE              | ND                 | 1          | .2         |
| 75-69-4              | TRICHLOROFLUOROMETHANE    | ND                 | 1          | .2         |
| 75-35-4              | 1,1-DICHLOROETHENE        | ND                 | 1          | .2         |
| 75-09-2              | METHYLENE CHLORIDE        | .2                 | 1          | .2         |
| 156-60-5             | TRANS-1,2-DICHLOROETHENE  | ND                 | 1          | .2         |
| 75-34-3              | 1,1-DICHLOROETHANE        | ND                 | 1          | .2         |
| 156-59-2             | CIS-1,2-DICHLOROETHENE    | ND                 | 1          | .2         |
| 67-66-3              | CHLOROFORM                | ND                 | 1          | .2         |
| 107-06-2             | 1,2-DICHLOROETHANE        | ND                 | 1          | .2         |
| 71-55-6              | 1,1,1-TRICHLOROETHANE     | ND                 | 1          | .2         |
| 56-23-5              | CARBON TETRACHLORIDE      | ND                 | 1          | .2         |
| 71-43-2              | BENZENE                   | ND                 | 1          | .2         |
| 78-87-5              | 1,2-DICHLOROPROPANE       | ND                 | 1          | .2         |
| 79-01-6              | TRICHLOROETHENE           | ND                 | 1          | .2         |
| 75-27-4              | BROMODICHLOROMETHANE      | ND                 | 1          | .2         |
| 10061-01-5           | CIS-1,3-DICHLOROPROPENE   | ND                 | 1          | .2         |
| 10061-02-6           | TRANS-1,3-DICHLOROPROPENE | ND                 | 1          | .2         |
| 79-00-5              | 1,1,2-TRICHLOROETHANE     | ND                 | 1          | .2         |
| 108-88-3             | TOLUENE                   | ND                 | 1          | .2         |
| 124-48-1             | DIBROMOCHLOROMETHANE      | ND                 | 1          | .2         |
| 127-18-4             | TETRACHLOROETHENE         | ND                 | 1          | .2         |
| 108-90-7             | CHLOROBENZENE             | ND                 | 1          | .2         |
| 100-41-4             | ETHYLBENZENE              | ND                 | 1          | .2         |
| 75-25-2              | BROMOFORM                 | ND                 | 1          | .2         |
| 79-34-5              | 1,1,2,2-TETRACHLOROETHANE | ND                 | 1          | .2         |
| 541-73-1             | 1,3-DICHLOROBENZENE       | ND                 | 1          | .2         |
| 106-46-7             | 1,4-DICHLOROBENZENE       | ND                 | 1          | .2         |
| 95-50-1              | 1,2-DICHLOROBENZENE       | ND                 | 1          | .2         |
| 1330-20-7            | TOTAL XYLENES             | ND                 | 3          | .6         |

LOQ = Limit of Quantitation; MDL = Method Detection Limit  
ND = None Detected; \* = Above Limit of Quantitation

Method Blank  
Volatiles by GC - Water

Blank ID.....: BLK1810  
Date.....: 01/02/02  
Instrument.....: 5843

Batch Number.....: 01365A18  
Time.....: 02:46  
Matrix.....: Water

| Sample Information |                |          |       |
|--------------------|----------------|----------|-------|
| LL<br>Sample#      | Sample<br>Code | Analysis |       |
|                    |                | Date     | Time  |
| 3749350            | MW-9U          | 01/02/02 | 03:38 |
| 3749351            | MW-9L          | 01/02/02 | 04:21 |
| 3749352            | MW10U          | 01/02/02 | 05:08 |
| 3749353            | MW10L          | 01/02/02 | 05:51 |
| 3749352            | MW10U          | 01/02/02 | 06:38 |
| 3749355            | MW-5M          | 01/02/02 | 07:21 |
| 3749356            | MW-5L          | 01/02/02 | 08:04 |
| 3749354            | MW-5U          | 01/02/02 | 08:47 |



Quality Control Summary  
SDG# HUL03

Method Blank  
Volatiles by GC - Water

Blank ID.....: BLK1810  
Date.....: 01/02/02  
Instrument.....: 5843

Batch Number.....: 01365A18  
Time.....: 02:46  
Matrix.....: Water

| Method Blank Results |                           |                    |            |            |
|----------------------|---------------------------|--------------------|------------|------------|
| CAS Number           | Compound                  | Blank Conc. (UG/L) | LOQ (UG/L) | MDL (UG/L) |
| 75-71-8              | DICHLORODIFLUOROMETHANE   | ND                 | 2          | .2         |
| 74-87-3              | CHLOROMETHANE             | ND                 | 5          | .5         |
| 75-01-4              | VINYL CHLORIDE            | ND                 | 1          | .2         |
| 74-83-9              | BROMOMETHANE              | ND                 | 5          | .5         |
| 75-00-3              | CHLOROETHANE              | ND                 | 1          | .2         |
| 75-69-4              | TRICHLOROFLUOROMETHANE    | ND                 | 1          | .2         |
| 75-35-4              | 1,1-DICHLOROETHENE        | ND                 | 1          | .2         |
| 75-09-2              | METHYLENE CHLORIDE        | ND                 | 1          | .2         |
| 156-60-5             | TRANS-1,2-DICHLOROETHENE  | ND                 | 1          | .2         |
| 75-34-3              | 1,1-DICHLOROETHANE        | ND                 | 1          | .2         |
| 156-59-2             | CIS-1,2-DICHLOROETHENE    | ND                 | 1          | .2         |
| 67-66-3              | CHLOROFORM                | ND                 | 1          | .2         |
| 107-06-2             | 1,2-DICHLOROETHANE        | ND                 | 1          | .2         |
| 71-55-6              | 1,1,1-TRICHLOROETHANE     | ND                 | 1          | .2         |
| 56-23-5              | CARBON TETRACHLORIDE      | ND                 | 1          | .2         |
| 71-43-2              | BENZENE                   | ND                 | 1          | .2         |
| 78-87-5              | 1,2-DICHLOROPROPANE       | ND                 | 1          | .2         |
| 79-01-6              | TRICHLOROETHENE           | ND                 | 1          | .2         |
| 75-27-4              | BROMODICHLOROMETHANE      | ND                 | 1          | .2         |
| 10061-01-5           | CIS-1,3-DICHLOROPROPENE   | ND                 | 1          | .2         |
| 10061-02-6           | TRANS-1,3-DICHLOROPROPENE | ND                 | 1          | .2         |
| 79-00-5              | 1,1,2-TRICHLOROETHANE     | ND                 | 1          | .2         |
| 108-88-3             | TOLUENE                   | ND                 | 1          | .2         |
| 124-48-1             | DIBROMOCHLOROMETHANE      | ND                 | 1          | .2         |
| 127-18-4             | TETRACHLOROETHENE         | ND                 | 1          | .2         |
| 108-90-7             | CHLOROBENZENE             | ND                 | 1          | .2         |
| 100-41-4             | ETHYLBENZENE              | ND                 | 1          | .2         |
| 75-25-2              | BROMOFORM                 | ND                 | 1          | .2         |
| 79-34-5              | 1,1,2,2-TETRACHLOROETHANE | ND                 | 1          | .2         |
| 541-73-1             | 1,3-DICHLOROBENZENE       | ND                 | 1          | .2         |
| 106-46-7             | 1,4-DICHLOROBENZENE       | ND                 | 1          | .2         |
| 95-50-1              | 1,2-DICHLOROBENZENE       | ND                 | 1          | .2         |
| 1330-20-7            | TOTAL XYLENES             | ND                 | 3          | .6         |

LOQ = Limit of Quantitation; MDL = Method Detection Limit  
ND = None Detected; \* = Above Limit of Quantitation

Matrix Spike/Matrix Spike Duplicate  
Volatiles by GC - Water

Unspiked Sample Number.....: 3749345  
Spiked Sample Number.....: 3750934MS  
Spiked Dup Sample Number...: 3750935MSD

Batch Number.....: 01365A18  
Date.....: 12/31/01  
Matrix.....: Water

Instrument.....: 5843

This MS/MSD applies to the  
following samples:  
3749340 3749341 3749342 3749343  
3749344 3749345 3749346 3749347  
3749348 3749349 3749350 3749351  
3749352 3749353 3749354 3749355  
3749356 3749357 3750934 3750935

| Compound             | Spike Added<br>(UG/L) | Sample Conc<br>(UG/L) | MS Conc<br>(UG/L) | MSD Conc<br>(UG/L) | MS %<br>Recov | MSD %<br>Recov | QC Limits<br>Recov | RPD | QC Limits<br>RPD |
|----------------------|-----------------------|-----------------------|-------------------|--------------------|---------------|----------------|--------------------|-----|------------------|
| DICHLORODIFLUOROMETH | 20.0                  | 0.00                  | 23.5              | 21.3               | 118           | 107            | 18-211             | 10  | 30               |
| CHLOROMETHANE        | 20.1                  | 0.00                  | 14.1              | 12.7               | 70            | 63             | 01-159             | 10  | 30               |
| VINYL CHLORIDE       | 20.0                  | 0.00                  | 18.7              | 17.0               | 94            | 85             | 49-142             | 10  | 30               |
| BROMOMETHANE         | 20.0                  | 0.00                  | 18.3              | 18.0               | 91            | 90             | 13-163             | 1   | 30               |
| CHLOROETHANE         | 20.0                  | 0.00                  | 18.4              | 18.4               | 92            | 92             | 26-143             | 0   | 30               |
| TRICHLOROFLUOROMETHA | 20.0                  | 0.00                  | 18.8              | 16.4               | 94            | 82             | 52-127             | 14  | 30               |
| 1,1-DICHLOROETHENE   | 20.0                  | 0.00                  | 21.5              | 20.7               | 108           | 104            | 42-154             | 4   | 30               |
| METHYLENE CHLORIDE   | 20.0                  | 0.00                  | 18.6              | 18.3               | 93            | 91             | 61-128             | 2   | 30               |
| TRANS-1,2-DICHLORORE | 20.0                  | 0.00                  | 16.4              | 16.5               | 82            | 82             | 74-133             | 1   | 30               |
| 1,1-DICHLOROETHANE   | 20.0                  | 0.00                  | 20.5              | 20.7               | 102           | 103            | 75-130             | 1   | 30               |
| CIS-1,2-DICHLOROETHE | 20.0                  | 0.00                  | 20.4              | 20.5               | 102           | 103            | 68-137             | 0   | 30               |
| CHLOROFORM           | 20.0                  | 0.00                  | 20.2              | 20.1               | 101           | 101            | 76-127             | 1   | 30               |
| 1,2-DICHLOROETHANE   | 20.0                  | 0.00                  | 20.5              | 20.5               | 103           | 103            | 79-130             | 0   | 30               |
| 1,1,1-TRICHLOROETHAN | 20.0                  | 0.00                  | 20.5              | 20.2               | 102           | 101            | 72-130             | 1   | 30               |
| CARBON TETRACHLORIDE | 20.0                  | 0.00                  | 20.5              | 20.4               | 102           | 102            | 72-130             | 0   | 30               |
| BENZENE              | 20.0                  | 0.00                  | 19.7              | 19.9               | 99            | 100            | 79-119             | 1   | 30               |
| 1,2-DICHLOROPROPANE  | 20.0                  | 0.00                  | 20.3              | 20.5               | 101           | 102            | 80-128             | 1   | 30               |
| TRICHLOROETHENE      | 20.0                  | 0.32                  | 19.6              | 19.8               | 97            | 97             | 65-130             | 1   | 30               |
| BROMODICHLOROMETHANE | 20.0                  | 0.00                  | 19.3              | 19.4               | 96            | 97             | 75-127             | 1   | 30               |
| CIS-1,3-DICHLOROPROP | 20.0                  | 0.00                  | 19.3              | 19.6               | 97            | 98             | 62-128             | 2   | 30               |
| TRANS-1,3-DICHLOROPR | 20.0                  | 0.00                  | 18.2              | 18.2               | 91            | 91             | 73-129             | 0   | 30               |
| 1,1,2-TRICHLOROETHAN | 20.0                  | 0.00                  | 19.7              | 19.9               | 99            | 99             | 81-123             | 1   | 30               |
| TOLUENE              | 20.0                  | 0.00                  | 19.1              | 19.8               | 96            | 99             | 76-120             | 3   | 30               |
| DIBROMOCHLOROMETHANE | 20.0                  | 0.00                  | 20.9              | 21.2               | 105           | 106            | 78-134             | 1   | 30               |
| TETRACHLOROETHENE    | 20.0                  | 0.00                  | 19.8              | 20.0               | 99            | 100            | 72-129             | 1   | 30               |
| CHLOROBENZENE        | 20.0                  | 0.00                  | 19.2              | 19.9               | 96            | 100            | 83-117             | 4   | 30               |
| ETHYLBENZENE         | 20.0                  | 0.00                  | 19.5              | 20.1               | 97            | 101            | 79-121             | 3   | 30               |
| BROMOFORM            | 20.0                  | 0.00                  | 21.9              | 22.3               | 110           | 111            | 72-143             | 2   | 30               |
| 1,1,2,2-TETRACHLOROE | 20.0                  | 0.00                  | 21.0              | 21.5               | 105           | 108            | 80-132             | 3   | 30               |
| 1,3-DICHLOROBENZENE  | 20.0                  | 0.00                  | 20.3              | 20.6               | 101           | 103            | 81-132             | 1   | 30               |
| 1,4-DICHLOROBENZENE  | 20.0                  | 0.00                  | 19.2              | 19.8               | 96            | 99             | 84-115             | 3   | 30               |
| 1,2-DICHLOROBENZENE  | 20.0                  | 0.00                  | 20.2              | 20.4               | 101           | 102            | 78-131             | 1   | 30               |
| TOTAL XYLENES        | 60.0                  | 0.00                  | 58.8              | 60.8               | 98            | 101            | 80-121             | 3   | 30               |

MS=Matrix Spike; MSD=Matrix Spike Duplicate; ND=None Detected; RPD=Relative Percent Difference

The RPD limits are advisory and are evaluated in relation to the other QC.

\* = Value outside quality control limits.

Laboratory Control Sample  
Volatiles by GC - Water

Batch Number.....: 01365A18  
Date.....: 12/31/01  
Matrix.....: Water  
  
Instrument.....: 5843  
Calibration Date.....: 12/31/01 (HALL)  
Calibration Date.....: 12/31/01 (PID)

This LCS applies to the  
following samples:  
3749340 3749341 3749342 3749343  
3749344 3749345 3749346 3749347  
3749348 3749349 3749350 3749351  
3749352 3749353 3749354 3749355  
3749356 3749357 3750934 3750935

| Compound                  | Spike<br>Added<br>(UG/L) | LCS<br>Conc<br>(UG/L) | LCS<br>%<br>Recov | LCS<br>Limits<br>Recov |
|---------------------------|--------------------------|-----------------------|-------------------|------------------------|
| DICHLORODIFLUOROMETHANE   | 20.0                     | 21.2                  | 106               | 29-208                 |
| CHLOROMETHANE             | 20.1                     | 16.3                  | 81                | 17-149                 |
| VINYL CHLORIDE            | 20.0                     | 17.6                  | 88                | 53-137                 |
| BROMOMETHANE              | 20.0                     | 17.3                  | 87                | 27-153                 |
| CHLOROETHANE              | 20.0                     | 17.4                  | 87                | 31-137                 |
| TRICHLOROFLUOROMETHANE    | 20.0                     | 16.8                  | 84                | 51-125                 |
| 1,1-DICHLOROETHENE        | 20.0                     | 19.8                  | 99                | 44-147                 |
| METHYLENE CHLORIDE        | 20.0                     | 17.7                  | 89                | 68-121                 |
| TRANS-1,2-DICHLOROETHENE  | 20.0                     | 19.5                  | 98                | 78-124                 |
| 1,1-DICHLOROETHANE        | 20.0                     | 19.6                  | 98                | 80-122                 |
| CIS-1,2-DICHLOROETHENE    | 20.0                     | 19.7                  | 99                | 80-125                 |
| CHLOROFORM                | 20.0                     | 19.4                  | 97                | 78-122                 |
| 1,2-DICHLOROETHANE        | 20.0                     | 19.9                  | 99                | 80-127                 |
| 1,1,1-TRICHLOROETHANE     | 20.0                     | 19.1                  | 96                | 77-121                 |
| CARBON TETRACHLORIDE      | 20.0                     | 19.1                  | 96                | 75-122                 |
| BENZENE                   | 20.0                     | 19.0                  | 95                | 85-111                 |
| 1,2-DICHLOROPROPANE       | 20.0                     | 19.5                  | 97                | 81-126                 |
| TRICHLOROETHENE           | 20.0                     | 18.5                  | 92                | 82-110                 |
| BROMODICHLOROMETHANE      | 20.0                     | 18.7                  | 93                | 78-121                 |
| CIS-1,3-DICHLOROPROPENE   | 20.0                     | 19.0                  | 95                | 74-118                 |
| TRANS-1,3-DICHLOROPROPENE | 20.0                     | 17.6                  | 88                | 78-124                 |
| 1,1,2-TRICHLOROETHANE     | 20.0                     | 19.0                  | 95                | 83-122                 |
| TOLUENE                   | 20.0                     | 18.5                  | 92                | 84-112                 |
| DIBROMOCHLOROMETHANE      | 20.0                     | 20.3                  | 101               | 79-132                 |
| TETRACHLOROETHENE         | 20.0                     | 19.0                  | 95                | 76-123                 |
| CHLOROBENZENE             | 20.0                     | 18.5                  | 93                | 85-114                 |
| ETHYLBENZENE              | 20.0                     | 18.5                  | 93                | 84-114                 |
| BROMOFORM                 | 20.0                     | 21.0                  | 105               | 75-141                 |
| 1,1,2,2-TETRACHLOROETHANE | 20.0                     | 19.7                  | 99                | 84-129                 |
| 1,3-DICHLOROBENZENE       | 20.0                     | 19.8                  | 99                | 84-128                 |
| 1,4-DICHLOROBENZENE       | 20.0                     | 18.4                  | 92                | 86-112                 |
| 1,2-DICHLOROBENZENE       | 20.0                     | 19.6                  | 98                | 82-127                 |
| TOTAL XYLENES             | 60.0                     | 56.1                  | 94                | 85-115                 |

\* = Recovery outside quality control limits.

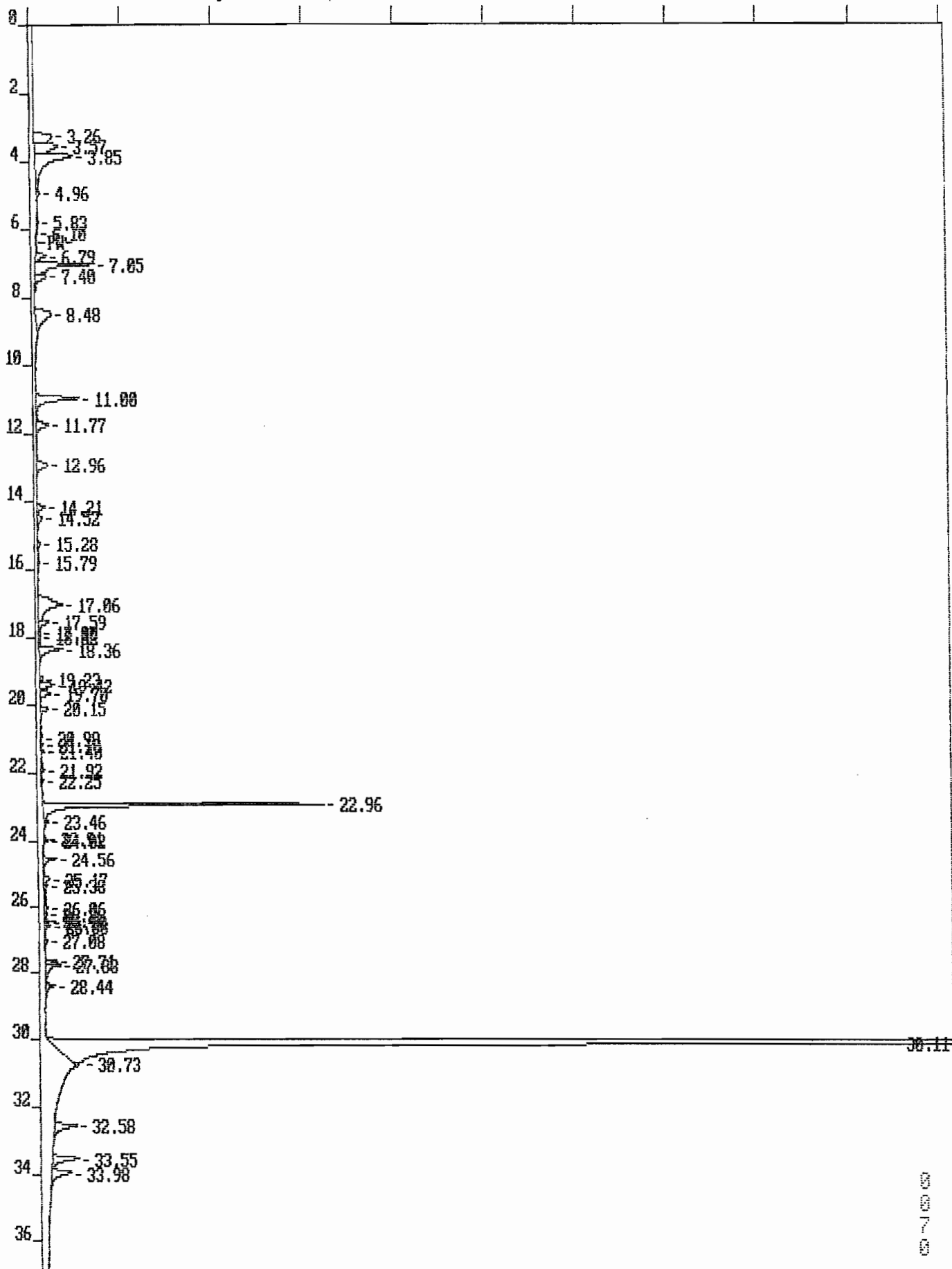
## Sample Data

File=C:\CP\DATA1\18365.30R Date printed=01-01-2002 Time= 00:04:37

Sample Name=3749340

01365A181127,8404

0.0 to 37.0 min. Low Y=-0.02 High Y=14.98 mv Span=15.0



Sample Name: 3749340

Batch: 01365A18

Date Taken: Jan 1, 2002 00:04:31

Raw File: C:\CP\DATA1\18365.30R

Area File: C:\CP\DATA1\18365.30A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 12):

| Ret Time                  | Expected | Amount *             | Peak    | Peak   |       |
|---------------------------|----------|----------------------|---------|--------|-------|
| (min)                     | RT (min) | (ug/L)               | Area    | Height |       |
| 3.853                     | 3.793    | DICHLORODIFLUOROMETH | 0.3129  | 11812  | 633   |
| 3.973                     | 3.973    | CHLOROMETHANE        | 0.0000  | 0      | 0     |
| 4.303                     | 4.303    | VINYL CHLORIDE       | 0.0000  | 0      | 0     |
| 4.773                     | 4.773    | BROMOMETHANE         | 0.0000  | 0      | 0     |
| 4.957                     | 4.974    | CHLOROETHANE         | 0.0147  | 499    | 63    |
| 5.830                     | 5.839    | TRICHLOROFLUOROMETHA | 0.0135  | 280    | 34    |
| 6.794                     | 6.760    | 1,1-DICHLOROETHENE   | 0.0377  | 1536   | 175   |
| 7.051                     | 7.070    | METHYLENE CHLORIDE   | 0.1180  | 8097   | 979   |
| 7.401                     | 7.254    | TRICHLOROTRIFLUOROET | 0.0545  | 2206   | 198   |
| 8.477                     | 8.588    | TRANS-1,2-DICHLOROET | 0.0441  | 5867   | 275   |
| 9.238                     | 9.238    | 1,1-DICHLOROETHANE   | 0.0000  | 0      | 0     |
| 10.995                    | 11.030   | CIS-1,2-DICHLOROETHE | 0.1424  | 7013   | 720   |
| 11.550                    | 11.550   | BROMOCHLOROMETHANE   | 0.0000  | 0      | 0     |
| 11.770                    | 11.807   | CHLOROFORM           | 0.0348  | 2519   | 213   |
| 12.057                    | 12.057   | 2,2-DICHLOROPROPANE  | 0.0000  | 0      | 0     |
| 14.207                    | 14.235   | 1,2-DICHLOROETHANE   | 0.0280  | 1176   | 134   |
| 14.517                    | 14.554   | 1,1,1-TRICHLOROETHAN | 0.0174  | 1080   | 86    |
| 15.277                    | 15.315   | 1,1-DICHLOROPROPENE  | 0.0116  | 495    | 51    |
| 15.793                    | 15.838   | CARBON TETRACHLORIDE | 0.0048  | 365    | 29    |
| 18.023                    | 18.053   | DIBROMOMETHANE       | 0.0088  | 206    | 26    |
| 18.225                    | 18.225   | 1,2-DICHLOROPROPANE  | 0.0000  | 0      | 0     |
| 18.363                    | 18.382   | TRICHLOROETHENE      | 0.0486  | 3580   | 389   |
| 18.489                    | 18.489   | BROMODICHLOROMETHANE | 0.0000  | 0      | 0     |
| 19.698                    | 19.873   | 2-CHLOROETHYL VINYL  | 0.0769  | 1583   | 177   |
| 20.148                    | 20.220   | CIS-1,3-DICHLOROPROP | 0.0181  | 1012   | 130   |
| 21.178                    | 21.176   | TRANS-1,3-DICHLOROPR | 0.0063  | 344    | 44    |
| 21.397                    | 21.405   | 1,1,2-TRICHLOROETHAN | 0.0065  | 282    | 55    |
| 21.924                    | 21.868   | 1,3-DICHLOROPROPANE  | 0.0098  | 447    | 69    |
| 22.248                    | 22.251   | DIBROMOCHLOROMETHANE | 0.0072  | 230    | 42    |
| 22.645                    | 22.645   | 1,2-DIBROMOETHANE    | 0.0000  | 0      | 0     |
| 22.962                    | 22.971   | TETRACHLOROETHENE    | 0.4183  | 22809  | 4648  |
| 23.907                    | 23.921   | 1,1,1,2-TETRACHLOROE | 0.0039  | 230    | 46    |
| 24.016                    | 24.018   | CHLOROBENZENE        | 0.0144  | 484    | 79    |
| 24.558                    | 24.700   | BROMOFORM            | 0.0611  | 1522   | 226   |
| 25.174                    | 25.190   | 1,1,2,2-TETRACHLOROE | 0.0151  | 970    | 98    |
| 25.384                    | 25.394   | 1,2,3-TRICHLOROPROPA | 0.0107  | 330    | 55    |
| 26.060                    | 26.060   | BROMOBENZENE         | 0.0231  | 544    | 65    |
| 26.502                    | 26.510   | 2-CHLOROTOLUENE      | 0.0183  | 330    | 73    |
| 26.627                    | 26.629   | 4-CHLOROTOLUENE      | 0.0249  | 720    | 101   |
| 27.710                    | 27.716   | 1,3-DICHLOROBENZENE  | 0.0324  | 860    | 190   |
| 27.825                    | 27.831   | 1,4-DICHLOROBENZENE  | 0.0410  | 2495   | 256   |
| 28.436                    | 28.444   | 1,2-DICHLOROBENZENE  | 0.0282  | 1424   | 160   |
| 29.331                    | 29.331   | 1,2-DIBROMO-3-CHLORO | 0.0000  | 0      | 0     |
| 30.115                    | 30.133   | SURR-1B4CB-H         | 28.7657 | 494729 | 98600 |
| 32.584                    | 32.592   | 1,2,4-TRICHLOROBENZE | 0.0915  | 3555   | 368   |
| 33.550                    | 33.557   | HEXACHLOROBUTADIENE  | 0.0944  | 4222   | 448   |
| 33.976                    | 33.983   | 1,2,3-TRICHLOROBENZE | 0.0982  | 3907   | 336   |
| TOTAL 1,2-DICHLOROETHENE: |          | 0.1864               |         |        |       |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 95.8857%

Chrom Perfect version 6.07

Reported on 01-01-2002at 00:05:26

Sample name: 3749340

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365.30R

Reviewed by: TKS

Verified by: UMM49

Date: 1-1-02

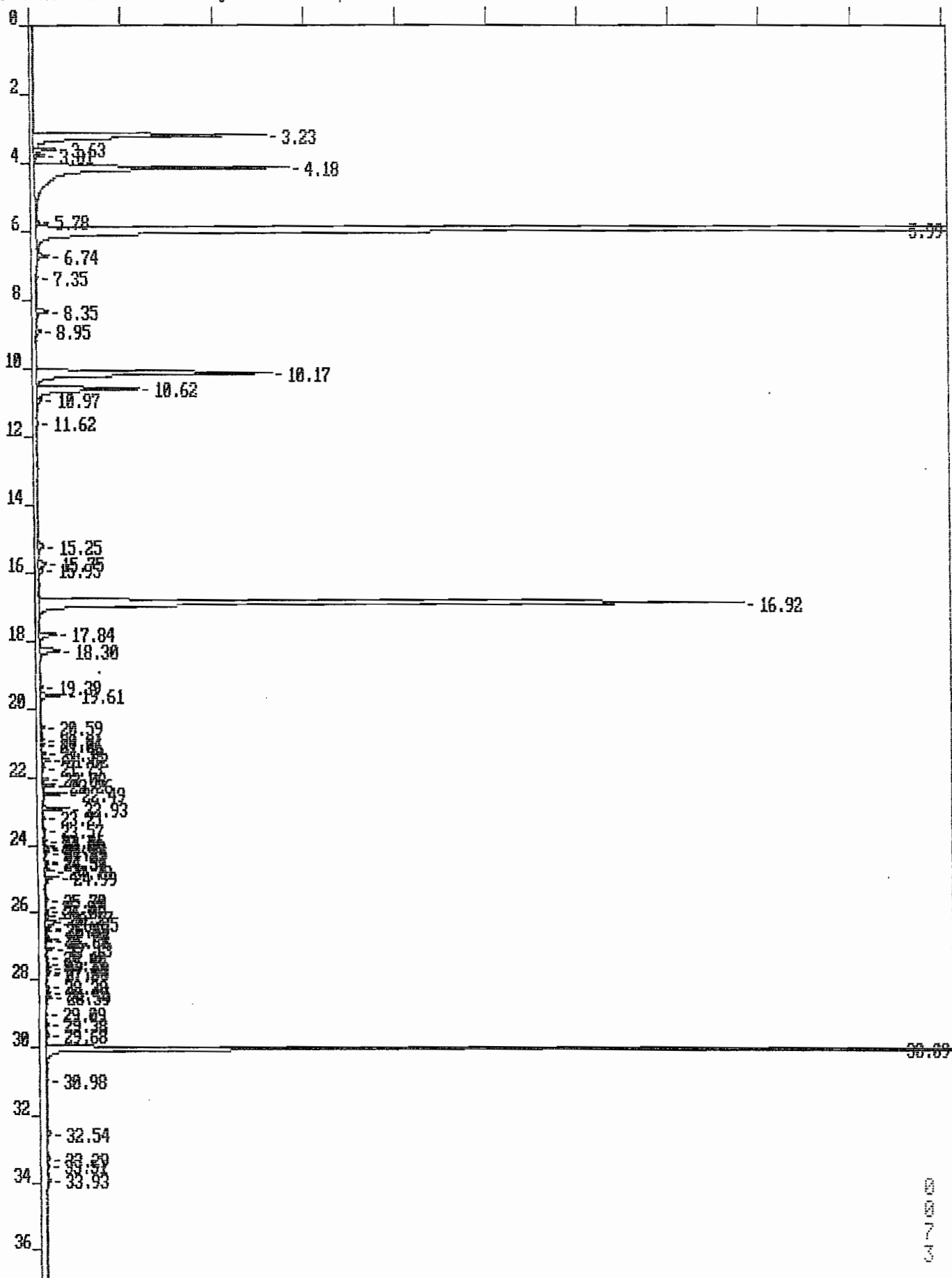
Date: 01/02/02

File=C:\CP\DATA1\183658.30R Date printed=01-01-2002 Time= 00:05:38

Sample Name=3749340

01365A181127,8404

0.0 to 37.0 min. Low Y=0.004 High Y=15.004 mv Span=15.0





Sample Name: 3749340

Batch: 01365A18

Date Taken: Jan 1, 2002 00:04:31

Raw File: C:\CP\DATA1\18365B.30R

Area File: C:\CP\DATA1\18365B.30A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 12):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.275    | 4.275    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 6.743    | 6.732    | 1,1-DICHLOROETHENE   | 0.4861   | 1240   | 204    |
| 8.558    | 8.558    | TRANS-1,2-DICHLOROET | 0.0000   | 0      | 0      |
| 8.953    | 8.946    | METHYL T-BUTYL ETHER | 0.3078   | 773    | 89     |
| 10.966   | 11.000   | CIS-1,2-DICHLOROETHE | 0.2114   | 690    | 84     |
| 15.245   | 15.285   | 1,1-DICHLOROPROPENE  | 0.2943   | 1058   | 102    |
| 15.953   | 16.023   | BENZENE              | 0.0933   | 645    | 80     |
| 16.917   | 16.958   | ISTD-FBENZENE        | 1.0000   | 87534  | 11576  |
| 18.301   | 18.353   | TRICHLOROETHENE      | 0.4918   | 2580   | 342    |
| 19.845   | 19.845   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.194   | 20.194   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.058   | 21.150   | TRANS-1,3-DICHLOROPR | 0.0859   | 242    | 54     |
| 21.733   | 21.737   | TOLUENE              | 0.0345   | 226    | 60     |
| 22.934   | 22.945   | TETRACHLOROETHENE    | 0.4648   | 1552   | 429    |
| 23.997   | 23.995   | CHLOROBENZENE        | 0.0185   | 155    | 43     |
| 24.250   | 24.310   | ETHYLBENZENE         | 0.0359   | 222    | 69     |
| 24.592   | 24.602   | M,P-XYLENE           | 0.0238   | 103    | 45     |
| 25.069   | 25.069   | STYRENE              | 0.0000   | 0      | 0      |
| 25.171   | 25.171   | O-XYLENE             | 0.0000   | 0      | 0      |
| 25.704   | 25.715   | ISOPROPYLBENZENE     | 0.0332   | 169    | 48     |
| 26.020   | 26.033   | BROMOBENZENE         | 0.0261   | 243    | 57     |
| 26.352   | 26.361   | N-PROPYLBENZENE      | 0.1420   | 1447   | 238    |
| 26.493   | 26.485   | 2-CHLOROTOLUENE      | 0.0559   | 383    | 103    |
| 26.594   | 26.604   | 4-CHLOROTOLUENE      | 0.0540   | 433    | 105    |
| 26.794   | 26.809   | 1,3,5-TRIMETHYLBENZE | 0.0297   | 273    | 70     |
| 27.234   | 27.234   | TERT-BUTYLBENZENE    | 0.0000   | 0      | 0      |
| 27.403   | 27.416   | 1,2,4-TRIMETHYLBENZE | 0.0268   | 196    | 48     |
| 27.570   | 27.584   | SEC-BUTYLBENZENE     | 0.0311   | 123    | 40     |
| 27.680   | 27.691   | 1,3-DICHLOROBENZENE  | 0.0435   | 289    | 76     |
| 27.799   | 27.806   | 1,4-DICHLOROBENZENE  | 0.0443   | 281    | 77     |
| 27.886   | 27.892   | P-ISOPROPYLTOLUENE   | 0.0475   | 236    | 60     |
| 28.446   | 28.418   | 1,2-DICHLOROBENZENE  | 0.0570   | 422    | 74     |
| 28.594   | 28.605   | N-BUTYLBENZENE       | 0.0820   | 444    | 97     |
| 30.087   | 30.105   | SURR-1B4CB-P         | 26.6450  | 145665 | 38365  |
| 32.540   | 32.563   | 1,2,4-TRICHLOROBENZE | 0.1019   | 382    | 58     |
| 33.288   | 33.311   | NAPHTHALENE          | 0.0802   | 352    | 53     |
| 33.510   | 33.528   | HEXACHLOROBUTADIENE  | 0.1194   | 288    | 40     |
| 33.927   | 33.954   | 1,2,3-TRICHLOROBENZE | 0.1068   | 358    | 50     |

XYLENES (Total): 0.0238

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 88.8167%

Chrom Perfect version 6.07

Reported on 01-01-2002at 00:07:02

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: 3749340

Batch: 01365A181127,840

Raw file: C:\CP\DATA1\18365B.30R

Reviewed by: T3ks

Verified by: mm49

Date: 1-1-02

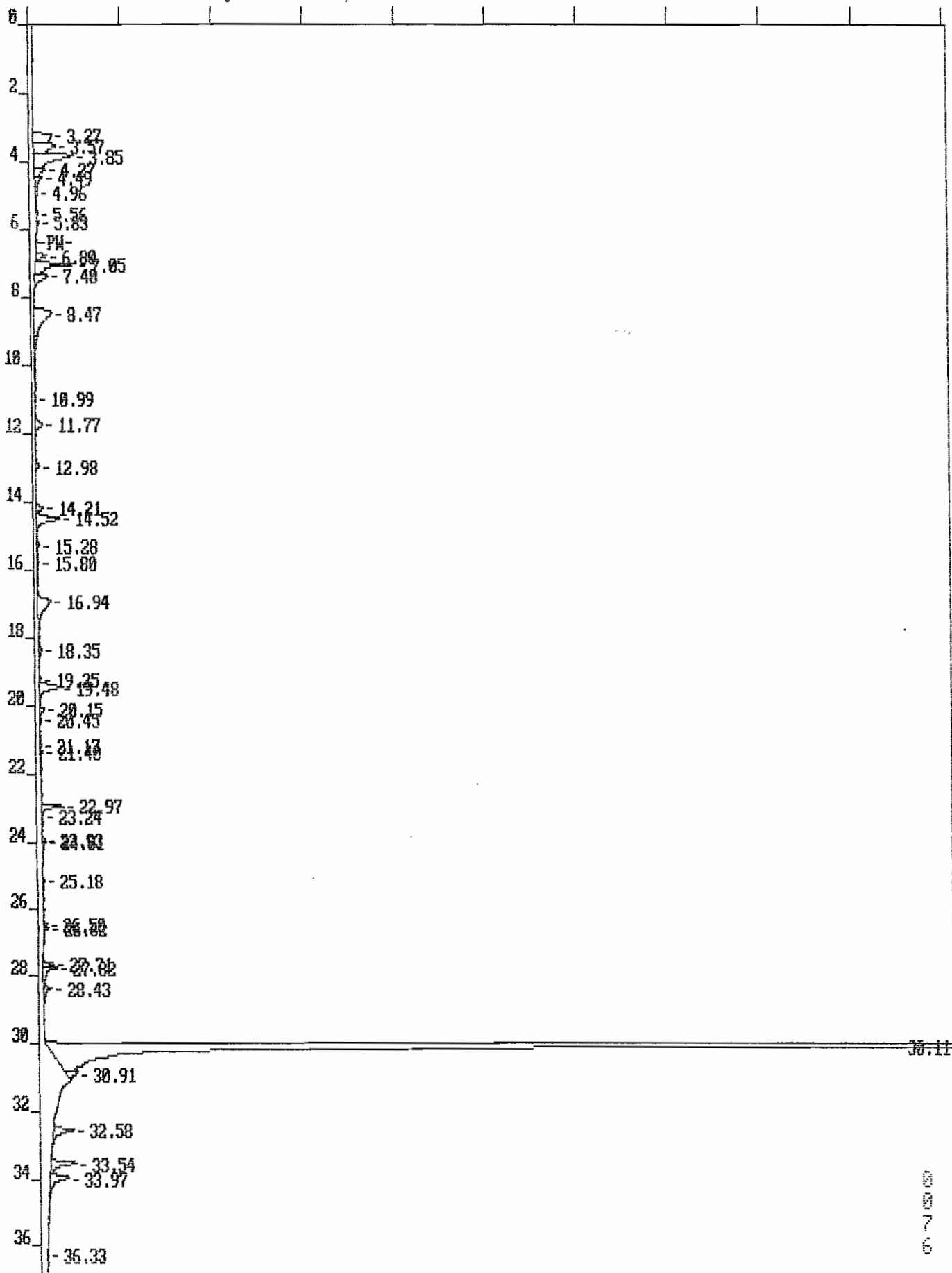
Date: 01/02/02

File=C:\CP\DATA1\18365.31R Date printed=01-01-2002 Time= 00:47:45

Sample Name=3749341

01365A181127,8404

0.0 to 37.0 min. Low Y=-0.023 High Y=14.977 mv Span=15.0



Sample Name: 3749341

Batch: 01365A18

Date Taken: Jan 1, 2002 00:47:40

Raw File: C:\CP\DATA1\18365.31R

Area File: C:\CP\DATA1\18365.31A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 12):

| Ret Time                  | Expected |                      | Amount * | Peak   | Peak   |
|---------------------------|----------|----------------------|----------|--------|--------|
| (min)                     | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 3.852                     | 3.793    | DICHLORODIFLUOROMETH | 0.3214   | 9438   | 651    |
| 3.973                     | 3.973    | CHLOROMETHANE        | 0.0000   | 0      | 0      |
| 4.273                     | 4.303    | VINYL CHLORIDE       | 0.0542   | 1677   | 193    |
| 4.773                     | 4.773    | BROMOMETHANE         | 0.0000   | 0      | 0      |
| 4.963                     | 4.974    | CHLOROETHANE         | 0.0108   | 622    | 46     |
| 5.832                     | 5.839    | TRICHLOROFLUOROMETHA | 0.0168   | 336    | 43     |
| 6.797                     | 6.760    | 1,1-DICHLOROETHENE   | 0.0395   | 1482   | 183    |
| 7.051                     | 7.070    | METHYLENE CHLORIDE   | 0.0799   | 5528   | 663    |
| 7.401                     | 7.254    | TRICHLOROTRIFLUOROET | 0.0586   | 2735   | 213    |
| 8.473                     | 8.588    | TRANS-1,2-DICHLOROET | 0.0474   | 7527   | 296    |
| 9.238                     | 9.238    | 1,1-DICHLOROETHANE   | 0.0000   | 0      | 0      |
| 10.990                    | 11.030   | CIS-1,2-DICHLOROETHE | 0.0042   | 206    | 21     |
| 11.550                    | 11.550   | BROMOCHLOROMETHANE   | 0.0000   | 0      | 0      |
| 11.768                    | 11.807   | CHLOROFORM           | 0.0204   | 1575   | 125    |
| 12.057                    | 12.057   | 2,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 14.206                    | 14.235   | 1,2-DICHLOROETHANE   | 0.0254   | 1034   | 121    |
| 14.521                    | 14.554   | 1,1,1-TRICHLOROETHAN | 0.0786   | 4717   | 390    |
| 15.284                    | 15.315   | 1,1-DICHLOROPROPENE  | 0.0094   | 407    | 41     |
| 15.800                    | 15.838   | CARBON TETRACHLORIDE | 0.0037   | 259    | 22     |
| 18.053                    | 18.053   | DIBROMOMETHANE       | 0.0000   | 0      | 0      |
| 18.225                    | 18.225   | 1,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 18.354                    | 18.382   | TRICHLOROETHENE      | 0.0070   | 354    | 56     |
| 18.489                    | 18.489   | BROMODICHLOROMETHANE | 0.0000   | 0      | 0      |
| 19.873                    | 19.873   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.147                    | 20.220   | CIS-1,3-DICHLOROPROP | 0.0118   | 869    | 85     |
| 21.173                    | 21.176   | TRANS-1,3-DICHLOROPR | 0.0050   | 205    | 35     |
| 21.400                    | 21.405   | 1,1,2-TRICHLOROETHAN | 0.0050   | 214    | 42     |
| 21.868                    | 21.868   | 1,3-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 22.251                    | 22.251   | DIBROMOCHLOROMETHANE | 0.0000   | 0      | 0      |
| 22.645                    | 22.645   | 1,2-DIBROMOETHANE    | 0.0000   | 0      | 0      |
| 22.966                    | 22.971   | TETRACHLOROETHENE    | 0.0340   | 2191   | 378    |
| 23.935                    | 23.921   | 1,1,1,2-TETRACHLOROE | 0.0042   | 203    | 50     |
| 24.014                    | 24.018   | CHLOROBENZENE        | 0.0121   | 307    | 67     |
| 24.700                    | 24.700   | BROMOFORM            | 0.0000   | 0      | 0      |
| 25.184                    | 25.190   | 1,1,2,2-TETRACHLOROE | 0.0053   | 258    | 34     |
| 25.394                    | 25.394   | 1,2,3-TRICHLOROPROPA | 0.0000   | 0      | 0      |
| 26.060                    | 26.060   | BROMOBENZENE         | 0.0000   | 0      | 0      |
| 26.501                    | 26.510   | 2-CHLOROTOLUENE      | 0.0170   | 315    | 68     |
| 26.620                    | 26.629   | 4-CHLOROTOLUENE      | 0.0212   | 661    | 86     |
| 27.710                    | 27.716   | 1,3-DICHLOROBENZENE  | 0.0300   | 924    | 175    |
| 27.821                    | 27.831   | 1,4-DICHLOROBENZENE  | 0.0383   | 2353   | 239    |
| 28.432                    | 28.444   | 1,2-DICHLOROBENZENE  | 0.0256   | 1518   | 145    |
| 29.331                    | 29.331   | 1,2-DIBROMO-3-CHLORO | 0.0000   | 0      | 0      |
| 30.111                    | 30.133   | SURR-1B4CB-H         | 29.0895  | 506424 | 99710  |
| 32.578                    | 32.592   | 1,2,4-TRICHLOROBENZE | 0.0835   | 3625   | 336    |
| 33.541                    | 33.557   | HEXACHLOROBUTADIENE  | 0.0900   | 4041   | 427    |
| 33.974                    | 33.983   | 1,2,3-TRICHLOROBENZE | 0.0920   | 3940   | 314    |
| TOTAL 1,2-DICHLOROETHENE: |          |                      | 0.0517   |        |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples..

Surrogate Recovery: BrClBenzene 96.9649%

Chrom Perfect version 6.07

Reported on 01-01-2002at 00:48:34

Sample name: 3749341

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365.31R

Reviewed by: JSW

Verified by: UMM40

Date: 1-1-02

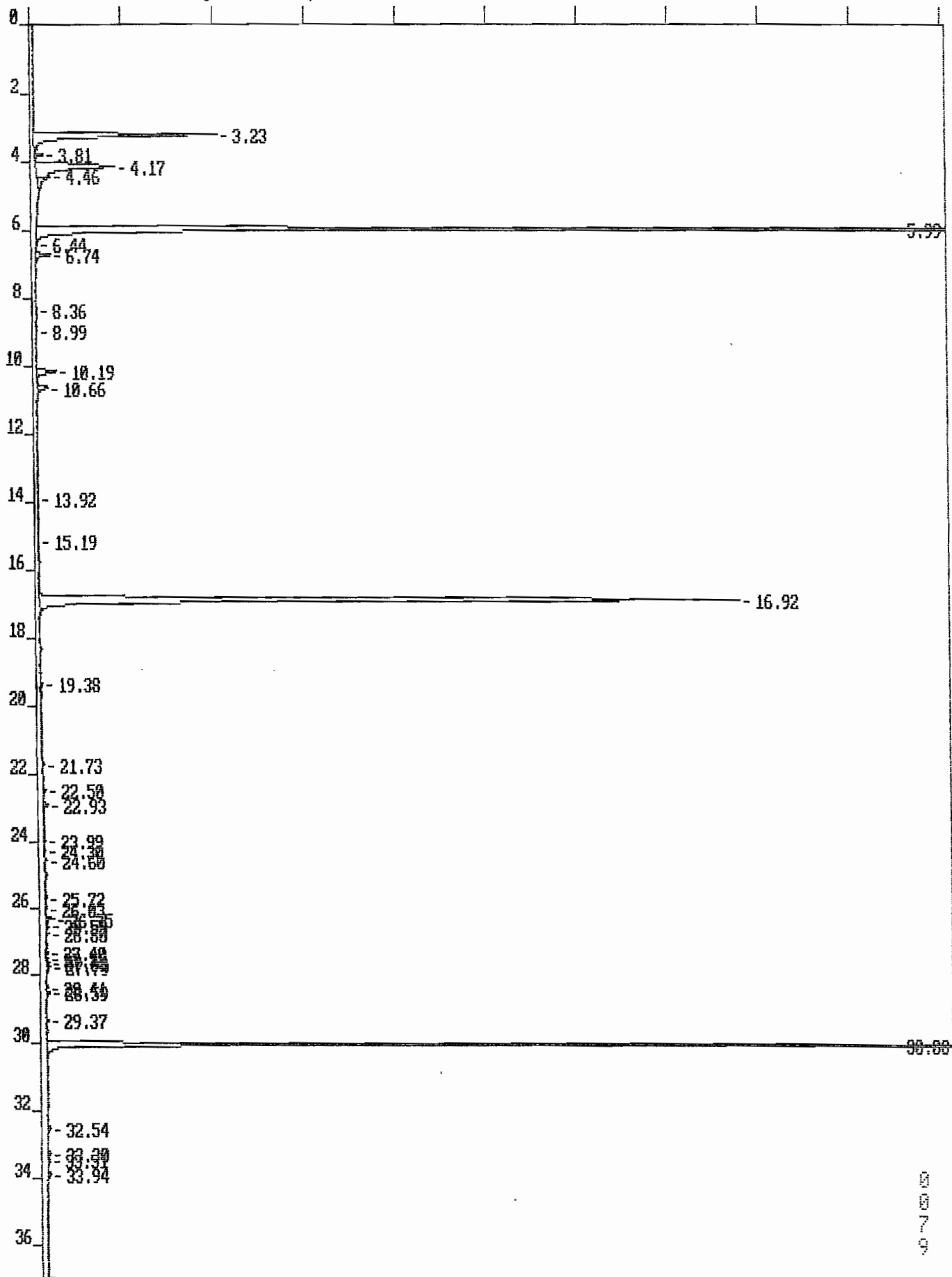
Date: 01/02/02

File=C:\CP\DATA1\183658.31R Date printed=01-01-2002 Time= 00:48:46

Sample Name=3749341

01365A181127,8404

0.0 to 37.0 min. Low Y=0.0 High Y=15.0 mv Span=15.0



Sample Name: 3749341

Batch: 01365A18

Date Taken: Jan 1, 2002 00:47:40

Raw File: C:\CP\DATA1\18365B.31R

Area File: C:\CP\DATA1\18365B.31A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 12):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.275    | 4.275    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 6.741    | 6.732    | 1,1-DICHLOROETHENE   | 0.5709   | 1540   | 239    |
| 8.558    | 8.558    | TRANS-1,2-DICHLOROET | 0.0000   | 0      | 0      |
| 8.986    | 8.946    | METHYL T-BUTYL ETHER | 0.0631   | 135    | 18     |
| 11.000   | 11.000   | CIS-1,2-DICHLOROETHE | 0.0000   | 0      | 0      |
| 15.189   | 15.285   | 1,1-DICHLOROPROPENE  | 0.0477   | 123    | 17     |
| 16.023   | 16.023   | BENZENE              | 0.0000   | 0      | 0      |
| 16.918   | 16.958   | ISTD-FBENZENE        | 1.0000   | 86875  | 11541  |
| 18.353   | 18.353   | TRICHLOROETHENE      | 0.0000   | 0      | 0      |
| 19.845   | 19.845   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.194   | 20.194   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.150   | 21.150   | TRANS-1,3-DICHLOROPR | 0.0000   | 0      | 0      |
| 21.729   | 21.737   | TOLUENE              | 0.0293   | 206    | 51     |
| 22.927   | 22.945   | TETRACHLOROETHENE    | 0.1023   | 473    | 94     |
| 23.989   | 23.995   | CHLOROBENZENE        | 0.0164   | 135    | 38     |
| 24.296   | 24.310   | ETHYLBENZENE         | 0.0174   | 122    | 33     |
| 24.597   | 24.602   | M,P-XYLENE           | 0.0278   | 231    | 53     |
| 25.069   | 25.069   | STYRENE              | 0.0000   | 0      | 0      |
| 25.171   | 25.171   | O-XYLENE             | 0.0000   | 0      | 0      |
| 25.723   | 25.715   | ISOPROPYLBENZENE     | 0.0225   | 126    | 32     |
| 26.033   | 26.033   | BROMOBENZENE         | 0.0175   | 152    | 38     |
| 26.352   | 26.361   | N-PROPYLBENZENE      | 0.0807   | 445    | 135    |
| 26.485   | 26.485   | 2-CHLOROTOLUENE      | 0.0000   | 0      | 0      |
| 26.594   | 26.604   | 4-CHLOROTOLUENE      | 0.0253   | 111    | 49     |
| 26.797   | 26.809   | 1,3,5-TRIMETHYLBENZE | 0.0216   | 155    | 51     |
| 27.234   | 27.234   | TERT-BUTYLBENZENE    | 0.0000   | 0      | 0      |
| 27.401   | 27.416   | 1,2,4-TRIMETHYLBENZE | 0.0280   | 185    | 50     |
| 27.567   | 27.584   | SEC-BUTYLBENZENE     | 0.0339   | 166    | 43     |
| 27.679   | 27.691   | 1,3-DICHLOROBENZENE  | 0.0287   | 180    | 50     |
| 27.793   | 27.806   | 1,4-DICHLOROBENZENE  | 0.0313   | 152    | 54     |
| 27.892   | 27.892   | P-ISOPROPYLTOLUENE   | 0.0000   | 0      | 0      |
| 28.408   | 28.418   | 1,2-DICHLOROBENZENE  | 0.0291   | 131    | 38     |
| 28.588   | 28.605   | N-BUTYLBENZENE       | 0.0551   | 246    | 65     |
| 30.083   | 30.105   | SURR-1B4CB-P         | 26.5666  | 144559 | 38137  |
| 32.545   | 32.563   | 1,2,4-TRICHLOROBENZE | 0.0972   | 293    | 55     |
| 33.297   | 33.311   | NAPHTHALENE          | 0.0575   | 238    | 38     |
| 33.513   | 33.528   | HEXACHLOROBUTADIENE  | 0.1148   | 205    | 38     |
| 33.944   | 33.954   | 1,2,3-TRICHLOROBENZE | 0.1063   | 317    | 50     |

XYLENES (Total): 0.0278

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 88.5553%

Chrom Perfect version 6.07

Reported on 01-01-2002at 00:50:09

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

00000

Sample name: 3749341

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365B.31R

Reviewed by:

TZKS

Verified by:

Vmm49

Date:

1-1-02

Date:

01/02/02

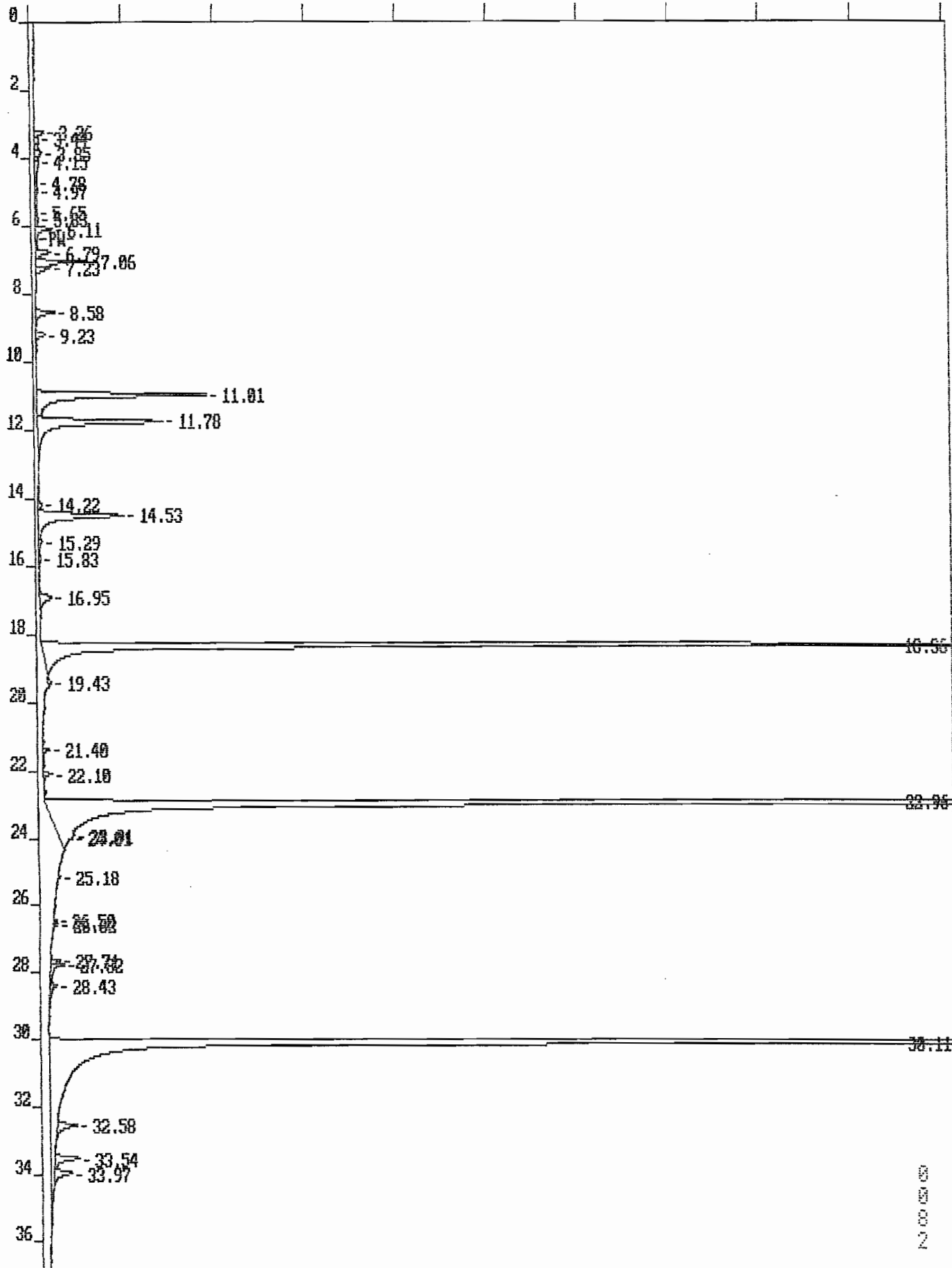


File-C:\CP\DATA1\18365.32R Date printed=01-01-2002 Time= 01:31:12

Sample Name=3749342

01365A181127,8404

0.0 to 37.0 min. Low Y=-0.019 High Y=14.981 mv Span=15.0



Sample Name: 3749342

Batch: 01365A18

Date Taken: Jan 1, 2002 01:31:07

Raw File: C:\CP\DATA1\18365.32R

Area File: C:\CP\DATA1\18365.32A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 12):

| Ret Time                  | Expected | Amount *             | Peak    | Peak           |
|---------------------------|----------|----------------------|---------|----------------|
| (min)                     | RT (min) | (ug/L)               | Area    | Height         |
| 3.847                     | 3.793    | DICHLORODIFLUOROMETH | 0.0637  | 1096 129       |
| 3.973                     | 3.973    | CHLOROMETHANE        | 0.0000  | 0 0            |
| 4.154                     | 4.303    | VINYL CHLORIDE       | 0.0209  | 2070 74        |
| 4.781                     | 4.773    | BROMOMETHANE         | 0.0182  | 566 49         |
| 4.973                     | 4.974    | CHLOROETHANE         | 0.0147  | 1099 62        |
| 5.829                     | 5.839    | TRICHLOROFLUOROMETHA | 0.0222  | 785 57         |
| 6.785                     | 6.760    | 1,1-DICHLOROETHENE   | 0.0554  | 2205 257       |
| 7.063                     | 7.070    | METHYLENE CHLORIDE   | 0.0995  | 5696 825       |
| 7.226                     | 7.254    | TRICHLOROTRIFLUOROET | 0.0675  | 2295 245       |
| 8.576                     | 8.588    | TRANS-1,2-DICHLOROET | 0.0509  | 2655 318       |
| 9.226                     | 9.238    | 1,1-DICHLOROETHANE   | 0.0292  | 1555 156       |
| 11.008                    | 11.030   | CIS-1,2-DICHLOROETHE | 0.5503  | 27437 2785     |
| 11.550                    | 11.550   | BROMOCHLOROMETHANE   | 0.0000  | 0 0            |
| 11.782                    | 11.807   | CHLOROFORM           | 0.3366  | 23485 2059     |
| 12.057                    | 12.057   | 2,2-DICHLOROPROPANE  | 0.0000  | 0 0            |
| 14.216                    | 14.235   | 1,2-DICHLOROETHANE   | 0.0149  | 614 71         |
| 14.531                    | 14.554   | 1,1,1-TRICHLOROETHAN | 0.2804  | 16963 1393     |
| 15.293                    | 15.315   | 1,1-DICHLOROPROPENE  | 0.0130  | 799 57         |
| 15.827                    | 15.838   | CARBON TETRACHLORIDE | 0.0050  | 342 30         |
| 18.053                    | 18.053   | DIBROMOMETHANE       | 0.0000  | 0 0            |
| 18.225                    | 18.225   | 1,2-DICHLOROPROPANE  | 0.0000  | 0 0            |
| 18.364                    | 18.382   | TRICHLOROETHENE      | 2.5841  | 137453 20655   |
| 18.489                    | 18.489   | BROMODICHLOROMETHANE | 0.0000  | 0 0            |
| 19.873                    | 19.873   | 2-CHLOROETHYL VINYL  | 0.0000  | 0 0            |
| 20.220                    | 20.220   | CIS-1,3-DICHLOROPROP | 0.0000  | 0 0            |
| 21.176                    | 21.176   | TRANS-1,3-DICHLOROPR | 0.0000  | 0 0            |
| 21.398                    | 21.405   | 1,1,2-TRICHLOROETHAN | 0.0143  | 765 120        |
| 21.868                    | 21.868   | 1,3-DICHLOROPROPANE  | 0.0000  | 0 0            |
| 22.098                    | 22.251   | DIBROMOCHLOROMETHANE | 0.0261  | 774 152        |
| 22.645                    | 22.645   | 1,2-DIBROMOETHANE    | 0.0000  | 0 0            |
| 22.960                    | 22.971   | TETRACHLOROETHENE    | 24.4442 | 1151076 271662 |
| 23.912                    | 23.921   | 1,1,1,2-TETRACHLOROE | 0.0057  | 253 67         |
| 24.013                    | 24.018   | CHLOROBENZENE        | 0.0115  | 246 63         |
| 24.700                    | 24.700   | BROMOFORM            | 0.0000  | 0 0            |
| 25.180                    | 25.190   | 1,1,2,2-TETRACHLOROE | 0.0076  | 306 49         |
| 25.394                    | 25.394   | 1,2,3-TRICHLOROPROPA | 0.0000  | 0 0            |
| 26.060                    | 26.060   | BROMOBENZENE         | 0.0000  | 0 0            |
| 26.498                    | 26.510   | 2-CHLOROTOLUENE      | 0.0153  | 268 61         |
| 26.622                    | 26.629   | 4-CHLOROTOLUENE      | 0.0186  | 486 75         |
| 27.712                    | 27.716   | 1,3-DICHLOROBENZENE  | 0.0264  | 727 155        |
| 27.823                    | 27.831   | 1,4-DICHLOROBENZENE  | 0.0372  | 2091 232       |
| 28.432                    | 28.444   | 1,2-DICHLOROBENZENE  | 0.0225  | 1298 128       |
| 29.331                    | 29.331   | 1,2-DIBROMO-3-CHLORO | 0.0000  | 0 0            |
| 30.112                    | 30.133   | SURR-1B4CB-H         | 29.0562 | 543674 99596   |
| 32.580                    | 32.592   | 1,2,4-TRICHLOROBENZE | 0.0819  | 3451 329       |
| 33.543                    | 33.557   | HEXACHLOROBUTADIENE  | 0.0887  | 4038 421       |
| 33.971                    | 33.983   | 1,2,3-TRICHLOROBENZE | 0.0902  | 3729 308       |
| TOTAL 1,2-DICHLOROETHENE: |          | 0.6012               |         |                |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 96.8540%

Chrom Perfect version 6.07

Reported on 01-01-2002at 01:32:02

00000000

Sample name: 3749342

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365.32R

Reviewed by:

*T245*

Verified by:

*Vmm49*

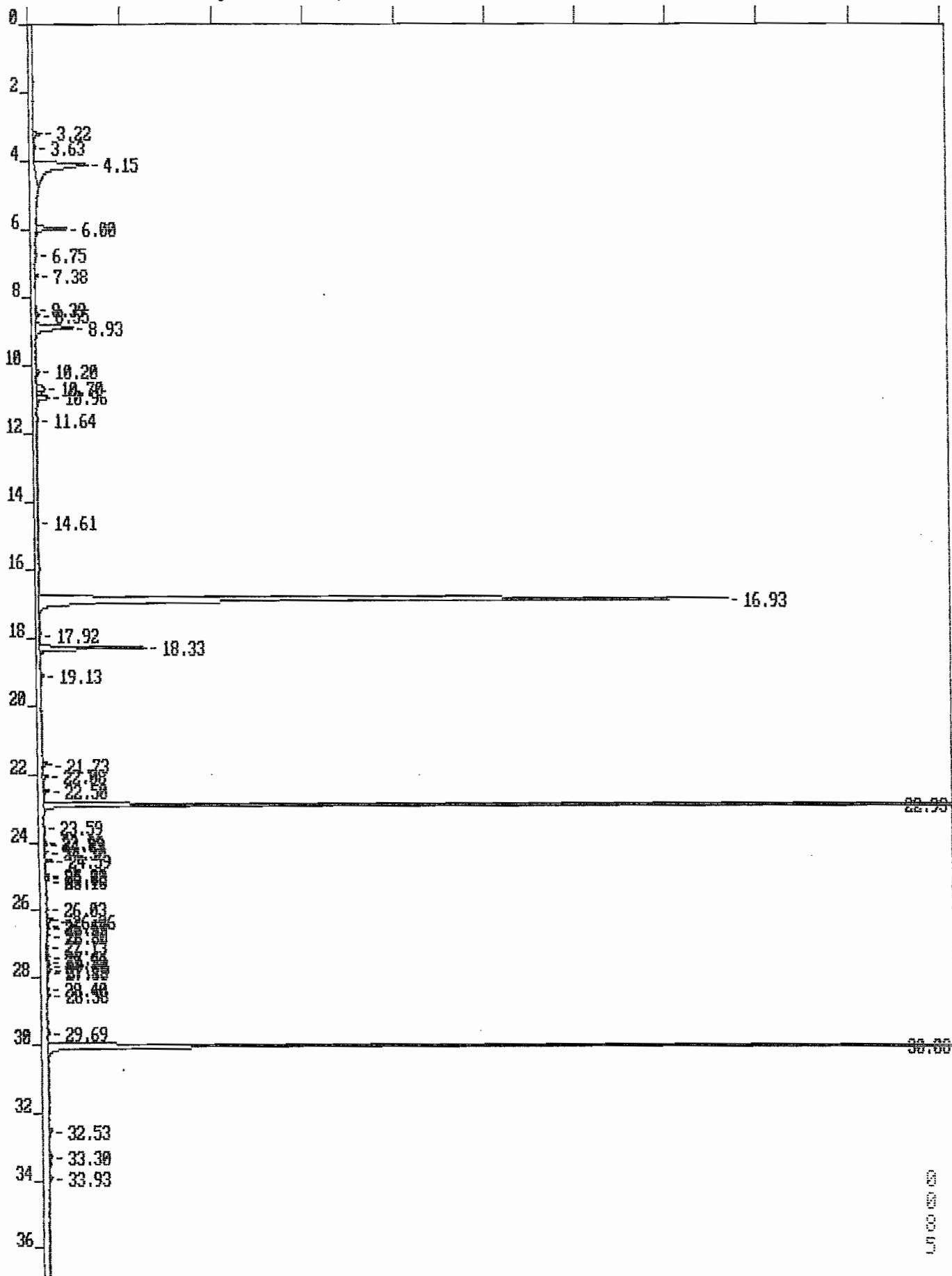
Date:

*1-1-02*

Date:

*01/02/00*

0.0 to 37.0 min. Low Y=0.001 High Y=15.001 mv Span=15.0



Sample Name: 3749342

Batch: 01365A18

Date Taken: Jan 1, 2002 01:31:07

Raw File: C:\CP\DATA1\18365B.32R

Area File: C:\CP\DATA1\18365B.32A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 12):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.275    | 4.275    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 6.748    | 6.732    | 1,1-DICHLOROETHENE   | 0.0915   | 186    | 38     |
| 8.550    | 8.558    | TRANS-1,2-DICHLOROET | 0.0798   | 519    | 76     |
| 8.931    | 8.946    | METHYL T-BUTYL ETHER | 2.1990   | 5330   | 619    |
| 10.964   | 11.000   | CIS-1,2-DICHLOROETHE | 0.5526   | 1675   | 214    |
| 15.285   | 15.285   | 1,1-DICHLOROPROPENE  | 0.0000   | 0      | 0      |
| 16.023   | 16.023   | BENZENE              | 0.0000   | 0      | 0      |
| 16.927   | 16.958   | ISTD-FBENZENE        | 1.0000   | 85779  | 11335  |
| 18.331   | 18.353   | TRICHLOROETHENE      | 2.5663   | 9232   | 1747   |
| 19.845   | 19.845   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.194   | 20.194   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.150   | 21.150   | TRANS-1,3-DICHLOROPR | 0.0000   | 0      | 0      |
| 21.726   | 21.737   | TOLUENE              | 0.0875   | 526    | 149    |
| 22.935   | 22.945   | TETRACHLOROETHENE    | 25.0476  | 68386  | 22650  |
| 23.987   | 23.995   | CHLOROBENZENE        | 0.0183   | 119    | 42     |
| 24.297   | 24.310   | ETHYLBENZENE         | 0.0304   | 152    | 57     |
| 24.594   | 24.602   | M,P-XYLENE           | 0.0733   | 463    | 137    |
| 25.080   | 25.069   | STYRENE              | 0.0270   | 329    | 64     |
| 25.163   | 25.171   | O-XYLENE             | 0.0339   | 193    | 63     |
| 25.715   | 25.715   | ISOPROPYLBENZENE     | 0.0000   | 0      | 0      |
| 26.030   | 26.033   | BROMOBENZENE         | 0.0173   | 122    | 37     |
| 26.355   | 26.361   | N-PROPYLBENZENE      | 0.1073   | 677    | 176    |
| 26.473   | 26.485   | 2-CHLOROTOLUENE      | 0.0218   | 157    | 39     |
| 26.595   | 26.604   | 4-CHLOROTOLUENE      | 0.0282   | 158    | 54     |
| 26.804   | 26.809   | 1,3,5-TRIMETHYLBENZE | 0.0212   | 146    | 49     |
| 27.234   | 27.234   | TERT-BUTYLBENZENE    | 0.0000   | 0      | 0      |
| 27.409   | 27.416   | 1,2,4-TRIMETHYLBENZE | 0.0377   | 313    | 65     |
| 27.576   | 27.584   | SEC-BUTYLBENZENE     | 0.0317   | 154    | 40     |
| 27.674   | 27.691   | 1,3-DICHLOROBENZENE  | 0.0336   | 236    | 57     |
| 27.794   | 27.806   | 1,4-DICHLOROBENZENE  | 0.0453   | 249    | 77     |
| 27.877   | 27.892   | P-ISOPROPYLTOLUENE   | 0.0451   | 236    | 55     |
| 28.400   | 28.418   | 1,2-DICHLOROBENZENE  | 0.0318   | 137    | 41     |
| 28.583   | 28.605   | N-BUTYLBENZENE       | 0.0496   | 243    | 58     |
| 30.084   | 30.105   | SURR-1B4CB-P         | 26.9533  | 143736 | 38002  |
| 32.534   | 32.563   | 1,2,4-TRICHLOROBENZE | 0.0896   | 364    | 50     |
| 33.298   | 33.311   | NAPHTHALENE          | 0.0744   | 263    | 48     |
| 33.528   | 33.528   | HEXACHLOROBUTADIENE  | 0.0000   | 0      | 0      |
| 33.929   | 33.954   | 1,2,3-TRICHLOROBENZE | 0.0884   | 206    | 41     |

XYLENES (Total): 0.1072

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 89.8443%

Chrom Perfect version 6.07

Reported on 01-01-2002at 01:33:37

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: 3749342

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365B.32R

Reviewed by:

TSUS

Verified by:

mm49

Date:

1-1-02

Date:

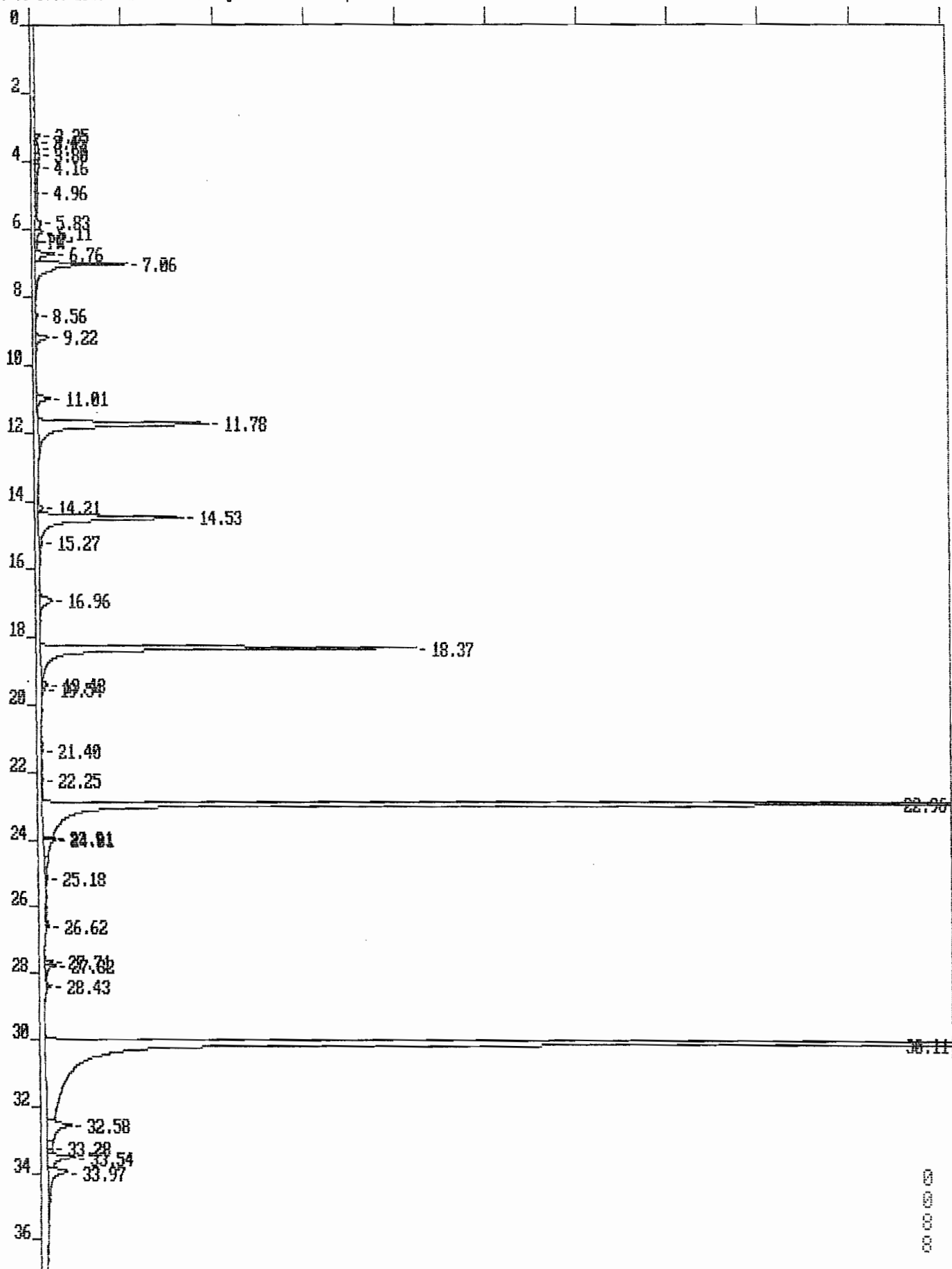
01/01/02

File=C:\CP\DATA1\18365.33R Date printed=01-01-2002 Time= 02:14:33

Sample Name=3749343

01365A181127,8404

0.0 to 37.0 min. Low Y=-0.018 High Y=14.982 mv Span=15.0



Sample Name: 3749343

Batch: 01365A18

Date Taken: Jan 1, 2002 02:14:27

Raw File: C:\CP\DATA1\18365.33R

Area File: C:\CP\DATA1\18365.33A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 12):

| Ret Time                  | Expected |                      | Amount * | Peak   | Peak   |
|---------------------------|----------|----------------------|----------|--------|--------|
| (min)                     | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 3.805                     | 3.793    | DICHLORODIFLUOROMETH | 0.0429   | 934    | 87     |
| 3.973                     | 3.973    | CHLOROMETHANE        | 0.0000   | 0      | 0      |
| 4.158                     | 4.303    | VINYL CHLORIDE       | 0.0232   | 2153   | 82     |
| 4.773                     | 4.773    | BROMOMETHANE         | 0.0000   | 0      | 0      |
| 4.958                     | 4.974    | CHLOROETHANE         | 0.0138   | 1239   | 59     |
| 5.827                     | 5.839    | TRICHLOROFLUOROMETHA | 0.0371   | 1564   | 95     |
| 6.757                     | 6.760    | 1,1-DICHLOROETHENE   | 0.0697   | 2888   | 323    |
| 7.058                     | 7.070    | METHYLENE CHLORIDE   | 0.1822   | 13737  | 1512   |
| 7.254                     | 7.254    | TRICHLOROTRIFLUOROET | 0.0000   | 0      | 0      |
| 8.560                     | 8.588    | TRANS-1,2-DICHLOROET | 0.0064   | 309    | 40     |
| 9.218                     | 9.238    | 1,1-DICHLOROETHANE   | 0.0384   | 1991   | 206    |
| 11.007                    | 11.030   | CIS-1,2-DICHLOROETHE | 0.0434   | 2092   | 220    |
| 11.550                    | 11.550   | BROMOCHLOROMETHANE   | 0.0000   | 0      | 0      |
| 11.778                    | 11.807   | CHLOROFORM           | 0.4585   | 29856  | 2804   |
| 12.057                    | 12.057   | 2,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 14.214                    | 14.235   | 1,2-DICHLOROETHANE   | 0.0166   | 643    | 80     |
| 14.526                    | 14.554   | 1,1,1-TRICHLOROETHAN | 0.4779   | 28716  | 2375   |
| 15.273                    | 15.315   | 1,1-DICHLOROPROPENE  | 0.0064   | 251    | 28     |
| 15.838                    | 15.838   | CARBON TETRACHLORIDE | 0.0000   | 0      | 0      |
| 18.053                    | 18.053   | DIBROMOMETHANE       | 0.0000   | 0      | 0      |
| 18.225                    | 18.225   | 1,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 18.366                    | 18.382   | TRICHLOROETHENE      | 0.7715   | 47959  | 6166   |
| 18.489                    | 18.489   | BROMODICHLOROMETHANE | 0.0000   | 0      | 0      |
| 19.873                    | 19.873   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.220                    | 20.220   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.176                    | 21.176   | TRANS-1,3-DICHLOROPR | 0.0000   | 0      | 0      |
| 21.400                    | 21.405   | 1,1,2-TRICHLOROETHAN | 0.0047   | 238    | 40     |
| 21.868                    | 21.868   | 1,3-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 22.252                    | 22.251   | DIBROMOCHLOROMETHANE | 0.0058   | 227    | 34     |
| 22.645                    | 22.645   | 1,2-DIBROMOETHANE    | 0.0000   | 0      | 0      |
| 22.962                    | 22.971   | TETRACHLOROETHENE    | 4.2415   | 214335 | 47138  |
| 23.914                    | 23.921   | 1,1,1,2-TETRACHLOROE | 0.0156   | 991    | 183    |
| 24.013                    | 24.018   | CHLOROBENZENE        | 0.0353   | 3571   | 195    |
| 24.700                    | 24.700   | BROMOFORM            | 0.0000   | 0      | 0      |
| 25.184                    | 25.190   | 1,1,2,2-TETRACHLOROE | 0.0054   | 345    | 35     |
| 25.394                    | 25.394   | 1,2,3-TRICHLOROPROPA | 0.0000   | 0      | 0      |
| 26.060                    | 26.060   | BROMOBENZENE         | 0.0000   | 0      | 0      |
| 26.510                    | 26.510   | 2-CHLOROTOLUENE      | 0.0000   | 0      | 0      |
| 26.622                    | 26.629   | 4-CHLOROTOLUENE      | 0.0163   | 346    | 66     |
| 27.709                    | 27.716   | 1,3-DICHLOROBENZENE  | 0.0238   | 685    | 139    |
| 27.823                    | 27.831   | 1,4-DICHLOROBENZENE  | 0.0299   | 1640   | 186    |
| 28.432                    | 28.444   | 1,2-DICHLOROBENZENE  | 0.0179   | 550    | 101    |
| 29.331                    | 29.331   | 1,2-DIBROMO-3-CHLORO | 0.0000   | 0      | 0      |
| 30.112                    | 30.133   | SURR-1B4CB-H         | 28.6865  | 532831 | 98329  |
| 32.581                    | 32.592   | 1,2,4-TRICHLOROBENZE | 0.1001   | 7050   | 402    |
| 33.542                    | 33.557   | HEXACHLOROBTADIENE   | 0.0921   | 5135   | 437    |
| 33.971                    | 33.983   | 1,2,3-TRICHLOROBENZE | 0.0930   | 5061   | 318    |
| TOTAL 1,2-DICHLOROETHENE: |          |                      | 0.0498   |        |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 95.6217%

Chrom Perfect version 6.07

Reported on 01-01-2002at 02:15:22

000000



Sample name: 3749343

Batch: 01365A181127,840

Raw file: C:\CP\DATA1\18365.33R

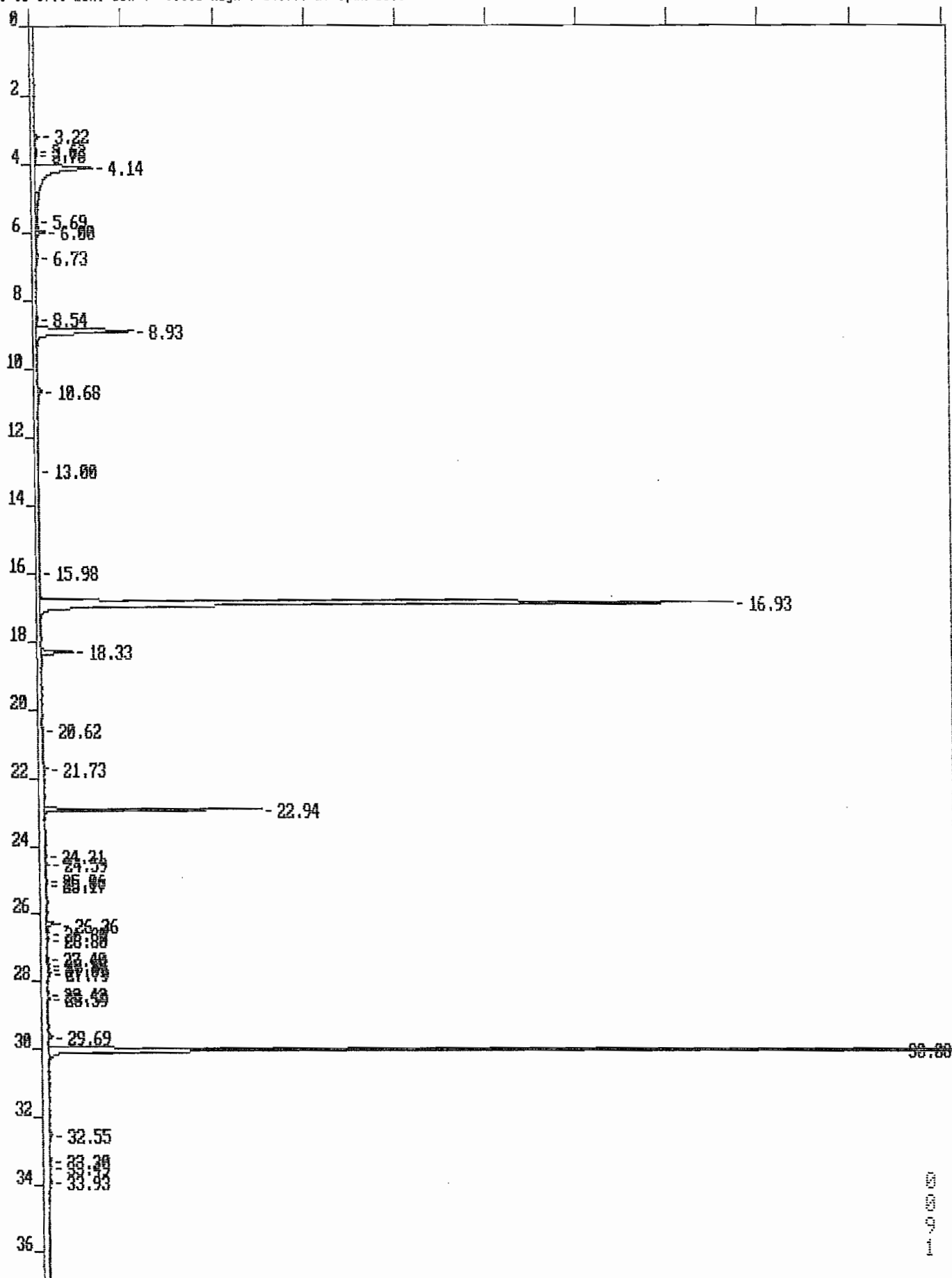
Reviewed by: JS

Verified by: UMM48

Date: 1-1-02

Date: 01/02/02

0.0 to 37.0 min. Low Y=-0.001 High Y=14.999 mv Span=15.0



Sample Name: 3749343

Batch: 01365A18

Date Taken: Jan 1, 2002 02:14:27

Raw File: C:\CP\DATA1\18365B.33R

Area File: C:\CP\DATA1\18365B.33A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 12):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.275    | 4.275    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 6.734    | 6.732    | 1,1-DICHLOROETHENE   | 0.0830   | 193    | 34     |
| 8.539    | 8.558    | TRANS-1,2-DICHLOROET | 0.0228   | 182    | 22     |
| 8.926    | 8.946    | METHYL T-BUTYL ETHER | 5.5694   | 13978  | 1578   |
| 11.000   | 11.000   | CIS-1,2-DICHLOROETHE | 0.0000   | 0      | 0      |
| 15.285   | 15.285   | 1,1-DICHLOROPROPENE  | 0.0000   | 0      | 0      |
| 15.977   | 16.023   | BENZENE              | 0.0304   | 270    | 26     |
| 16.926   | 16.958   | ISTD-FBENZENE        | 1.0000   | 86162  | 11405  |
| 18.332   | 18.353   | TRICHLOROETHENE      | 0.7893   | 2868   | 541    |
| 19.845   | 19.845   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.194   | 20.194   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.150   | 21.150   | TRANS-1,3-DICHLOROPR | 0.0000   | 0      | 0      |
| 21.726   | 21.737   | TOLUENE              | 0.0390   | 210    | 67     |
| 22.936   | 22.945   | TETRACHLOROETHENE    | 3.9327   | 11039  | 3578   |
| 23.995   | 23.995   | CHLOROBENZENE        | 0.0000   | 0      | 0      |
| 24.313   | 24.310   | ETHYLBENZENE         | 0.0166   | 109    | 31     |
| 24.591   | 24.602   | M,P-XYLENE           | 0.0358   | 220    | 67     |
| 25.057   | 25.069   | STYRENE              | 0.0129   | 121    | 31     |
| 25.170   | 25.171   | O-XYLENE             | 0.0167   | 130    | 31     |
| 25.715   | 25.715   | ISOPROPYLBENZENE     | 0.0000   | 0      | 0      |
| 26.033   | 26.033   | BROMOBENZENE         | 0.0000   | 0      | 0      |
| 26.356   | 26.361   | N-PROPYLBENZENE      | 0.1295   | 836    | 214    |
| 26.485   | 26.485   | 2-CHLOROTOLUENE      | 0.0000   | 0      | 0      |
| 26.596   | 26.604   | 4-CHLOROTOLUENE      | 0.0245   | 200    | 47     |
| 26.798   | 26.809   | 1,3,5-TRIMETHYLBENZE | 0.0212   | 187    | 50     |
| 27.234   | 27.234   | TERT-BUTYLBENZENE    | 0.0000   | 0      | 0      |
| 27.400   | 27.416   | 1,2,4-TRIMETHYLBENZE | 0.0193   | 170    | 34     |
| 27.567   | 27.584   | SEC-BUTYLBENZENE     | 0.0298   | 116    | 38     |
| 27.686   | 27.691   | 1,3-DICHLOROBENZENE  | 0.0277   | 149    | 47     |
| 27.792   | 27.806   | 1,4-DICHLOROBENZENE  | 0.0306   | 144    | 53     |
| 27.892   | 27.892   | P-ISOPROPYLTOLUENE   | 0.0000   | 0      | 0      |
| 28.418   | 28.418   | 1,2-DICHLOROBENZENE  | 0.0195   | 113    | 25     |
| 28.588   | 28.605   | N-BUTYLBENZENE       | 0.0417   | 276    | 49     |
| 30.084   | 30.105   | SURR-1B4CB-P         | 26.2938  | 140831 | 37300  |
| 32.547   | 32.563   | 1,2,4-TRICHLOROBENZE | 0.0811   | 292    | 45     |
| 33.302   | 33.311   | NAPHTHALENE          | 0.0640   | 335    | 42     |
| 33.493   | 33.528   | HEXACHLOROBUTADIENE  | 0.1017   | 162    | 34     |
| 33.927   | 33.954   | 1,2,3-TRICHLOROBENZE | 0.0958   | 271    | 44     |

XYLENES (Total): 0.0525

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 87.6460%

Chrom Perfect version 6.07

Reported on 01-01-2002at 02:16:56

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: 3749343

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365B.33R

Reviewed by: JS us

Verified by: MM49

Date: 1-1-02

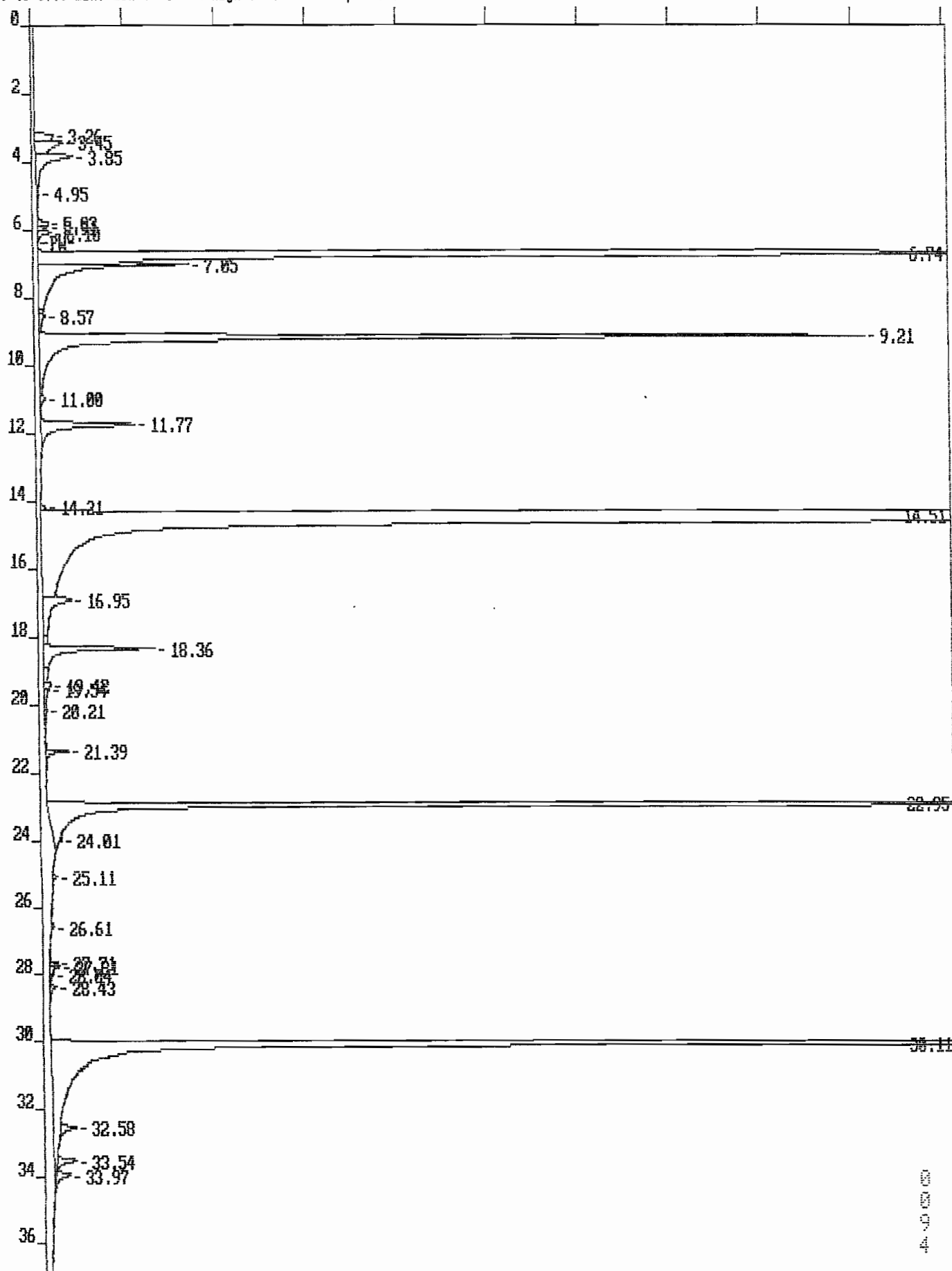
Date: 01/02/02

File:C:\CP\DATA1\18365.34R Date printed:01-01-2002 Time= 02:58:23

Sample Name=3749344

01365A181127,8404

0.0 to 37.0 min. Low Y=-0.012 High Y=14.988 mv Span=15.0



Sample Name: 3749344

Batch: 01365A18

Date Taken: Jan 1, 2002 02:58:18

Raw File: C:\CP\DATA1\18365.34R

Area File: C:\CP\DATA1\18365.34A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 12):

| Ret Time                  | Expected |                      | Amount * | Peak    | Peak   |
|---------------------------|----------|----------------------|----------|---------|--------|
| (min)                     | RT (min) | Peak Name            | (ug/L)   | Area    | Height |
| 3.850                     | 3.793    | DICHLORODIFLUOROMETH | 0.3012   | 10000   | 610    |
| 3.973                     | 3.973    | CHLOROMETHANE        | 0.0000   | 0       | 0      |
| 4.303                     | 4.303    | VINYL CHLORIDE       | 0.0000   | 0       | 0      |
| 4.773                     | 4.773    | BROMOMETHANE         | 0.0000   | 0       | 0      |
| 4.954                     | 4.974    | CHLOROETHANE         | 0.0064   | 248     | 27     |
| 5.829                     | 5.839    | TRICHLOROFLUOROMETHA | 0.0687   | 1083    | 175    |
| 6.742                     | 6.760    | 1,1-DICHLOROETHENE   | 8.8255   | 268412  | 40856  |
| 7.048                     | 7.070    | METHYLENE CHLORIDE   | 0.2967   | 35336   | 2462   |
| 7.254                     | 7.254    | TRICHLOROTRIFLUOROET | 0.0000   | 0       | 0      |
| 8.570                     | 8.588    | TRANS-1,2-DICHLOROET | 0.0172   | 1813    | 107    |
| 9.210                     | 9.238    | 1,1-DICHLOROETHANE   | 2.5343   | 122630  | 13562  |
| 10.999                    | 11.030   | CIS-1,2-DICHLOROETHE | 0.0161   | 984     | 81     |
| 11.550                    | 11.550   | BROMOCHLOROMETHANE   | 0.0000   | 0       | 0      |
| 11.774                    | 11.807   | CHLOROFORM           | 0.2510   | 16292   | 1535   |
| 12.057                    | 12.057   | 2,2-DICHLOROPROPANE  | 0.0000   | 0       | 0      |
| 14.211                    | 14.235   | 1,2-DICHLOROETHANE   | 0.0165   | 476     | 79     |
| 14.514                    | 14.554   | 1,1,1-TRICHLOROETHAN | 35.1771  | 1863383 | 174776 |
| 15.315                    | 15.315   | 1,1-DICHLOROPROPENE  | 0.0000   | 0       | 0      |
| 15.838                    | 15.838   | CARBON TETRACHLORIDE | 0.0000   | 0       | 0      |
| 18.053                    | 18.053   | DIBROMOMETHANE       | 0.0000   | 0       | 0      |
| 18.225                    | 18.225   | 1,2-DICHLOROPROPANE  | 0.0000   | 0       | 0      |
| 18.361                    | 18.382   | TRICHLOROETHENE      | 0.2289   | 16198   | 1830   |
| 18.489                    | 18.489   | BROMODICHLOROMETHANE | 0.0000   | 0       | 0      |
| 19.873                    | 19.873   | 2-CHLOROETHYL VINYL  | 0.0000   | 0       | 0      |
| 20.214                    | 20.220   | CIS-1,3-DICHLOROPROP | 0.0072   | 824     | 52     |
| 21.176                    | 21.176   | TRANS-1,3-DICHLOROPR | 0.0000   | 0       | 0      |
| 21.394                    | 21.405   | 1,1,2-TRICHLOROETHAN | 0.0468   | 2505    | 393    |
| 21.868                    | 21.868   | 1,3-DICHLOROPROPANE  | 0.0000   | 0       | 0      |
| 22.251                    | 22.251   | DIBROMOCHLOROMETHANE | 0.0000   | 0       | 0      |
| 22.645                    | 22.645   | 1,2-DIBROMOETHANE    | 0.0000   | 0       | 0      |
| 22.955                    | 22.971   | TETRACHLOROETHENE    | 6.6696   | 327641  | 74123  |
| 23.921                    | 23.921   | 1,1,1,2-TETRACHLOROE | 0.0000   | 0       | 0      |
| 24.010                    | 24.018   | CHLOROBENZENE        | 0.0097   | 248     | 53     |
| 24.700                    | 24.700   | BROMOFORM            | 0.0000   | 0       | 0      |
| 25.108                    | 25.190   | 1,1,2,2-TETRACHLOROE | 0.0127   | 503     | 82     |
| 25.394                    | 25.394   | 1,2,3-TRICHLOROPROPA | 0.0000   | 0       | 0      |
| 26.060                    | 26.060   | BROMOBENZENE         | 0.0000   | 0       | 0      |
| 26.510                    | 26.510   | 2-CHLOROTOLUENE      | 0.0000   | 0       | 0      |
| 26.614                    | 26.629   | 4-CHLOROTOLUENE      | 0.0145   | 332     | 59     |
| 27.706                    | 27.716   | 1,3-DICHLOROBENZENE  | 0.0228   | 627     | 133    |
| 27.814                    | 27.831   | 1,4-DICHLOROBENZENE  | 0.0273   | 1220    | 170    |
| 28.426                    | 28.444   | 1,2-DICHLOROBENZENE  | 0.0209   | 1056    | 119    |
| 29.331                    | 29.331   | 1,2-DIBROMO-3-CHLORO | 0.0000   | 0       | 0      |
| 30.107                    | 30.133   | SURR-1B4CB-H         | 29.5107  | 549790  | 101154 |
| 32.580                    | 32.592   | 1,2,4-TRICHLOROBENZE | 0.0658   | 2644    | 264    |
| 33.541                    | 33.557   | HEXACHLOROBUTADIENE  | 0.0690   | 3139    | 327    |
| 33.971                    | 33.983   | 1,2,3-TRICHLOROBENZE | 0.0716   | 2996    | 245    |
| TOTAL 1,2-DICHLOROETHENE: |          |                      | 0.0332   |         |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 98.3691%

Chrom Perfect version 6.07

Reported on 01-01-2002at 02:59:13

0095

Sample name: 3749344

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365.34R

Reviewed by:

*[Signature]*

Verified by:

*Vmm49*

Date:

*1-1-02*

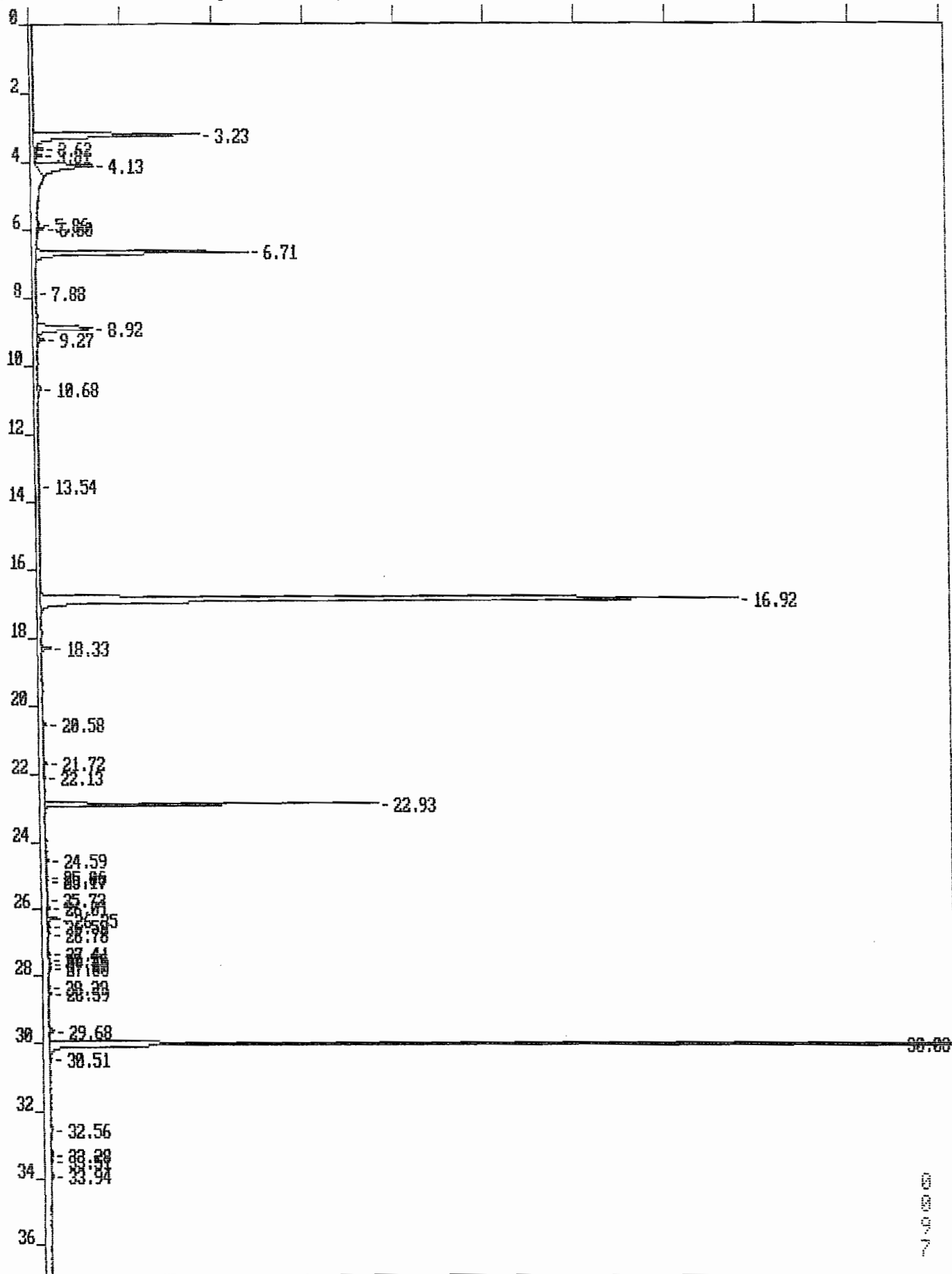
Date:

*1/1/02*

File=C:\CP\DATA1\18365B.34R Date printed=01-01-2002 Time= 02:59:24

Sample Name=3749344 01365A181127,8404

0.0 to 37.0 min. Low Y=0.001 High Y=15.001 mv Span=15.0





Sample Name: 3749344

Batch: 01365A18

Date Taken: Jan 1, 2002 02:58:18

Raw File: C:\CP\DATA1\18365B.34R

Area File: C:\CP\DATA1\18365B.34A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 12):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.275    | 4.275    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 6.712    | 6.732    | 1,1-DICHLOROETHENE   | 8.3329   | 18995  | 3485   |
| 8.558    | 8.558    | TRANS-1,2-DICHLOROET | 0.0000   | 0      | 0      |
| 8.923    | 8.946    | METHYL T-BUTYL ETHER | 3.1969   | 7856   | 915    |
| 11.000   | 11.000   | CIS-1,2-DICHLOROETHE | 0.0000   | 0      | 0      |
| 15.285   | 15.285   | 1,1-DICHLOROPROPENE  | 0.0000   | 0      | 0      |
| 16.023   | 16.023   | BENZENE              | 0.0000   | 0      | 0      |
| 16.918   | 16.958   | ISTD-FBENZENE        | 1.0000   | 86953  | 11521  |
| 18.330   | 18.353   | TRICHLOROETHENE      | 0.2468   | 999    | 171    |
| 19.845   | 19.845   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.194   | 20.194   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.150   | 21.150   | TRANS-1,3-DICHLOROPR | 0.0000   | 0      | 0      |
| 21.717   | 21.737   | TOLUENE              | 0.0404   | 304    | 70     |
| 22.928   | 22.945   | TETRACHLOROETHENE    | 6.0189   | 16953  | 5532   |
| 23.995   | 23.995   | CHLOROBENZENE        | 0.0000   | 0      | 0      |
| 24.310   | 24.310   | ETHYLBENZENE         | 0.0000   | 0      | 0      |
| 24.586   | 24.602   | M,P-XYLENE           | 0.0297   | 277    | 56     |
| 25.058   | 25.069   | STYRENE              | 0.0165   | 145    | 40     |
| 25.166   | 25.171   | O-XYLENE             | 0.0169   | 111    | 32     |
| 25.721   | 25.715   | ISOPROPYLBENZENE     | 0.0191   | 160    | 27     |
| 26.014   | 26.033   | BROMOBENZENE         | 0.0224   | 221    | 48     |
| 26.346   | 26.361   | N-PROPYLBENZENE      | 0.1234   | 924    | 206    |
| 26.485   | 26.485   | 2-CHLOROTOLUENE      | 0.0000   | 0      | 0      |
| 26.590   | 26.604   | 4-CHLOROTOLUENE      | 0.0243   | 119    | 47     |
| 26.784   | 26.809   | 1,3,5-TRIMETHYLBENZE | 0.0167   | 109    | 39     |
| 27.234   | 27.234   | TERT-BUTYLBENZENE    | 0.0000   | 0      | 0      |
| 27.405   | 27.416   | 1,2,4-TRIMETHYLBENZE | 0.0246   | 144    | 43     |
| 27.550   | 27.584   | SEC-BUTYLBENZENE     | 0.0223   | 110    | 28     |
| 27.676   | 27.691   | 1,3-DICHLOROBENZENE  | 0.0276   | 139    | 48     |
| 27.796   | 27.806   | 1,4-DICHLOROBENZENE  | 0.0229   | 119    | 40     |
| 27.892   | 27.892   | P-ISOPROPYLTOLUENE   | 0.0000   | 0      | 0      |
| 28.393   | 28.418   | 1,2-DICHLOROBENZENE  | 0.0297   | 168    | 39     |
| 28.586   | 28.605   | N-BUTYLBENZENE       | 0.0416   | 193    | 49     |
| 30.079   | 30.105   | SURR-1B4CB-P         | 26.2165  | 142432 | 37569  |
| 32.563   | 32.563   | 1,2,4-TRICHLOROBENZE | 0.0571   | 195    | 32     |
| 33.283   | 33.311   | NAPHTHALENE          | 0.0467   | 155    | 31     |
| 33.507   | 33.528   | HEXACHLOROBUTADIENE  | 0.0791   | 186    | 26     |
| 33.940   | 33.954   | 1,2,3-TRICHLOROBENZE | 0.0771   | 215    | 36     |

XYLENES (Total): 0.0466

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 87.3882%

Chrom Perfect version 6.07

Reported on 01-01-2002at 03:00:46

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: 3749344

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365B.34R

Reviewed by:

*[Signature]*

Verified by:

*mm49*

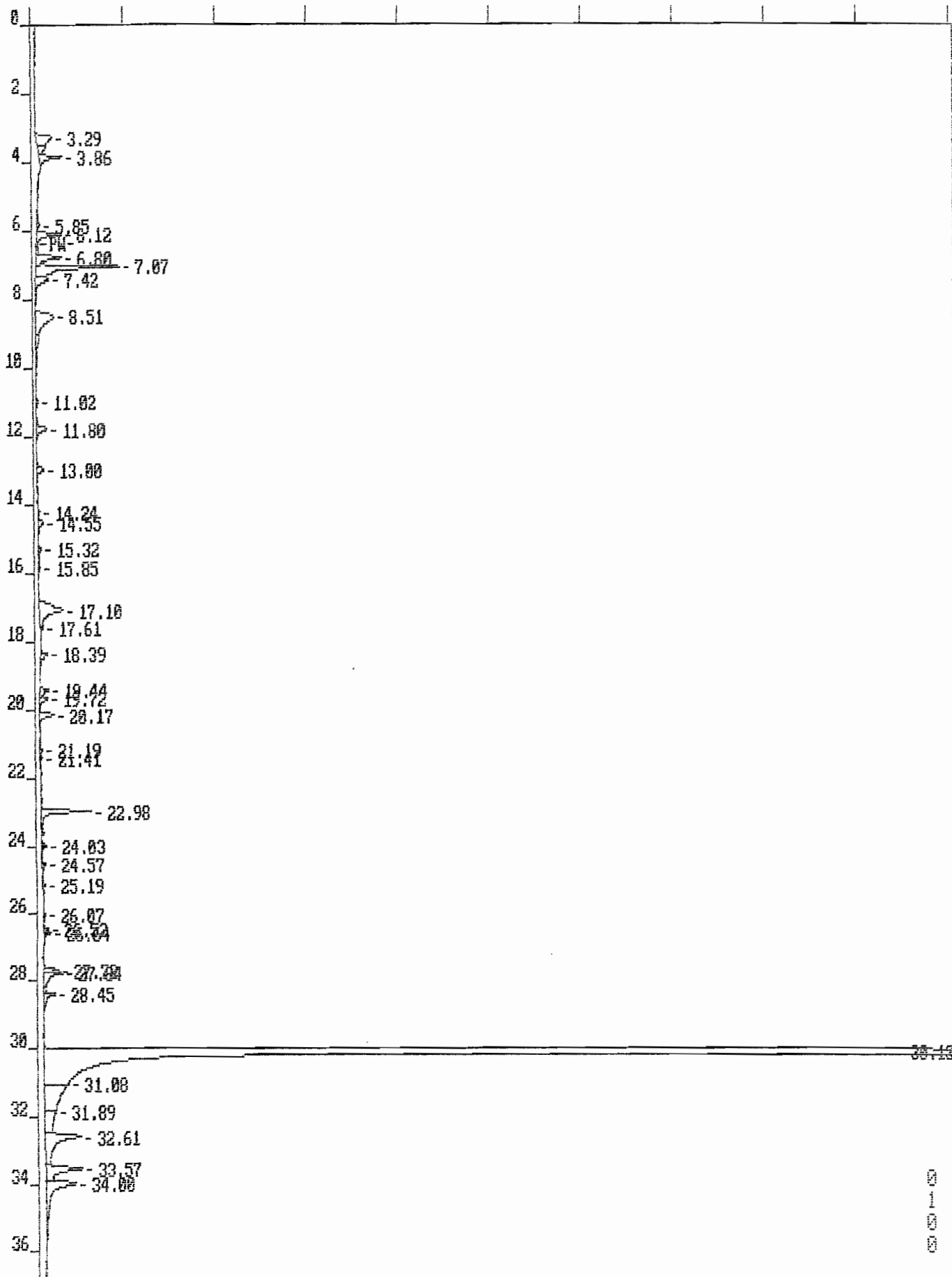
Date:

*1-1-02*

Date:

*01/02/02*

File=C:\CP\DATA1\18365.21R Date printed=12-31-2001 Time= 16:54:52  
Sample Name=3749345 01365A181127,8404,8400,8401  
0.0 to 37.0 min. Low Y=-0.014 High Y=14.986 mv Span=15.0



Sample Name: 3749345

Batch: 01365A18

Date Taken: Dec 31, 2001 16:54:47

Raw File: C:\CP\DATA1\18365.21R

Area File: C:\CP\DATA1\18365.21A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 11):

| Ret Time                  | Expected |                      | Amount * | Peak   | Peak   |
|---------------------------|----------|----------------------|----------|--------|--------|
| (min)                     | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 3.862                     | 3.805    | DICHLORODIFLUOROMETH | 0.1826   | 2689   | 370    |
| 3.985                     | 3.985    | CHLOROMETHANE        | 0.0000   | 0      | 0      |
| 4.314                     | 4.314    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 4.780                     | 4.780    | BROMOMETHANE         | 0.0000   | 0      | 0      |
| 4.980                     | 4.980    | CHLOROETHANE         | 0.0000   | 0      | 0      |
| 5.847                     | 5.837    | TRICHLOROFLUOROMETHA | 0.0161   | 384    | 41     |
| 6.800                     | 6.761    | 1,1-DICHLOROETHENE   | 0.0898   | 3416   | 416    |
| 7.074                     | 7.069    | METHYLENE CHLORIDE   | 0.1620   | 10765  | 1344   |
| 7.420                     | 7.253    | TRICHLOROTRIFLUOROET | 0.0604   | 2447   | 219    |
| 8.511                     | 8.582    | TRANS-1,2-DICHLOROET | 0.0462   | 6600   | 289    |
| 9.231                     | 9.231    | 1,1-DICHLOROETHANE   | 0.0000   | 0      | 0      |
| 11.021                    | 11.019   | CIS-1,2-DICHLOROETHE | 0.0064   | 260    | 32     |
| 11.537                    | 11.537   | BROMOCHLOROMETHANE   | 0.0000   | 0      | 0      |
| 11.800                    | 11.792   | CHLOROFORM           | 0.0284   | 1943   | 174    |
| 12.040                    | 12.040   | 2,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 14.243                    | 14.223   | 1,2-DICHLOROETHANE   | 0.0069   | 261    | 33     |
| 14.551                    | 14.542   | 1,1,1-TRICHLOROETHAN | 0.0171   | 827    | 85     |
| 15.323                    | 15.305   | 1,1-DICHLOROPROPENE  | 0.0110   | 429    | 48     |
| 15.851                    | 15.828   | CARBON TETRACHLORIDE | 0.0042   | 219    | 26     |
| 18.048                    | 18.048   | DIBROMOMETHANE       | 0.0000   | 0      | 0      |
| 18.220                    | 18.220   | 1,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 18.393                    | 18.377   | TRICHLOROETHENE      | 0.0146   | 1067   | 117    |
| 18.485                    | 18.485   | BROMODICHLOROMETHANE | 0.0000   | 0      | 0      |
| 19.715                    | 19.872   | 2-CHLOROETHYL VINYL  | 0.0566   | 1122   | 130    |
| 20.168                    | 20.220   | CIS-1,3-DICHLOROPROP | 0.0333   | 2004   | 240    |
| 21.193                    | 21.176   | TRANS-1,3-DICHLOROPR | 0.0075   | 334    | 52     |
| 21.411                    | 21.406   | 1,1,2-TRICHLOROETHAN | 0.0058   | 331    | 49     |
| 21.869                    | 21.869   | 1,3-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 22.253                    | 22.253   | DIBROMOCHLOROMETHANE | 0.0000   | 0      | 0      |
| 22.648                    | 22.648   | 1,2-DIBROMOETHANE    | 0.0000   | 0      | 0      |
| 22.977                    | 22.974   | TETRACHLOROETHENE    | 0.0744   | 4732   | 827    |
| 23.925                    | 23.925   | 1,1,1,2-TETRACHLOROE | 0.0000   | 0      | 0      |
| 24.026                    | 24.022   | CHLOROBENZENE        | 0.0149   | 518    | 82     |
| 24.571                    | 24.704   | BROMOFORM            | 0.0165   | 448    | 61     |
| 25.190                    | 25.194   | 1,1,2,2-TETRACHLOROE | 0.0059   | 255    | 38     |
| 25.398                    | 25.398   | 1,2,3-TRICHLOROPROPA | 0.0000   | 0      | 0      |
| 26.074                    | 26.064   | BROMOBENZENE         | 0.0140   | 204    | 40     |
| 26.519                    | 26.514   | 2-CHLOROTOLUENE      | 0.0203   | 374    | 81     |
| 26.637                    | 26.633   | 4-CHLOROTOLUENE      | 0.0266   | 595    | 107    |
| 27.725                    | 27.719   | 1,3-DICHLOROBENZENE  | 0.0422   | 1189   | 247    |
| 27.839                    | 27.833   | 1,4-DICHLOROBENZENE  | 0.0504   | 3108   | 314    |
| 28.450                    | 28.444   | 1,2-DICHLOROBENZENE  | 0.0357   | 2000   | 202    |
| 29.330                    | 29.330   | 1,2-DIBROMO-3-CHLORO | 0.0000   | 0      | 0      |
| 30.134                    | 30.132   | SURR-1B4CB-H         | 27.2850  | 490502 | 93525  |
| 32.606                    | 32.593   | 1,2,4-TRICHLOROBENZE | 0.1484   | 10738  | 596    |
| 33.572                    | 33.559   | HEXACHLOROBUTADIENE  | 0.1291   | 7141   | 612    |
| 34.004                    | 33.985   | 1,2,3-TRICHLOROBENZE | 0.1484   | 9058   | 507    |
| TOTAL 1,2-DICHLOROETHENE: |          |                      | 0.0526   |        |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 90.9500%

Chrom Perfect version 6.07

Reported on 12-31-2001 at 16:55:42

11/31/01

Sample name: 3749345

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365.21R

Reviewed by: SKP688

Verified by: Jmm49

Date: 12-31-01

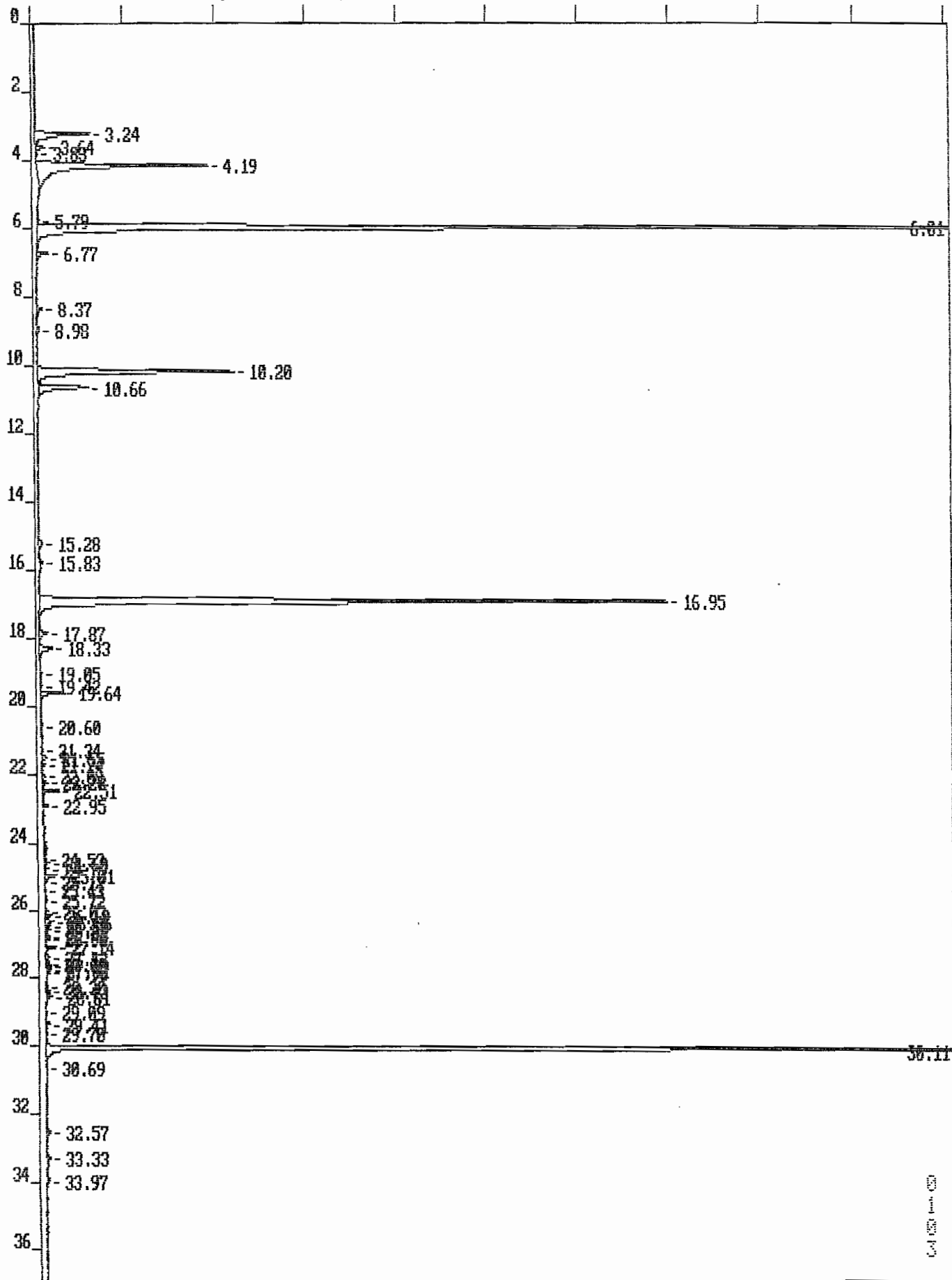
Date: 01/02/02

File=C:\CP\DATA1\183658.21R Date printed=12-31-2001 Time= 16:55:52

Sample Name=3749345

01365A181127,8404,8400,8401

0.0 to 37.0 min. Low Y=0.008 High Y=15.008 mv Span=15.0



Sample Name: 3749345

Batch: 01365A18

Date Taken: Dec 31, 2001 16:54:47

Raw File: C:\CP\DATA1\18365B.21R

Area File: C:\CP\DATA1\18365B.21A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 11):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.287    | 4.287    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 6.770    | 6.733    | 1,1-DICHLOROETHENE   | 0.4960   | 1312   | 186    |
| 8.371    | 8.554    | TRANS-1,2-DICHLOROET | 0.1144   | 825    | 100    |
| 8.977    | 8.939    | METHYL T-BUTYL ETHER | 0.1972   | 401    | 51     |
| 10.989   | 10.989   | CIS-1,2-DICHLOROETHE | 0.0000   | 0      | 0      |
| 15.277   | 15.276   | 1,1-DICHLOROPROPENE  | 0.2077   | 639    | 64     |
| 15.826   | 16.012   | BENZENE              | 0.0554   | 290    | 42     |
| 16.952   | 16.948   | ISTD-FBENZENE        | 1.0000   | 78488  | 10343  |
| 18.328   | 18.349   | TRICHLOROETHENE      | 0.3241   | 1897   | 201    |
| 19.845   | 19.845   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.193   | 20.193   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.337   | 21.151   | TRANS-1,3-DICHLOROPR | 0.0536   | 111    | 30     |
| 21.743   | 21.738   | TOLUENE              | 0.0410   | 238    | 64     |
| 22.947   | 22.948   | TETRACHLOROETHENE    | 0.1034   | 294    | 85     |
| 23.999   | 23.999   | CHLOROBENZENE        | 0.0000   | 0      | 0      |
| 24.314   | 24.314   | ETHYLBENZENE         | 0.0000   | 0      | 0      |
| 24.604   | 24.606   | M,P-XYLENE           | 0.0568   | 437    | 97     |
| 25.072   | 25.072   | STYRENE              | 0.0000   | 0      | 0      |
| 25.170   | 25.175   | O-XYLENE             | 0.0277   | 219    | 47     |
| 25.724   | 25.719   | ISOPROPYLBENZENE     | 0.0281   | 215    | 36     |
| 26.035   | 26.037   | BROMOBENZENE         | 0.0259   | 172    | 50     |
| 26.364   | 26.365   | N-PROPYLBENZENE      | 0.0907   | 808    | 136    |
| 26.496   | 26.488   | 2-CHLOROTOLUENE      | 0.0512   | 322    | 84     |
| 26.610   | 26.607   | 4-CHLOROTOLUENE      | 0.0526   | 420    | 92     |
| 26.811   | 26.812   | 1,3,5-TRIMETHYLBENZE | 0.0359   | 336    | 76     |
| 27.137   | 27.236   | TERT-BUTYLBENZENE    | 0.1399   | 475    | 156    |
| 27.419   | 27.418   | 1,2,4-TRIMETHYLBENZE | 0.0378   | 269    | 60     |
| 27.596   | 27.586   | SEC-BUTYLBENZENE     | 0.0374   | 157    | 43     |
| 27.694   | 27.693   | 1,3-DICHLOROBENZENE  | 0.0550   | 296    | 85     |
| 27.807   | 27.808   | 1,4-DICHLOROBENZENE  | 0.0540   | 303    | 84     |
| 27.896   | 27.894   | P-ISOPROPYLTOLUENE   | 0.0505   | 242    | 57     |
| 28.432   | 28.418   | 1,2-DICHLOROBENZENE  | 0.0547   | 369    | 64     |
| 28.613   | 28.606   | N-BUTYLBENZENE       | 0.0887   | 403    | 94     |
| 30.106   | 30.104   | SURR-1B4CB-P         | 26.9306  | 131593 | 34647  |
| 32.566   | 32.565   | 1,2,4-TRICHLOROBENZE | 0.1285   | 558    | 65     |
| 33.333   | 33.312   | NAPHTHALENE          | 0.0965   | 399    | 57     |
| 33.530   | 33.530   | HEXACHLOROBUTADIENE  | 0.0000   | 0      | 0      |
| 33.971   | 33.955   | 1,2,3-TRICHLOROBENZE | 0.1321   | 403    | 55     |

XYLENES (Total): 0.0846

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 89.7687%

Chrom Perfect version 6.07

Reported on 12-31-2001at 16:57:15

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: 3749345

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365B.21R

Reviewed by: SKP1088

Verified by: MM49

Date: 12-31-01

Date: 01/02/02

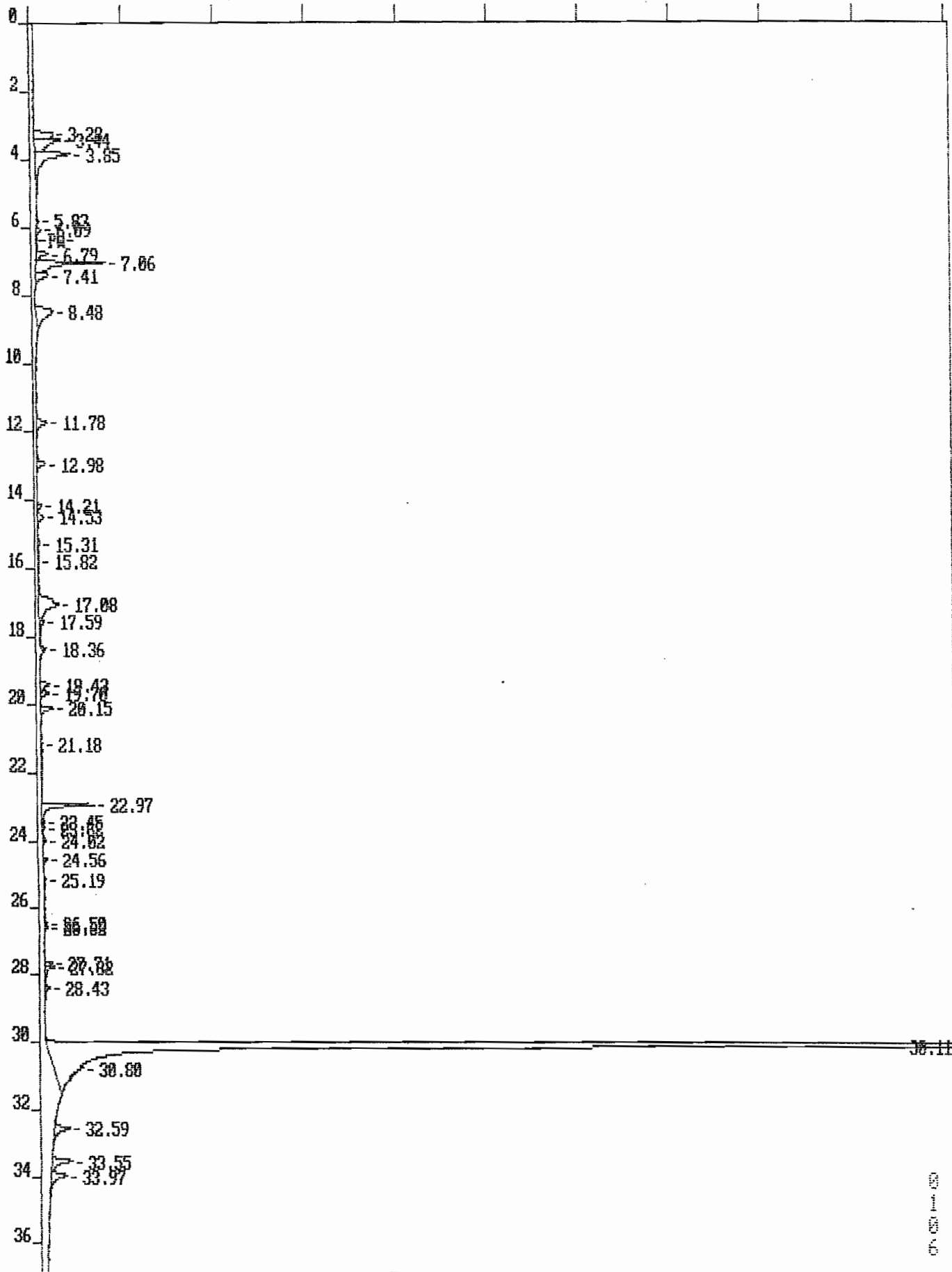


File=C:\CP\DATA1\18365.35R Date printed=01-01-2002 Time= 03:41:37

Sample Name=3749346

01365A181127,8404

0.0 to 37.0 min. Low Y=-0.023 High Y=14.977 mv Span=15.0



Sample Name: 3749346

Batch: 01365A18

Date Taken: Jan 1, 2002 03:41:32

Raw File: C:\CP\DATA1\18365.35R

Area File: C:\CP\DATA1\18365.35A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 12):

| Ret Time                  | Expected |                      | Amount * | Peak   | Peak   |
|---------------------------|----------|----------------------|----------|--------|--------|
| (min)                     | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 3.853                     | 3.793    | DICHLORODIFLUOROMETH | 0.2868   | 7758   | 581    |
| 3.973                     | 3.973    | CHLOROMETHANE        | 0.0000   | 0      | 0      |
| 4.303                     | 4.303    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 4.773                     | 4.773    | BROMOMETHANE         | 0.0000   | 0      | 0      |
| 4.974                     | 4.974    | CHLOROETHANE         | 0.0000   | 0      | 0      |
| 5.828                     | 5.839    | TRICHLOROFLUOROMETHA | 0.0161   | 359    | 41     |
| 6.788                     | 6.760    | 1,1-DICHLOROETHENE   | 0.0443   | 1763   | 205    |
| 7.057                     | 7.070    | METHYLENE CHLORIDE   | 0.1370   | 8870   | 1137   |
| 7.412                     | 7.254    | TRICHLOROTRIFLUOROET | 0.0582   | 2356   | 211    |
| 8.483                     | 8.588    | TRANS-1,2-DICHLOROET | 0.0437   | 5360   | 273    |
| 9.238                     | 9.238    | 1,1-DICHLOROETHANE   | 0.0000   | 0      | 0      |
| 11.030                    | 11.030   | CIS-1,2-DICHLOROETHE | 0.0000   | 0      | 0      |
| 11.550                    | 11.550   | BROMOCHLOROMETHANE   | 0.0000   | 0      | 0      |
| 11.778                    | 11.807   | CHLOROFORM           | 0.0293   | 1984   | 179    |
| 12.057                    | 12.057   | 2,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 14.214                    | 14.235   | 1,2-DICHLOROETHANE   | 0.0148   | 623    | 71     |
| 14.530                    | 14.554   | 1,1,1-TRICHLOROETHAN | 0.0209   | 1302   | 104    |
| 15.307                    | 15.315   | 1,1-DICHLOROPROPENE  | 0.0082   | 319    | 36     |
| 15.823                    | 15.838   | CARBON TETRACHLORIDE | 0.0040   | 257    | 24     |
| 18.053                    | 18.053   | DIBROMOMETHANE       | 0.0000   | 0      | 0      |
| 18.225                    | 18.225   | 1,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 18.363                    | 18.382   | TRICHLOROETHENE      | 0.0079   | 295    | 63     |
| 18.489                    | 18.489   | BROMODICHLOROMETHANE | 0.0000   | 0      | 0      |
| 19.705                    | 19.873   | 2-CHLOROETHYL VINYL  | 0.0601   | 1121   | 138    |
| 20.150                    | 20.220   | CIS-1,3-DICHLOROPROP | 0.0291   | 1557   | 210    |
| 21.184                    | 21.176   | TRANS-1,3-DICHLOROPR | 0.0040   | 209    | 28     |
| 21.405                    | 21.405   | 1,1,2-TRICHLOROETHAN | 0.0000   | 0      | 0      |
| 21.868                    | 21.868   | 1,3-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 22.251                    | 22.251   | DIBROMOCHLOROMETHANE | 0.0000   | 0      | 0      |
| 22.645                    | 22.645   | 1,2-DIBROMOETHANE    | 0.0000   | 0      | 0      |
| 22.965                    | 22.971   | TETRACHLOROETHENE    | 0.0779   | 4976   | 865    |
| 23.921                    | 23.921   | 1,1,1,2-TETRACHLOROE | 0.0000   | 0      | 0      |
| 24.016                    | 24.018   | CHLOROBENZENE        | 0.0098   | 310    | 54     |
| 24.560                    | 24.700   | BROMOFORM            | 0.0225   | 576    | 83     |
| 25.187                    | 25.190   | 1,1,2,2-TETRACHLOROE | 0.0061   | 320    | 39     |
| 25.394                    | 25.394   | 1,2,3-TRICHLOROPROPA | 0.0000   | 0      | 0      |
| 26.060                    | 26.060   | BROMOBENZENE         | 0.0000   | 0      | 0      |
| 26.503                    | 26.510   | 2-CHLOROTOLUENE      | 0.0126   | 329    | 50     |
| 26.624                    | 26.629   | 4-CHLOROTOLUENE      | 0.0155   | 377    | 63     |
| 27.713                    | 27.716   | 1,3-DICHLOROBENZENE  | 0.0221   | 634    | 129    |
| 27.821                    | 27.831   | 1,4-DICHLOROBENZENE  | 0.0266   | 1474   | 166    |
| 28.435                    | 28.444   | 1,2-DICHLOROBENZENE  | 0.0179   | 999    | 101    |
| 29.331                    | 29.331   | 1,2-DIBROMO-3-CHLORO | 0.0000   | 0      | 0      |
| 30.114                    | 30.133   | SURR-1B4CB-H         | 28.0858  | 503874 | 96270  |
| 32.586                    | 32.592   | 1,2,4-TRICHLOROBENZE | 0.0632   | 2777   | 254    |
| 33.550                    | 33.557   | HEXACHLOROBUTADIENE  | 0.0708   | 3340   | 336    |
| 33.974                    | 33.983   | 1,2,3-TRICHLOROBENZE | 0.0742   | 3157   | 253    |
| TOTAL 1,2-DICHLOROETHENE: |          |                      | 0.0437   |        |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 93.6194%

Chrom Perfect version 6.07

Reported on 01-01-2002at 03:42:27

1107

Sample name: 3749346

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365.35R

Reviewed by:       J245      

Verified by:       jmm49      

Date:       1-1-02      

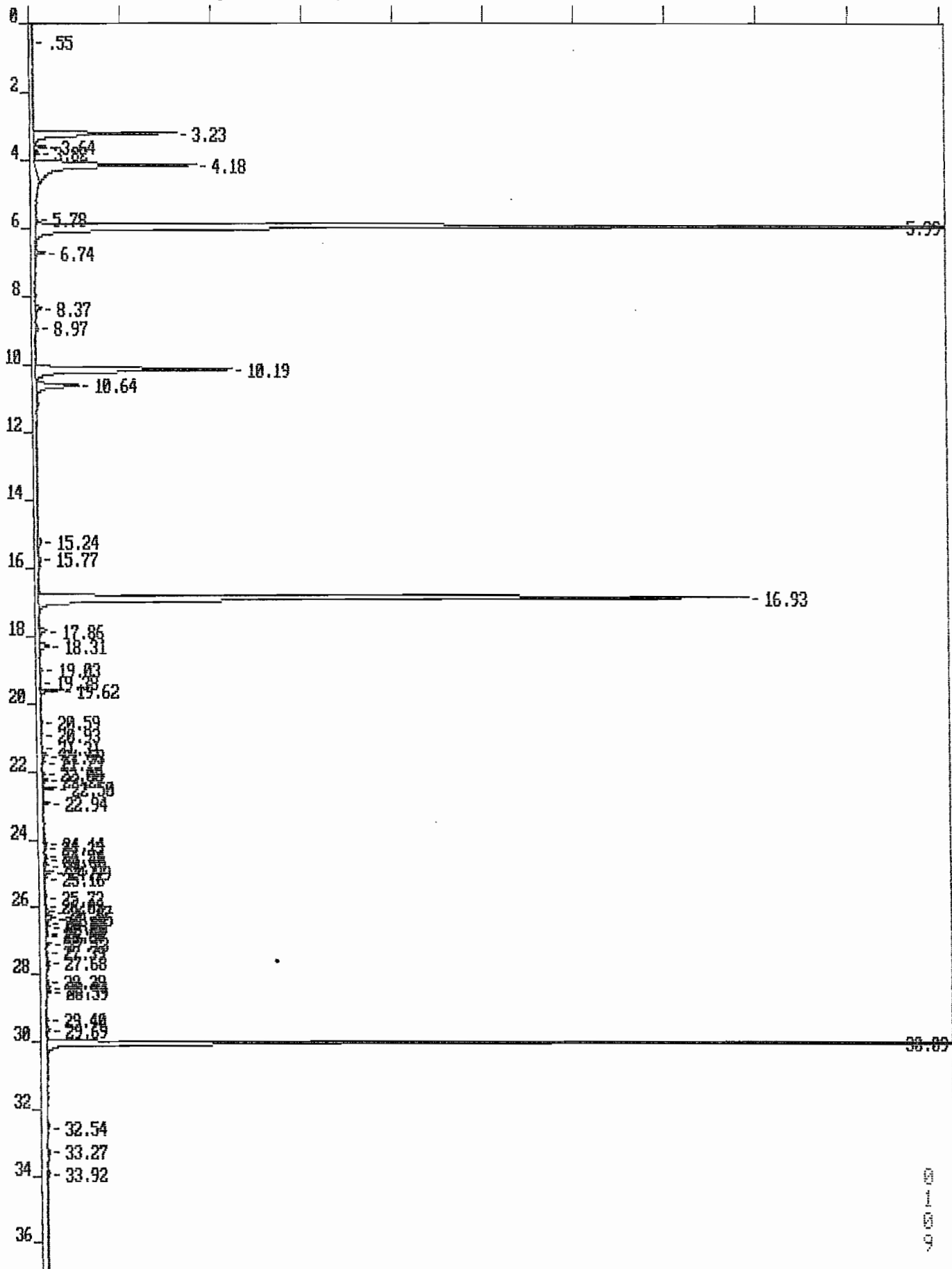
Date:       01/02/02

File=C:\CP\DATA1\183658.35R Date printed=01-01-2002 Time= 03:42:38

Sample Name=3749346

01365A181127,8404

0.0 to 37.0 min. Low Y=0.005 High Y=15.005 mv Span=15.0



Sample Name: 3749346

Batch: 01365A18

Date Taken: Jan 1, 2002 03:41:32

Raw File: C:\CP\DATA1\18365B.35R

Area File: C:\CP\DATA1\18365B.35A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 12):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.275    | 4.275    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 6.740    | 6.732    | 1,1-DICHLOROETHENE   | 0.4009   | 1092   | 170    |
| 8.374    | 8.558    | TRANS-1,2-DICHLOROET | 0.1024   | 629    | 101    |
| 8.967    | 8.946    | METHYL T-BUTYL ETHER | 0.2010   | 554    | 58     |
| 11.000   | 11.000   | CIS-1,2-DICHLOROETHE | 0.0000   | 0      | 0      |
| 15.236   | 15.285   | 1,1-DICHLOROPROPENE  | 0.1992   | 839    | 70     |
| 16.023   | 16.023   | BENZENE              | 0.0000   | 0      | 0      |
| 16.927   | 16.958   | ISTD-FBENZENE        | 1.0000   | 88128  | 11698  |
| 18.310   | 18.353   | TRICHLOROETHENE      | 0.2361   | 1308   | 166    |
| 19.845   | 19.845   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.194   | 20.194   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.314   | 21.150   | TRANS-1,3-DICHLOROPR | 0.0434   | 102    | 28     |
| 21.726   | 21.737   | TOLUENE              | 0.0306   | 192    | 54     |
| 22.935   | 22.945   | TETRACHLOROETHENE    | 0.1292   | 516    | 121    |
| 24.137   | 23.995   | CHLOROBENZENE        | 0.0243   | 291    | 58     |
| 24.247   | 24.310   | ETHYLBENZENE         | 0.0257   | 197    | 50     |
| 24.597   | 24.602   | M,P-XYLENE           | 0.0224   | 120    | 43     |
| 25.069   | 25.069   | STYRENE              | 0.0000   | 0      | 0      |
| 25.164   | 25.171   | O-XYLENE             | 0.0196   | 125    | 37     |
| 25.721   | 25.715   | ISOPROPYLBENZENE     | 0.0191   | 194    | 28     |
| 26.026   | 26.033   | BROMOBENZENE         | 0.0130   | 116    | 29     |
| 26.351   | 26.361   | N-PROPYLBENZENE      | 0.0963   | 971    | 163    |
| 26.484   | 26.485   | 2-CHLOROTOLUENE      | 0.0358   | 247    | 67     |
| 26.600   | 26.604   | 4-CHLOROTOLUENE      | 0.0340   | 268    | 67     |
| 26.798   | 26.809   | 1,3,5-TRIMETHYLBENZE | 0.0155   | 114    | 37     |
| 27.234   | 27.234   | TERT-BUTYLBENZENE    | 0.0000   | 0      | 0      |
| 27.393   | 27.416   | 1,2,4-TRIMETHYLBENZE | 0.0197   | 134    | 35     |
| 27.584   | 27.584   | SEC-BUTYLBENZENE     | 0.0000   | 0      | 0      |
| 27.676   | 27.691   | 1,3-DICHLOROBENZENE  | 0.0299   | 166    | 53     |
| 27.806   | 27.806   | 1,4-DICHLOROBENZENE  | 0.0000   | 0      | 0      |
| 27.892   | 27.892   | P-ISOPROPYLTOLUENE   | 0.0000   | 0      | 0      |
| 28.437   | 28.418   | 1,2-DICHLOROBENZENE  | 0.0485   | 352    | 64     |
| 28.586   | 28.605   | N-BUTYLBENZENE       | 0.0582   | 327    | 70     |
| 30.086   | 30.105   | SURR-1B4CB-P         | 25.3104  | 139520 | 36829  |
| 32.540   | 32.563   | 1,2,4-TRICHLOROBENZE | 0.0757   | 317    | 43     |
| 33.270   | 33.311   | NAPHTHALENE          | 0.0400   | 180    | 27     |
| 33.528   | 33.528   | HEXACHLOROBUTADIENE  | 0.0000   | 0      | 0      |
| 33.916   | 33.954   | 1,2,3-TRICHLOROBENZE | 0.0793   | 276    | 38     |

XYLENES (Total): 0.0420

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 84.3681%

Chrom Perfect version 6.07

Reported on 01-01-2002at 03:44:00

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: 3749346

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365B.35R

Reviewed by: T. 45

Verified by: mm49

Date: 1-1-02

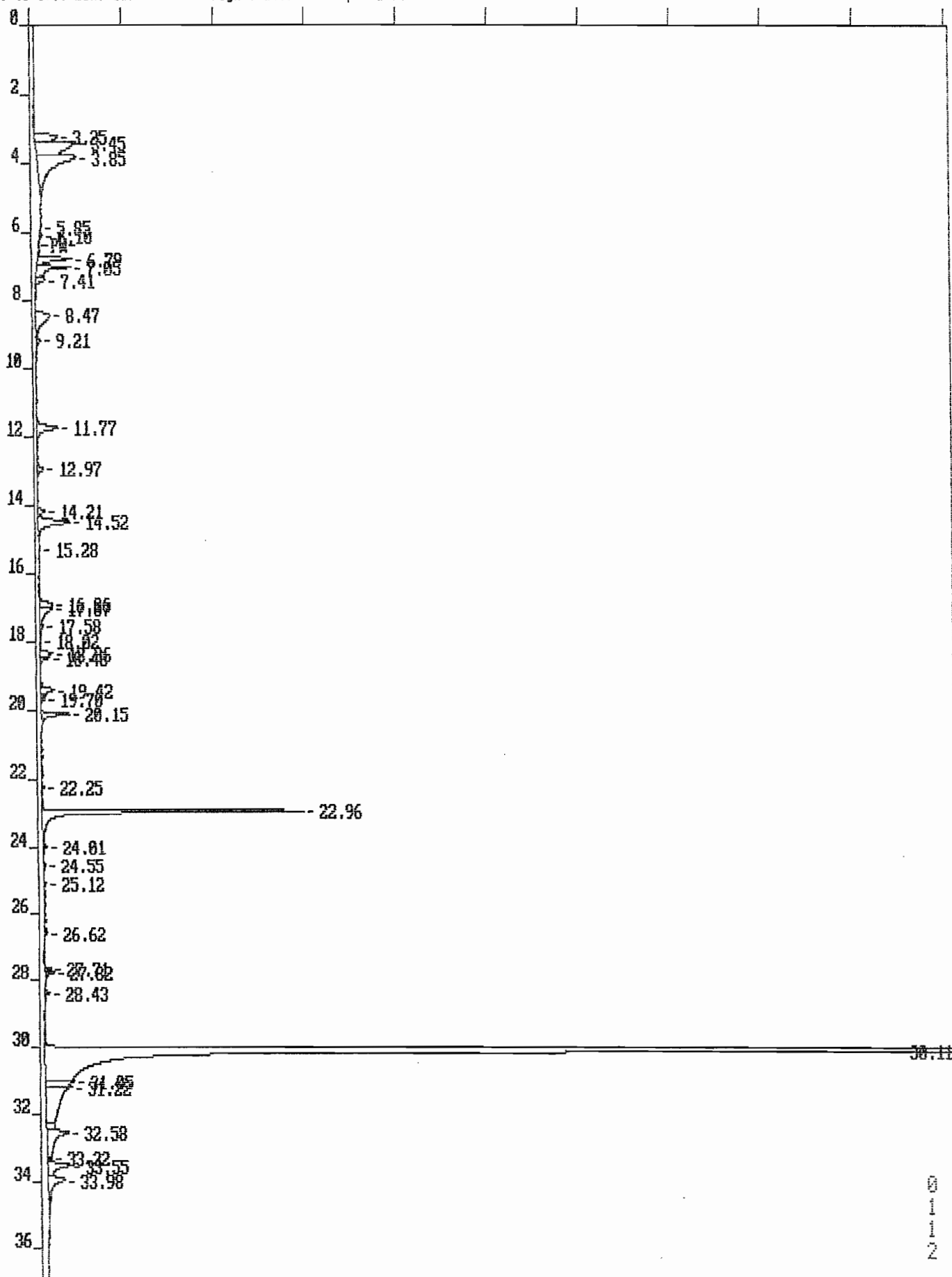
Date: 01/02/02

File=C:\CP\DATA1\18365.36R Date printed=01-01-2002 Time= 04:24:33

Sample Name=3749347

01365A181127,8404

0.0 to 37.0 min. Low Y=-0.023 High Y=14.977 mv Span=15.0







Raw file: C:\CP\DATA1\18365.36R

Reviewed by: TBS

Verified by: mm49

Date: 1-1-02

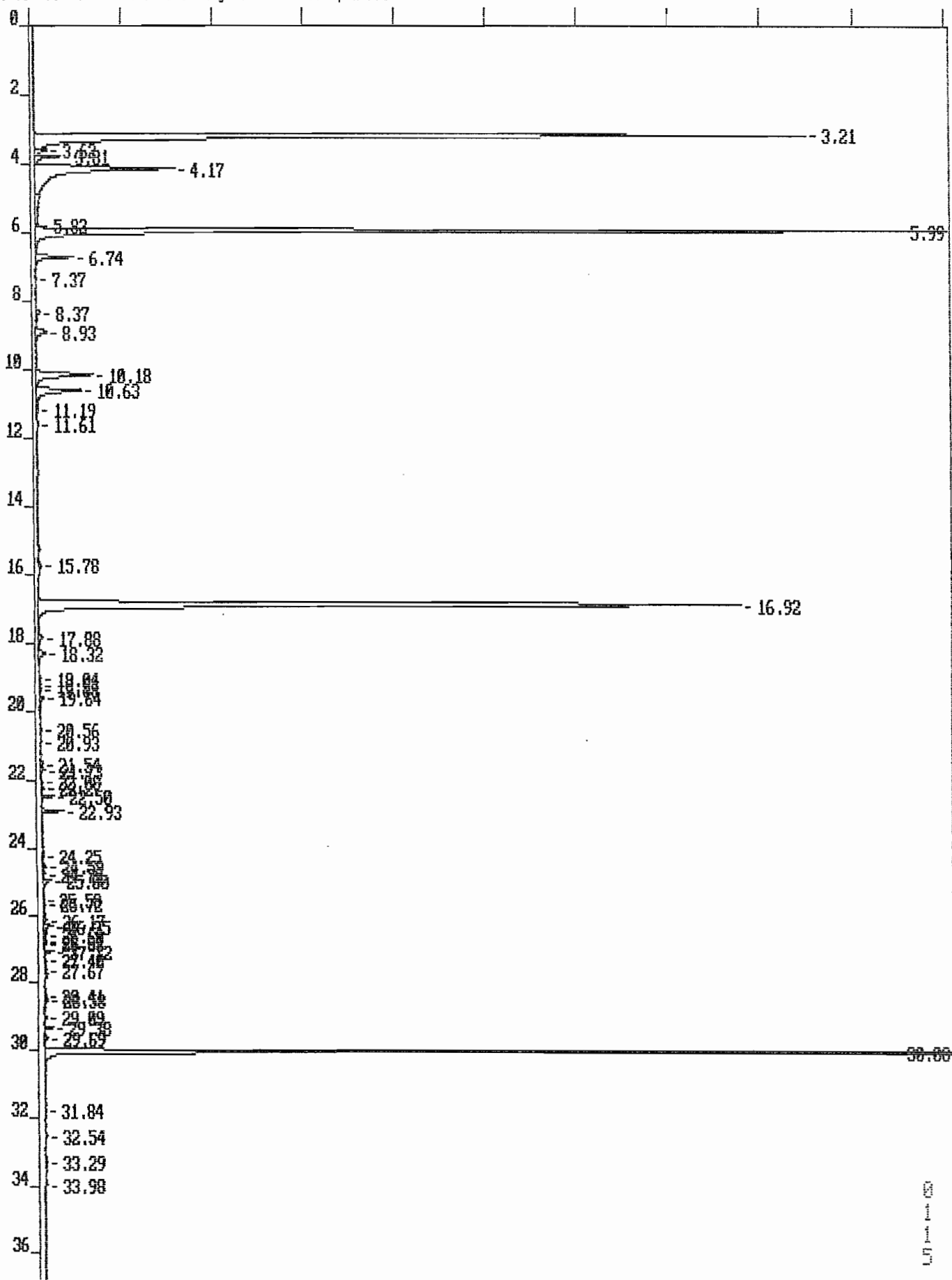
Date: 01/08/02

File=C:\CP\DATA1\183658.36R Date printed=01-01-2002 Time= 04:25:34

Sample Name=3749347

01365A181127,8404

0.0 to 37.0 min. Low Y=0.004 High Y=15.004 mv Span=15.0



Sample Name: 3749347

Batch: 01365A18

Date Taken: Jan 1, 2002 04:24:28

Raw File: C:\CP\DATA1\18365B.36R

Area File: C:\CP\DATA1\18365B.36A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 12):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.275    | 4.275    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 6.736    | 6.732    | 1,1-DICHLOROETHENE   | 1.4981   | 3562   | 628    |
| 8.365    | 8.558    | TRANS-1,2-DICHLOROET | 0.0821   | 637    | 80     |
| 8.927    | 8.946    | METHYL T-BUTYL ETHER | 0.6620   | 1869   | 190    |
| 11.000   | 11.000   | CIS-1,2-DICHLOROETHE | 0.0000   | 0      | 0      |
| 15.285   | 15.285   | 1,1-DICHLOROPROPENE  | 0.0000   | 0      | 0      |
| 16.023   | 16.023   | BENZENE              | 0.0000   | 0      | 0      |
| 16.920   | 16.958   | ISTD-FBENZENE        | 1.0000   | 87222  | 11544  |
| 18.316   | 18.353   | TRICHLOROETHENE      | 0.1769   | 1112   | 123    |
| 19.845   | 19.845   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.194   | 20.194   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.150   | 21.150   | TRANS-1,3-DICHLOROPR | 0.0000   | 0      | 0      |
| 21.727   | 21.737   | TOLUENE              | 0.0433   | 313    | 75     |
| 22.933   | 22.945   | TETRACHLOROETHENE    | 0.3987   | 1347   | 367    |
| 23.995   | 23.995   | CHLOROBENZENE        | 0.0000   | 0      | 0      |
| 24.250   | 24.310   | ETHYLBENZENE         | 0.0160   | 214    | 31     |
| 24.591   | 24.602   | M,P-XYLENE           | 0.0323   | 275    | 61     |
| 25.069   | 25.069   | STYRENE              | 0.0000   | 0      | 0      |
| 25.171   | 25.171   | O-XYLENE             | 0.0000   | 0      | 0      |
| 25.718   | 25.715   | ISOPROPYLBENZENE     | 0.0213   | 175    | 31     |
| 26.169   | 26.033   | BROMOBENZENE         | 0.0309   | 254    | 67     |
| 26.350   | 26.361   | N-PROPYLBENZENE      | 0.0892   | 729    | 149    |
| 26.485   | 26.485   | 2-CHLOROTOLUENE      | 0.0000   | 0      | 0      |
| 26.600   | 26.604   | 4-CHLOROTOLUENE      | 0.0284   | 338    | 55     |
| 26.808   | 26.809   | 1,3,5-TRIMETHYLBENZE | 0.0200   | 174    | 47     |
| 27.234   | 27.234   | TERT-BUTYLBENZENE    | 0.0000   | 0      | 0      |
| 27.404   | 27.416   | 1,2,4-TRIMETHYLBENZE | 0.0198   | 133    | 35     |
| 27.584   | 27.584   | SEC-BUTYLBENZENE     | 0.0000   | 0      | 0      |
| 27.671   | 27.691   | 1,3-DICHLOROBENZENE  | 0.0269   | 153    | 47     |
| 27.806   | 27.806   | 1,4-DICHLOROBENZENE  | 0.0000   | 0      | 0      |
| 27.892   | 27.892   | P-ISOPROPYLTOLUENE   | 0.0000   | 0      | 0      |
| 28.413   | 28.418   | 1,2-DICHLOROBENZENE  | 0.0361   | 322    | 47     |
| 28.585   | 28.605   | N-BUTYLBENZENE       | 0.0519   | 258    | 61     |
| 30.085   | 30.105   | SURR-1B4CB-P         | 26.5506  | 143764 | 38123  |
| 32.542   | 32.563   | 1,2,4-TRICHLOROBENZE | 0.0674   | 220    | 38     |
| 33.289   | 33.311   | NAPHTHALENE          | 0.0429   | 162    | 28     |
| 33.528   | 33.528   | HEXACHLOROBUTADIENE  | 0.0000   | 0      | 0      |
| 33.980   | 33.954   | 1,2,3-TRICHLOROBENZE | 0.0816   | 268    | 38     |

XYLENES (Total): 0.0323

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 88.5020%

Chrom Perfect version 6.07

Reported on 01-01-2002at 04:26:57

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: 3749347

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365B.36R

Reviewed by:

*[Signature]*

Verified by:

*[Signature]*

Date:

*1-1-02*

Date:

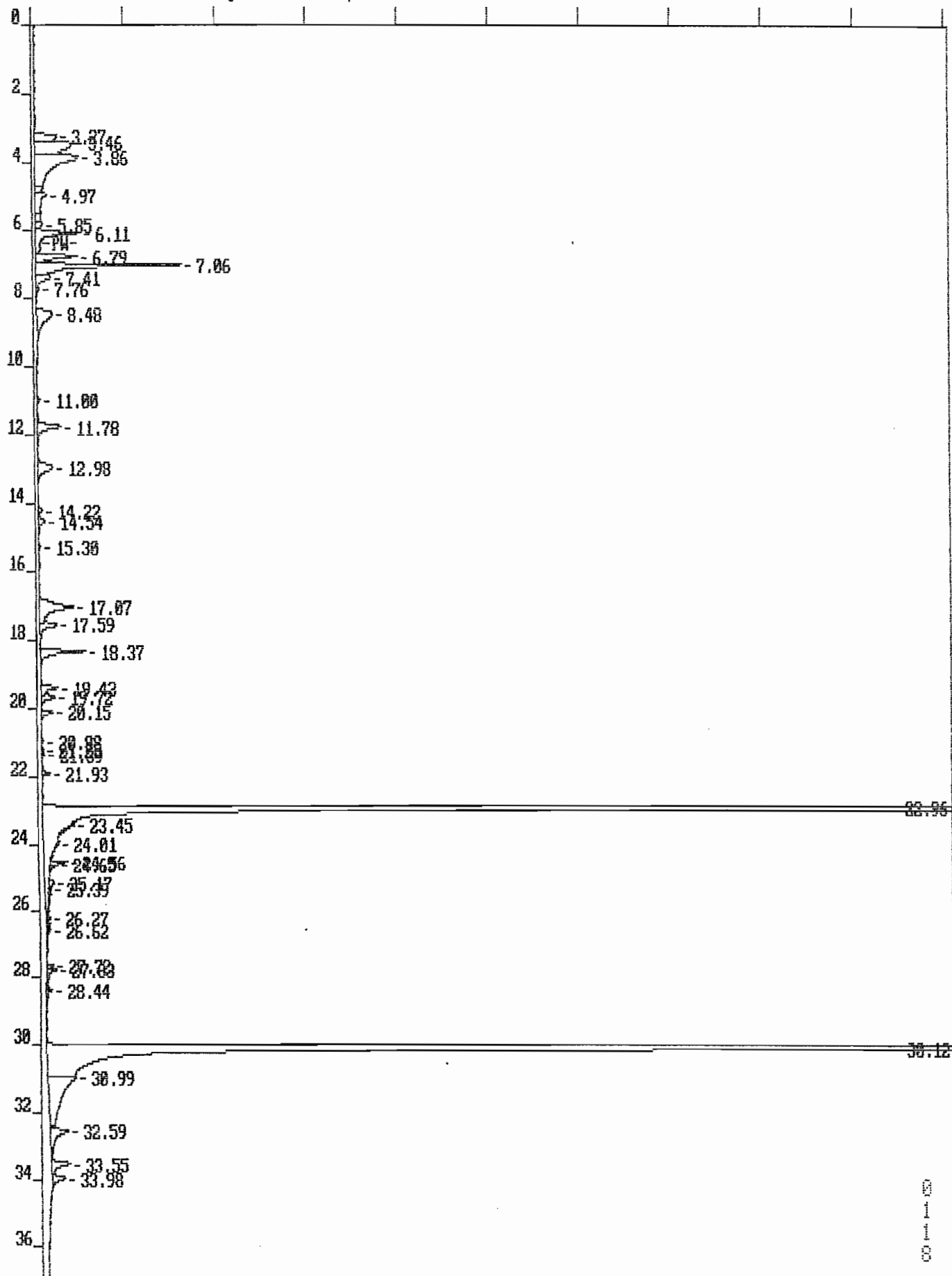
*01/02/02*

File=C:\CP\DATA\18365.37R Date printed=01-01-2002 Time= 05:08:27

Sample Name=3749348

01365A181127,8404

0.0 to 37.0 min. Low Y=-0.017 High Y=14.983 mv Span=15.0



Sample Name: 3749348

Batch: 01365A18

Date Taken: Jan 1, 2002 05:08:22

Raw File: C:\CP\DATA1\18365.37R

Area File: C:\CP\DATA1\18365.37A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 12):

| Ret Time                  | Expected |                      | Amount * | Peak   | Peak   |
|---------------------------|----------|----------------------|----------|--------|--------|
| (min)                     | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 3.863                     | 3.793    | DICHLORODIFLUOROMETH | 0.3521   | 18647  | 713    |
| 3.973                     | 3.973    | CHLOROMETHANE        | 0.0000   | 0      | 0      |
| 4.303                     | 4.303    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 4.773                     | 4.773    | BROMOMETHANE         | 0.0000   | 0      | 0      |
| 4.969                     | 4.974    | CHLOROETHANE         | 0.0463   | 3950   | 197    |
| 5.848                     | 5.839    | TRICHLOROFLUOROMETHA | 0.0452   | 1258   | 115    |
| 6.790                     | 6.760    | 1,1-DICHLOROETHENE   | 0.1461   | 5587   | 676    |
| 7.063                     | 7.070    | METHYLENE CHLORIDE   | 0.2855   | 17843  | 2369   |
| 7.412                     | 7.254    | TRICHLOROTRIFLUOROET | 0.0661   | 2846   | 240    |
| 8.478                     | 8.588    | TRANS-1,2-DICHLOROET | 0.0417   | 5643   | 261    |
| 9.238                     | 9.238    | 1,1-DICHLOROETHANE   | 0.0000   | 0      | 0      |
| 10.997                    | 11.030   | CIS-1,2-DICHLOROETHE | 0.0085   | 324    | 43     |
| 11.550                    | 11.550   | BROMOCHLOROMETHANE   | 0.0000   | 0      | 0      |
| 11.783                    | 11.807   | CHLOROFORM           | 0.0629   | 4250   | 385    |
| 12.057                    | 12.057   | 2,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 14.222                    | 14.235   | 1,2-DICHLOROETHANE   | 0.0143   | 659    | 69     |
| 14.538                    | 14.554   | 1,1,1-TRICHLOROETHAN | 0.0217   | 1478   | 108    |
| 15.303                    | 15.315   | 1,1-DICHLOROPROPENE  | 0.0074   | 489    | 32     |
| 15.838                    | 15.838   | CARBON TETRACHLORIDE | 0.0000   | 0      | 0      |
| 18.053                    | 18.053   | DIBROMOMETHANE       | 0.0000   | 0      | 0      |
| 18.225                    | 18.225   | 1,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 18.371                    | 18.382   | TRICHLOROETHENE      | 0.0930   | 5806   | 743    |
| 18.489                    | 18.489   | BROMODICHLOROMETHANE | 0.0000   | 0      | 0      |
| 19.716                    | 19.873   | 2-CHLOROETHYL VINYL  | 0.0993   | 2166   | 229    |
| 20.148                    | 20.220   | CIS-1,3-DICHLOROPROP | 0.0258   | 1290   | 186    |
| 21.233                    | 21.176   | TRANS-1,3-DICHLOROPR | 0.0045   | 220    | 31     |
| 21.394                    | 21.405   | 1,1,2-TRICHLOROETHAN | 0.0057   | 252    | 48     |
| 21.934                    | 21.868   | 1,3-DICHLOROPROPANE  | 0.0206   | 797    | 144    |
| 22.251                    | 22.251   | DIBROMOCHLOROMETHANE | 0.0000   | 0      | 0      |
| 22.645                    | 22.645   | 1,2-DIBROMOETHANE    | 0.0000   | 0      | 0      |
| 22.964                    | 22.971   | TETRACHLOROETHENE    | 8.4799   | 422108 | 94242  |
| 23.921                    | 23.921   | 1,1,1,2-TETRACHLOROE | 0.0000   | 0      | 0      |
| 24.005                    | 24.018   | CHLOROBENZENE        | 0.0104   | 428    | 57     |
| 24.650                    | 24.700   | BROMOFORM            | 0.0353   | 981    | 131    |
| 25.174                    | 25.190   | 1,1,2,2-TETRACHLOROE | 0.0144   | 911    | 93     |
| 25.392                    | 25.394   | 1,2,3-TRICHLOROPROPA | 0.0090   | 284    | 46     |
| 26.060                    | 26.060   | BROMOBENZENE         | 0.0000   | 0      | 0      |
| 26.510                    | 26.510   | 2-CHLOROTOLUENE      | 0.0000   | 0      | 0      |
| 26.623                    | 26.629   | 4-CHLOROTOLUENE      | 0.0131   | 413    | 53     |
| 27.715                    | 27.716   | 1,3-DICHLOROBENZENE  | 0.0190   | 503    | 111    |
| 27.826                    | 27.831   | 1,4-DICHLOROBENZENE  | 0.0274   | 1605   | 171    |
| 28.437                    | 28.444   | 1,2-DICHLOROBENZENE  | 0.0157   | 799    | 89     |
| 29.331                    | 29.331   | 1,2-DIBROMO-3-CHLORO | 0.0000   | 0      | 0      |
| 30.118                    | 30.133   | SURR-1B4CB-H         | 29.5164  | 523941 | 101173 |
| 32.589                    | 32.592   | 1,2,4-TRICHLOROBENZE | 0.0765   | 5393   | 307    |
| 33.554                    | 33.557   | HEXACHLOROBUTADIENE  | 0.0679   | 3389   | 322    |
| 33.983                    | 33.983   | 1,2,3-TRICHLOROBENZE | 0.0652   | 2406   | 223    |
| TOTAL 1,2-DICHLOROETHENE: |          |                      | 0.0502   |        |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 98.3880%

Chrom Perfect version 6.07

Reported on 01-01-2002at 05:09:17

0119

Sample name: 3749348

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365.37R

Reviewed by:

*[Signature]*

Verified by:

*[Signature]*

Date:

*1-1-02*

Date:

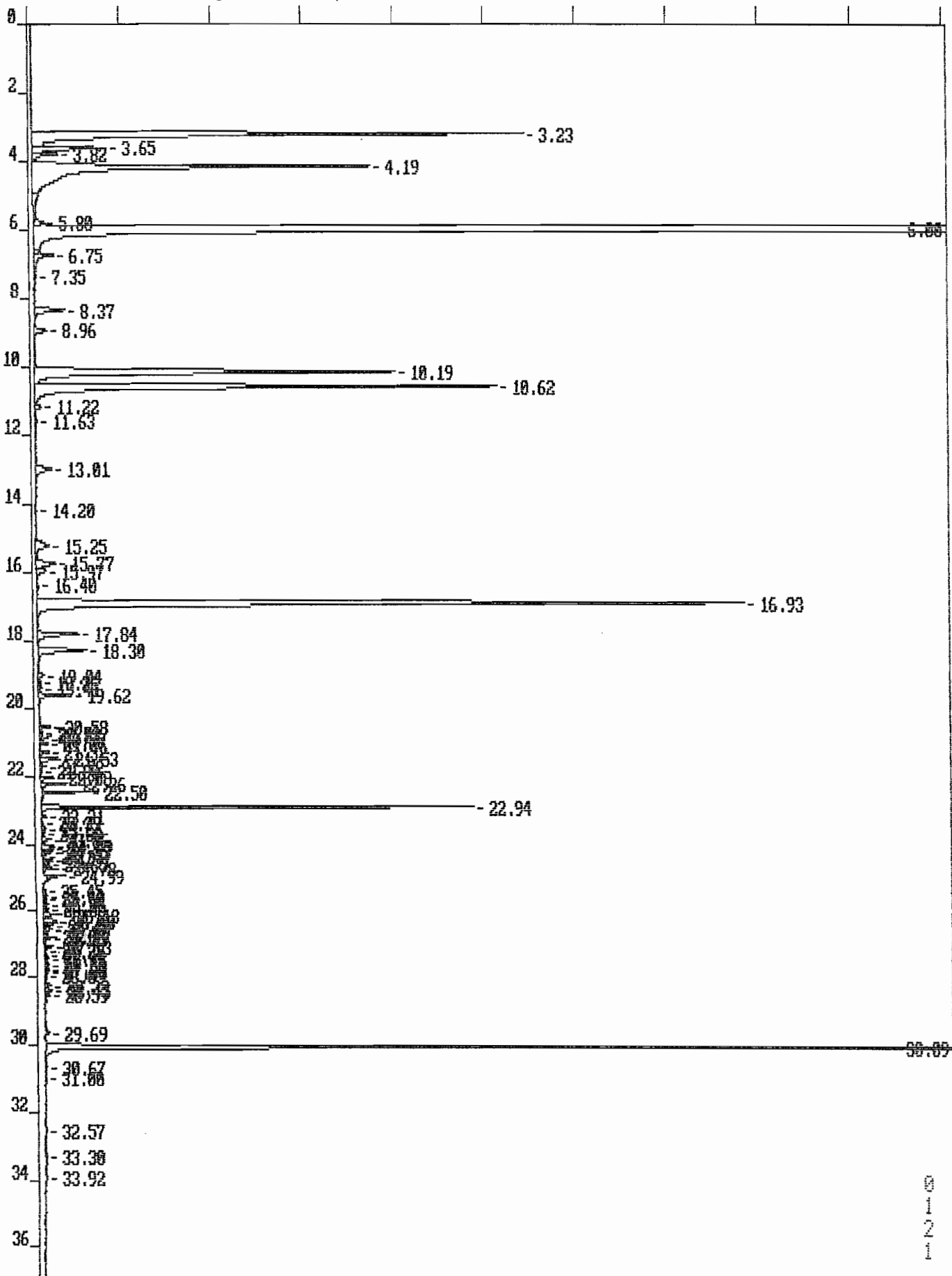
*01/02/02*

File=C:\CP\DATA1\183658.37R Date printed=01-01-2002 Time= 05:09:28

Sample Name=3749348

01365A181127,8404

0.0 to 37.0 min. Low Y=0.003 High Y=15.003 mv Span=15.0





Sample Name: 3749348

Batch: 01365A18

Date Taken: Jan 1, 2002 05:08:22

Raw File: C:\CP\DATA1\18365B.37R

Area File: C:\CP\DATA1\18365B.37A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 12):

| Ret Time | Expected | Amount *              | Peak                     | Peak   |
|----------|----------|-----------------------|--------------------------|--------|
| (min)    | RT (min) | (ug/L)                | Area                     | Height |
| 4.275    | 4.275    | VINYL CHLORIDE        | 0.0000                   | 0      |
| 6.750    | 6.732    | 1,1-DICHLOROETHENE    | 0.7751                   | 3170   |
| 8.369    | 8.558    | TRANS-1,2-DICHLOROET  | 0.4953                   | 3387   |
| 8.963    | 8.946    | METHYL T-BUTYL ETHER  | 0.7048                   | 1511   |
| 11.000   | 11.000   | CIS-1,2-DICHLOROETHE  | 0.0000                   | 0      |
| 15.252   | 15.285   | 1,1-DICHLOROPROPENE   | 0.6403                   | 2512   |
| 15.970   | 16.023   | BENZENE               | 0.1943                   | 1512   |
| 16.931   | 16.958   | ISTD-FBENZENE         | 1.0000                   | 87906  |
| 18.305   | 18.353   | TRICHLOROETHENE < 1.0 | <del>1.1347</del> RT off | 5721   |
| 19.845   | 19.845   | 2-CHLOROETHYL VINYL   | 0.0000                   | 0      |
| 20.194   | 20.194   | CIS-1,3-DICHLOROPROP  | 0.0000                   | 0      |
| 21.073   | 21.150   | TRANS-1,3-DICHLOROPR  | 0.2046                   | 574    |
| 21.724   | 21.737   | TOLUENE               | 0.0523                   | 312    |
| 22.938   | 22.945   | TETRACHLOROETHENE     | 7.7203                   | 21924  |
| 24.086   | 23.995   | CHLOROBENZENE         | 0.0834                   | 793    |
| 24.355   | 24.310   | ETHYLBENZENE          | 0.0353                   | 223    |
| 24.653   | 24.602   | M,P-XYLENE            | 0.0574                   | 680    |
| 25.069   | 25.069   | STYRENE               | 0.0000                   | 0      |
| 25.171   | 25.171   | O-XYLENE              | 0.0000                   | 0      |
| 25.696   | 25.715   | ISOPROPYLBENZENE      | 0.0342                   | 203    |
| 26.000   | 26.033   | BROMOBENZENE          | 0.0351                   | 353    |
| 26.357   | 26.361   | N-PROPYLBENZENE       | 0.1135                   | 984    |
| 26.493   | 26.485   | 2-CHLOROTOLUENE       | 0.0819                   | 536    |
| 26.597   | 26.604   | 4-CHLOROTOLUENE       | 0.0612                   | 622    |
| 26.800   | 26.809   | 1,3,5-TRIMETHYLBENZE  | 0.0242                   | 287    |
| 27.226   | 27.234   | TERT-BUTYLBENZENE     | 0.0235                   | 115    |
| 27.400   | 27.416   | 1,2,4-TRIMETHYLBENZE  | 0.0266                   | 202    |
| 27.584   | 27.584   | SEC-BUTYLBENZENE      | 0.0000                   | 0      |
| 27.686   | 27.691   | 1,3-DICHLOROBENZENE   | 0.0447                   | 300    |
| 27.799   | 27.806   | 1,4-DICHLOROBENZENE   | 0.0369                   | 282    |
| 27.877   | 27.892   | P-ISOPROPYLTOLUENE    | 0.0528                   | 273    |
| 28.451   | 28.418   | 1,2-DICHLOROBENZENE   | 0.0854                   | 612    |
| 28.587   | 28.605   | N-BUTYLBENZENE        | 0.0720                   | 376    |
| 30.089   | 30.105   | SURR-1B4CB-P          | 26.7760                  | 146175 |
| 32.572   | 32.563   | 1,2,4-TRICHLOROBENZE  | 0.0501                   | 141    |
| 33.302   | 33.311   | NAPHTHALENE           | 0.0523                   | 208    |
| 33.528   | 33.528   | HEXACHLOROBUTADIENE   | 0.0000                   | 0      |
| 33.925   | 33.954   | 1,2,3-TRICHLOROBENZE  | 0.0640                   | 177    |

XYLENES (Total): 0.0574

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 89.2532%

Chrom Perfect version 6.07

Reported on 01-01-2002at 05:10:52

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: 3749348

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365B.37R

Reviewed by:

TSK

Verified by:

mm49

Date:

1-1-02

Date:

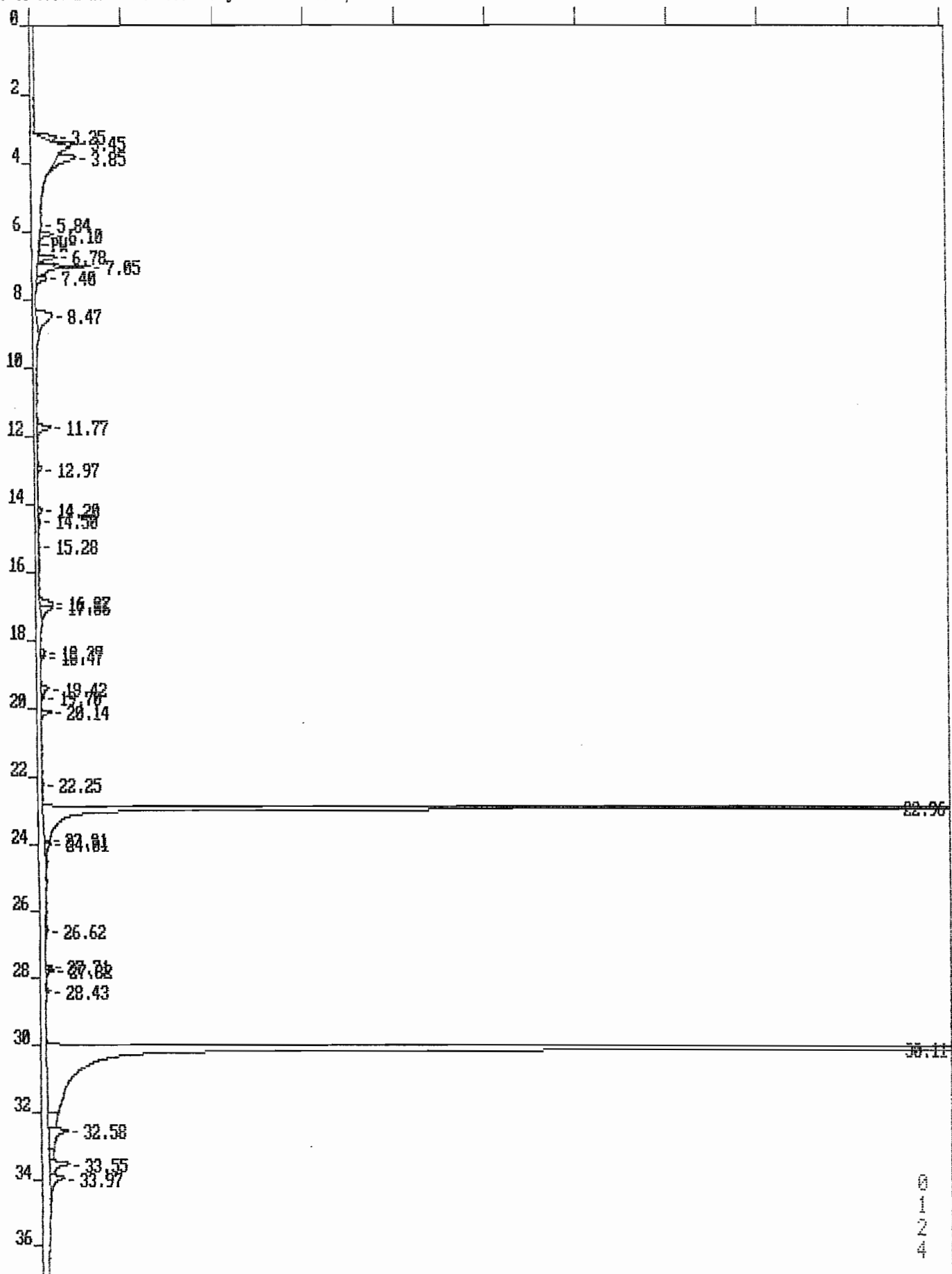
01/02/02

File=C:\CP\DATA1\18365.38R Date printed=01-01-2002 Time= 05:51:25

Sample Name=3749349

01365A181127,8404

0.0 to 37.0 min. Low Y=-0.025 High Y=14.975 mv Span=15.0



Sample Name: 3749349

Batch: 01365A18

Date Taken: Jan 1, 2002 05:51:20

Raw File: C:\CP\DATA1\18365.38R

Area File: C:\CP\DATA1\18365.38A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SQ/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 12):

| Ret Time                  | Expected |                      | Amount * | Peak   | Peak   |
|---------------------------|----------|----------------------|----------|--------|--------|
| (min)                     | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 3.853                     | 3.793    | DICHLORODIFLUOROMETH | 0.1638   | 4699   | 332    |
| 3.973                     | 3.973    | CHLOROMETHANE        | 0.0000   | 0      | 0      |
| 4.303                     | 4.303    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 4.773                     | 4.773    | BROMOMETHANE         | 0.0000   | 0      | 0      |
| 4.974                     | 4.974    | CHLOROETHANE         | 0.0000   | 0      | 0      |
| 5.840                     | 5.839    | TRICHLOROFLUOROMETHA | 0.0122   | 269    | 31     |
| 6.780                     | 6.760    | 1,1-DICHLOROETHENE   | 0.0689   | 2433   | 319    |
| 7.049                     | 7.070    | METHYLENE CHLORIDE   | 0.1057   | 6824   | 877    |
| 7.403                     | 7.254    | TRICHLOROTRIFLUOROET | 0.0464   | 1505   | 169    |
| 8.472                     | 8.588    | TRANS-1,2-DICHLOROET | 0.0427   | 5748   | 267    |
| 9.238                     | 9.238    | 1,1-DICHLOROETHANE   | 0.0000   | 0      | 0      |
| 11.030                    | 11.030   | CIS-1,2-DICHLOROETHE | 0.0000   | 0      | 0      |
| 11.550                    | 11.550   | BROMOCHLOROMETHANE   | 0.0000   | 0      | 0      |
| 11.774                    | 11.807   | CHLOROFORM           | 0.0375   | 2591   | 229    |
| 12.057                    | 12.057   | 2,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 14.204                    | 14.235   | 1,2-DICHLOROETHANE   | 0.0141   | 570    | 68     |
| 14.499                    | 14.554   | 1,1,1-TRICHLOROETHAN | 0.0056   | 395    | 28     |
| 15.280                    | 15.315   | 1,1-DICHLOROPROPENE  | 0.0057   | 305    | 25     |
| 15.838                    | 15.838   | CARBON TETRACHLORIDE | 0.0000   | 0      | 0      |
| 18.053                    | 18.053   | DIBROMOMETHANE       | 0.0000   | 0      | 0      |
| 18.225                    | 18.225   | 1,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 18.368                    | 18.382   | TRICHLOROETHENE      | 0.0097   | 414    | 78     |
| 18.472                    | 18.489   | BROMODICHLOROMETHANE | 0.0125   | 632    | 85     |
| 19.702                    | 19.873   | 2-CHLOROETHYL VINYL  | 0.0259   | 427    | 60     |
| 20.143                    | 20.220   | CIS-1,3-DICHLOROPROP | 0.0248   | 1378   | 179    |
| 21.176                    | 21.176   | TRANS-1,3-DICHLOROPR | 0.0000   | 0      | 0      |
| 21.405                    | 21.405   | 1,1,2-TRICHLOROETHAN | 0.0000   | 0      | 0      |
| 21.868                    | 21.868   | 1,3-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 22.253                    | 22.251   | DIBROMOCHLOROMETHANE | 0.0061   | 209    | 36     |
| 22.645                    | 22.645   | 1,2-DIBROMOETHANE    | 0.0000   | 0      | 0      |
| 22.958                    | 22.971   | TETRACHLOROETHENE    | 2.5988   | 132902 | 28882  |
| 23.905                    | 23.921   | 1,1,1,2-TETRACHLOROE | 0.0080   | 484    | 94     |
| 24.007                    | 24.018   | CHLOROBENZENE        | 0.0186   | 1206   | 103    |
| 24.700                    | 24.700   | BROMOFORM            | 0.0000   | 0      | 0      |
| 25.190                    | 25.190   | 1,1,2,2-TETRACHLOROE | 0.0000   | 0      | 0      |
| 25.394                    | 25.394   | 1,2,3-TRICHLOROPROPA | 0.0000   | 0      | 0      |
| 26.060                    | 26.060   | BROMOBENZENE         | 0.0000   | 0      | 0      |
| 26.510                    | 26.510   | 2-CHLOROTOLUENE      | 0.0000   | 0      | 0      |
| 26.618                    | 26.629   | 4-CHLOROTOLUENE      | 0.0120   | 235    | 49     |
| 27.707                    | 27.716   | 1,3-DICHLOROBENZENE  | 0.0163   | 418    | 95     |
| 27.818                    | 27.831   | 1,4-DICHLOROBENZENE  | 0.0213   | 864    | 133    |
| 28.429                    | 28.444   | 1,2-DICHLOROBENZENE  | 0.0125   | 365    | 71     |
| 29.331                    | 29.331   | 1,2-DIBROMO-3-CHLORO | 0.0000   | 0      | 0      |
| 30.111                    | 30.133   | SURR-1B4CB-H         | 29.8845  | 549723 | 102435 |
| 32.578                    | 32.592   | 1,2,4-TRICHLOROBENZE | 0.0813   | 6456   | 327    |
| 33.547                    | 33.557   | HEXACHLOROBUTADIENE  | 0.0710   | 4349   | 337    |
| 33.975                    | 33.983   | 1,2,3-TRICHLOROBENZE | 0.0705   | 4002   | 241    |
| TOTAL 1,2-DICHLOROETHENE: |          |                      | 0.0427   |        |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 99.6148%

Chrom Perfect version 6.07

Reported on 01-01-2002at 05:52:15

0  
1  
2  
5

Sample name: 3749349

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365.38R

Reviewed by: JSK

Verified by: mm4g

Date: 1-1-02

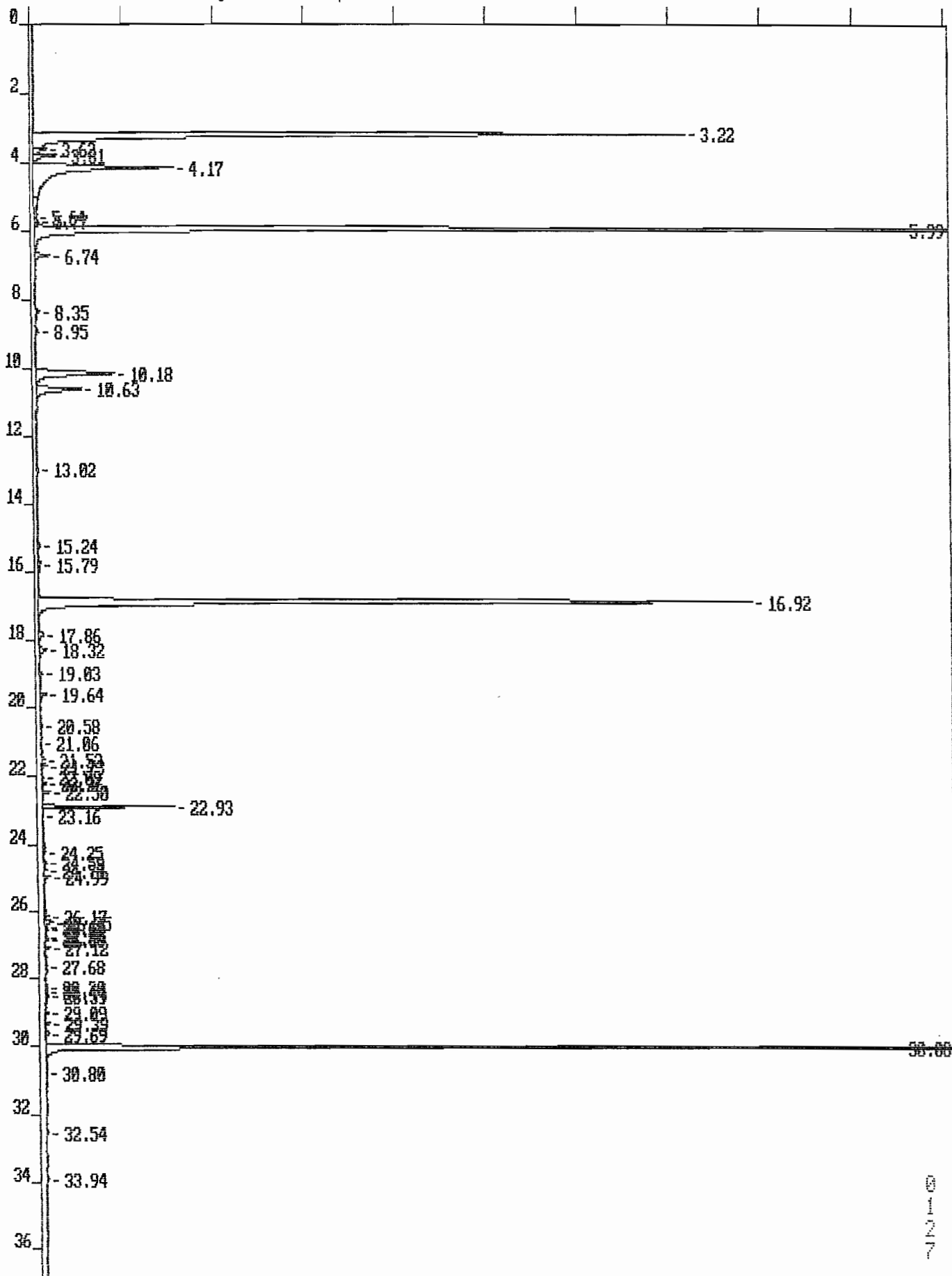
Date: 01/02/02

File=C:\CP\DATA1\18365B.38R Date printed=01-01-2002 Time= 05:52:26

Sample Name=3749349

01365A181127,8404

0.0 to 37.0 min. Low Y=0.006 High Y=15.006 mv Span=15.0



Sample Name: 3749349

Batch: 01365A18

Date Taken: Jan 1, 2002 05:51:20

Raw File: C:\CP\DATA1\18365B.38R

Area File: C:\CP\DATA1\18365B.38A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 12):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.275    | 4.275    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 6.736    | 6.732    | 1,1-DICHLOROETHENE   | 0.5962   | 1547   | 253    |
| 8.558    | 8.558    | TRANS-1,2-DICHLOROET | 0.0000   | 0      | 0      |
| 8.953    | 8.946    | METHYL T-BUTYL ETHER | 0.1821   | 386    | 53     |
| 11.000   | 11.000   | CIS-1,2-DICHLOROETHE | 0.0000   | 0      | 0      |
| 15.239   | 15.285   | 1,1-DICHLOROPROPENE  | 0.1502   | 572    | 53     |
| 16.023   | 16.023   | BENZENE              | 0.0000   | 0      | 0      |
| 16.921   | 16.958   | ISTD-FBENZENE        | 1.0000   | 88373  | 11708  |
| 18.319   | 18.353   | TRICHLOROETHENE      | 0.1769   | 1011   | 124    |
| 19.845   | 19.845   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.194   | 20.194   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.061   | 21.150   | TRANS-1,3-DICHLOROPR | 0.0327   | 115    | 21     |
| 21.726   | 21.737   | TOLUENE              | 0.0550   | 372    | 97     |
| 22.932   | 22.945   | TETRACHLOROETHENE    | 2.3434   | 6890   | 2189   |
| 23.995   | 23.995   | CHLOROBENZENE        | 0.0000   | 0      | 0      |
| 24.249   | 24.310   | ETHYLBENZENE         | 0.0207   | 221    | 40     |
| 24.591   | 24.602   | M,P-XYLENE           | 0.0276   | 143    | 53     |
| 25.069   | 25.069   | STYRENE              | 0.0000   | 0      | 0      |
| 25.171   | 25.171   | O-XYLENE             | 0.0000   | 0      | 0      |
| 25.715   | 25.715   | ISOPROPYLBENZENE     | 0.0000   | 0      | 0      |
| 26.169   | 26.033   | BROMOBENZENE         | 0.0361   | 246    | 79     |
| 26.350   | 26.361   | N-PROPYLBENZENE      | 0.0839   | 809    | 142    |
| 26.481   | 26.485   | 2-CHLOROTOLUENE      | 0.0264   | 186    | 49     |
| 26.592   | 26.604   | 4-CHLOROTOLUENE      | 0.0280   | 155    | 55     |
| 26.798   | 26.809   | 1,3,5-TRIMETHYLBENZE | 0.0162   | 197    | 39     |
| 27.234   | 27.234   | TERT-BUTYLBENZENE    | 0.0000   | 0      | 0      |
| 27.416   | 27.416   | 1,2,4-TRIMETHYLBENZE | 0.0000   | 0      | 0      |
| 27.584   | 27.584   | SEC-BUTYLBENZENE     | 0.0000   | 0      | 0      |
| 27.680   | 27.691   | 1,3-DICHLOROBENZENE  | 0.0243   | 127    | 43     |
| 27.806   | 27.806   | 1,4-DICHLOROBENZENE  | 0.0000   | 0      | 0      |
| 27.892   | 27.892   | P-ISOPROPYLTOLUENE   | 0.0000   | 0      | 0      |
| 28.437   | 28.418   | 1,2-DICHLOROBENZENE  | 0.0371   | 275    | 49     |
| 28.591   | 28.605   | N-BUTYLBENZENE       | 0.0551   | 347    | 66     |
| 30.082   | 30.105   | SURR-1B4CB-P         | 26.6784  | 146830 | 38851  |
| 32.544   | 32.563   | 1,2,4-TRICHLOROBENZE | 0.0644   | 132    | 37     |
| 33.311   | 33.311   | NAPHTHALENE          | 0.0000   | 0      | 0      |
| 33.528   | 33.528   | HEXACHLOROBUTADIENE  | 0.0000   | 0      | 0      |
| 33.942   | 33.954   | 1,2,3-TRICHLOROBENZE | 0.0566   | 141    | 27     |

XYLENES (Total): 0.0276

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 88.9281%

Chrom Perfect version 6.07

Reported on 01-01-2002at 05:53:49

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: 3749349

Batch: 01365A181127,840

Raw file: C:\CP\DATA1\18365B.38R

Reviewed by: TBKS

Verified by: ummk

Date: 1-1-02

Date: 01/02/02

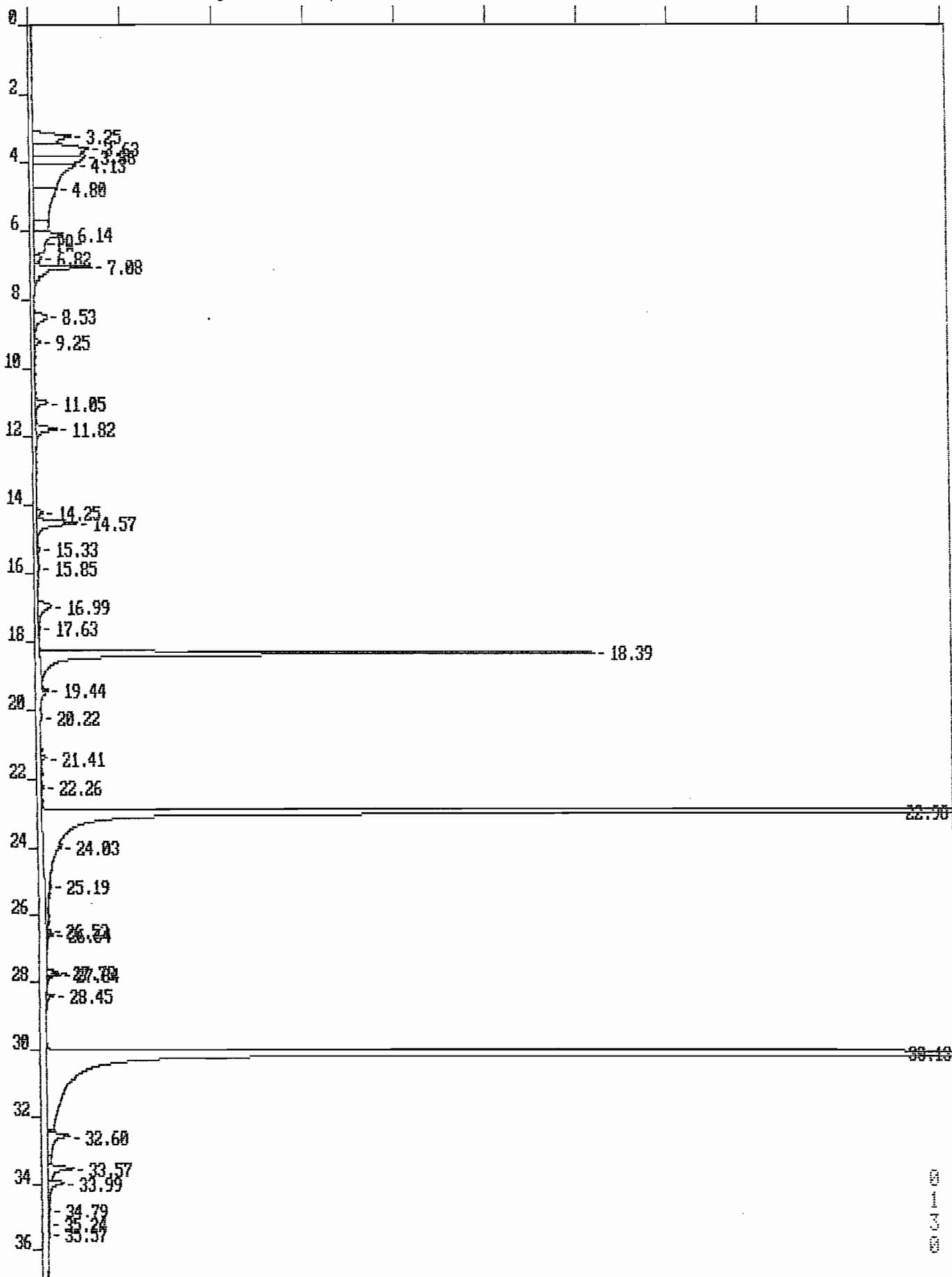


File=C:\CP\DATA1\18365.44R Date printed=01-02-2002 Time= 03:38:40

Sample Name=3749350

01365A181127,8404

0.0 to 37.0 min. Low Y=-0.01 High Y=14.99 mv Span=15.0



Sample Name: 3749350

Batch: 01365A18

Date Taken: Jan 2, 2002 03:38:36

Raw File: C:\CP\DATA1\18365.44R

Area File: C:\CP\DATA1\18365.44A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 14):

| Ret Time | Expected | Amount *             | Peak    | Peak          |
|----------|----------|----------------------|---------|---------------|
| (min)    | RT (min) | (ug/L)               | Area    | Height        |
| 3.858    | 3.802    | DICHLORODIFLUOROMETH | 0.4241  | 13911 859     |
| 3.998    | 3.998    | CHLOROMETHANE        | 0.0000  | 0 0           |
| 4.133    | 4.325    | VINYL CHLORIDE       | 0.1991  | 19987 708     |
| 4.801    | 4.781    | BROMOMETHANE         | 0.1469  | 17467 395     |
| 4.977    | 4.977    | CHLOROETHANE         | 0.0000  | 0 0           |
| 5.837    | 5.837    | TRICHLOROFLUOROMETHA | 0.0000  | 0 0           |
| 6.816    | 6.764    | 1,1-DICHLOROETHENE   | 0.0283  | 1458 131      |
| 7.084    | 7.071    | METHYLENE CHLORIDE   | 0.1153  | 8563 957      |
| 7.251    | 7.251    | TRICHLOROTRIFLUOROET | 0.0000  | 0 0           |
| 8.530    | 8.581    | TRANS-1,2-DICHLOROET | 0.0338  | 3547 211      |
| 9.249    | 9.232    | 1,1-DICHLOROETHANE   | 0.0201  | 974 108       |
| 11.045   | 11.020   | CIS-1,2-DICHLOROETHE | 0.0407  | 1886 206      |
| 11.539   | 11.539   | BROMOCHLOROMETHANE   | 0.0000  | 0 0           |
| 11.817   | 11.795   | CHLOROFORM           | 0.0554  | 3431 339      |
| 12.041   | 12.041   | 2,2-DICHLOROPROPANE  | 0.0000  | 0 0           |
| 14.252   | 14.223   | 1,2-DICHLOROETHANE   | 0.0207  | 835 99        |
| 14.566   | 14.540   | 1,1,1-TRICHLOROETHAN | 0.1321  | 7590 656      |
| 15.326   | 15.304   | 1,1-DICHLOROPROPENE  | 0.0094  | 370 41        |
| 15.848   | 15.826   | CARBON TETRACHLORIDE | 0.0040  | 212 24        |
| 18.045   | 18.045   | DIBROMOMETHANE       | 0.0000  | 0 0           |
| 18.218   | 18.218   | 1,2-DICHLOROPROPANE  | 0.0000  | 0 0           |
| 18.388   | 18.374   | TRICHLOROETHENE      | 1.1390  | 63506 9104    |
| 18.482   | 18.482   | BROMODICHLOROMETHANE | 0.0000  | 0 0           |
| 19.868   | 19.868   | 2-CHLOROETHYL VINYL  | 0.0000  | 0 0           |
| 20.221   | 20.215   | CIS-1,3-DICHLOROPROP | 0.0050  | 295 36        |
| 21.172   | 21.172   | TRANS-1,3-DICHLOROPR | 0.0000  | 0 0           |
| 21.414   | 21.401   | 1,1,2-TRICHLOROETHAN | 0.0125  | 576 105       |
| 21.863   | 21.863   | 1,3-DICHLOROPROPANE  | 0.0000  | 0 0           |
| 22.264   | 22.247   | DIBROMOCHLOROMETHANE | 0.0091  | 341 53        |
| 22.641   | 22.641   | 1,2-DIBROMOETHANE    | 0.0000  | 0 0           |
| 22.976   | 22.967   | TETRACHLOROETHENE    | 11.1054 | 548425 123421 |
| 23.917   | 23.917   | 1,1,1,2-TETRACHLOROE | 0.0000  | 0 0           |
| 24.025   | 24.014   | CHLOROBENZENE        | 0.0118  | 272 65        |
| 24.694   | 24.694   | BROMOFORM            | 0.0000  | 0 0           |
| 25.194   | 25.184   | 1,1,2,2-TETRACHLOROE | 0.0069  | 306 45        |
| 25.388   | 25.388   | 1,2,3-TRICHLOROPROPA | 0.0000  | 0 0           |
| 26.054   | 26.054   | BROMOBENZENE         | 0.0000  | 0 0           |
| 26.526   | 26.504   | 2-CHLOROTOLUENE      | 0.0151  | 292 60        |
| 26.639   | 26.623   | 4-CHLOROTOLUENE      | 0.0210  | 511 85        |
| 27.726   | 27.709   | 1,3-DICHLOROBENZENE  | 0.0287  | 705 168       |
| 27.841   | 27.824   | 1,4-DICHLOROBENZENE  | 0.0359  | 1302 224      |
| 28.453   | 28.435   | 1,2-DICHLOROBENZENE  | 0.0220  | 894 125       |
| 29.320   | 29.320   | 1,2-DIBROMO-3-CHLORO | 0.0000  | 0 0           |
| 30.134   | 30.121   | SURR-1B4CB-H         | 28.0103 | 515502 96011  |
| 32.598   | 32.581   | 1,2,4-TRICHLOROBENZE | 0.0914  | 6129 367      |
| 33.566   | 33.546   | HEXACHLOROBUTADIENE  | 0.0901  | 4787 427      |
| 33.995   | 33.972   | 1,2,3-TRICHLOROBENZE | 0.0787  | 3772 269      |

TOTAL 1,2-DICHLOROETHENE: 0.0745

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 93.3676%

Chrom Perfect version 6.07

Reported on 01-02-2002at 03:39:30

011311

Sample name: 3749350

Batch: 01365A181127,840

Raw file: C:\CP\DATA1\18365.44R

Reviewed by: TSK

Verified by: mm49

Date: 1-2-02

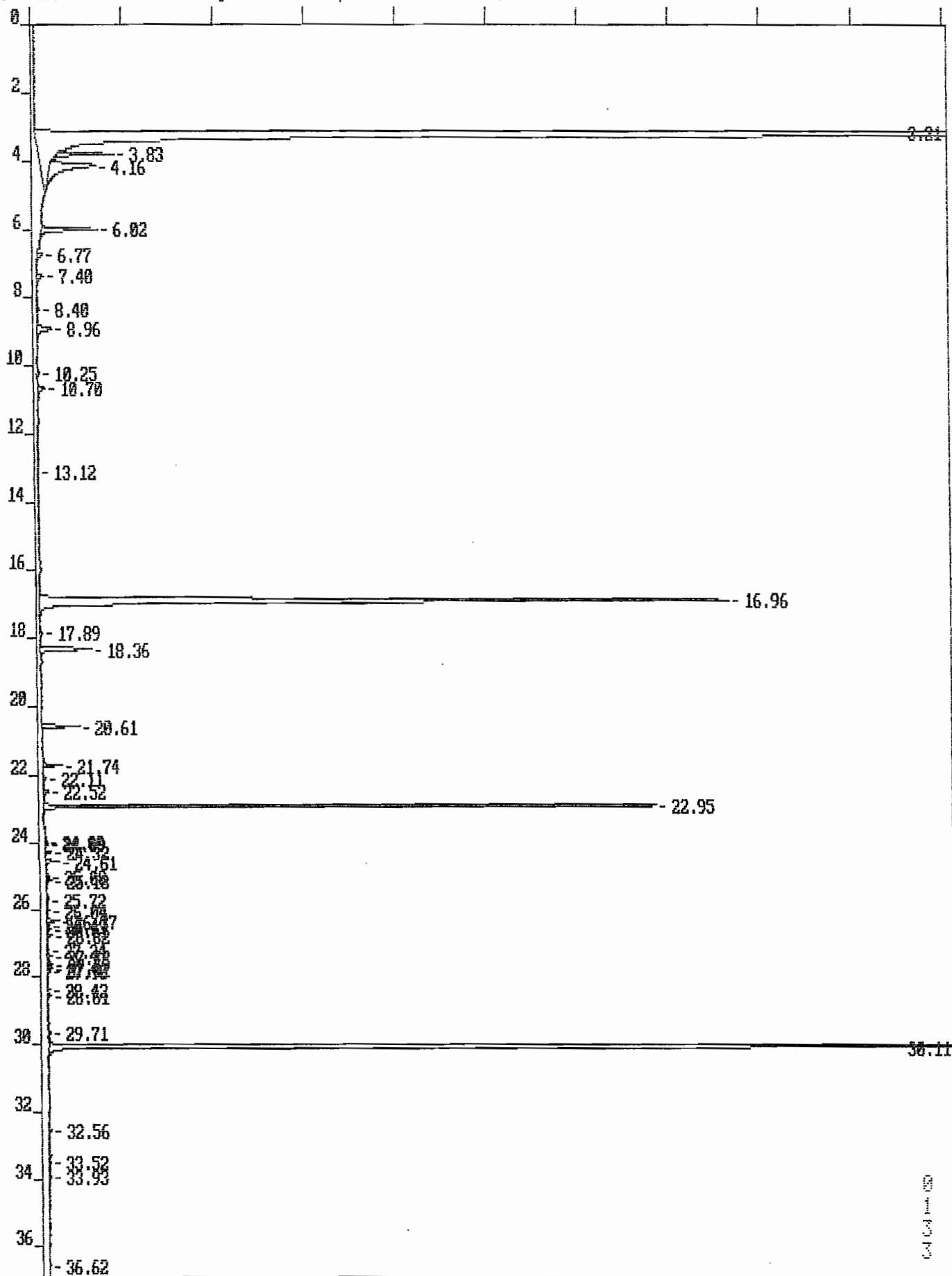
Date: 01/02/00

File=C:\CP\DATA1\183658.44R Date printed=01-02-2002 Time= 03:39:40

Sample Name=3749350

01365A181127,8404

0.0 to 37.0 min. Low Y=0.012 High Y=15.012 mv Span=15.0



Sample Name: 3749350

Batch: 01365A18

Date Taken: Jan 2, 2002 03:38:36

Raw File: C:\CP\DATA1\18365B.44R

Area File: C:\CP\DATA1\18365B.44A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 14):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.297    | 4.297    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 6.765    | 6.735    | 1,1-DICHLOROETHENE   | 0.2465   | 678    | 101    |
| 8.402    | 8.553    | TRANS-1,2-DICHLOROET | 0.0462   | 229    | 44     |
| 8.957    | 8.939    | METHYL T-BUTYL ETHER | 0.8554   | 2089   | 241    |
| 10.990   | 10.990   | CIS-1,2-DICHLOROETHE | 0.0000   | 0      | 0      |
| 15.274   | 15.274   | 1,1-DICHLOROPROPENE  | 0.0000   | 0      | 0      |
| 16.011   | 16.011   | BENZENE              | 0.0000   | 0      | 0      |
| 16.957   | 16.947   | ISTD-FBENZENE        | 1.0000   | 85850  | 11333  |
| 18.357   | 18.346   | TRICHLOROETHENE      | 1.2459   | 4551   | 848    |
| 19.840   | 19.840   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.189   | 20.189   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.146   | 21.146   | TRANS-1,3-DICHLOROPR | 0.0000   | 0      | 0      |
| 21.743   | 21.733   | TOLUENE              | 0.1832   | 1075   | 312    |
| 22.950   | 22.941   | TETRACHLOROETHENE    | 11.1484  | 30923  | 10079  |
| 24.001   | 23.991   | CHLOROBENZENE        | 0.0186   | 128    | 43     |
| 24.317   | 24.306   | ETHYLBENZENE         | 0.0595   | 377    | 112    |
| 24.606   | 24.598   | M,P-XYLENE           | 0.1238   | 806    | 231    |
| 25.077   | 25.063   | STYRENE              | 0.0235   | 185    | 56     |
| 25.178   | 25.166   | O-XYLENE             | 0.0523   | 412    | 96     |
| 25.722   | 25.709   | ISOPROPYLBENZENE     | 0.0298   | 289    | 42     |
| 26.037   | 26.027   | BROMOBENZENE         | 0.0208   | 158    | 44     |
| 26.367   | 26.356   | N-PROPYLBENZENE      | 0.1240   | 814    | 204    |
| 26.486   | 26.479   | 2-CHLOROTOLUENE      | 0.0255   | 153    | 46     |
| 26.611   | 26.598   | 4-CHLOROTOLUENE      | 0.0379   | 338    | 72     |
| 26.816   | 26.803   | 1,3,5-TRIMETHYLBENZE | 0.0328   | 270    | 76     |
| 27.240   | 27.227   | TERT-BUTYLBENZENE    | 0.0266   | 133    | 33     |
| 27.423   | 27.409   | 1,2,4-TRIMETHYLBENZE | 0.0557   | 454    | 97     |
| 27.577   | 27.577   | SEC-BUTYLBENZENE     | 0.0000   | 0      | 0      |
| 27.692   | 27.683   | 1,3-DICHLOROBENZENE  | 0.0506   | 330    | 86     |
| 27.812   | 27.799   | 1,4-DICHLOROBENZENE  | 0.0498   | 284    | 85     |
| 27.903   | 27.884   | P-ISOPROPYLTOLUENE   | 0.0480   | 277    | 59     |
| 28.420   | 28.409   | 1,2-DICHLOROBENZENE  | 0.0376   | 205    | 48     |
| 28.607   | 28.597   | N-BUTYLBENZENE       | 0.0583   | 281    | 68     |
| 30.106   | 30.094   | SURR-1B4CB-P         | 26.5365  | 140743 | 37407  |
| 32.559   | 32.553   | 1,2,4-TRICHLOROBENZE | 0.0828   | 339    | 46     |
| 33.299   | 33.299   | NAPHTHALENE          | 0.0000   | 0      | 0      |
| 33.520   | 33.517   | HEXACHLOROBUTADIENE  | 0.1088   | 256    | 36     |
| 33.930   | 33.943   | 1,2,3-TRICHLOROBENZE | 0.0938   | 337    | 43     |

XYLENES (Total): 0.1762

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 88.4551%

Chrom Perfect version 6.07

Reported on 01-02-2002at 03:41:00

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: 3749350

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365B.44R

Reviewed by:

*[Signature]*

Verified by:

*[Signature]*

Date:

*1-2-02* 1-2-02

Date:

*1/02/02*

(#3)

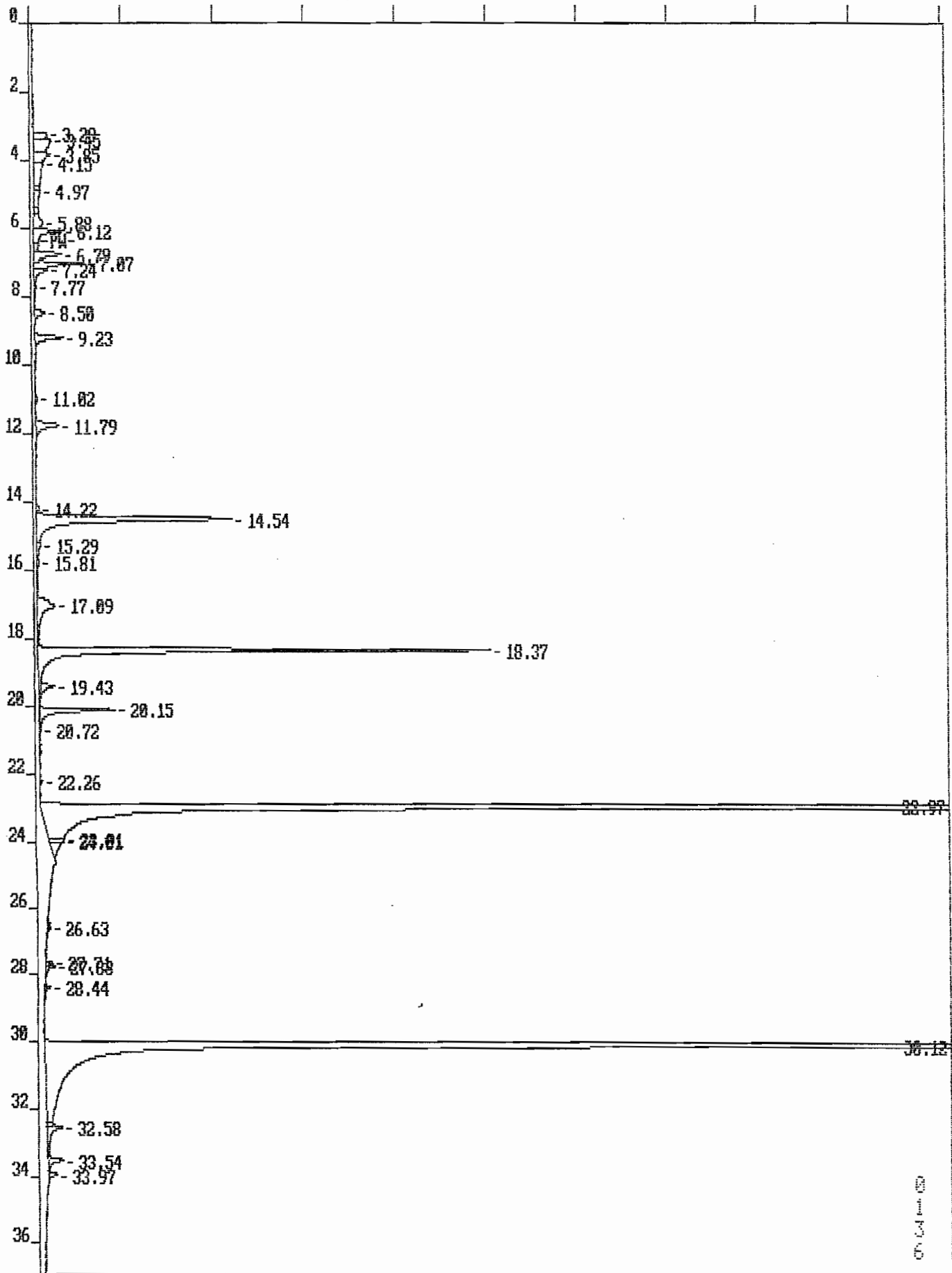
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2/8/02

File=C:\CP\DATA1\18365.45R Date printed=01-02-2002 Time= 04:21:48

Sample Name=3749351 01365A181127,8404

0.0 to 37.0 min. Low Y=-0.007 High Y=14.993 mv Span=15.0



Sample Name: 3749351

Batch: 01365A18

Date Taken: Jan 2, 2002 04:21:43

Raw File: C:\CP\DATA1\18365.45R

Area File: C:\CP\DATA1\18365.45A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 14):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 3.854    | 3.802    | DICHLORODIFLUOROMETH | 0.1429   | 4097   | 289    |
| 3.998    | 3.998    | CHLOROMETHANE        | 0.0000   | 0      | 0      |
| 4.150    | 4.325    | VINYL CHLORIDE       | 0.0456   | 5108   | 162    |
| 4.781    | 4.781    | BROMOMETHANE         | 0.0000   | 0      | 0      |
| 4.966    | 4.977    | CHLOROETHANE         | 0.0265   | 2732   | 113    |
| 5.884    | 5.837    | TRICHLOROFLUOROMETHA | 0.0563   | 2789   | 144    |
| 6.791    | 6.764    | 1,1-DICHLOROETHENE   | 0.0961   | 3988   | 445    |
| 7.068    | 7.071    | METHYLENE CHLORIDE   | 0.1000   | 5562   | 830    |
| 7.241    | 7.251    | TRICHLOROTRIFLUOROET | 0.0631   | 2529   | 229    |
| 8.499    | 8.581    | TRANS-1,2-DICHLOROET | 0.0267   | 1685   | 167    |
| 9.232    | 9.232    | 1,1-DICHLOROETHANE   | 0.0868   | 4003   | 465    |
| 11.020   | 11.020   | CIS-1,2-DICHLOROETHE | 0.0079   | 410    | 40     |
| 11.539   | 11.539   | BROMOCHLOROMETHANE   | 0.0000   | 0      | 0      |
| 11.791   | 11.795   | CHLOROFORM           | 0.0623   | 3969   | 381    |
| 12.041   | 12.041   | 2,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 14.224   | 14.223   | 1,2-DICHLOROETHANE   | 0.0126   | 480    | 60     |
| 14.538   | 14.540   | 1,1,1-TRICHLOROETHAN | 0.6425   | 36293  | 3192   |
| 15.292   | 15.304   | 1,1-DICHLOROPROPENE  | 0.0150   | 1134   | 66     |
| 15.813   | 15.826   | CARBON TETRACHLORIDE | 0.0055   | 431    | 33     |
| 18.045   | 18.045   | DIBROMOMETHANE       | 0.0000   | 0      | 0      |
| 18.218   | 18.218   | 1,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 18.373   | 18.374   | TRICHLOROETHENE      | 0.9289   | 55812  | 7425   |
| 18.482   | 18.482   | BROMODICHLOROMETHANE | 0.0000   | 0      | 0      |
| 19.868   | 19.868   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.152   | 20.215   | CIS-1,3-DICHLOROPROP | 0.1712   | 9038   | 1236   |
| 21.172   | 21.172   | TRANS-1,3-DICHLOROPR | 0.0000   | 0      | 0      |
| 21.401   | 21.401   | 1,1,2-TRICHLOROETHAN | 0.0000   | 0      | 0      |
| 21.863   | 21.863   | 1,3-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 22.256   | 22.247   | DIBROMOCHLOROMETHANE | 0.0087   | 325    | 51     |
| 22.641   | 22.641   | 1,2-DIBROMOETHANE    | 0.0000   | 0      | 0      |
| 22.966   | 22.967   | TETRACHLOROETHENE    | 18.1372  | 855995 | 201570 |
| 23.913   | 23.917   | 1,1,1,2-TETRACHLOROE | 0.0231   | 1552   | 270    |
| 24.013   | 24.014   | CHLOROBENZENE        | 0.0430   | 3642   | 237    |
| 24.694   | 24.694   | BROMOFORM            | 0.0000   | 0      | 0      |
| 25.184   | 25.184   | 1,1,2,2-TETRACHLOROE | 0.0000   | 0      | 0      |
| 25.388   | 25.388   | 1,2,3-TRICHLOROPROPA | 0.0000   | 0      | 0      |
| 26.054   | 26.054   | BROMOBENZENE         | 0.0000   | 0      | 0      |
| 26.504   | 26.504   | 2-CHLOROTOLUENE      | 0.0000   | 0      | 0      |
| 26.627   | 26.623   | 4-CHLOROTOLUENE      | 0.0147   | 397    | 60     |
| 27.713   | 27.709   | 1,3-DICHLOROBENZENE  | 0.0212   | 576    | 124    |
| 27.826   | 27.824   | 1,4-DICHLOROBENZENE  | 0.0266   | 1402   | 166    |
| 28.439   | 28.435   | 1,2-DICHLOROBENZENE  | 0.0167   | 692    | 95     |
| 29.320   | 29.320   | 1,2-DIBROMO-3-CHLORO | 0.0000   | 0      | 0      |
| 30.117   | 30.121   | SURR-1B4CB-H         | 27.8711  | 512041 | 95534  |
| 32.583   | 32.581   | 1,2,4-TRICHLOROBENZE | 0.0651   | 3697   | 261    |
| 33.544   | 33.546   | HEXACHLOROBUTADIENE  | 0.0545   | 2424   | 259    |
| 33.973   | 33.972   | 1,2,3-TRICHLOROBENZE | 0.0418   | 1188   | 143    |

TOTAL 1,2-DICHLOROETHENE: 0.0346

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 92.9035%

Chrom Perfect version 6.07

Reported on 01-02-2002at 04:22:37



Sample name: 3749351

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365.45R

Reviewed by: JSK

Verified by: ummm4g

Date: 1-2-02

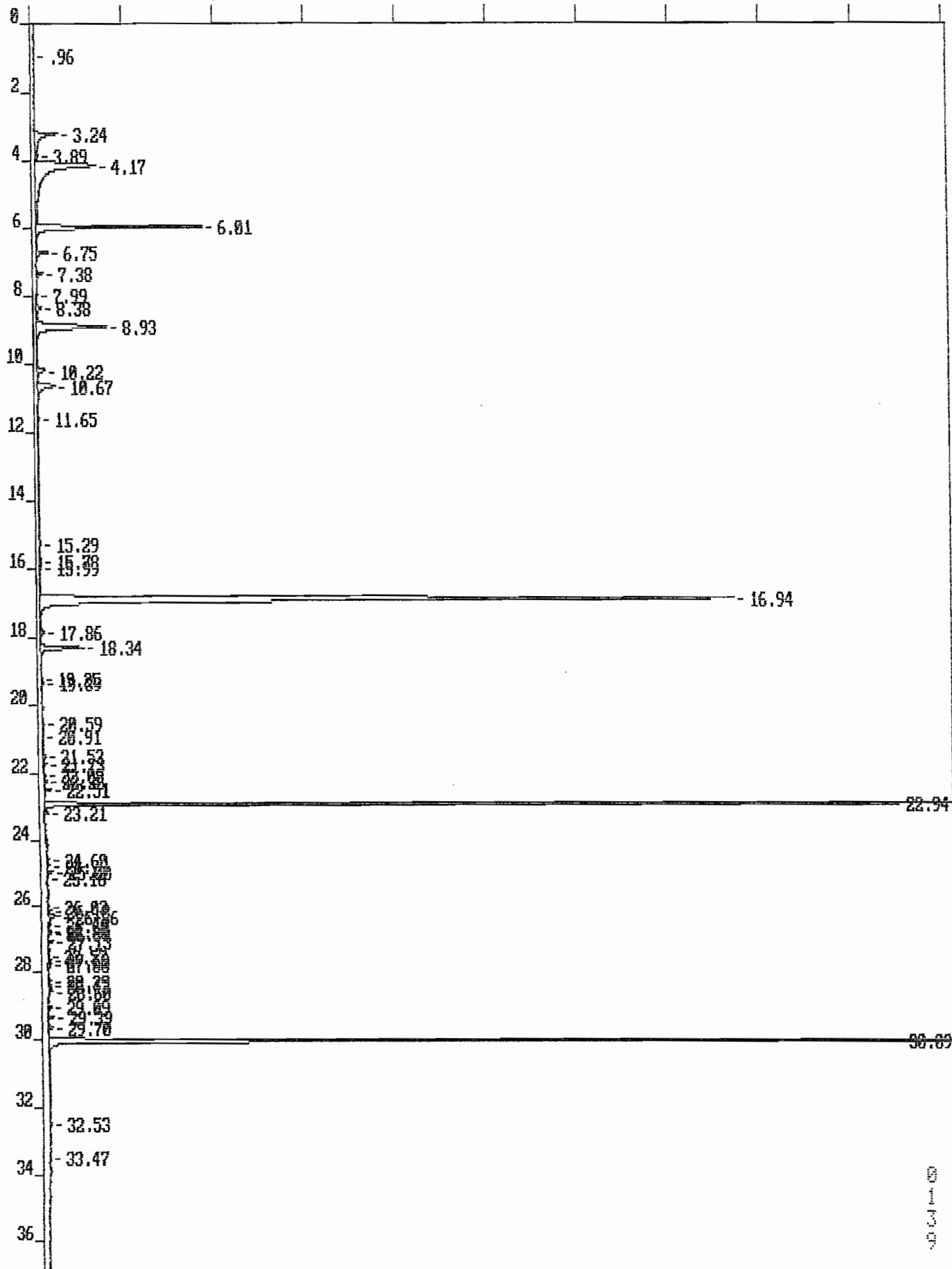
Date: 01/02/02

File=C:\CP\DATA1\18365B.45R Date printed=01-02-2002 Time= 04:22:47

Sample Name=3749351

01365A181127,8404

0.0 to 37.0 min. Low Y=0.01 High Y=15.01 mv Span=15.0



Sample Name: 3749351

Batch: 01365A18

Date Taken: Jan 2, 2002 04:21:43

Raw File: C:\CP\DATA1\18365B.45R

Area File: C:\CP\DATA1\18365B.45A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 14):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.297    | 4.297    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 6.753    | 6.735    | 1,1-DICHLOROETHENE   | 0.4611   | 1054   | 191    |
| 8.383    | 8.553    | TRANS-1,2-DICHLOROET | 0.0854   | 778    | 82     |
| 8.931    | 8.939    | METHYL T-BUTYL ETHER | 4.1080   | 10319  | 1164   |
| 10.990   | 10.990   | CIS-1,2-DICHLOROETHE | 0.0000   | 0      | 0      |
| 15.289   | 15.274   | 1,1-DICHLOROPROPENE  | 0.0774   | 145    | 27     |
| 15.990   | 16.011   | BENZENE              | 0.0435   | 304    | 37     |
| 16.936   | 16.947   | ISTD-FBENZENE        | 1.0000   | 86152  | 11406  |
| 18.341   | 18.346   | TRICHLOROETHENE      | 1.0442   | 4143   | 715    |
| 19.840   | 19.840   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.189   | 20.189   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.146   | 21.146   | TRANS-1,3-DICHLOROPR | 0.0000   | 0      | 0      |
| 21.730   | 21.733   | TOLUENE              | 0.0336   | 196    | 58     |
| 22.939   | 22.941   | TETRACHLOROETHENE    | 18.3968  | 51066  | 16740  |
| 23.991   | 23.991   | CHLOROBENZENE        | 0.0000   | 0      | 0      |
| 24.306   | 24.306   | ETHYLBENZENE         | 0.0000   | 0      | 0      |
| 24.602   | 24.598   | M,P-XYLENE           | 0.0295   | 266    | 55     |
| 25.063   | 25.063   | STYRENE              | 0.0000   | 0      | 0      |
| 25.157   | 25.166   | O-XYLENE             | 0.0166   | 104    | 31     |
| 25.709   | 25.709   | ISOPROPYLBENZENE     | 0.0000   | 0      | 0      |
| 26.032   | 26.027   | BROMOBENZENE         | 0.0153   | 110    | 33     |
| 26.357   | 26.356   | N-PROPYLBENZENE      | 0.1092   | 737    | 181    |
| 26.479   | 26.479   | 2-CHLOROTOLUENE      | 0.0000   | 0      | 0      |
| 26.603   | 26.598   | 4-CHLOROTOLUENE      | 0.0286   | 264    | 55     |
| 26.802   | 26.803   | 1,3,5-TRIMETHYLBENZE | 0.0219   | 183    | 51     |
| 27.227   | 27.227   | TERT-BUTYLBENZENE    | 0.0000   | 0      | 0      |
| 27.409   | 27.409   | 1,2,4-TRIMETHYLBENZE | 0.0000   | 0      | 0      |
| 27.574   | 27.577   | SEC-BUTYLBENZENE     | 0.0253   | 111    | 32     |
| 27.689   | 27.683   | 1,3-DICHLOROBENZENE  | 0.0362   | 236    | 62     |
| 27.800   | 27.799   | 1,4-DICHLOROBENZENE  | 0.0378   | 393    | 65     |
| 27.884   | 27.884   | P-ISOPROPYLTOLUENE   | 0.0000   | 0      | 0      |
| 28.427   | 28.409   | 1,2-DICHLOROBENZENE  | 0.0408   | 309    | 52     |
| 28.600   | 28.597   | N-BUTYLBENZENE       | 0.0605   | 300    | 71     |
| 30.088   | 30.094   | SURR-1B4CB-P         | 26.6793  | 141534 | 37852  |
| 32.531   | 32.553   | 1,2,4-TRICHLOROBENZE | 0.0522   | 158    | 29     |
| 33.299   | 33.299   | NAPHTHALENE          | 0.0000   | 0      | 0      |
| 33.471   | 33.517   | HEXACHLOROBUTADIENE  | 0.0644   | 106    | 21     |
| 33.943   | 33.943   | 1,2,3-TRICHLOROBENZE | 0.0000   | 0      | 0      |

XYLENES (Total): 0.0461

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 88.9312%

Chrom Perfect version 6.07

Reported on 01-02-2002at 04:24:12

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: 3749351

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365B.45R

Reviewed by:

*TZ us*

Verified by:

*mm48*

Date:

*1-2-02*

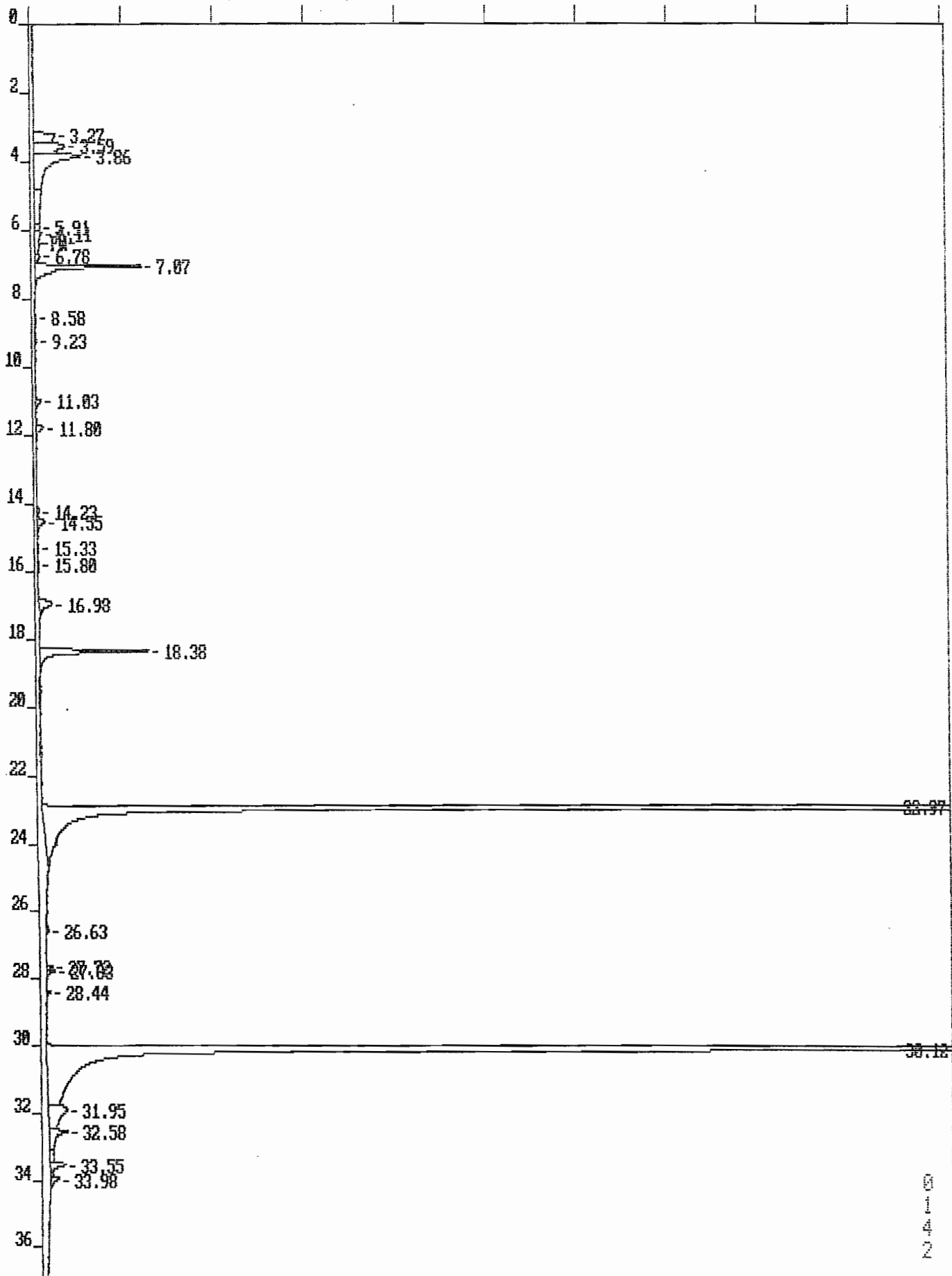
Date:

*01/02/02*

File=C:\CP\DATA1\18365.48R Date printed=01-02-2002 Time= 06:38:32

Sample Name=3749352 01365A181127,8404

0.0 to 37.0 min. Low Y=-0.012 High Y=14.988 mv Span=15.0



Sample Name: 3749352

Batch: 01365A18

Date Taken: Jan 2, 2002 06:38:27

Raw File: C:\CP\DATA1\18365.48R

Area File: C:\CP\DATA1\18365.48A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 10 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 14):

| Ret Time                  | Expected |                      | Amount * | Peak   | Peak   |
|---------------------------|----------|----------------------|----------|--------|--------|
| (min)                     | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 3.857                     | 3.802    | DICHLORODIFLUOROMETH | 3.8539   | 17573  | 780    |
| 3.998                     | 3.998    | CHLOROMETHANE        | 0.0000   | 0      | 0      |
| 4.325                     | 4.325    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 4.781                     | 4.781    | BROMOMETHANE         | 0.0000   | 0      | 0      |
| 4.977                     | 4.977    | CHLOROETHANE         | 0.0000   | 0      | 0      |
| 5.907                     | 5.837    | TRICHLOROFLUOROMETHA | 0.3708   | 1250   | 95     |
| 6.776                     | 6.764    | 1,1-DICHLOROETHENE   | 0.1970   | 1009   | 91     |
| 7.071                     | 7.071    | METHYLENE CHLORIDE   | 2.0731   | 13565  | 1720   |
| 7.251                     | 7.251    | TRICHLOROTRIFLUOROET | 0.0000   | 0      | 0      |
| 8.584                     | 8.581    | TRANS-1,2-DICHLOROET | 0.0292   | 251    | 18     |
| 9.230                     | 9.232    | 1,1-DICHLOROETHANE   | 0.0531   | 233    | 28     |
| 11.025                    | 11.020   | CIS-1,2-DICHLOROETHE | 0.1734   | 789    | 88     |
| 11.539                    | 11.539   | BROMOCHLOROMETHANE   | 0.0000   | 0      | 0      |
| 11.803                    | 11.795   | CHLOROFORM           | 0.1933   | 1239   | 118    |
| 12.041                    | 12.041   | 2,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 14.234                    | 14.223   | 1,2-DICHLOROETHANE   | 0.0756   | 292    | 36     |
| 14.547                    | 14.540   | 1,1,1-TRICHLOROETHAN | 0.2593   | 1531   | 129    |
| 15.333                    | 15.304   | 1,1-DICHLOROPROPENE  | 0.0599   | 293    | 26     |
| 15.804                    | 15.826   | CARBON TETRACHLORIDE | 0.0341   | 214    | 21     |
| 18.045                    | 18.045   | DIBROMOMETHANE       | 0.0000   | 0      | 0      |
| 18.218                    | 18.218   | 1,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 18.380                    | 18.374   | TRICHLOROETHENE      | 2.2366   | 13175  | 1788   |
| 18.482                    | 18.482   | BROMODICHLOROMETHANE | 0.0000   | 0      | 0      |
| 19.868                    | 19.868   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.215                    | 20.215   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.172                    | 21.172   | TRANS-1,3-DICHLOROPR | 0.0000   | 0      | 0      |
| 21.401                    | 21.401   | 1,1,2-TRICHLOROETHAN | 0.0000   | 0      | 0      |
| 21.863                    | 21.863   | 1,3-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 22.247                    | 22.247   | DIBROMOCHLOROMETHANE | 0.0000   | 0      | 0      |
| 22.641                    | 22.641   | 1,2-DIBROMOETHANE    | 0.0000   | 0      | 0      |
| 22.967                    | 22.967   | TETRACHLOROETHENE    | 82.7638  | 402014 | 91980  |
| 23.917                    | 23.917   | 1,1,1,2-TETRACHLOROE | 0.0000   | 0      | 0      |
| 24.014                    | 24.014   | CHLOROBENZENE        | 0.0000   | 0      | 0      |
| 24.694                    | 24.694   | BROMOFORM            | 0.0000   | 0      | 0      |
| 25.184                    | 25.184   | 1,1,2,2-TETRACHLOROE | 0.0000   | 0      | 0      |
| 25.388                    | 25.388   | 1,2,3-TRICHLOROPROPA | 0.0000   | 0      | 0      |
| 26.054                    | 26.054   | BROMOBENZENE         | 0.0000   | 0      | 0      |
| 26.504                    | 26.504   | 2-CHLOROTOLUENE      | 0.0000   | 0      | 0      |
| 26.627                    | 26.623   | 4-CHLOROTOLUENE      | 0.1359   | 265    | 55     |
| 27.715                    | 27.709   | 1,3-DICHLOROBENZENE  | 0.1873   | 486    | 110    |
| 27.831                    | 27.824   | 1,4-DICHLOROBENZENE  | 0.2250   | 877    | 140    |
| 28.442                    | 28.435   | 1,2-DICHLOROBENZENE  | 0.1405   | 384    | 79     |
| 29.320                    | 29.320   | 1,2-DIBROMO-3-CHLORO | 0.0000   | 0      | 0      |
| 30.122                    | 30.121   | SURR-1B4CB-H         | 293.0645 | 528133 | 100454 |
| 32.585                    | 32.581   | 1,2,4-TRICHLOROBENZE | 0.7253   | 4839   | 291    |
| 33.554                    | 33.546   | HEXACHLOROBTADIENE   | 0.5372   | 2681   | 255    |
| 33.982                    | 33.972   | 1,2,3-TRICHLOROBENZE | 0.4350   | 1456   | 149    |
| TOTAL 1,2-DICHLOROETHENE: |          |                      | 0.2025   |        |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 97.6881%

Chrom Perfect version 6.07

Reported on 01-02-2002at 06:39:21

Sample name: 3749352

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365.48R

Reviewed by: Bus

Verified by: umm49

Date: 1-2-02

Date: 01/02/02

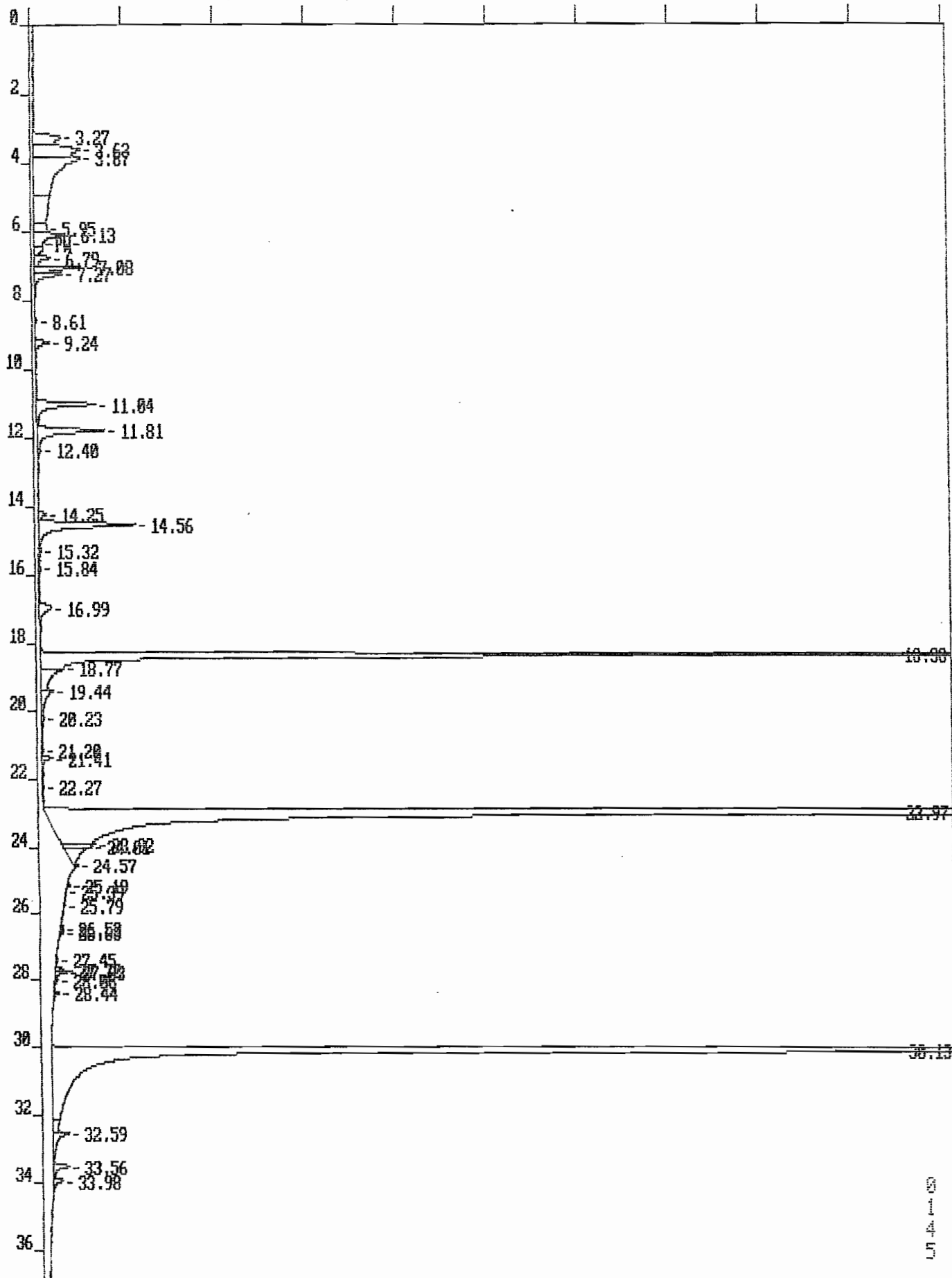
PCE ONLY

File=C:\CP\DATA1\18365.46R Date printed=01-02-2002 Time= 05:08:12

Sample Name=3749352

01365A181127,8404

0.0 to 37.0 min. Low Y=-0.011 High Y=14.989 mv Span=15.0





Sample Name: 3749352

Batch: 01365A18

Date Taken: Jan 2, 2002 05:08:07

Raw File: C:\CP\DATA1\18365.46R

\* PCE amount taken from DF10 (#48).

Area File: C:\CP\DATA1\18365.46A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 14):

| Ret Time | Expected |                      | Amount *             | Peak    | Peak   |
|----------|----------|----------------------|----------------------|---------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)               | Area    | Height |
| 3.870    | 3.802    | DICHLORODIFLUOROMETH | 0.3788               | 29288   | 767    |
| 3.998    | 3.998    | CHLOROMETHANE        | 0.0000               | 0       | 0      |
| 4.325    | 4.325    | VINYL CHLORIDE       | 0.0000               | 0       | 0      |
| 4.781    | 4.781    | BROMOMETHANE         | 0.0000               | 0       | 0      |
| 4.977    | 4.977    | CHLOROETHANE         | 0.0000               | 0       | 0      |
| 5.953    | 5.837    | TRICHLOROFLUOROMETHA | 0.0813               | 2911    | 208    |
| 6.791    | 6.764    | 1,1-DICHLOROETHENE   | 0.0551               | 2435    | 255    |
| 7.081    | 7.071    | METHYLENE CHLORIDE   | 0.0983               | 5014    | 816    |
| 7.267    | 7.251    | TRICHLOROTRIFLUOROET | 0.1270               | 4513    | 461    |
| 8.606    | 8.581    | TRANS-1,2-DICHLOROET | 0.0051               | 236     | 32     |
| 9.245    | 9.232    | 1,1-DICHLOROETHANE   | 0.0428               | 2025    | 229    |
| 11.036   | 11.020   | CIS-1,2-DICHLOROETHE | 0.1931               | 9289    | 977    |
| 11.539   | 11.539   | BROMOCHLOROMETHANE   | 0.0000               | 0       | 0      |
| 11.811   | 11.795   | CHLOROFORM           | 0.1816               | 11912   | 1111   |
| 12.041   | 12.041   | 2,2-DICHLOROPROPANE  | 0.0000               | 0       | 0      |
| 14.248   | 14.223   | 1,2-DICHLOROETHANE   | 0.0267               | 1084    | 128    |
| 14.559   | 14.540   | 1,1,1-TRICHLOROETHAN | 0.3184               | 18439   | 1582   |
| 15.324   | 15.304   | 1,1-DICHLOROPROPENE  | 0.0113               | 630     | 50     |
| 15.841   | 15.826   | CARBON TETRACHLORIDE | 0.0047               | 409     | 29     |
| 18.045   | 18.045   | DIBROMOMETHANE       | 0.0000               | 0       | 0      |
| 18.218   | 18.218   | 1,2-DICHLOROPROPANE  | 0.0000               | 0       | 0      |
| 18.384   | 18.374   | TRICHLOROETHENE      | 2.6278               | 136243  | 21005  |
| 18.482   | 18.482   | BROMODICHLOROMETHANE | 0.0000               | 0       | 0      |
| 19.868   | 19.868   | 2-CHLOROETHYL VINYL  | 0.0000               | 0       | 0      |
| 20.231   | 20.215   | CIS-1,3-DICHLOROPROP | 0.0066               | 942     | 48     |
| 21.203   | 21.172   | TRANS-1,3-DICHLOROPR | 0.0043               | 212     | 30     |
| 21.414   | 21.401   | 1,1,2-TRICHLOROETHAN | 0.0231               | 1278    | 194    |
| 21.863   | 21.863   | 1,3-DICHLOROPROPANE  | 0.0000               | 0       | 0      |
| 22.267   | 22.247   | DIBROMOCHLOROMETHANE | 0.0046               | 214     | 27     |
| 22.641   | 22.641   | 1,2-DIBROMOETHANE    | 0.0000               | 0       | 0      |
| 22.972   | 22.967   | TETRACHLOROETHENE    | <del>70.5192</del> * | 3326929 | 783722 |
| 23.921   | 23.917   | 1,1,1,2-TETRACHLOROE | 0.0480               | 3606    | 561    |
| 24.014   | 24.014   | CHLOROBENZENE        | 0.0825               | 6773    | 455    |
| 24.570   | 24.694   | BROMOFORM            | 0.0206               | 303     | 76     |
| 25.189   | 25.184   | 1,1,2,2-TETRACHLOROE | 0.0089               | 376     | 58     |
| 25.388   | 25.388   | 1,2,3-TRICHLOROPROPA | 0.0045               | 203     | 23     |
| 26.054   | 26.054   | BROMOBENZENE         | 0.0000               | 0       | 0      |
| 26.522   | 26.504   | 2-CHLOROTOLUENE      | 0.0151               | 308     | 60     |
| 26.634   | 26.623   | 4-CHLOROTOLUENE      | 0.0169               | 411     | 68     |
| 27.722   | 27.709   | 1,3-DICHLOROBENZENE  | 0.0216               | 566     | 127    |
| 27.834   | 27.824   | 1,4-DICHLOROBENZENE  | 0.0314               | 1172    | 196    |
| 28.445   | 28.435   | 1,2-DICHLOROBENZENE  | 0.0171               | 590     | 97     |
| 29.320   | 29.320   | 1,2-DIBROMO-3-CHLORO | 0.0000               | 0       | 0      |
| 30.125   | 30.121   | SURR-1B4CB-H         | 28.6005              | 522728  | 98034  |
| 32.590   | 32.581   | 1,2,4-TRICHLOROBENZE | 0.0683               | 4317    | 274    |
| 33.556   | 33.546   | HEXACHLOROBUTADIENE  | 0.0589               | 2812    | 279    |
| 33.983   | 33.972   | 1,2,3-TRICHLOROBENZE | 0.0496               | 1732    | 169    |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 95.3350%

Chrom Perfect version 6.07

Reported on 01-02-2002at 05:09:01

0146

Sample name: 3749352

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365.46R

Reviewed by:

BUS

Verified by:

UMMKG

Date:

1-2-02

Date:

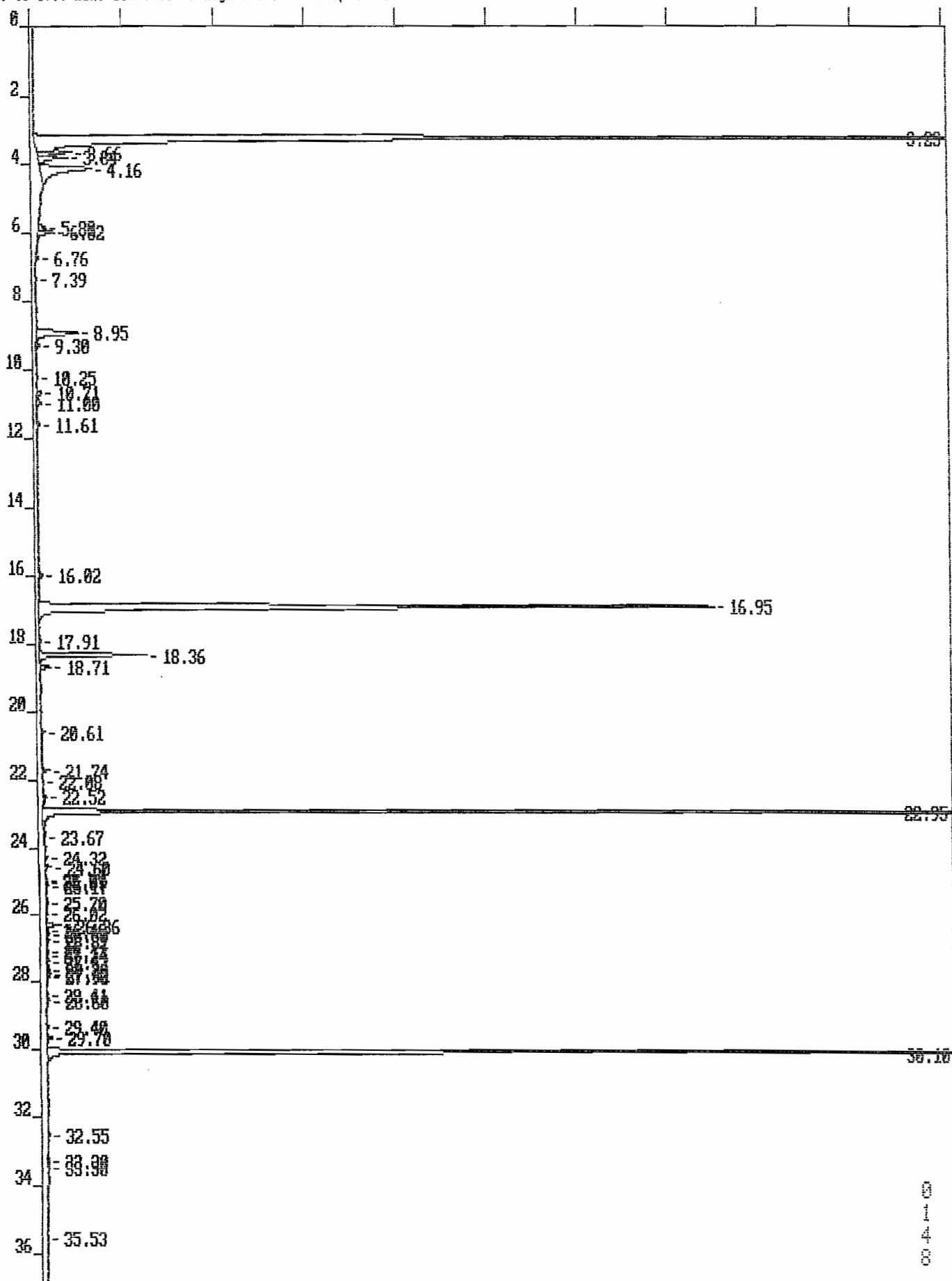
01/02/02

File=C:\CP\DATA1\183658.46R Date printed=01-02-2002 Time= 05:09:12

Sample Name=3749352

01365A181127,8404

0.0 to 37.0 min. Low Y=0.017 High Y=15.017 mv Span=15.0



Sample Name: 3749352

Batch: 01365A18

Date Taken: Jan 2, 2002 05:08:07

Raw File: C:\CP\DATA1\18365B.46R

Area File: C:\CP\DATA1\18365B.46A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 14):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.297    | 4.297    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 6.758    | 6.735    | 1,1-DICHLOROETHENE   | 0.1481   | 466    | 60     |
| 8.553    | 8.553    | TRANS-1,2-DICHLOROET | 0.0000   | 0      | 0      |
| 8.953    | 8.939    | METHYL T-BUTYL ETHER | 2.5164   | 6052   | 696    |
| 10.996   | 10.990   | CIS-1,2-DICHLOROETHE | 0.2269   | 703    | 86     |
| 15.274   | 15.274   | 1,1-DICHLOROPROPENE  | 0.0000   | 0      | 0      |
| 16.016   | 16.011   | BENZENE              | 0.0768   | 460    | 63     |
| 16.955   | 16.947   | ISTD-FBENZENE        | 1.0000   | 84297  | 11124  |
| 18.355   | 18.346   | TRICHLOROETHENE      | 2.6329   | 9316   | 1759   |
| 19.840   | 19.840   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.189   | 20.189   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.146   | 21.146   | TRANS-1,3-DICHLOROPR | 0.0000   | 0      | 0      |
| 21.738   | 21.733   | TOLUENE              | 0.0747   | 444    | 125    |
| 22.947   | 22.941   | TETRACHLOROETHENE    | 84.5546  | 229794 | 75035  |
| 23.991   | 23.991   | CHLOROBENZENE        | 0.0000   | 0      | 0      |
| 24.316   | 24.306   | ETHYLBENZENE         | 0.0270   | 189    | 50     |
| 24.601   | 24.598   | M,P-XYLENE           | 0.0503   | 314    | 92     |
| 25.073   | 25.063   | STYRENE              | 0.0201   | 139    | 47     |
| 25.173   | 25.166   | O-XYLENE             | 0.0341   | 279    | 62     |
| 25.700   | 25.709   | ISOPROPYLBENZENE     | 0.0273   | 230    | 38     |
| 26.025   | 26.027   | BROMOBENZENE         | 0.0167   | 121    | 35     |
| 26.360   | 26.356   | N-PROPYLBENZENE      | 0.1541   | 1006   | 249    |
| 26.494   | 26.479   | 2-CHLOROTOLUENE      | 0.0240   | 193    | 43     |
| 26.601   | 26.598   | 4-CHLOROTOLUENE      | 0.0279   | 297    | 52     |
| 26.807   | 26.803   | 1,3,5-TRIMETHYLBENZE | 0.0243   | 215    | 55     |
| 27.243   | 27.227   | TERT-BUTYLBENZENE    | 0.0319   | 128    | 38     |
| 27.417   | 27.409   | 1,2,4-TRIMETHYLBENZE | 0.0342   | 212    | 58     |
| 27.577   | 27.577   | SEC-BUTYLBENZENE     | 0.0000   | 0      | 0      |
| 27.703   | 27.683   | 1,3-DICHLOROBENZENE  | 0.0364   | 216    | 61     |
| 27.806   | 27.799   | 1,4-DICHLOROBENZENE  | 0.0451   | 249    | 76     |
| 27.895   | 27.884   | P-ISOPROPYLTOLUENE   | 0.0488   | 225    | 59     |
| 28.410   | 28.409   | 1,2-DICHLOROBENZENE  | 0.0284   | 104    | 36     |
| 28.603   | 28.597   | N-BUTYLBENZENE       | 0.0472   | 175    | 54     |
| 30.097   | 30.094   | SURR-1B4CB-P         | 27.4133  | 142755 | 37931  |
| 32.554   | 32.553   | 1,2,4-TRICHLOROBENZE | 0.0680   | 181    | 37     |
| 33.297   | 33.299   | NAPHTHALENE          | 0.0547   | 241    | 35     |
| 33.503   | 33.517   | HEXACHLOROBUTADIENE  | 0.0691   | 143    | 22     |
| 33.943   | 33.943   | 1,2,3-TRICHLOROBENZE | 0.0000   | 0      | 0      |

XYLENES (Total): 0.0844

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 91.3777%

Chrom Perfect version 6.07

Reported on 01-02-2002at 05:10:33

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: 3749352

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365B.46R

Reviewed by:

*[Signature]*

Verified by:

*[Signature]*

Date:

*1-2-02*

Date:

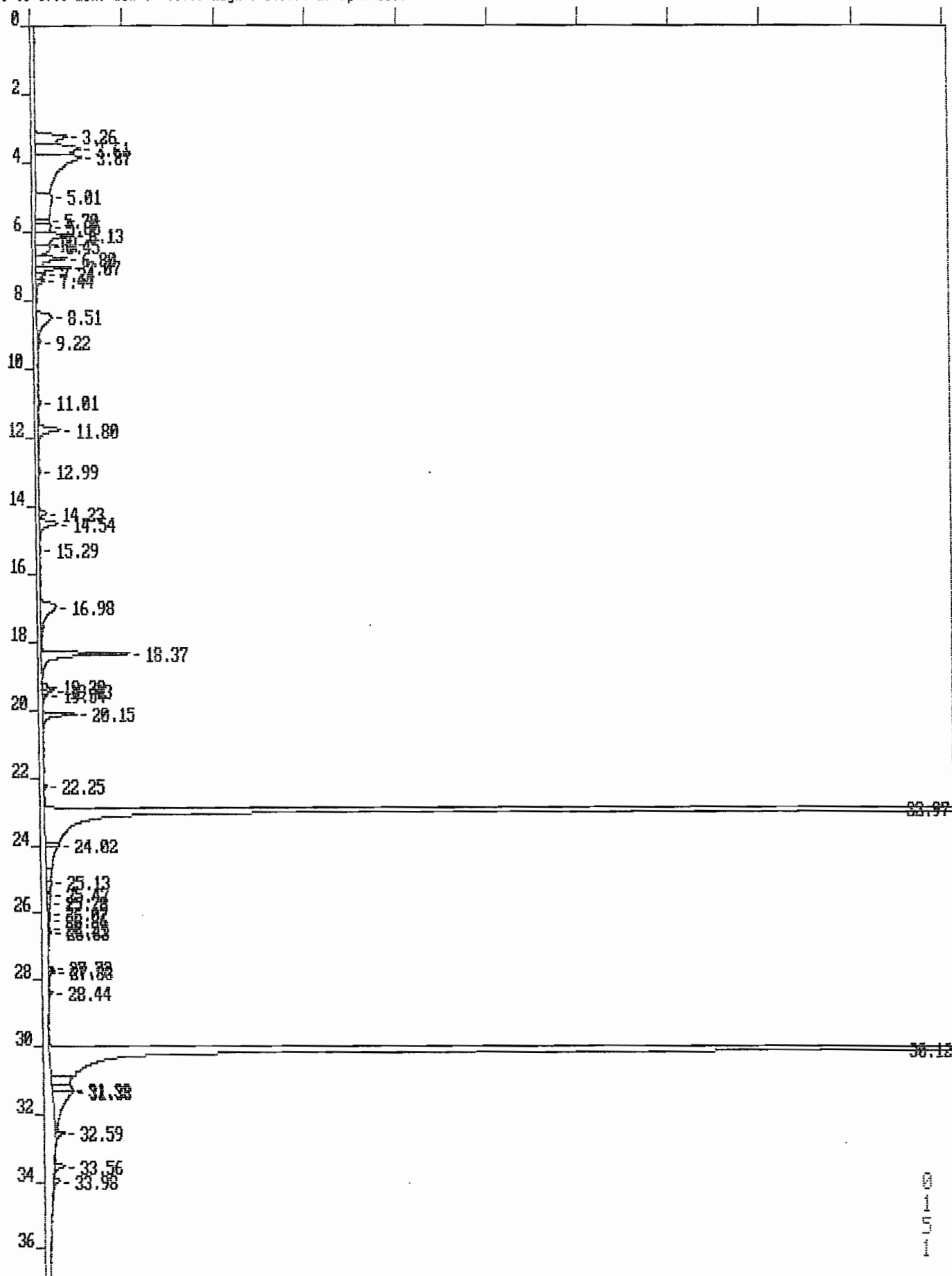
*01/02/02*

File-C:\CP\DATA1\18365.47R Date printed=01-02-2002 Time= 05:51:04

Sample Name=3749353

01365A181127,8404

0.0 to 37.0 min. Low Y=-0.007 High Y=14.993 mv Span=15.0



Sample Name: 3749353

Batch: 01365A18

Date Taken: Jan 2, 2002 05:51:00

Raw File: C:\CP\DATA1\18365.47R

Area File: C:\CP\DATA1\18365.47A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 14):

| Ret Time                  | Expected |                      | Amount * | Peak   | Peak   |
|---------------------------|----------|----------------------|----------|--------|--------|
| (min)                     | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 3.868                     | 3.802    | DICHLORODIFLUOROMETH | 0.3742   | 27363  | 757    |
| 3.998                     | 3.998    | CHLOROMETHANE        | 0.0000   | 0      | 0      |
| 4.325                     | 4.325    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 4.781                     | 4.781    | BROMOMETHANE         | 0.0000   | 0      | 0      |
| 5.009                     | 4.977    | CHLOROETHANE         | 0.0628   | 10839  | 268    |
| 5.850                     | 5.837    | TRICHLOROFLUOROMETHA | 0.0973   | 3796   | 248    |
| 6.802                     | 6.764    | 1,1-DICHLOROETHENE   | 0.1070   | 4311   | 495    |
| 7.071                     | 7.071    | METHYLENE CHLORIDE   | 0.0690   | 3771   | 572    |
| 7.243                     | 7.251    | TRICHLOROTRIFLUOROET | 0.0417   | 1093   | 151    |
| 8.506                     | 8.581    | TRANS-1,2-DICHLOROET | 0.0397   | 5417   | 248    |
| 9.224                     | 9.232    | 1,1-DICHLOROETHANE   | 0.0084   | 411    | 45     |
| 11.013                    | 11.020   | CIS-1,2-DICHLOROETHE | 0.0084   | 388    | 43     |
| 11.539                    | 11.539   | BROMOCHLOROMETHANE   | 0.0000   | 0      | 0      |
| 11.798                    | 11.795   | CHLOROFORM           | 0.0602   | 3980   | 368    |
| 12.041                    | 12.041   | 2,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 14.227                    | 14.223   | 1,2-DICHLOROETHANE   | 0.0246   | 976    | 118    |
| 14.537                    | 14.540   | 1,1,1-TRICHLOROETHAN | 0.0603   | 3553   | 299    |
| 15.294                    | 15.304   | 1,1-DICHLOROPROPENE  | 0.0056   | 250    | 25     |
| 15.826                    | 15.826   | CARBON TETRACHLORIDE | 0.0000   | 0      | 0      |
| 18.045                    | 18.045   | DIBROMOMETHANE       | 0.0000   | 0      | 0      |
| 18.218                    | 18.218   | 1,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 18.373                    | 18.374   | TRICHLOROETHENE      | 0.1829   | 11961  | 1462   |
| 18.482                    | 18.482   | BROMODICHLOROMETHANE | 0.0000   | 0      | 0      |
| 19.868                    | 19.868   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.151                    | 20.215   | CIS-1,3-DICHLOROPROP | 0.0791   | 4342   | 571    |
| 21.172                    | 21.172   | TRANS-1,3-DICHLOROPR | 0.0000   | 0      | 0      |
| 21.401                    | 21.401   | 1,1,2-TRICHLOROETHAN | 0.0000   | 0      | 0      |
| 21.863                    | 21.863   | 1,3-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 22.253                    | 22.247   | DIBROMOCHLOROMETHANE | 0.0087   | 254    | 50     |
| 22.641                    | 22.641   | 1,2-DIBROMOETHANE    | 0.0000   | 0      | 0      |
| 22.965                    | 22.967   | TETRACHLOROETHENE    | 9.1668   | 440953 | 101876 |
| 23.917                    | 23.917   | 1,1,1,2-TETRACHLOROE | 0.0000   | 0      | 0      |
| 24.016                    | 24.014   | CHLOROBENZENE        | 0.0422   | 6093   | 233    |
| 24.694                    | 24.694   | BROMOFORM            | 0.0000   | 0      | 0      |
| 25.125                    | 25.184   | 1,1,2,2-TETRACHLOROE | 0.0135   | 1078   | 88     |
| 25.473                    | 25.388   | 1,2,3-TRICHLOROPROPA | 0.0122   | 892    | 62     |
| 26.066                    | 26.054   | BROMOBENZENE         | 0.0144   | 390    | 41     |
| 26.507                    | 26.504   | 2-CHLOROTOLUENE      | 0.0111   | 236    | 44     |
| 26.630                    | 26.623   | 4-CHLOROTOLUENE      | 0.0132   | 360    | 53     |
| 27.717                    | 27.709   | 1,3-DICHLOROBENZENE  | 0.0149   | 382    | 87     |
| 27.832                    | 27.824   | 1,4-DICHLOROBENZENE  | 0.0181   | 871    | 113    |
| 28.442                    | 28.435   | 1,2-DICHLOROBENZENE  | 0.0113   | 356    | 64     |
| 29.320                    | 29.320   | 1,2-DIBROMO-3-CHLORO | 0.0000   | 0      | 0      |
| 30.123                    | 30.121   | SURR-1B4CB-H         | 28.1283  | 491309 | 96416  |
| 32.590                    | 32.581   | 1,2,4-TRICHLOROBENZE | 0.0376   | 1229   | 151    |
| 33.559                    | 33.546   | HEXACHLOROBUTADIENE  | 0.0363   | 1435   | 172    |
| 33.979                    | 33.972   | 1,2,3-TRICHLOROBENZE | 0.0299   | 1066   | 102    |
| TOTAL 1,2-DICHLOROETHENE: |          |                      | 0.0482   |        |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 93.7610%

Chrom Perfect version 6.07

Reported on 01-02-2002at 05:51:54

011512

Sample name: 3749353

Batch: 01365A181127,840

Raw file: C:\CP\DATA1\18365.47R

Reviewed by: TS

Verified by: Umm48

Date: 1-2-02

Date: 01/02/02

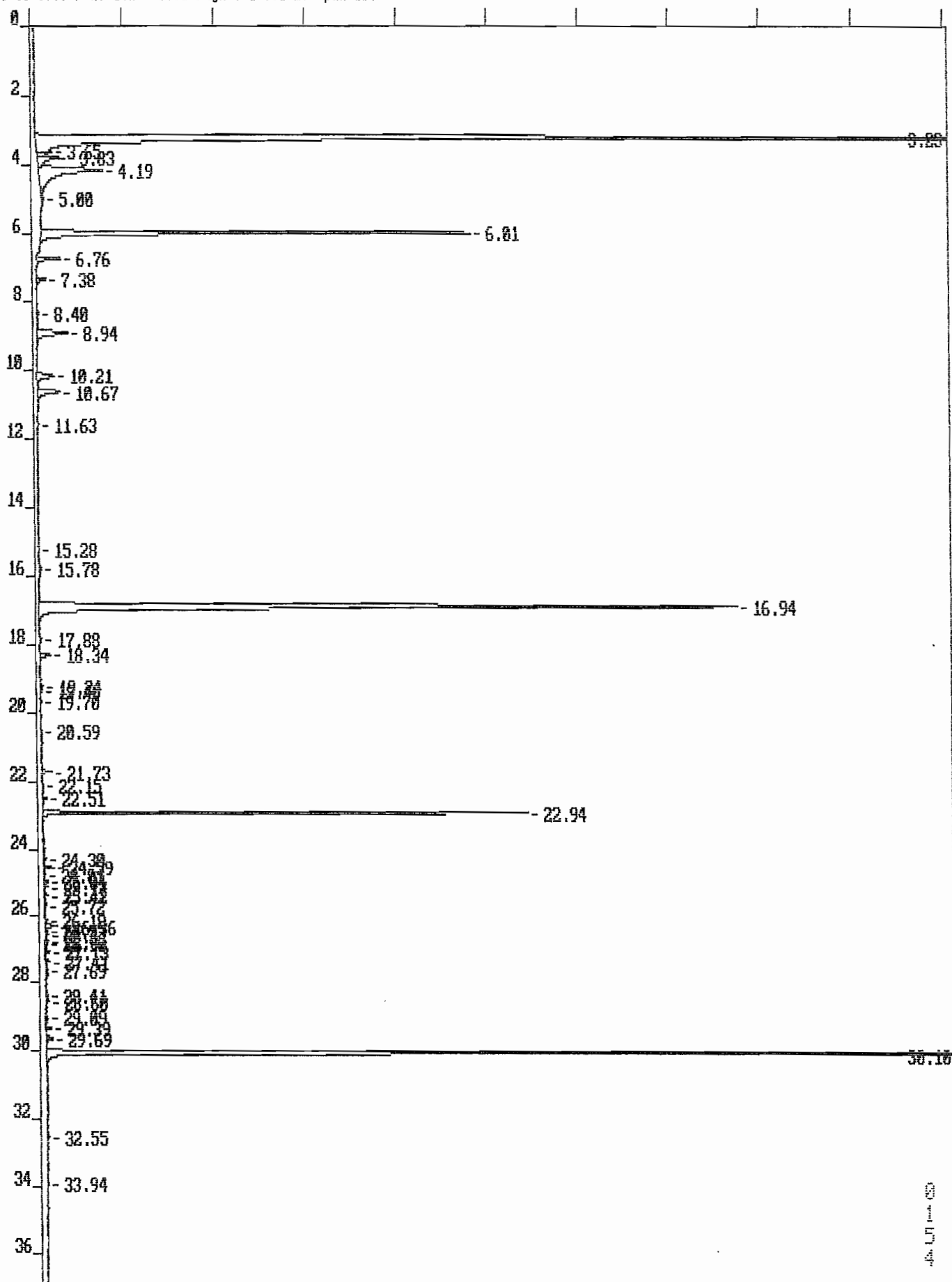


File=C:\CP\DATA1\183658.47R Date printed=01-02-2002 Time= 05:52:04

Sample Name=3749353

01365A181127,8404

0.0 to 37.0 min. Low Y=0.01 High Y=15.01 mv Span=15.0



Sample Name: 3749353

Batch: 01365A18

Date Taken: Jan 2, 2002 05:51:00

Raw File: C:\CP\DATA1\18365B.47R

Area File: C:\CP\DATA1\18365B.47A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 14):

| Ret Time | Expected | Amount *             | Peak    | Peak   |
|----------|----------|----------------------|---------|--------|
| (min)    | RT (min) | (ug/L)               | Area    | Height |
| 4.297    | 4.297    | VINYL CHLORIDE       | 0.0000  | 0      |
| 6.759    | 6.735    | 1,1-DICHLOROETHENE   | 0.9407  | 2078   |
| 8.399    | 8.553    | TRANS-1,2-DICHLOROET | 0.0391  | 204    |
| 8.940    | 8.939    | METHYL T-BUTYL ETHER | 1.7906  | 4554   |
| 10.990   | 10.990   | CIS-1,2-DICHLOROETHE | 0.0000  | 0      |
| 15.280   | 15.274   | 1,1-DICHLOROPROPENE  | 0.0499  | 112    |
| 16.011   | 16.011   | BENZENE              | 0.0000  | 0      |
| 16.936   | 16.947   | ISTD-FBENZENE        | 1.0000  | 86568  |
| 18.338   | 18.346   | TRICHLOROETHENE      | 0.2613  | 1038   |
| 19.697   | 19.840   | 2-CHLOROETHYL VINYL  | 0.0324  | 110    |
| 20.189   | 20.189   | CIS-1,3-DICHLOROPROP | 0.0000  | 0      |
| 21.146   | 21.146   | TRANS-1,3-DICHLOROPR | 0.0000  | 0      |
| 21.730   | 21.733   | TOLUENE              | 0.0943  | 585    |
| 22.939   | 22.941   | TETRACHLOROETHENE    | 8.7429  | 24529  |
| 23.991   | 23.991   | CHLOROBENZENE        | 0.0000  | 0      |
| 24.301   | 24.306   | ETHYLBENZENE         | 0.0276  | 284    |
| 24.594   | 24.598   | M,P-XYLENE           | 0.0872  | 602    |
| 25.005   | 25.063   | STYRENE              | 0.0287  | 330    |
| 25.166   | 25.166   | O-XYLENE             | 0.0382  | 275    |
| 25.723   | 25.709   | ISOPROPYLBENZENE     | 0.0166  | 128    |
| 26.184   | 26.027   | BROMOBENZENE         | 0.0167  | 164    |
| 26.357   | 26.356   | N-PROPYLBENZENE      | 0.1170  | 863    |
| 26.530   | 26.479   | 2-CHLOROTOLUENE      | 0.0224  | 233    |
| 26.606   | 26.598   | 4-CHLOROTOLUENE      | 0.0307  | 282    |
| 26.807   | 26.803   | 1,3,5-TRIMETHYLBENZE | 0.0285  | 262    |
| 27.133   | 27.227   | TERT-BUTYLBENZENE    | 0.0658  | 306    |
| 27.410   | 27.409   | 1,2,4-TRIMETHYLBENZE | 0.0441  | 215    |
| 27.577   | 27.577   | SEC-BUTYLBENZENE     | 0.0000  | 0      |
| 27.693   | 27.683   | 1,3-DICHLOROBENZENE  | 0.0194  | 116    |
| 27.799   | 27.799   | 1,4-DICHLOROBENZENE  | 0.0000  | 0      |
| 27.884   | 27.884   | P-ISOPROPYLTOLUENE   | 0.0000  | 0      |
| 28.411   | 28.409   | 1,2-DICHLOROBENZENE  | 0.0363  | 289    |
| 28.602   | 28.597   | N-BUTYLBENZENE       | 0.0554  | 311    |
| 30.095   | 30.094   | SURR-1B4CB-P         | 26.8012 | 143746 |
| 32.554   | 32.553   | 1,2,4-TRICHLOROBENZE | 0.0480  | 155    |
| 33.299   | 33.299   | NAPHTHALENE          | 0.0000  | 0      |
| 33.517   | 33.517   | HEXACHLOROBUTADIENE  | 0.0000  | 0      |
| 33.944   | 33.943   | 1,2,3-TRICHLOROBENZE | 0.0534  | 171    |

XYLENES (Total): 0.1254

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 89.3375%

Chrom Perfect version 6.07

Reported on 01-02-2002at 05:53:28

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: 3749353

Batch: 01365A181127,840

Raw file: C:\CP\DATA1\18365B.47R

Reviewed by: TS 45

Verified by: mmmk

Date: 1-2-02

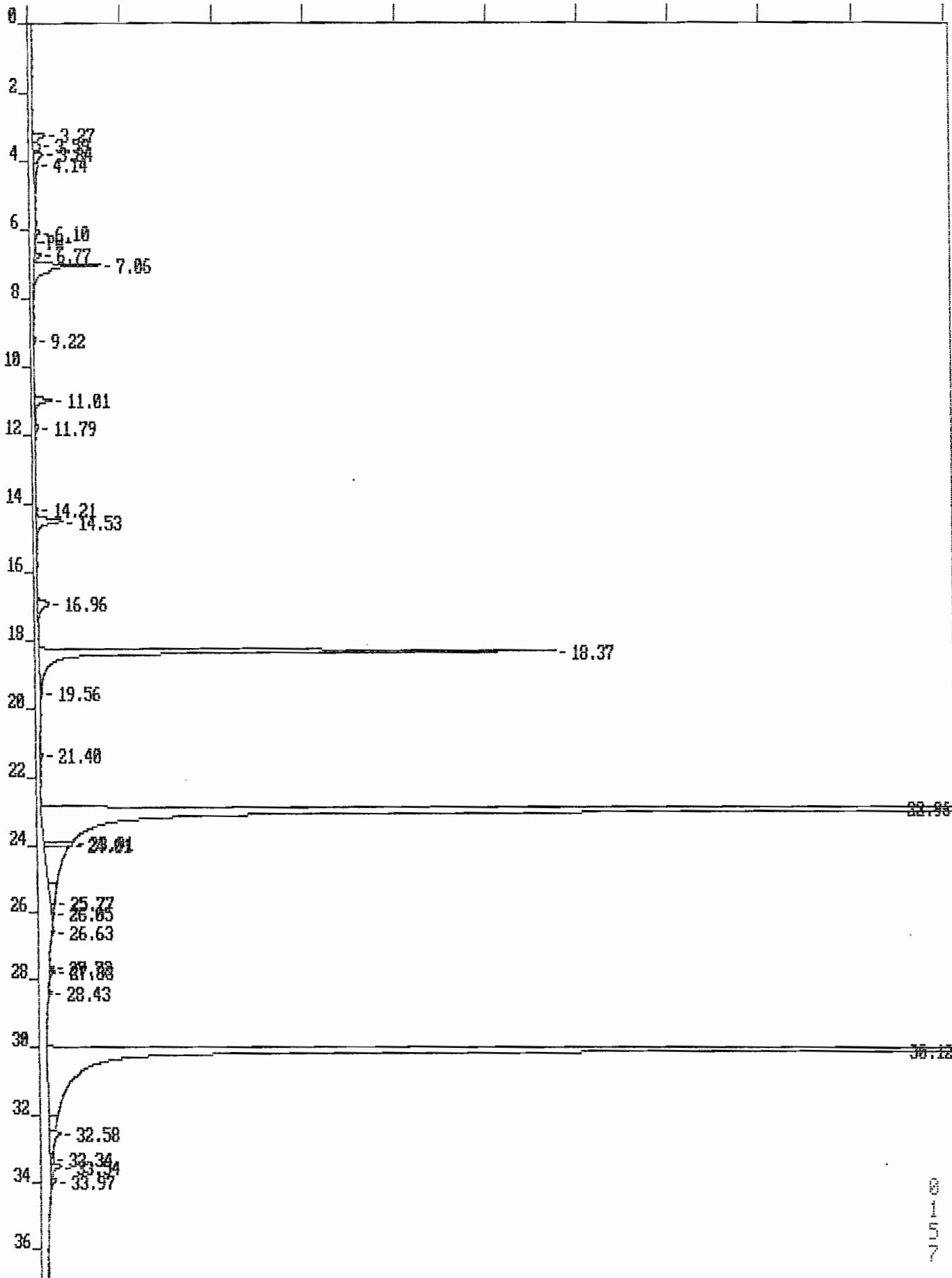
Date: 01/02/02

File=C:\CP\DATA1\18365.51R Date printed=01-02-2002 Time= 08:47:57

Sample Name=3749354

01365A181127,8404

0.0 to 37.0 min. Low Y=-0.018 High Y=14.982 mv Span=15.0



Sample Name: 3749354

Batch: 01365A18

Date Taken: Jan 2, 2002 08:47:52

Raw File: C:\CP\DATA1\18365.51R

Area File: C:\CP\DATA1\18365.51A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 10 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 14):

| Ret Time Expected<br>(min) RT (min) | Peak Name                   | Amount *<br>(ug/L) | Peak<br>Area | Peak<br>Height |
|-------------------------------------|-----------------------------|--------------------|--------------|----------------|
| 3.843                               | 3.802 DICHLORODIFLUOROMETH  | 0.8083             | 1624         | 164            |
| 3.998                               | 3.998 CHLOROMETHANE         | 0.0000             | 0            | 0              |
| 4.144                               | 4.325 VINYL CHLORIDE        | 0.2010             | 1562         | 71             |
| 4.781                               | 4.781 BROMOMETHANE          | 0.0000             | 0            | 0              |
| 4.977                               | 4.977 CHLOROETHANE          | 0.0000             | 0            | 0              |
| 5.837                               | 5.837 TRICHLOROFLUOROMETHA  | 0.0000             | 0            | 0              |
| 6.770                               | 6.764 1,1-DICHLOROETHENE    | 0.2431             | 935          | 113            |
| 7.057                               | 7.071 METHYLENE CHLORIDE    | 1.3110             | 9918         | 1088           |
| 7.251                               | 7.251 TRICHLOROTRIFLUOROET  | 0.0000             | 0            | 0              |
| 8.581                               | 8.581 TRANS-1,2-DICHLOROET  | 0.0000             | 0            | 0              |
| 9.220                               | 9.232 1,1-DICHLOROETHANE    | 0.0600             | 248          | 32             |
| 11.009                              | 11.020 CIS-1,2-DICHLOROETHE | 0.5628             | 2828         | 285            |
| 11.539                              | 11.539 BROMOCHLOROMETHANE   | 0.0000             | 0            | 0              |
| 11.790                              | 11.795 CHLOROFORM           | 0.0883             | 539          | 54             |
| 12.041                              | 12.041 2,2-DICHLOROPROPANE  | 0.0000             | 0            | 0              |
| 14.210                              | 14.223 1,2-DICHLOROETHANE   | 0.0694             | 258          | 33             |
| 14.533                              | 14.540 1,1,1-TRICHLOROETHAN | 0.8763             | 5152         | 435            |
| 15.304                              | 15.304 1,1-DICHLOROPROPENE  | 0.0000             | 0            | 0              |
| 15.826                              | 15.826 CARBON TETRACHLORIDE | 0.0000             | 0            | 0              |
| 18.045                              | 18.045 DIBROMOMETHANE       | 0.0000             | 0            | 0              |
| 18.218                              | 18.218 1,2-DICHLOROPROPANE  | 0.0000             | 0            | 0              |
| 18.366                              | 18.374 TRICHLOROETHENE      | 10.5974            | 61126        | 8471           |
| 18.482                              | 18.482 BROMODICHLOROMETHANE | 0.0000             | 0            | 0              |
| 19.868                              | 19.868 2-CHLOROETHYL VINYL  | 0.0000             | 0            | 0              |
| 20.215                              | 20.215 CIS-1,3-DICHLOROPROP | 0.0000             | 0            | 0              |
| 21.172                              | 21.172 TRANS-1,3-DICHLOROPR | 0.0000             | 0            | 0              |
| 21.404                              | 21.401 1,1,2-TRICHLOROETHAN | 0.0593             | 291          | 50             |
| 21.863                              | 21.863 1,3-DICHLOROPROPANE  | 0.0000             | 0            | 0              |
| 22.247                              | 22.247 DIBROMOCHLOROMETHANE | 0.0000             | 0            | 0              |
| 22.641                              | 22.641 1,2-DIBROMOETHANE    | 0.0000             | 0            | 0              |
| 22.962                              | 22.967 TETRACHLOROETHENE    | 311.6105           | 1470710      | 346311         |
| 23.907                              | 23.917 1,1,1,2-TETRACHLOROE | 0.4210             | 2656         | 493            |
| 24.012                              | 24.014 CHLOROBENZENE        | 0.8357             | 18406        | 461            |
| 24.694                              | 24.694 BROMOFORM            | 0.0000             | 0            | 0              |
| 25.184                              | 25.184 1,1,2,2-TETRACHLOROE | 0.0000             | 0            | 0              |
| 25.388                              | 25.388 1,2,3-TRICHLOROPROPA | 0.0000             | 0            | 0              |
| 26.054                              | 26.054 BROMOBENZENE         | 0.1407             | 344          | 40             |
| 26.504                              | 26.504 2-CHLOROTOLUENE      | 0.0000             | 0            | 0              |
| 26.628                              | 26.623 4-CHLOROTOLUENE      | 0.0998             | 300          | 40             |
| 27.715                              | 27.709 1,3-DICHLOROBENZENE  | 0.1218             | 319          | 71             |
| 27.826                              | 27.824 1,4-DICHLOROBENZENE  | 0.1468             | 703          | 91             |
| 28.434                              | 28.435 1,2-DICHLOROBENZENE  | 0.1114             | 354          | 63             |
| 29.320                              | 29.320 1,2-DIBROMO-3-CHLORO | 0.0000             | 0            | 0              |
| 30.115                              | 30.121 SURR-1B4CB-H         | 277.6582           | 511056       | 95173          |
| 32.577                              | 32.581 1,2,4-TRICHLOROBENZE | 0.4781             | 3849         | 192            |
| 33.541                              | 33.546 HEXACHLOROBUTADIENE  | 0.3739             | 2047         | 177            |
| 33.969                              | 33.972 1,2,3-TRICHLOROBENZE | 0.2563             | 886          | 88             |
| TOTAL 1,2-DICHLOROETHENE:           |                             | 0.5628             |              |                |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 92.5527%

Chrom Perfect version 6.07

Reported on 01-02-2002at 08:48:46

Sample name: 3749354

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365.51R

Reviewed by: MM49

Verified by: MM49

Date: 01/02/02

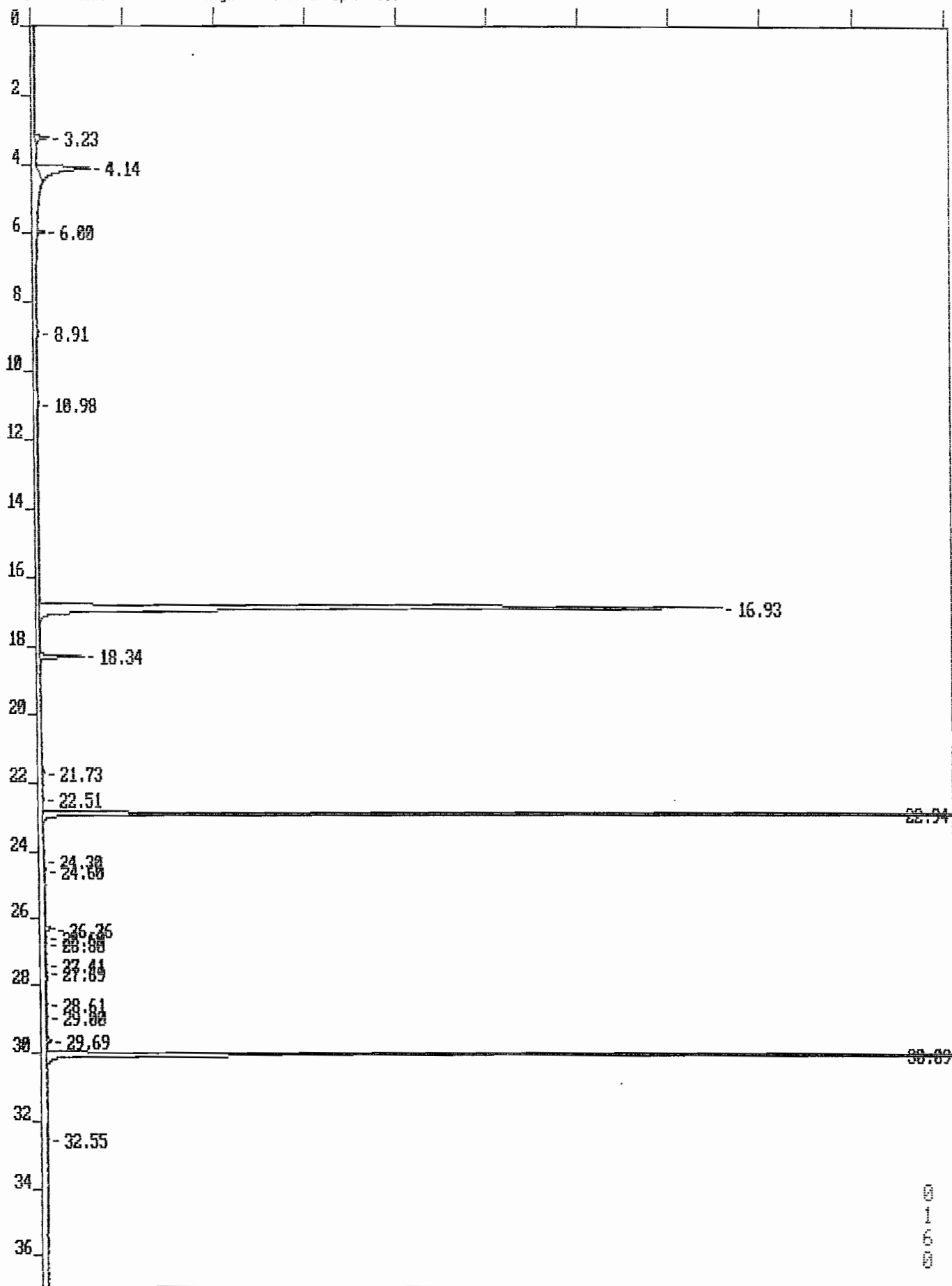
Date: 01/02/02

File=C:\CP\DATA1\183658.51R Date printed=01-02-2002 Time= 08:48:57

Sample Name=3749354

01365A181127,8404

0.0 to 37.0 min. Low Y=0.009 High Y=15.009 mv Span=15.0



Sample Name: 3749354

Batch: 01365A18

Date Taken: Jan 2, 2002 08:47:52

Raw File: C:\CP\DATA1\18365B.51R

Area File: C:\CP\DATA1\18365B.51A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 10 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 14):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.297    | 4.297    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 6.735    | 6.735    | 1,1-DICHLOROETHENE   | 0.0000   | 0      | 0      |
| 8.553    | 8.553    | TRANS-1,2-DICHLOROET | 0.0000   | 0      | 0      |
| 8.913    | 8.939    | METHYL T-BUTYL ETHER | 1.1368   | 196    | 32     |
| 10.977   | 10.990   | CIS-1,2-DICHLOROETHE | 0.6968   | 179    | 27     |
| 15.274   | 15.274   | 1,1-DICHLOROPROPENE  | 0.0000   | 0      | 0      |
| 16.011   | 16.011   | BENZENE              | 0.0000   | 0      | 0      |
| 16.927   | 16.947   | ISTD-FBENZENE        | 1.0000   | 85103  | 11242  |
| 18.336   | 18.346   | TRICHLOROETHENE      | 10.7880  | 3891   | 728    |
| 19.840   | 19.840   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.189   | 20.189   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.146   | 21.146   | TRANS-1,3-DICHLOROPR | 0.0000   | 0      | 0      |
| 21.730   | 21.733   | TOLUENE              | 0.3019   | 183    | 51     |
| 22.937   | 22.941   | TETRACHLOROETHENE    | 325.1683 | 88784  | 29161  |
| 23.991   | 23.991   | CHLOROBENZENE        | 0.0000   | 0      | 0      |
| 24.303   | 24.306   | ETHYLBENZENE         | 0.1335   | 139    | 25     |
| 24.596   | 24.598   | M,P-XYLENE           | 0.1817   | 114    | 34     |
| 25.063   | 25.063   | STYRENE              | 0.0000   | 0      | 0      |
| 25.166   | 25.166   | O-XYLENE             | 0.0000   | 0      | 0      |
| 25.709   | 25.709   | ISOPROPYLBENZENE     | 0.0000   | 0      | 0      |
| 26.027   | 26.027   | BROMOBENZENE         | 0.0000   | 0      | 0      |
| 26.356   | 26.356   | N-PROPYLBENZENE      | 0.9732   | 718    | 159    |
| 26.479   | 26.479   | 2-CHLOROTOLUENE      | 0.0000   | 0      | 0      |
| 26.599   | 26.598   | 4-CHLOROTOLUENE      | 0.1536   | 149    | 29     |
| 26.804   | 26.803   | 1,3,5-TRIMETHYLBENZE | 0.1372   | 124    | 32     |
| 27.227   | 27.227   | TERT-BUTYLBENZENE    | 0.0000   | 0      | 0      |
| 27.405   | 27.409   | 1,2,4-TRIMETHYLBENZE | 0.1771   | 126    | 30     |
| 27.577   | 27.577   | SEC-BUTYLBENZENE     | 0.0000   | 0      | 0      |
| 27.686   | 27.683   | 1,3-DICHLOROBENZENE  | 0.1995   | 109    | 34     |
| 27.799   | 27.799   | 1,4-DICHLOROBENZENE  | 0.0000   | 0      | 0      |
| 27.884   | 27.884   | P-ISOPROPYLTOLUENE   | 0.0000   | 0      | 0      |
| 28.409   | 28.409   | 1,2-DICHLOROBENZENE  | 0.0000   | 0      | 0      |
| 28.608   | 28.597   | N-BUTYLBENZENE       | 0.2915   | 143    | 34     |
| 30.087   | 30.094   | SURR-1B4CB-P         | 262.1289 | 138268 | 36654  |
| 32.553   | 32.553   | 1,2,4-TRICHLOROBENZE | 0.4671   | 145    | 26     |
| 33.299   | 33.299   | NAPHTHALENE          | 0.0000   | 0      | 0      |
| 33.517   | 33.517   | HEXACHLOROBUTADIENE  | 0.0000   | 0      | 0      |
| 33.943   | 33.943   | 1,2,3-TRICHLOROBENZE | 0.0000   | 0      | 0      |

XYLENES (Total): 0.1817

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 87.3763%

Chrom Perfect version 6.07

Reported on 01-02-2002at 08:50:19

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.



Sample name: 3749354

Batch: 01365A181127,840

Raw file: C:\CP\DATA1\18365B.51R

Reviewed by: MMK

Verified by: MMK

Date: 01/02/02

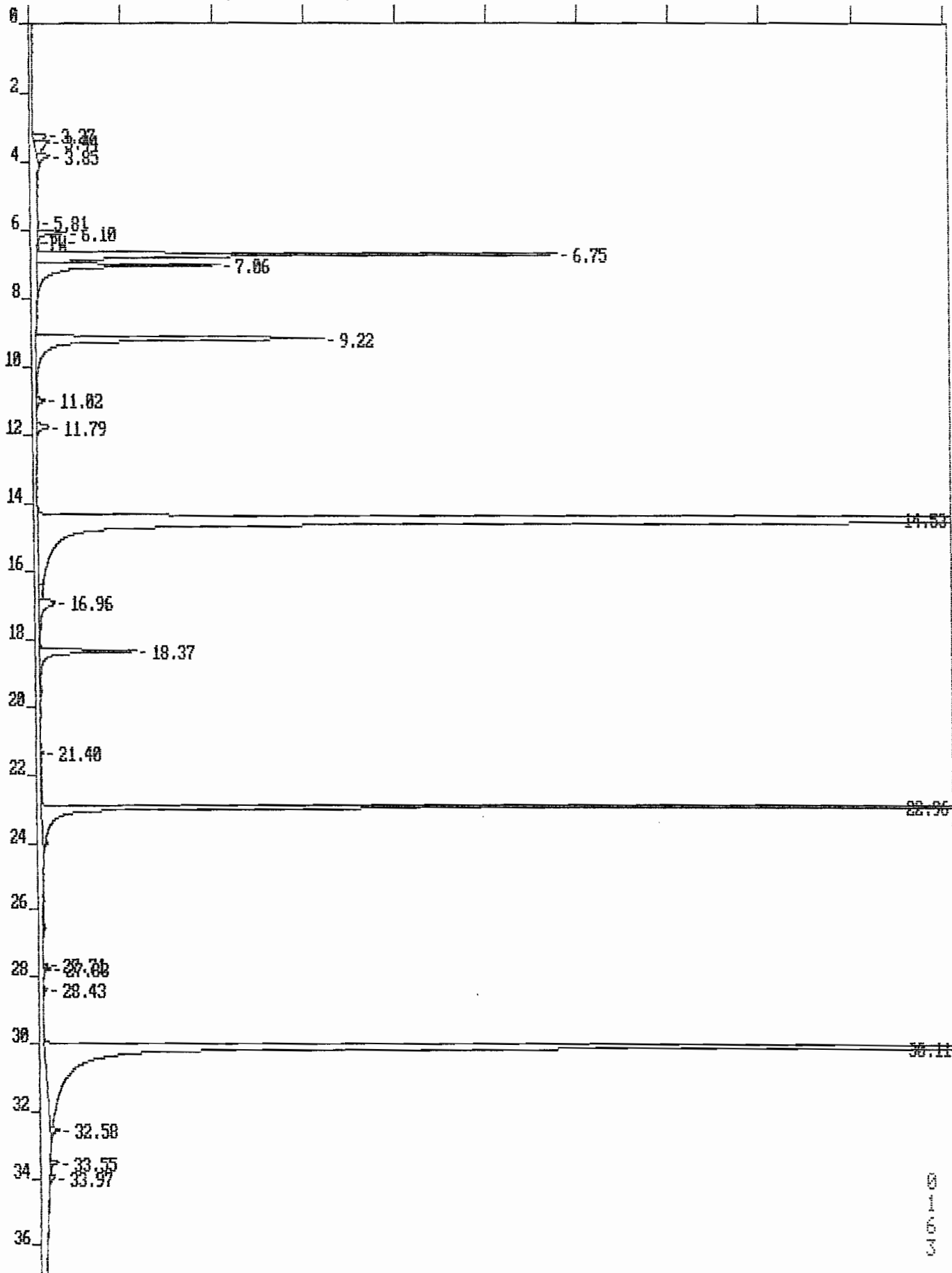
Date: 01/02/02

File=C:\CP\DATA1\18365.49R Date printed=01-02-2002 Time= 07:21:42

Sample Name=3749355

01365A181127,8404

0.0 to 37.0 min. Low Y=-0.011 High Y=14.989 mv Span=15.0



Sample Name: 3749355

Batch: 01365A18

Date Taken: Jan 2, 2002 07:21:37

Raw File: C:\CP\DATA1\18365.49R

Area File: C:\CP\DATA1\18365.49A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SQ/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 14):

| Ret Time | Expected |                           | Amount * | Peak   | Peak   |
|----------|----------|---------------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name                 | (ug/L)   | Area   | Height |
| 3.847    | 3.802    | DICHLORODIFLUOROMETH      | 0.1000   | 1550   | 203    |
| 3.998    | 3.998    | CHLOROMETHANE             | 0.0000   | 0      | 0      |
| 4.325    | 4.325    | VINYL CHLORIDE            | 0.0000   | 0      | 0      |
| 4.781    | 4.781    | BROMOMETHANE              | 0.0000   | 0      | 0      |
| 4.977    | 4.977    | CHLOROETHANE              | 0.0000   | 0      | 0      |
| 5.810    | 5.837    | TRICHLOROFLUOROMETHA      | 0.0077   | 201    | 20     |
| 6.749    | 6.764    | 1,1-DICHLOROETHENE        | 1.8424   | 57855  | 8529   |
| 7.056    | 7.071    | METHYLENE CHLORIDE        | 0.3597   | 26198  | 2984   |
| 7.251    | 7.251    | TRICHLOROTRIFLUOROET      | 0.0000   | 0      | 0      |
| 8.581    | 8.581    | TRANS-1,2-DICHLOROET      | 0.0000   | 0      | 0      |
| 9.222    | 9.232    | 1,1-DICHLOROETHANE        | 0.8788   | 43873  | 4703   |
| 11.017   | 11.020   | CIS-1,2-DICHLOROETHE      | 0.0274   | 1407   | 139    |
| 11.539   | 11.539   | BROMOCHLOROMETHANE        | 0.0000   | 0      | 0      |
| 11.786   | 11.795   | CHLOROFORM                | 0.0335   | 2315   | 205    |
| 12.041   | 12.041   | 2,2-DICHLOROPROPANE       | 0.0000   | 0      | 0      |
| 14.223   | 14.223   | 1,2-DICHLOROETHANE        | 0.0000   | 0      | 0      |
| 14.529   | 14.540   | 1,1,1-TRICHLOROETHAN      | 8.4228   | 446127 | 41848  |
| 15.304   | 15.304   | 1,1-DICHLOROPROPENE       | 0.0000   | 0      | 0      |
| 15.826   | 15.826   | CARBON TETRACHLORIDE      | 0.0000   | 0      | 0      |
| 18.045   | 18.045   | DIBROMOMETHANE            | 0.0000   | 0      | 0      |
| 18.218   | 18.218   | 1,2-DICHLOROPROPANE       | 0.0000   | 0      | 0      |
| 18.372   | 18.374   | TRICHLOROETHENE           | 0.1971   | 11986  | 1575   |
| 18.482   | 18.482   | BROMODICHLOROMETHANE      | 0.0000   | 0      | 0      |
| 19.868   | 19.868   | 2-CHLOROETHYL VINYL       | 0.0000   | 0      | 0      |
| 20.215   | 20.215   | CIS-1,3-DICHLOROPROP      | 0.0000   | 0      | 0      |
| 21.172   | 21.172   | TRANS-1,3-DICHLOROPR      | 0.0000   | 0      | 0      |
| 21.398   | 21.401   | 1,1,2-TRICHLOROETHAN      | 0.0062   | 338    | 52     |
| 21.863   | 21.863   | 1,3-DICHLOROPROPANE       | 0.0000   | 0      | 0      |
| 22.247   | 22.247   | DIBROMOCHLOROMETHANE      | 0.0000   | 0      | 0      |
| 22.641   | 22.641   | 1,2-DIBROMOETHANE         | 0.0000   | 0      | 0      |
| 22.964   | 22.967   | TETRACHLOROETHENE         | 1.6937   | 88762  | 18823  |
| 23.917   | 23.917   | 1,1,1,2-TETRACHLOROE      | 0.0000   | 0      | 0      |
| 24.014   | 24.014   | CHLOROBENZENE             | 0.0000   | 0      | 0      |
| 24.694   | 24.694   | BROMOFORM                 | 0.0000   | 0      | 0      |
| 25.184   | 25.184   | 1,1,2,2-TETRACHLOROE      | 0.0000   | 0      | 0      |
| 25.388   | 25.388   | 1,2,3-TRICHLOROPROPA      | 0.0000   | 0      | 0      |
| 26.054   | 26.054   | BROMOBENZENE              | 0.0000   | 0      | 0      |
| 26.504   | 26.504   | 2-CHLOROTOLUENE           | 0.0000   | 0      | 0      |
| 26.623   | 26.623   | 4-CHLOROTOLUENE           | 0.0000   | 0      | 0      |
| 27.713   | 27.709   | 1,3-DICHLOROBENZENE       | 0.0122   | 302    | 71     |
| 27.827   | 27.824   | 1,4-DICHLOROBENZENE       | 0.0192   | 597    | 119    |
| 28.434   | 28.435   | 1,2-DICHLOROBENZENE       | 0.0118   | 313    | 67     |
| 29.320   | 29.320   | 1,2-DIBROMO-3-CHLORO      | 0.0000   | 0      | 0      |
| 30.115   | 30.121   | SURR-1B4CB-H              | 27.4181  | 502137 | 93981  |
| 32.581   | 32.581   | 1,2,4-TRICHLOROBENZE      | 0.0356   | 1443   | 143    |
| 33.546   | 33.546   | HEXACHLOROBUTADIENE       | 0.0314   | 1327   | 149    |
| 33.969   | 33.972   | 1,2,3-TRICHLOROBENZE      | 0.0258   | 781    | 88     |
|          |          | TOTAL 1,2-DICHLOROETHENE: | 0.0274   |        |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 91.3935%

Chrom Perfect version 6.07

Reported on 01-02-2002at 07:22:31

Sample name: 3749355

Batch: 01365A181127,840

Raw file: C:\CP\DATA1\18365.49R

Reviewed by: mm48

Verified by: mm48

Date: 01/02/02

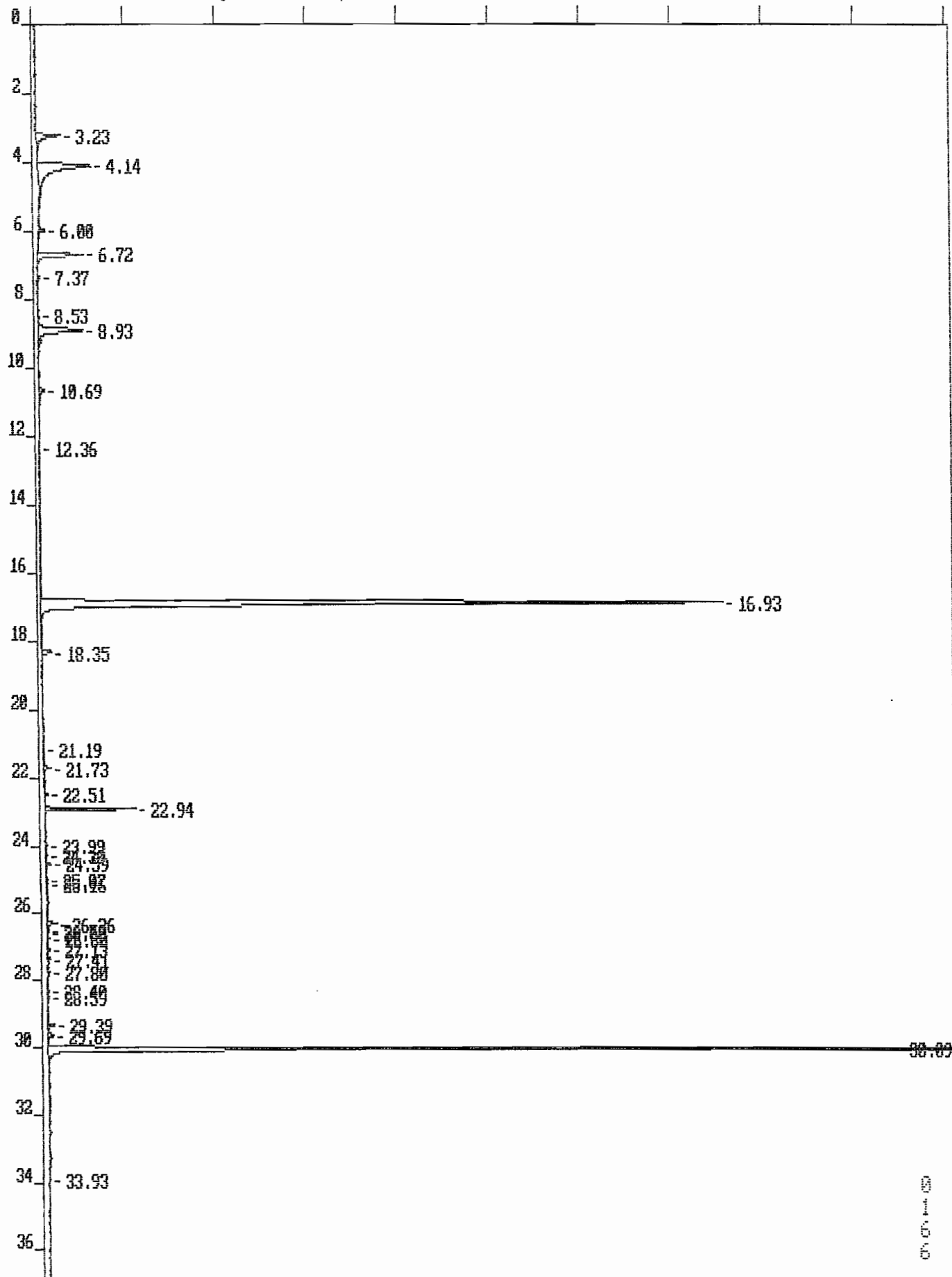
Date: 01/02/00

File=C:\CP\DATA1\18365B.49R Date printed=01-02-2002 Time= 07:22:41

Sample Name=3749355

01365A181127,8404

0.0 to 37.0 min. Low Y=0.004 High Y=15.004 mv Span=15.0



Sample Name: 3749355

Batch: 01365A18

Date Taken: Jan 2, 2002 07:21:37

Raw File: C:\CP\DATA1\18365B.49R

Area File: C:\CP\DATA1\18365B.49A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 14):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.297    | 4.297    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 6.717    | 6.735    | 1,1-DICHLOROETHENE   | 1.8520   | 4152   | 753    |
| 8.530    | 8.553    | TRANS-1,2-DICHLOROET | 0.0218   | 103    | 21     |
| 8.929    | 8.939    | METHYL T-BUTYL ETHER | 2.6742   | 6789   | 745    |
| 10.990   | 10.990   | CIS-1,2-DICHLOROETHE | 0.0000   | 0      | 0      |
| 15.274   | 15.274   | 1,1-DICHLOROPROPENE  | 0.0000   | 0      | 0      |
| 16.011   | 16.011   | BENZENE              | 0.0000   | 0      | 0      |
| 16.932   | 16.947   | ISTD-FBENZENE        | 1.0000   | 84871  | 11205  |
| 18.348   | 18.346   | TRICHLOROETHENE      | 0.2420   | 885    | 163    |
| 19.840   | 19.840   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.189   | 20.189   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.190   | 21.146   | TRANS-1,3-DICHLOROPR | 0.0296   | 108    | 18     |
| 21.730   | 21.733   | TOLUENE              | 0.0664   | 429    | 112    |
| 22.937   | 22.941   | TETRACHLOROETHENE    | 1.6792   | 4712   | 1501   |
| 23.987   | 23.991   | CHLOROBENZENE        | 0.0141   | 102    | 32     |
| 24.304   | 24.306   | ETHYLBENZENE         | 0.0139   | 122    | 26     |
| 24.591   | 24.598   | M,P-XYLENE           | 0.0486   | 341    | 90     |
| 25.066   | 25.063   | STYRENE              | 0.0153   | 171    | 36     |
| 25.164   | 25.166   | O-XYLENE             | 0.0210   | 151    | 38     |
| 25.709   | 25.709   | ISOPROPYLBENZENE     | 0.0000   | 0      | 0      |
| 26.027   | 26.027   | BROMOBENZENE         | 0.0000   | 0      | 0      |
| 26.356   | 26.356   | N-PROPYLBENZENE      | 0.1123   | 720    | 182    |
| 26.532   | 26.479   | 2-CHLOROTOLUENE      | 0.0208   | 188    | 37     |
| 26.604   | 26.598   | 4-CHLOROTOLUENE      | 0.0222   | 204    | 42     |
| 26.796   | 26.803   | 1,3,5-TRIMETHYLBENZE | 0.0207   | 149    | 47     |
| 27.227   | 27.227   | TERT-BUTYLBENZENE    | 0.0000   | 0      | 0      |
| 27.409   | 27.409   | 1,2,4-TRIMETHYLBENZE | 0.0340   | 151    | 58     |
| 27.577   | 27.577   | SEC-BUTYLBENZENE     | 0.0000   | 0      | 0      |
| 27.683   | 27.683   | 1,3-DICHLOROBENZENE  | 0.0000   | 0      | 0      |
| 27.799   | 27.799   | 1,4-DICHLOROBENZENE  | 0.0236   | 103    | 40     |
| 27.884   | 27.884   | P-ISOPROPYLTOLUENE   | 0.0000   | 0      | 0      |
| 28.402   | 28.409   | 1,2-DICHLOROBENZENE  | 0.0256   | 157    | 32     |
| 28.590   | 28.597   | N-BUTYLBENZENE       | 0.0325   | 157    | 37     |
| 30.087   | 30.094   | SURR-1B4CB-P         | 26.7955  | 141249 | 37347  |
| 32.553   | 32.553   | 1,2,4-TRICHLOROBENZE | 0.0000   | 0      | 0      |
| 33.299   | 33.299   | NAPHTHALENE          | 0.0000   | 0      | 0      |
| 33.517   | 33.517   | HEXACHLOROBUTADIENE  | 0.0000   | 0      | 0      |
| 33.929   | 33.943   | 1,2,3-TRICHLOROBENZE | 0.0425   | 129    | 19     |

XYLENES (Total): 0.0696

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 89.3185%

Chrom Perfect version 6.07

Reported on 01-02-2002at 07:24:03

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: 3749355

Batch: 01365A181127,840

Raw file:

C:\CP\DATA1\18365B.49R

Reviewed by: MM484

Verified by: vmm48

Date: 01/02/02

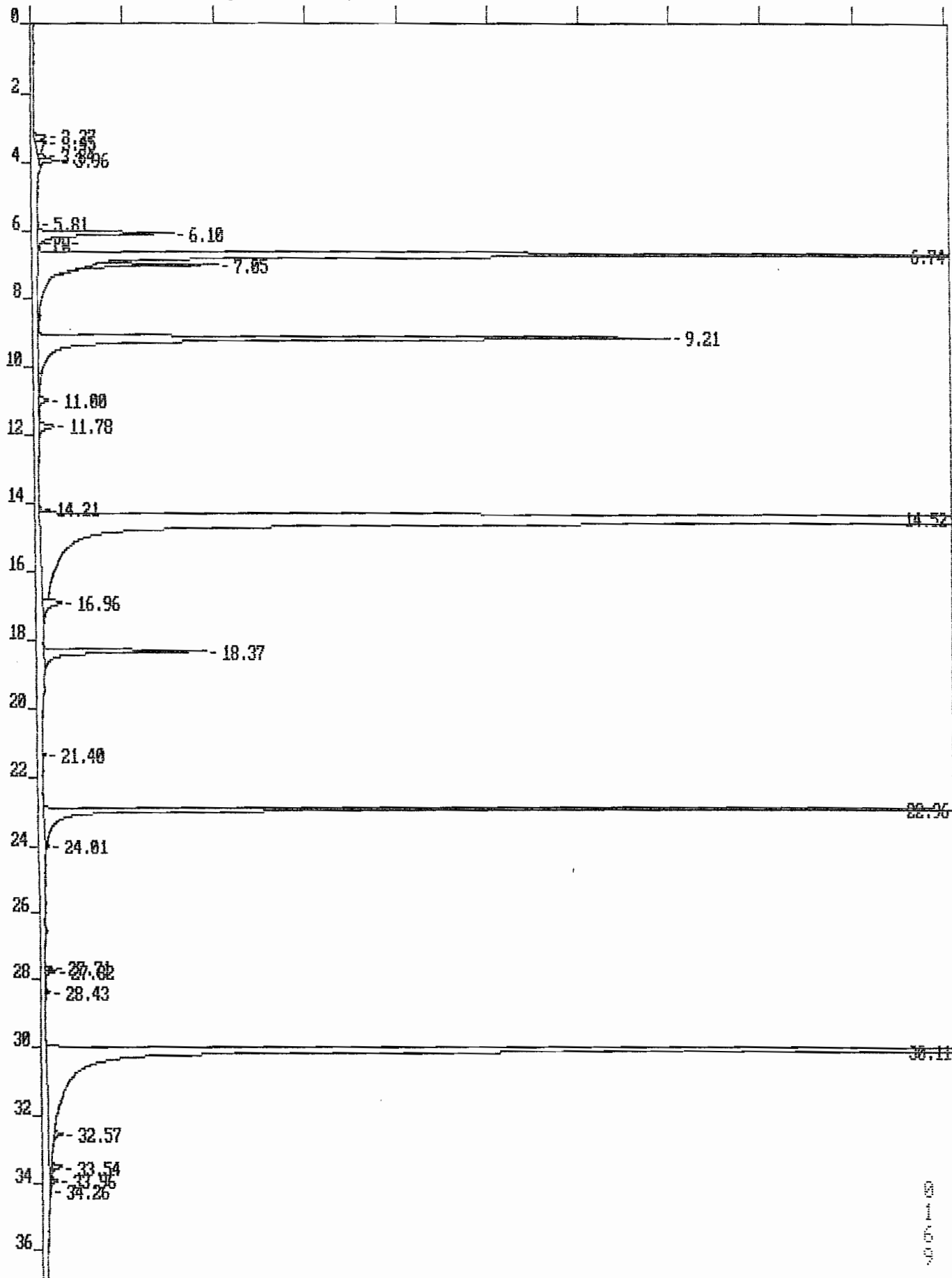
Date: 01/02/02

File:C:\CP\DATA1\18365.50R Date printed=01-02-2002 Time= 08:04:45

Sample Name=3749356

01365A181127,8404

0.0 to 37.0 min. Low Y=-0.008 High Y=14.992 mv Span=15.0





Sample Name: 3749356

Batch: 01365A18

Date Taken: Jan 2, 2002 08:04:40

Raw File: C:\CP\DATA1\18365.50R

Area File: C:\CP\DATA1\18365.50A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 14):

| Ret Time | Expected |                      | Amount * | Peak    | Peak   |
|----------|----------|----------------------|----------|---------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area    | Height |
| 3.839    | 3.802    | DICHLORODIFLUOROMETH | 0.0619   | 761     | 125    |
| 3.964    | 3.998    | CHLOROMETHANE        | 0.1559   | 1991    | 348    |
| 4.325    | 4.325    | VINYL CHLORIDE       | 0.0000   | 0       | 0      |
| 4.781    | 4.781    | BROMOMETHANE         | 0.0000   | 0       | 0      |
| 4.977    | 4.977    | CHLOROETHANE         | 0.0000   | 0       | 0      |
| 5.811    | 5.837    | TRICHLOROFLUOROMETHA | 0.0100   | 236     | 25     |
| 6.742    | 6.764    | 1,1-DICHLOROETHENE   | 5.2512   | 181943  | 24310  |
| 7.050    | 7.071    | METHYLENE CHLORIDE   | 0.2559   | 11313   | 2123   |
| 7.251    | 7.251    | TRICHLOROTRIFLUOROET | 0.0000   | 0       | 0      |
| 8.581    | 8.581    | TRANS-1,2-DICHLOROET | 0.0000   | 0       | 0      |
| 9.212    | 9.232    | 1,1-DICHLOROETHANE   | 1.9367   | 92395   | 10364  |
| 10.997   | 11.020   | CIS-1,2-DICHLOROETHE | 0.0308   | 1809    | 156    |
| 11.539   | 11.539   | BROMOCHLOROMETHANE   | 0.0000   | 0       | 0      |
| 11.779   | 11.795   | CHLOROFORM           | 0.0407   | 2773    | 249    |
| 12.041   | 12.041   | 2,2-DICHLOROPROPANE  | 0.0000   | 0       | 0      |
| 14.208   | 14.223   | 1,2-DICHLOROETHANE   | 0.0071   | 216     | 34     |
| 14.521   | 14.540   | 1,1,1-TRICHLOROETHAN | 20.6507  | 1079212 | 102602 |
| 15.304   | 15.304   | 1,1-DICHLOROPROPENE  | 0.0000   | 0       | 0      |
| 15.826   | 15.826   | CARBON TETRACHLORIDE | 0.0000   | 0       | 0      |
| 18.045   | 18.045   | DIBROMOMETHANE       | 0.0000   | 0       | 0      |
| 18.218   | 18.218   | 1,2-DICHLOROPROPANE  | 0.0000   | 0       | 0      |
| 18.365   | 18.374   | TRICHLOROETHENE      | 0.3318   | 18996   | 2652   |
| 18.482   | 18.482   | BROMODICHLOROMETHANE | 0.0000   | 0       | 0      |
| 19.868   | 19.868   | 2-CHLOROETHYL VINYL  | 0.0000   | 0       | 0      |
| 20.215   | 20.215   | CIS-1,3-DICHLOROPROP | 0.0000   | 0       | 0      |
| 21.172   | 21.172   | TRANS-1,3-DICHLOROPR | 0.0000   | 0       | 0      |
| 21.396   | 21.401   | 1,1,2-TRICHLOROETHAN | 0.0067   | 287     | 56     |
| 21.863   | 21.863   | 1,3-DICHLOROPROPANE  | 0.0000   | 0       | 0      |
| 22.247   | 22.247   | DIBROMOCHLOROMETHANE | 0.0000   | 0       | 0      |
| 22.641   | 22.641   | 1,2-DIBROMOETHANE    | 0.0000   | 0       | 0      |
| 22.959   | 22.967   | TETRACHLOROETHENE    | 1.3744   | 72770   | 15275  |
| 23.917   | 23.917   | 1,1,1,2-TETRACHLOROE | 0.0000   | 0       | 0      |
| 24.010   | 24.014   | CHLOROBENZENE        | 0.0093   | 267     | 51     |
| 24.694   | 24.694   | BROMOFORM            | 0.0000   | 0       | 0      |
| 25.184   | 25.184   | 1,1,2,2-TETRACHLOROE | 0.0000   | 0       | 0      |
| 25.388   | 25.388   | 1,2,3-TRICHLOROPROPA | 0.0000   | 0       | 0      |
| 26.054   | 26.054   | BROMOBENZENE         | 0.0000   | 0       | 0      |
| 26.504   | 26.504   | 2-CHLOROTOLUENE      | 0.0000   | 0       | 0      |
| 26.623   | 26.623   | 4-CHLOROTOLUENE      | 0.0000   | 0       | 0      |
| 27.706   | 27.709   | 1,3-DICHLOROBENZENE  | 0.0189   | 474     | 111    |
| 27.820   | 27.824   | 1,4-DICHLOROBENZENE  | 0.0262   | 979     | 163    |
| 28.432   | 28.435   | 1,2-DICHLOROBENZENE  | 0.0161   | 467     | 91     |
| 29.320   | 29.320   | 1,2-DIBROMO-3-CHLORO | 0.0000   | 0       | 0      |
| 30.110   | 30.121   | SURR-1B4CB-H         | 27.6013  | 516089  | 94609  |
| 32.570   | 32.581   | 1,2,4-TRICHLOROBENZE | 0.0342   | 1191    | 138    |
| 33.536   | 33.546   | HEXACHLOROBIUTADIENE | 0.0364   | 1465    | 173    |
| 33.960   | 33.972   | 1,2,3-TRICHLOROBENZE | 0.0310   | 969     | 106    |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 92.0043%

Chrom Perfect version 6.07

Reported on 01-02-2002at 08:05:35

170

Sample name: 3749356

Batch: 01363A181127,840

Raw file:

C:\CP\DATA1\18365.50R

Reviewed by: mm49

Verified by: mm49

Date: 01/02/02

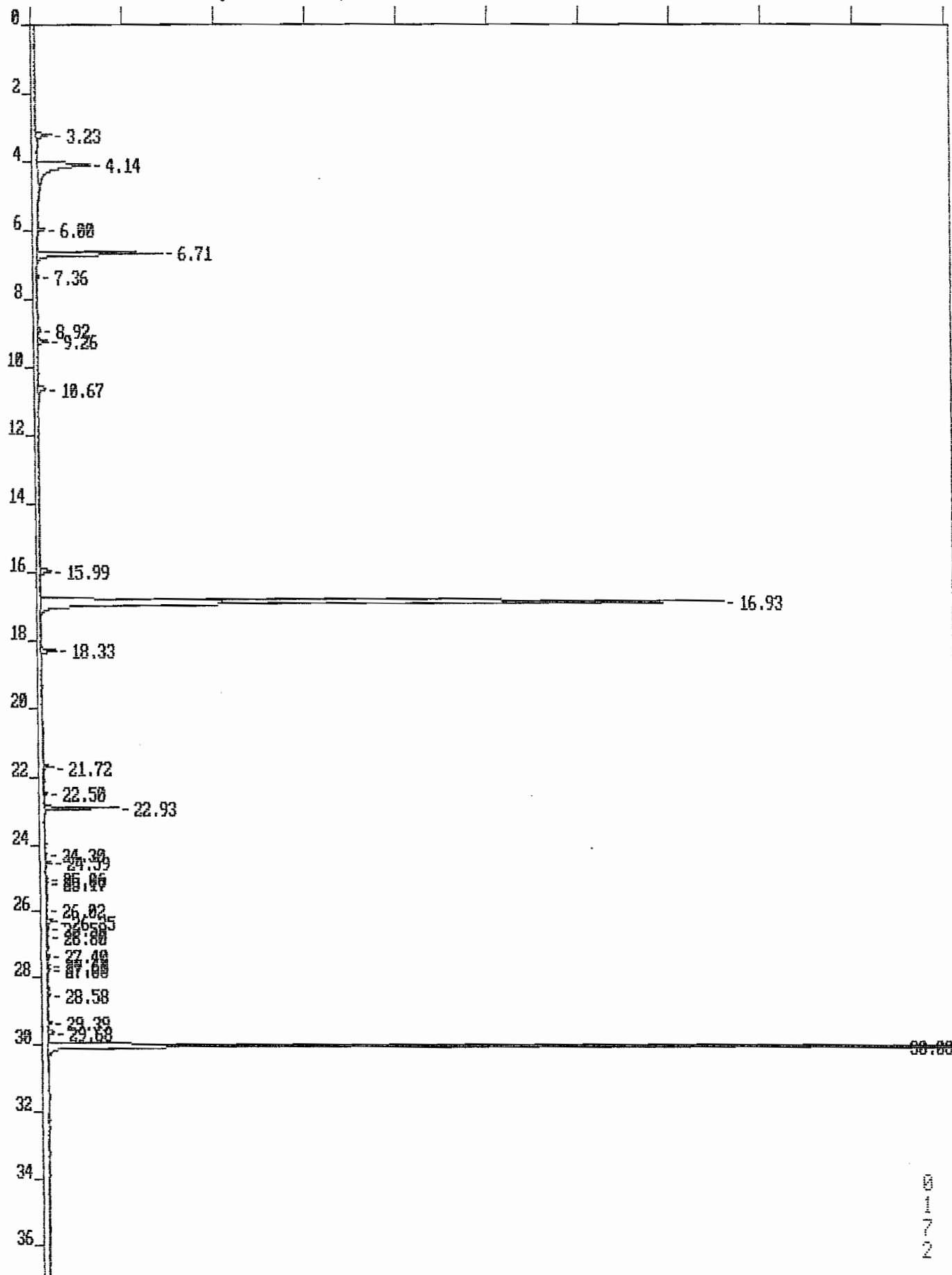
Date: 01/02/02

File=C:\CP\DATA1\183658.50R Date printed=01-02-2002 Time= 08:05:45

Sample Name=3749356

01365A181127,8404

0.0 to 37.0 min. Low Y=0.005 High Y=15.005 mv Span=15.0



Sample Name: 3749356

Batch: 01365A18

Date Taken: Jan 2, 2002 08:04:40

Raw File: C:\CP\DATA1\18365B.50R

Area File: C:\CP\DATA1\18365B.50A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 14):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.297    | 4.297    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 6.713    | 6.735    | 1,1-DICHLOROETHENE   | 5.0778   | 11123  | 2065   |
| 8.553    | 8.553    | TRANS-1,2-DICHLOROET | 0.0000   | 0      | 0      |
| 8.918    | 8.939    | METHYL T-BUTYL ETHER | 0.1907   | 378    | 53     |
| 10.990   | 10.990   | CIS-1,2-DICHLOROETHE | 0.0000   | 0      | 0      |
| 15.274   | 15.274   | 1,1-DICHLOROPROPENE  | 0.0000   | 0      | 0      |
| 15.988   | 16.011   | BENZENE              | 0.2199   | 1303   | 183    |
| 16.927   | 16.947   | ISTD-FBENZENE        | 1.0000   | 84580  | 11206  |
| 18.334   | 18.346   | TRICHLOROETHENE      | 0.3828   | 1528   | 258    |
| 19.840   | 19.840   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.189   | 20.189   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.146   | 21.146   | TRANS-1,3-DICHLOROPR | 0.0000   | 0      | 0      |
| 21.724   | 21.733   | TOLUENE              | 0.0969   | 536    | 163    |
| 22.932   | 22.941   | TETRACHLOROETHENE    | 1.3550   | 3751   | 1211   |
| 23.991   | 23.991   | CHLOROBENZENE        | 0.0000   | 0      | 0      |
| 24.297   | 24.306   | ETHYLBENZENE         | 0.0234   | 177    | 43     |
| 24.588   | 24.598   | M,P-XYLENE           | 0.0588   | 385    | 109    |
| 25.060   | 25.063   | STYRENE              | 0.0139   | 144    | 33     |
| 25.166   | 25.166   | O-XYLENE             | 0.0242   | 161    | 44     |
| 25.709   | 25.709   | ISOPROPYLBENZENE     | 0.0000   | 0      | 0      |
| 26.018   | 26.027   | BROMOBENZENE         | 0.0129   | 117    | 27     |
| 26.350   | 26.356   | N-PROPYLBENZENE      | 0.1102   | 736    | 179    |
| 26.479   | 26.479   | 2-CHLOROTOLUENE      | 0.0000   | 0      | 0      |
| 26.590   | 26.598   | 4-CHLOROTOLUENE      | 0.0190   | 139    | 36     |
| 26.796   | 26.803   | 1,3,5-TRIMETHYLBENZE | 0.0166   | 111    | 38     |
| 27.227   | 27.227   | TERT-BUTYLBENZENE    | 0.0000   | 0      | 0      |
| 27.401   | 27.409   | 1,2,4-TRIMETHYLBENZE | 0.0337   | 317    | 58     |
| 27.577   | 27.577   | SEC-BUTYLBENZENE     | 0.0000   | 0      | 0      |
| 27.684   | 27.683   | 1,3-DICHLOROBENZENE  | 0.0279   | 134    | 47     |
| 27.796   | 27.799   | 1,4-DICHLOROBENZENE  | 0.0270   | 116    | 46     |
| 27.884   | 27.884   | P-ISOPROPYLTOLUENE   | 0.0000   | 0      | 0      |
| 28.409   | 28.409   | 1,2-DICHLOROBENZENE  | 0.0000   | 0      | 0      |
| 28.577   | 28.597   | N-BUTYLBENZENE       | 0.0333   | 194    | 38     |
| 30.081   | 30.094   | SURR-1B4CB-P         | 26.8317  | 141284 | 37399  |
| 32.553   | 32.553   | 1,2,4-TRICHLOROBENZE | 0.0000   | 0      | 0      |
| 33.299   | 33.299   | NAPHTHALENE          | 0.0000   | 0      | 0      |
| 33.517   | 33.517   | HEXACHLOROBUTADIENE  | 0.0000   | 0      | 0      |
| 33.943   | 33.943   | 1,2,3-TRICHLOROBENZE | 0.0000   | 0      | 0      |

XYLENES (Total): 0.0831

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 89.4391%

Chrom Perfect version 6.07

Reported on 01-02-2002at 08:07:08

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: 3749356

Batch: 01365A181127,840

Raw file: C:\CP\DATA1\18365B.50R

Reviewed by: nmpr

Verified by: vmmdg

Date: 01/02/02

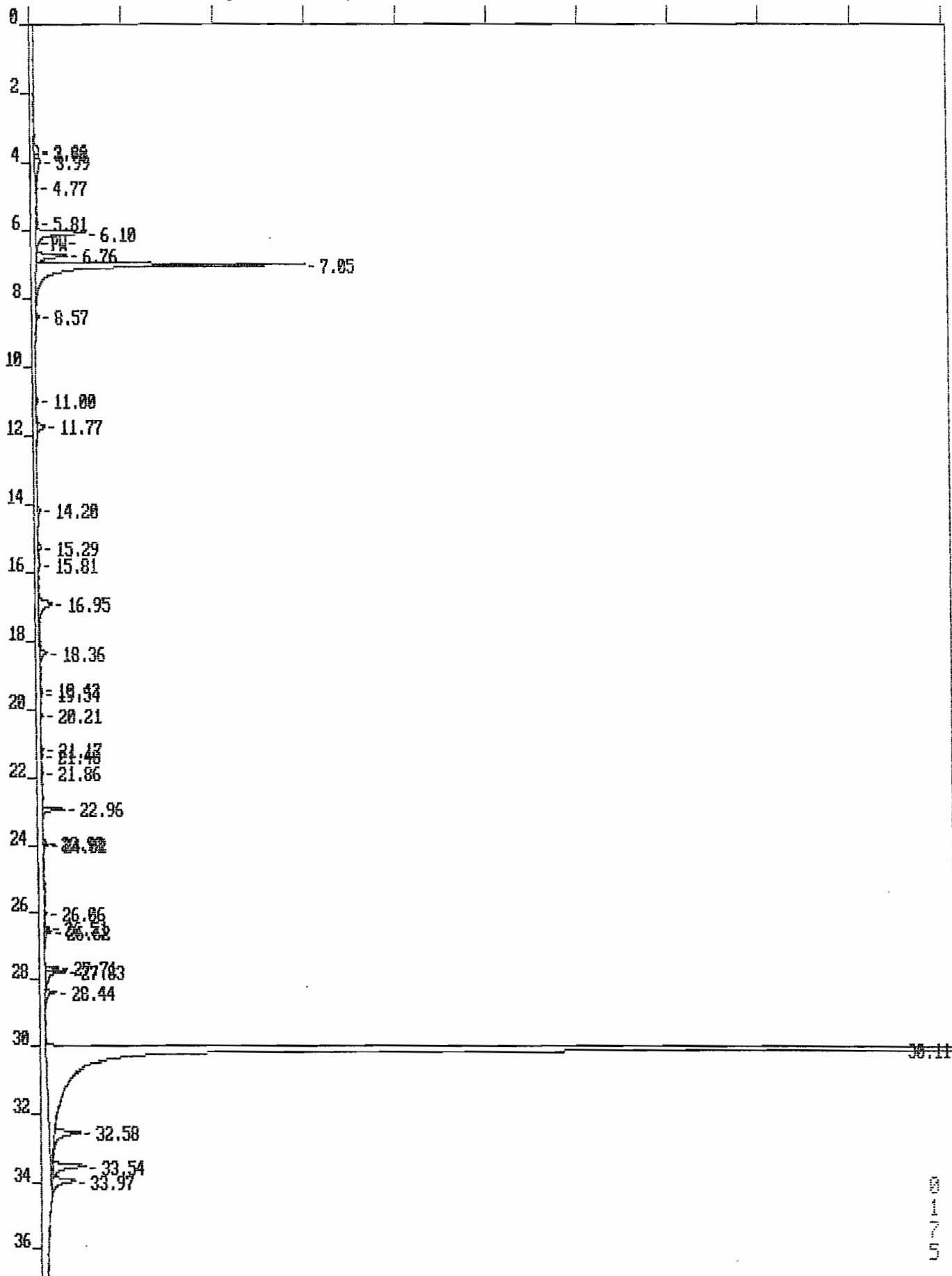
Date: 01/02/02

File=C:\CP\DATA1\18365.29R Date printed=12-31-2001 Time= 23:21:26

Sample Name=3749357

01365A181127,8404

0.0 to 37.0 min. Low Y=-0.012 High Y=14.988 mv Span=15.0



Sample Name: 3749357

Batch: 01365A18

Date Taken: Dec 31, 2001 23:21:21

Raw File: C:\CP\DATA1\18365.29R

Area File: C:\CP\DATA1\18365.29A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 12):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 3.782    | 3.793    | DICHLORODIFLUOROMETH | 0.0403   | 776    | 82     |
| 3.989    | 3.973    | CHLOROMETHANE        | 0.0496   | 2157   | 111    |
| 4.303    | 4.303    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 4.769    | 4.773    | BROMOMETHANE         | 0.0098   | 229    | 26     |
| 4.974    | 4.974    | CHLOROETHANE         | 0.0000   | 0      | 0      |
| 5.810    | 5.839    | TRICHLOROFLUOROMETHA | 0.0098   | 257    | 25     |
| 6.765    | 6.760    | 1,1-DICHLOROETHENE   | 0.1130   | 4082   | 523    |
| 7.046    | 7.070    | METHYLENE CHLORIDE   | 0.5289   | 34277  | 4388   |
| 7.254    | 7.254    | TRICHLOROTRIFLUOROET | 0.0000   | 0      | 0      |
| 8.569    | 8.588    | TRANS-1,2-DICHLOROET | 0.0083   | 447    | 52     |
| 9.238    | 9.238    | 1,1-DICHLOROETHANE   | 0.0000   | 0      | 0      |
| 11.003   | 11.030   | CIS-1,2-DICHLOROETHE | 0.0061   | 234    | 31     |
| 11.550   | 11.550   | BROMOCHLOROMETHANE   | 0.0000   | 0      | 0      |
| 11.771   | 11.807   | CHLOROFORM           | 0.0218   | 1205   | 133    |
| 12.057   | 12.057   | 2,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 14.203   | 14.235   | 1,2-DICHLOROETHANE   | 0.0102   | 402    | 49     |
| 14.554   | 14.554   | 1,1,1-TRICHLOROETHAN | 0.0000   | 0      | 0      |
| 15.290   | 15.315   | 1,1-DICHLOROPROPENE  | 0.0112   | 437    | 49     |
| 15.810   | 15.838   | CARBON TETRACHLORIDE | 0.0043   | 274    | 26     |
| 18.053   | 18.053   | DIBROMOMETHANE       | 0.0000   | 0      | 0      |
| 18.225   | 18.225   | 1,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 18.357   | 18.382   | TRICHLOROETHENE      | 0.0161   | 1181   | 128    |
| 18.489   | 18.489   | BROMODICHLOROMETHANE | 0.0000   | 0      | 0      |
| 19.873   | 19.873   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.213   | 20.220   | CIS-1,3-DICHLOROPROP | 0.0058   | 261    | 42     |
| 21.172   | 21.176   | TRANS-1,3-DICHLOROPR | 0.0072   | 285    | 50     |
| 21.399   | 21.405   | 1,1,2-TRICHLOROETHAN | 0.0043   | 213    | 36     |
| 21.860   | 21.868   | 1,3-DICHLOROPROPANE  | 0.0053   | 210    | 37     |
| 22.251   | 22.251   | DIBROMOCHLOROMETHANE | 0.0000   | 0      | 0      |
| 22.645   | 22.645   | 1,2-DIBROMOETHANE    | 0.0000   | 0      | 0      |
| 22.963   | 22.971   | TETRACHLOROETHENE    | 0.0330   | 2000   | 367    |
| 23.916   | 23.921   | 1,1,1,2-TETRACHLOROE | 0.0047   | 237    | 55     |
| 24.015   | 24.018   | CHLOROBENZENE        | 0.0156   | 388    | 86     |
| 24.700   | 24.700   | BROMOFORM            | 0.0000   | 0      | 0      |
| 25.190   | 25.190   | 1,1,2,2-TETRACHLOROE | 0.0000   | 0      | 0      |
| 25.394   | 25.394   | 1,2,3-TRICHLOROPROPA | 0.0000   | 0      | 0      |
| 26.058   | 26.060   | BROMOBENZENE         | 0.0149   | 202    | 42     |
| 26.507   | 26.510   | 2-CHLOROTOLUENE      | 0.0209   | 370    | 83     |
| 26.624   | 26.629   | 4-CHLOROTOLUENE      | 0.0285   | 778    | 115    |
| 27.710   | 27.716   | 1,3-DICHLOROBENZENE  | 0.0382   | 1015   | 224    |
| 27.825   | 27.831   | 1,4-DICHLOROBENZENE  | 0.0540   | 3044   | 337    |
| 28.436   | 28.444   | 1,2-DICHLOROBENZENE  | 0.0334   | 1995   | 189    |
| 29.331   | 29.331   | 1,2-DIBROMO-3-CHLORO | 0.0000   | 0      | 0      |
| 30.113   | 30.133   | SURR-1B4CB-H         | 28.1932  | 527017 | 96638  |
| 32.580   | 32.592   | 1,2,4-TRICHLOROBENZE | 0.1065   | 4244   | 428    |
| 33.543   | 33.557   | HEXACHLOROBUTADIENE  | 0.1150   | 5064   | 545    |
| 33.973   | 33.983   | 1,2,3-TRICHLOROBENZE | 0.1114   | 4289   | 380    |

TOTAL 1,2-DICHLOROETHENE: 0.0144

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 93.9772%

Chrom Perfect version 6.07

Reported on 12-31-2001at 23:22:16

Sample name: 3749357

Batch: 01365A181127,840

Raw file: C:\CP\DATA1\18365.29R

Reviewed by: TB us

Verified by: Imm49

Date: 1-2-02

Date: 01/02/02

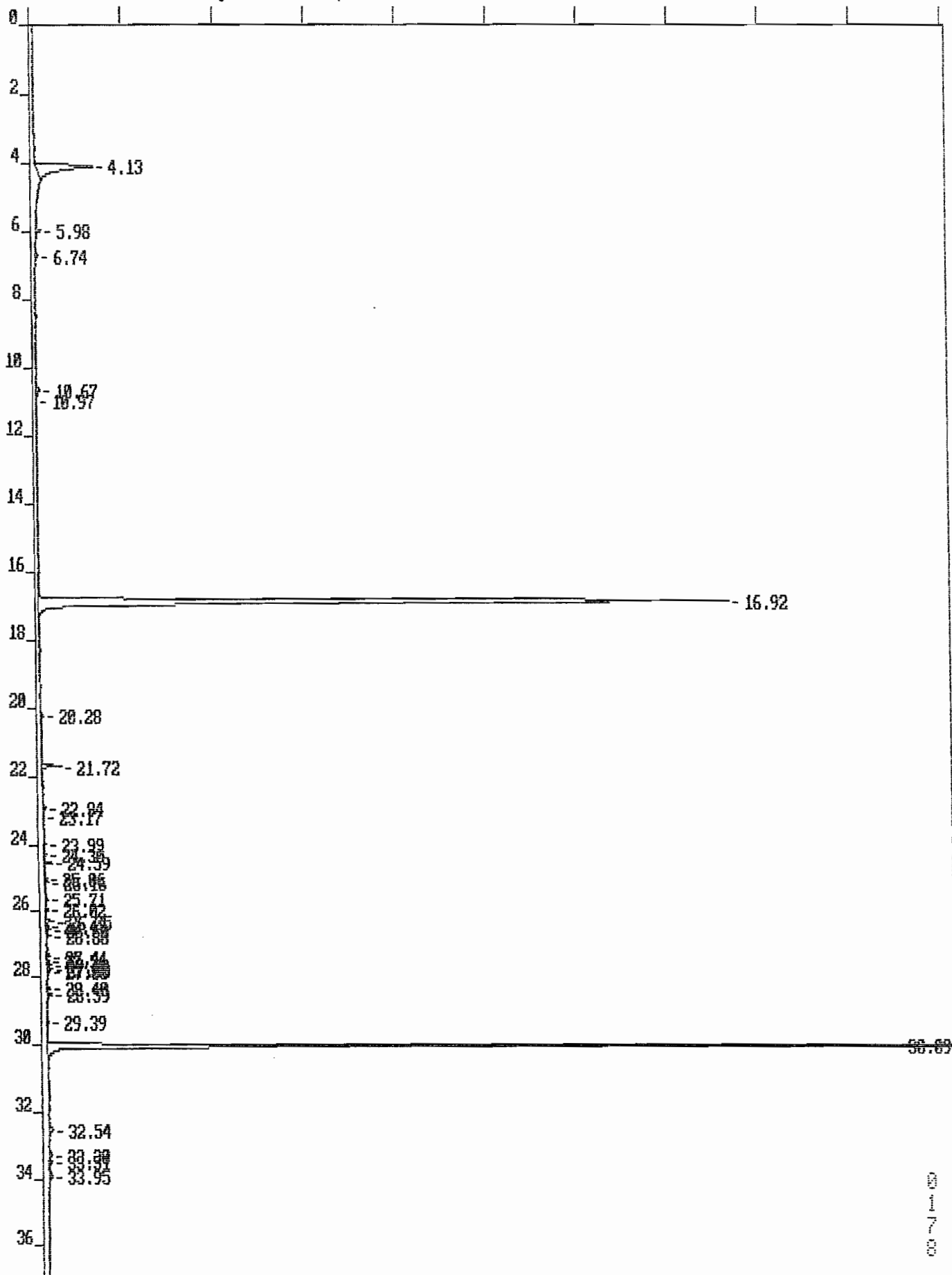


File=C:\CP\DATA1\183658.29R Date printed=12-31-2001 Time= 23:22:27

Sample Name=3749357

01365A181127,8404

0.0 to 37.0 min. Low Y=0.001 High Y=15.001 mv Span=15.0



Sample Name: 3749357

Batch: 01365A18

Date Taken: Dec 31, 2001 23:21:21

Raw File: C:\CP\DATA1\18365B.29R

Area File: C:\CP\DATA1\18365B.29A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 12):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.275    | 4.275    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 6.741    | 6.732    | 1,1-DICHLOROETHENE   | 0.1327   | 379    | 55     |
| 8.558    | 8.558    | TRANS-1,2-DICHLOROET | 0.0000   | 0      | 0      |
| 8.946    | 8.946    | METHYL T-BUTYL ETHER | 0.0000   | 0      | 0      |
| 10.974   | 11.000   | CIS-1,2-DICHLOROETHE | 0.0563   | 101    | 22     |
| 15.285   | 15.285   | 1,1-DICHLOROPROPENE  | 0.0000   | 0      | 0      |
| 16.023   | 16.023   | BENZENE              | 0.0000   | 0      | 0      |
| 16.919   | 16.958   | ISTD-FBENZENE        | 1.0000   | 85791  | 11360  |
| 18.353   | 18.353   | TRICHLOROETHENE      | 0.0000   | 0      | 0      |
| 19.845   | 19.845   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.278   | 20.194   | CIS-1,3-DICHLOROPROP | 0.1330   | 158    | 57     |
| 21.150   | 21.150   | TRANS-1,3-DICHLOROPR | 0.0000   | 0      | 0      |
| 21.724   | 21.737   | TOLUENE              | 0.1905   | 1188   | 325    |
| 22.936   | 22.945   | TETRACHLOROETHENE    | 0.0656   | 270    | 59     |
| 23.990   | 23.995   | CHLOROBENZENE        | 0.0192   | 124    | 44     |
| 24.300   | 24.310   | ETHYLBENZENE         | 0.0294   | 223    | 55     |
| 24.591   | 24.602   | M,P-XYLENE           | 0.0792   | 682    | 148    |
| 25.060   | 25.069   | STYRENE              | 0.0237   | 184    | 57     |
| 25.159   | 25.171   | O-XYLENE             | 0.0344   | 224    | 64     |
| 25.709   | 25.715   | ISOPROPYLBENZENE     | 0.0303   | 172    | 43     |
| 26.019   | 26.033   | BROMOBENZENE         | 0.0216   | 131    | 46     |
| 26.350   | 26.361   | N-PROPYLBENZENE      | 0.0767   | 486    | 126    |
| 26.470   | 26.485   | 2-CHLOROTOLUENE      | 0.0280   | 239    | 51     |
| 26.599   | 26.604   | 4-CHLOROTOLUENE      | 0.0384   | 268    | 73     |
| 26.797   | 26.809   | 1,3,5-TRIMETHYLBENZE | 0.0303   | 249    | 71     |
| 27.234   | 27.234   | TERT-BUTYLBENZENE    | 0.0000   | 0      | 0      |
| 27.406   | 27.416   | 1,2,4-TRIMETHYLBENZE | 0.0393   | 273    | 68     |
| 27.563   | 27.584   | SEC-BUTYLBENZENE     | 0.0357   | 188    | 45     |
| 27.685   | 27.691   | 1,3-DICHLOROBENZENE  | 0.0452   | 283    | 77     |
| 27.797   | 27.806   | 1,4-DICHLOROBENZENE  | 0.0542   | 313    | 93     |
| 27.877   | 27.892   | P-ISOPROPYLTOLUENE   | 0.0469   | 262    | 58     |
| 28.404   | 28.418   | 1,2-DICHLOROBENZENE  | 0.0418   | 222    | 54     |
| 28.588   | 28.605   | N-BUTYLBENZENE       | 0.0742   | 319    | 86     |
| 30.085   | 30.105   | SURR-1B4CB-P         | 26.4862  | 141771 | 37424  |
| 32.544   | 32.563   | 1,2,4-TRICHLOROBENZE | 0.1108   | 449    | 62     |
| 33.301   | 33.311   | NAPHTHALENE          | 0.0905   | 423    | 59     |
| 33.508   | 33.528   | HEXACHLOROBUTADIENE  | 0.1589   | 323    | 52     |
| 33.950   | 33.954   | 1,2,3-TRICHLOROBENZE | 0.1243   | 368    | 57     |

XYLENES (Total): 0.1136

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 88.2873%

Chrom Perfect version 6.07

Reported on 12-31-2001 at 23:23:50

Internal Standard Calculations From ISTDCHK v. 950609.1130

ISTd height for ISTD-FBENZENE is within range.

ISTd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: 3749357

Batch: 01365A181127,840

Raw file: C:\CP\DATA1\18365B.29R

Reviewed by: Bus

Verified by: mm49

Date: 1-2-02

Date: 01/02/02

## Standards Data

Quality Control Summary  
SDG# HUL03  
Instrument ID: 5843  
Initial Calibration Summary

Calibration Batch: 01365A18  
Initial Calibration Date(s): 12/31/01 (HALL)  
Initial Calibration Date(s): 12/31/01 (PID)

| Sample Information |              |                    |
|--------------------|--------------|--------------------|
| LL Sample#         | Sample Code  | Analysis Date Time |
| CHKSTD             |              | 12/31/01 13:34     |
| BLK1808            | METHOD BLANK | 12/31/01 15:15     |
| 3749345            | AWA1U        | 12/31/01 16:54     |
| 3750934MS          | AWA1U        | 12/31/01 17:54     |
| 3750935MSD         | AWA1U        | 12/31/01 18:37     |
| LCS1802            | LAB CONTROL  | 12/31/01 19:20     |
| CHKSTD             |              | 12/31/01 20:15     |
| BLK1809            | METHOD BLANK | 12/31/01 21:55     |
| 3749357            | FIELD        | 12/31/01 23:21     |
| 3749340            | AW-3U        | 01/01/02 00:04     |
| 3749341            | AW-3L        | 01/01/02 00:47     |
| 3749342            | MW-8U        | 01/01/02 01:31     |
| 3749343            | MW-8M        | 01/01/02 02:14     |
| 3749344            | MW-8L        | 01/01/02 02:58     |
| 3749346            | AWB1U        | 01/01/02 03:41     |
| 3749347            | AW-1L        | 01/01/02 04:24     |
| 3749348            | AW-2U        | 01/01/02 05:08     |
| 3749349            | AW-2L        | 01/01/02 05:51     |
| CHKSTD             |              | 01/01/02 06:34     |
| CHKSTD             |              | 01/02/02 01:19     |
| BLK1810            | METHOD BLANK | 01/02/02 02:46     |
| 3749350            | MW-9U        | 01/02/02 03:38     |
| 3749351            | MW-9L        | 01/02/02 04:21     |
| 3749352            | MW10U        | 01/02/02 05:08     |
| 3749353            | MW10L        | 01/02/02 05:51     |
| 3749352            | MW10U        | 01/02/02 06:38     |
| 3749355            | MW-5M        | 01/02/02 07:21     |
| 3749356            | MW-5L        | 01/02/02 08:04     |
| 3749354            | MW-5U        | 01/02/02 08:47     |
| CHKSTD             |              | 01/02/02 09:44     |

Quality Control Summary

SDG# HUL03

Instrument ID: 5843

Initial Calibration Summary

Calibration Batch: 01365A18

Initial Calibration Date(s): 12/31/01 (HALL)

Initial Calibration Date(s): 12/31/01 (PID)

laboratories

Lancaster, PA 17601

| STANDARD<br>DATE INJECTED<br>TIME INJECTED | LEVEL 1                        |       | LEVEL 2  |         | LEVEL 3  |         | LEVEL 4  |         | LEVEL 5  |       | LEVEL 6  |       | LEVEL 7  |       | LEVEL 8  |       | MEAN    | % RSD |
|--------------------------------------------|--------------------------------|-------|----------|---------|----------|---------|----------|---------|----------|-------|----------|-------|----------|-------|----------|-------|---------|-------|
|                                            | 12/31/01                       | 03:25 | 12/31/01 | 04:08   | 12/31/01 | 04:52   | 12/31/01 | 05:35   | 12/31/01 | 06:18 | 12/31/01 | 07:01 | 12/31/01 | 07:44 | 12/31/01 | 08:28 |         |       |
|                                            | Relative Response Factor (RRF) |       |          |         |          |         |          |         |          |       |          |       |          |       |          |       |         |       |
| COMPOUND (DETECTOR)                        | Retention Time                 |       | LEVEL 1  |         | LEVEL 2  |         | LEVEL 3  |         | LEVEL 4  |       | LEVEL 5  |       | LEVEL 6  |       | LEVEL 7  |       | LEVEL 8 |       |
| LEVEL 3 Window                             |                                |       |          |         |          |         |          |         |          |       |          |       |          |       |          |       |         |       |
| DICHLORODIFLUOROMETH (HALL)                | 3.867                          | 0.10  | 2339.34  | 2176.23 | 2119.02  | 1942.12 | 1953.18  | 1811.01 | 1829.03  |       |          |       |          |       |          |       | 2024.27 | 10    |
| CHLOROMETHANE (HALL)                       | 4.042                          | 0.10  | 3146.97  | 2800.32 | 2533.01  | 2210.57 | 1958.56  | 1580.24 | 1411.23  |       |          |       |          |       |          |       | 2234.41 | 28*   |
| VINYL CHLORIDE (HALL)                      | 4.363                          | 0.20  | 4318.64  | 4110.27 | 3913.18  | 3609.46 | 3384.60  | 2898.41 | 2668.54  |       |          |       |          |       |          |       | 3557.59 | 17    |
| BROMOMETHANE (HALL)                        | 4.835                          | 0.20  | 3052.65  | 2950.32 | 2905.84  | 2714.97 | 2549.96  | 2429.99 | 2210.44  |       |          |       |          |       |          |       | 2687.74 | 11    |
| CHLOROETHANE (HALL)                        | 5.037                          | 0.20  | 4876.12  | 4683.07 | 4535.54  | 4233.82 | 4077.04  | 3851.80 | 3572.67  |       |          |       |          |       |          |       | 4261.44 | 11    |
| TRICHLOROFUOROMETHA (HALL)                 | 5.895                          | 0.20  | 2919.53  | 2662.61 | 2824.03  | 2685.61 | 2339.53  | 2290.54 | 2150.32  |       |          |       |          |       |          |       | 2553.17 | 11    |
| 1,1-DICHLOROETHENE (HALL)                  | 6.813                          | 0.20  | 5129.45  | 4936.30 | 4966.89  | 4793.30 | 4423.51  | 4182.14 | 3973.90  |       |          |       |          |       |          |       | 4629.36 | 9     |
| METHYLENE CHLORIDE (HALL)                  | 7.121                          | 0.20  | 11309.1  | 9166.35 | 8754.83  | 8198.89 | 7475.36  | 6936.87 | 6237.90  |       |          |       |          |       |          |       | 8297.06 | 20*   |
| TRANS-1,2-DICHLOROET (HALL)                | 8.634                          | 0.20  | 6756.10  | 6716.87 | 6721.06  | 6509.96 | 6164.07  | 5690.53 | 5176.21  |       |          |       |          |       |          |       | 6247.83 | 10    |
| 1,1-DICHLOROETHANE (HALL)                  | 9.281                          | 0.20  | 5717.91  | 5786.36 | 5778.99  | 5536.01 | 5299.83  | 4889.83 | 4451.48  |       |          |       |          |       |          |       | 5351.49 | 10    |
| CIS-1,2-DICHLOROETHE (HALL)                | 11.068                         | 0.20  | 5350.32  | 5384.59 | 5444.44  | 5249.39 | 5010.98  | 4688.30 | 4296.38  |       |          |       |          |       |          |       | 5060.63 | 8     |
| CHLOROFORM (HALL)                          | 11.841                         | 0.10  | 6758.99  | 6726.33 | 6589.55  | 6328.74 | 5946.63  | 5458.60 | 5003.89  |       |          |       |          |       |          |       | 6116.10 | 11    |
| 1,2-DICHLOROETHANE (HALL)                  | 14.261                         | 0.20  | 4947.15  | 5083.32 | 5079.30  | 5067.00 | 4742.63  | 4453.45 | 4110.45  |       |          |       |          |       |          |       | 4783.33 | 8     |
| 1,1,1-TRICHLOROETHAN (HALL)                | 14.575                         | 0.20  | 5495.49  | 5366.96 | 5357.81  | 5243.62 | 4809.62  | 4439.62 | 4065.99  |       |          |       |          |       |          |       | 4968.44 | 11    |
| CARBON TETRACHLORIDE (HALL)                | 15.856                         | 0.20  | 6679.58  | 6564.10 | 6593.01  | 6389.14 | 5886.84  | 5347.39 | 4946.25  |       |          |       |          |       |          |       | 6058.04 | 11    |
| BENZENE (PID)                              | 16.038                         | 0.20  | 0.0779   | 0.0758  | 0.0748   | 0.0739  | 0.0734   | 0.0717  | 0.0720   |       |          |       |          |       |          |       | 0.0737  | 3     |
| 1,2-DICHLOROPROPANE (HALL)                 | 18.236                         | 0.10  | 6041.71  | 6080.72 | 6129.48  | 5951.99 | 5655.06  | 5217.07 | 4815.46  |       |          |       |          |       |          |       | 5698.78 | 9     |
| TRICHLOROETHENE (PID)                      | 18.362                         | 0.20  | 0.0647   | 0.0620  | 0.0609   | 0.0595  | 0.0588   | 0.0573  | 0.0579   |       |          |       |          |       |          |       | 0.0600  | 4     |
| BROMODICHLOROMETHANE (HALL)                | 18.499                         | 0.10  | 7603.96  | 7354.13 | 7258.92  | 6977.21 | 6576.63  | 6052.26 | 5555.74  |       |          |       |          |       |          |       | 6768.41 | 11    |
| CIS-1,3-DICHLOROPROP (HALL)                | 20.227                         | 0.20  | 7358.99  | 7687.71 | 7889.11  | 7646.41 | 7193.25  | 6702.38 | 6076.31  |       |          |       |          |       |          |       | 7222.02 | 9     |
| TRANS-1,3-DICHLOROPR (HALL)                | 21.182                         | 0.10  | 6828.53  | 7287.10 | 7593.44  | 7418.99 | 6959.85  | 6562.00 | 6016.66  |       |          |       |          |       |          |       | 6952.37 | 8     |
| 1,1,2-TRICHLOROETHAN (HALL)                | 21.410                         | 0.10  | 9006.99  | 9275.79 | 9206.11  | 8824.55 | 8106.07  | 7568.32 | 6768.92  |       |          |       |          |       |          |       | 8393.82 | 11    |
| TOLUENE (PID)                              | 21.740                         | 0.20  | 0.1631   | 0.1577  | 0.1541   | 0.1505  | 0.1479   | 0.1421  | 0.1406   |       |          |       |          |       |          |       | 0.1502  | 5     |
| DIBROMOCHLOROMETHANE (HALL)                | 22.255                         | 0.20  | 5687.33  | 6034.95 | 6276.69  | 6088.78 | 5889.02  | 5652.64 | 5231.81  |       |          |       |          |       |          |       | 5837.32 | 6     |
| TETRACHLOROETHENE (HALL)                   | 22.973                         | 0.20  | 12597.3  | 12517.5 | 12319.9  | 11578.6 | 10679.1  | 9781.82 | 8320.60  |       |          |       |          |       |          |       | 11113.5 | 15    |
| CHLOROBENZENE (PID)                        | 23.996                         | 0.20  | 0.2134   | 0.2097  | 0.2063   | 0.2020  | 0.2012   | 0.1933  | 0.1930   |       |          |       |          |       |          |       | 0.2028  | 4     |
| ETHYLBENZENE (PID)                         | 24.311                         | 0.20  | 0.1803   | 0.1730  | 0.1699   | 0.1658  | 0.1630   | 0.1569  | 0.1548   |       |          |       |          |       |          |       | 0.1618  | 5     |
| M,P-XYLENE (PID)                           | 24.602                         | 0.20  | 0.1796   | 0.1726  | 0.1692   | 0.1643  | 0.1618   | 0.1569  | 0.1538   |       |          |       |          |       |          |       | 0.1601  | 5     |
| BROMOFORM (HALL)                           | 24.703                         | 0.20  | 3340.66  | 3668.29 | 3943.24  | 3824.16 | 3795.83  | 3710.17 | 3600.13  |       |          |       |          |       |          |       | 3697.50 | 5     |

CalCO Inc. 03

\* = %RSD outside control limits.

Quality Control Summary

SDG# HUL03

Instrument ID: 5843

Initial Calibration Summary

Calibration Batch: 01365A18

Initial Calibration Date(s): 12/31/01 (HALL)

Initial Calibration Date(s): 12/31/01 (PID)

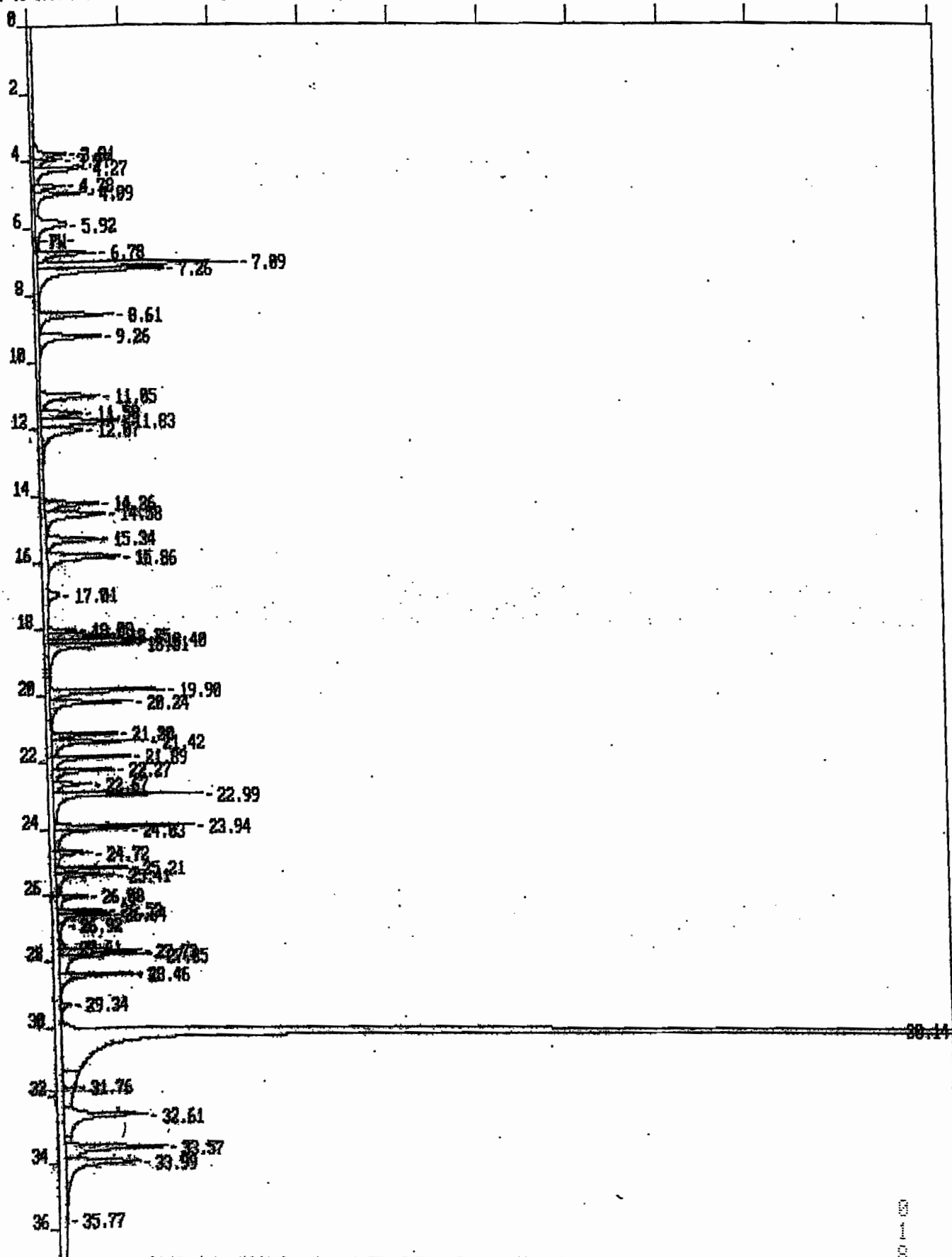
| STANDARD<br>DATE INJECTED<br>TIME INJECTED | LEVEL 1           | LEVEL 2           | LEVEL 3                        | LEVEL 4           | LEVEL 5           | LEVEL 6           | LEVEL 7           | LEVEL 8           | % RSD   |
|--------------------------------------------|-------------------|-------------------|--------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------|
|                                            | 12/31/01<br>03:25 | 12/31/01<br>04:08 | 12/31/01<br>04:52              | 12/31/01<br>05:35 | 12/31/01<br>06:18 | 12/31/01<br>07:01 | 12/31/01<br>07:44 | 12/31/01<br>08:28 |         |
| COMPOUND (DETECTOR)                        | Retention Time    |                   | Relative Response Factor (RRF) |                   |                   |                   |                   |                   | MEAN    |
|                                            | LEVEL 1           | LEVEL 2           | LEVEL 3                        | LEVEL 4           | LEVEL 5           | LEVEL 6           | LEVEL 7           | LEVEL 8           |         |
| O-XYLENE (PID)                             | 25.170            | 0.06              | 0.1762                         | 0.1668            | 0.1645            | 0.1591            | 0.1532            | 0.1478            | 0.1627  |
| 1,1,2,2-TETRACHLORO (HALL)                 | 25.190            | 0.10              | 6806.88                        | 7126.73           | 6626.71           | 6253.45           | 6052.40           | 6490.11           | 6490.11 |
| 1,3-DICHLOROBENZENE (HALL)                 | 27.713            | 0.20              | 6035.81                        | 6123.87           | 6360.50           | 6040.12           | 5885.08           | 5512.29           | 5856.49 |
| 1,4-DICHLOROBENZENE (PID)                  | 27.801            | 0.04              | 0.1580                         | 0.1516            | 0.1481            | 0.1445            | 0.1450            | 0.1564            | 0.1508  |
| 1,2-DICHLOROBENZENE (HALL)                 | 28.438            | 0.20              | 5865.11                        | 5988.09           | 5764.74           | 5729.38           | 5308.48           | 4847.43           | 5657.80 |
| SURR-1B4CB-P (PID)                         | 30.094            | 0.20              | 0.1189                         | 0.1209            | 0.1213            | 0.1246            | 0.1267            | 0.1357            | 0.1244  |
| SURR-1B4CB-H (HALL)                        | 30.123            | 0.20              | 3359.67                        | 3462.94           | 3532.09           | 3335.15           | 3394.79           | 3493.53           | 3427.70 |

File=C:\CP\DATA1\18365.20R Date printed=12-31-2001 Time= 16:16:30

Sample Name=MDL

01365A18

0.0 to 37.0 min. Low Y=-0.001 High Y=14.999 mv Span=15.0





Sample Name: MDL  
 Batch: 01365A18 Date Taken: Dec 31, 2001 16:11:18  
 Raw File: C:\CP\DATA1\18365.20R  
 Area File: C:\CP\DATA1\18365.20A  
 Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SQ/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115  
 Threshold: -3 Calculation: EXTERNALstd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 11):

| Ret Time | Expected | (min) RT | (min) Peak Name           | Amount * | Peak   | Peak   |
|----------|----------|----------|---------------------------|----------|--------|--------|
|          |          |          |                           | (ug/L)   | Area   | Height |
| 3.811    |          | 3.805    | DICHLORODIFLUOROMETH      | 0.2639   | 4736   | 534    |
| 3.971    |          | 3.985    | CHLOROMETHANE             | 0.2090   | 3630   | 467    |
| 4.273    |          | 4.314    | VINYL CHLORIDE            | 0.2046   | 7359   | 728    |
| 4.780    |          | 4.780    | BROMOMETHANE              | 0.1847   | 3223   | 497    |
| 4.989    |          | 4.980    | CHLOROETHANE              | 0.1904   | 7130   | 811    |
| 5.922    |          | 5.837    | TRICHLOROFLUOROMETHA      | 0.2016   | 9209   | 515    |
| 6.777    |          | 6.761    | 1,1-DICHLOROETHENE        | 0.2100   | 7272   | 972    |
| 7.087    |          | 7.069    | METHYLENE CHLORIDE        | 0.4008   | 20017  | 3326   |
| 7.259    |          | 7.253    | TRICHLOROTRIFLUOROET      | 0.5776   | 25438  | 2098   |
| 8.607    |          | 8.582    | TRANS-1,2-DICHLOROET      | 0.1980   | 10354  | 1237   |
| 9.257    |          | 9.231    | 1,1-DICHLOROETHANE        | 0.1926   | 10398  | 1031   |
| 11.052   |          | 11.019   | CIS-1,2-DICHLOROETHE      | 0.1939   | 9776   | 981    |
| 11.575   |          | 11.537   | BROMOCHLOROMETHANE        | 0.1862   | 5999   | 678    |
| 11.826   |          | 11.792   | CHLOROFORM                | 0.2099   | 12849  | 1284   |
| 12.071   |          | 12.040   | 2,2-DICHLOROPROPANE       | 0.2121   | 11358  | 689    |
| 14.261   |          | 14.223   | 1,2-DICHLOROETHANE        | 0.1887   | 8003   | 903    |
| 14.579   |          | 14.542   | 1,1,1-TRICHLOROETHAN      | 0.1997   | 12629  | 992    |
| 15.341   |          | 15.305   | 1,1-DICHLOROPROPENE       | 0.1973   | 8532   | 867    |
| 15.864   |          | 15.828   | CARBON TETRACHLORIDE      | 0.1988   | 13588  | 1204   |
| 18.082   |          | 18.048   | DIBROMOMETHANE            | 0.1589   | 2915   | 471    |
| 18.248   |          | 18.220   | 1,2-DICHLOROPROPANE       | 0.1897   | 7219   | 1081   |
| 18.403   |          | 18.377   | TRICHLOROETHENE           | 0.2110   | 10555  | 1687   |
| 18.509   |          | 18.485   | BROMODICHLOROMETHANE      | 0.2052   | 12668  | 1389   |
| 19.901   |          | 19.872   | 2-CHLOROETHYL VINYL       | 0.8293   | 12136  | 1909   |
| 20.243   |          | 20.220   | CIS-1,3-DICHLOROPROP      | 0.1884   | 9817   | 1361   |
| 21.201   |          | 21.176   | TRANS-1,3-DICHLOROPR      | 0.1573   | 5887   | 1093   |
| 21.425   |          | 21.406   | 1,1,2-TRICHLOROETHAN      | 0.1909   | 10350  | 1602   |
| 21.888   |          | 21.869   | 1,3-DICHLOROPROPANE       | 0.1860   | 8008   | 1305   |
| 22.271   |          | 22.253   | DIBROMOCHLOROMETHANE      | 0.1753   | 6767   | 1024   |
| 22.670   |          | 22.648   | 1,2-DIBROMOETHANE         | 0.1672   | 4285   | 629    |
| 22.986   |          | 22.974   | TETRACHLOROETHENE         | 0.2249   | 15415  | 2500   |
| 23.935   |          | 23.925   | 1,1,1,2-TETRACHLOROE      | 0.2007   | 9513   | 2349   |
| 24.034   |          | 24.022   | CHLOROBENZENE             | 0.2228   | 9046   | 1229   |
| 24.721   |          | 24.704   | BROMOFORM                 | 0.1684   | 4720   | 623    |
| 25.205   |          | 25.194   | 1,1,2,2-TETRACHLOROE      | 0.1865   | 6071   | 1210   |
| 25.410   |          | 25.398   | 1,2,3-TRICHLOROPROPA      | 0.1887   | 6495   | 963    |
| 26.081   |          | 26.064   | BROMOBENZENE              | 0.1803   | 4073   | 510    |
| 26.525   |          | 26.514   | 2-CHLOROTOLUENE           | 0.2023   | 3589   | 807    |
| 26.645   |          | 26.633   | 4-CHLOROTOLUENE           | 0.2162   | 5265   | 875    |
| 27.731   |          | 27.719   | 1,3-DICHLOROBENZENE       | 0.2346   | 6197   | 1374   |
| 27.845   |          | 27.833   | 1,4-DICHLOROBENZENE       | 0.2512   | 12316  | 1566   |
| 28.457   |          | 28.444   | 1,2-DICHLOROBENZENE       | 0.2194   | 8978   | 1241   |
| 29.344   |          | 29.330   | 1,2-DIBROMO-3-CHLORO      | 0.1655   | 1598   | 186    |
| 30.140   |          | 30.132   | SURR-1B4CB-H              | 26.2600  | 481548 | 90012  |
| 32.606   |          | 32.593   | 1,2,4-TRICHLOROBENZE      | 0.3504   | 18000  | 1408   |
| 33.568   |          | 33.559   | HEXACHLOROBUTADIENE       | 0.3626   | 16410  | 1719   |
| 33.995   |          | 33.985   | 1,2,3-TRICHLOROBENZE      | 0.3673   | 18386  | 1255   |
|          |          |          | TOTAL 1,2-DICHLOROETHENE: | 0.3919   |        |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 87.5334%

Chrom Perfect version 6.07

Reported on 12-31-2001 at 16:17:19

Sample name: MDL  
Raw file:

C:\CP\DATA1\18365.20R

Batch: 01365A18

Reviewed by:

MDL

Verified by:

SKP

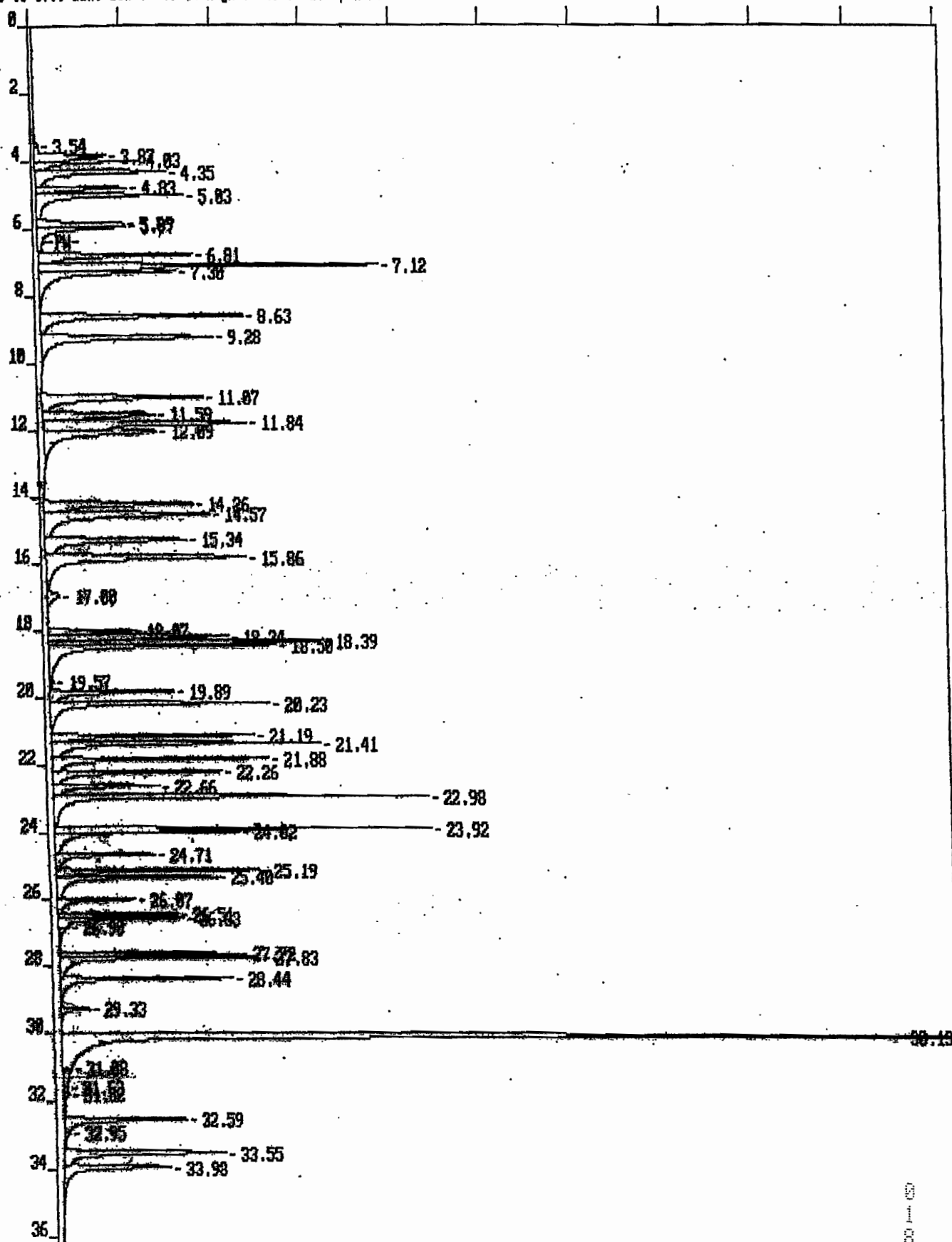
Date:

12/31/01

Date:

12-31-01

File=C:\CP\DATA1\18365.03R Date printed=12-31-2001 Time= 03:25:31  
Sample Name=CALSTD1 01365A188400,8401,8464  
0.0 to 37.0 min. Low Y=-0.024 High Y=14.976 mv Span=15.0



Sample Name: CALSTD1

Batch: 01365A18

Date Taken: Dec 31, 2001 03:25:27

Raw File: C:\CP\DATA1\18365.03R

Area File: C:\CP\DATA1\18365.03A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 2 ):

| Ret Time Expected<br>(min) | RT (min) | Peak Name                 | Amount *<br>(ug/L) | Peak<br>Area | Peak<br>Height |
|----------------------------|----------|---------------------------|--------------------|--------------|----------------|
| 3.865                      | 3.875    | DICHLORODIFLUOROMETH      | 0.8476             | 9705         | 1186           |
| 4.030                      | 4.064    | CHLOROMETHANE             | 1.8207             | 11287        | 1614           |
| 4.348                      | 4.381    | VINYL CHLORIDE            | 0.7194             | 18609        | 2164           |
| 4.828                      | 4.852    | BROMOMETHANE              | 0.7358             | 9209         | 1526           |
| 5.032                      | 5.051    | CHLOROETHANE              | 0.9333             | 18955        | 2458           |
| 5.895                      | 5.913    | TRICHLOROFLUOROMETHA      | 0.6539             | 9334         | 1463           |
| 6.811                      | 6.831    | 1,1-DICHLOROETHENE        | 0.6993             | 18443        | 2565           |
| 7.119                      | 7.142    | METHYLENE CHLORIDE        | 0.9129             | 34795        | 5655           |
| 7.299                      | 7.323    | TRICHLOROTRIFLUOROET      | 0.8109             | 27320        | 2268           |
| 8.632                      | 8.656    | TRANS-1,2-DICHLOROET      | 0.6505             | 26479        | 3378           |
| 9.280                      | 9.305    | 1,1-DICHLOROETHANE        | 0.6214             | 27404        | 2859           |
| 11.069                     | 11.096   | CIS-1,2-DICHLOROETHE      | 0.6364             | 25078        | 2675           |
| 11.589                     | 11.617   | BROMOCHLOROMETHANE        | 0.5950             | 15893        | 1860           |
| 11.841                     | 11.873   | CHLOROFORM                | 0.6373             | 32670        | 3379           |
| 12.086                     | 12.125   | 2,2-DICHLOROPROPANE       | 0.6673             | 27194        | 1876           |
| 14.263                     | 14.290   | 1,2-DICHLOROETHANE        | 0.6602             | 21043        | 2474           |
| 14.575                     | 14.607   | 1,1,1-TRICHLOROETHAN      | 0.6343             | 33725        | 2748           |
| 15.338                     | 15.364   | 1,1-DICHLOROPROPENE       | 0.6739             | 22681        | 2353           |
| 15.856                     | 15.886   | CARBON TETRACHLORIDE      | 0.6233             | 37961        | 3340           |
| 18.072                     | 18.088   | DIBROMOMETHANE            | 0.5309             | 8438         | 1400           |
| 18.238                     | 18.258   | 1,2-DICHLOROPROPANE       | 0.6252             | 20219        | 3021           |
| 18.393                     | 18.414   | TRICHLOROETHENE           | 0.6953             | 27812        | 4552           |
| 18.500                     | 18.521   | BROMODICHLOROMETHANE      | 0.6459             | 32840        | 3802           |
| 19.889                     | 19.897   | 2-CHLOROETHYL VINYL       | 1.1319             | 13199        | 2069           |
| 20.231                     | 20.243   | CIS-1,3-DICHLOROPROP      | 0.5800             | 24415        | 3679           |
| 21.187                     | 21.195   | TRANS-1,3-DICHLOROPR      | 0.5571             | 17055        | 3414           |
| 21.412                     | 21.423   | 1,1,2-TRICHLOROETHAN      | 0.6515             | 26551        | 4503           |
| 21.875                     | 21.884   | 1,3-DICHLOROPROPANE       | 0.6602             | 20443        | 3645           |
| 22.260                     | 22.267   | DIBROMOCHLOROMETHANE      | 0.5533             | 17015        | 2844           |
| 22.657                     | 22.660   | 1,2-DIBROMOETHANE         | 0.5425             | 10686        | 1780           |
| 22.975                     | 22.985   | TETRACHLOROETHENE         | 0.6996             | 34707        | 6299           |
| 23.924                     | 23.932   | 1,1,1,2-TETRACHLOROE      | 0.6369             | 24934        | 6328           |
| 24.022                     | 24.030   | CHLOROBENZENE             | 0.7004             | 19180        | 3098           |
| 24.709                     | 24.711   | BROMOFORM                 | 0.5075             | 10383        | 1670           |
| 25.194                     | 25.200   | 1,1,2,2-TETRACHLOROE      | 0.6529             | 15608        | 3403           |
| 25.398                     | 25.403   | 1,2,3-TRICHLOROPROPA      | 0.6441             | 16848        | 2690           |
| 26.068                     | 26.070   | BROMOBENZENE              | 0.5498             | 8133         | 1315           |
| 26.513                     | 26.519   | 2-CHLOROTOLUENE           | 0.6434             | 8449         | 2018           |
| 26.632                     | 26.638   | 4-CHLOROTOLUENE           | 0.6597             | 11519        | 2129           |
| 27.718                     | 27.724   | 1,3-DICHLOROBENZENE       | 0.6471             | 12538        | 3018           |
| 27.832                     | 27.839   | 1,4-DICHLOROBENZENE       | 0.6873             | 20039        | 3390           |
| 28.443                     | 28.450   | 1,2-DICHLOROBENZENE       | 0.6572             | 17639        | 2933           |
| 29.333                     | 29.336   | 1,2-DIBROMO-3-CHLORO      | 0.4961             | 3103         | 479            |
| 30.127                     | 30.137   | SURR-1B4CB-H              | 12.5044            | 187449       | 34269          |
| 32.588                     | 32.597   | 1,2,4-TRICHLOROBENZE      | 0.6519             | 14156        | 2058           |
| 33.550                     | 33.561   | HEXACHLOROBUTADIENE       | 0.6548             | 20402        | 2718           |
| 33.978                     | 33.987   | 1,2,3-TRICHLOROBENZE      | 0.6743             | 15838        | 1792           |
|                            |          | TOTAL 1,2-DICHLOROETHENE: | 1.2869             |              |                |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 41.6814%

Sample name: CALSTD1

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365.03R

Reviewed by:

JS

Verified by:

SKPL088

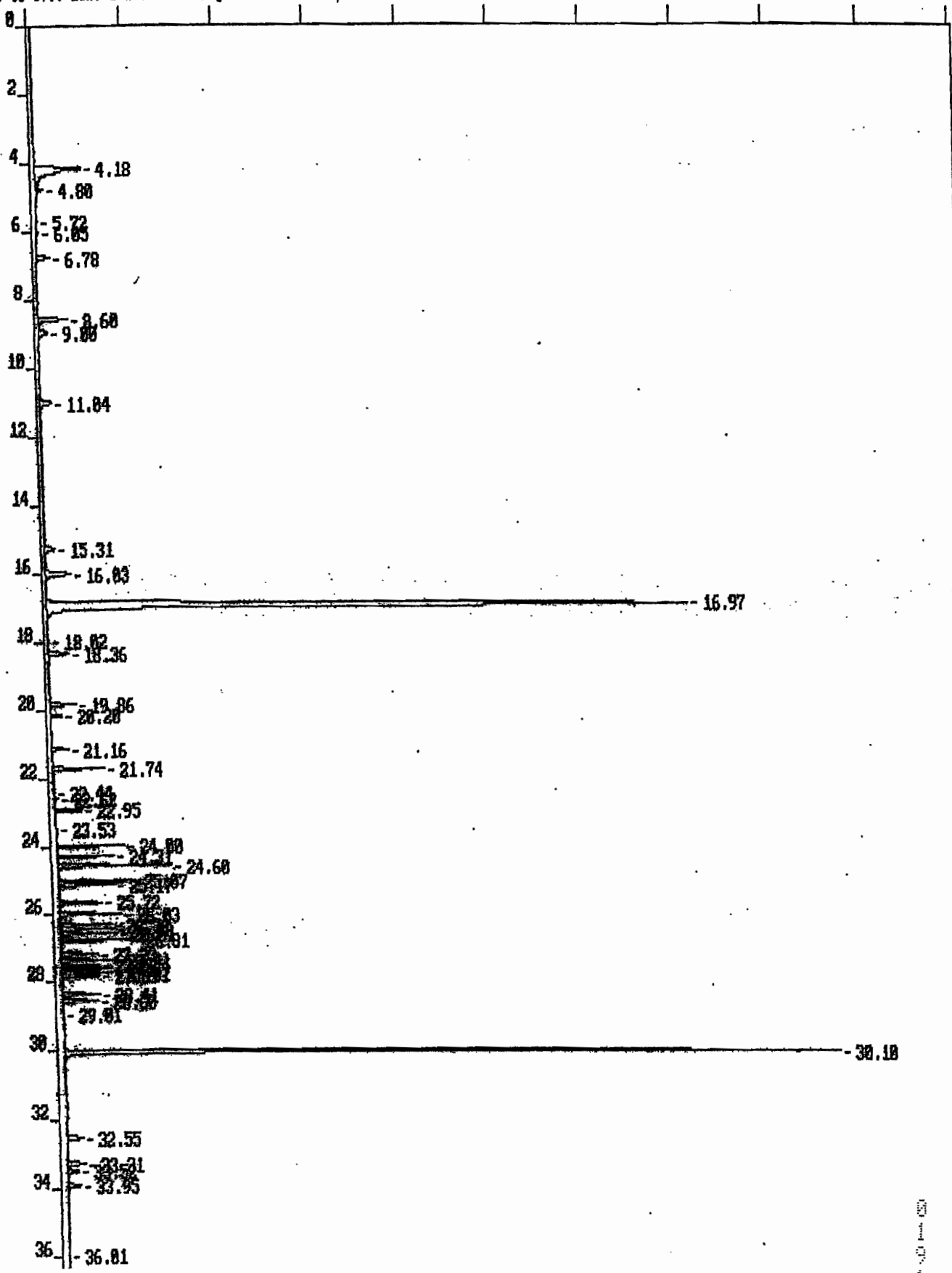
Date:

12-31-01

Date:

12-31-01

File=C:\CP\DATA1\183658.03R Date printed=12-31-2001 Time= 03:27:02  
Sample Name=CALSTD1 01365A188400,8401,8464  
0.0 to 37.0 min. Low Y=0.006 High Y=15.006 mv Span=15.0



Sample Name: CALSTD1

Batch: 01365A18

Date Taken: Dec 31, 2001 03:25:27

Raw File: C:\CP\DATA1\18365B.03R

Area File: C:\CP\DATA1\18365B.03A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SQ/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 2 ):

| Ret Time | Expected | Amount * | Peak  | Peak   |
|----------|----------|----------|-------|--------|
| (min)    | RT (min) | (ug/L)   | Area  | Height |
| 4.355    | 4.355    | 0.0000   | 0     | 0      |
| 6.783    | 6.802    | 0.5274   | 1275  | 215    |
| 8.600    | 8.627    | 0.5076   | 2812  | 476    |
| 8.995    | 9.017    | 0.5338   | 1259  | 143    |
| 11.040   | 11.066   | 0.5112   | 1471  | 193    |
| 15.311   | 15.337   | 0.5164   | 1266  | 173    |
| 16.034   | 16.068   | 0.4939   | 2925  | 408    |
| 16.968   | 17.003   | 1.0000   | 78634 | 10461  |
| 18.363   | 18.385   | 0.5064   | 1776  | 338    |
| 19.859   | 19.869   | 0.8863   | 1860  | 432    |
| 20.198   | 20.216   | 0.4977   | 839   | 207    |
| 21.159   | 21.168   | 0.4756   | 1060  | 286    |
| 21.740   | 21.754   | 0.5109   | 3142  | 853    |
| 22.948   | 22.960   | 0.5189   | 1437  | 456    |
| 23.998   | 24.006   | 0.4966   | 3102  | 1116   |
| 24.312   | 24.321   | 0.5141   | 2754  | 943    |
| 24.604   | 24.613   | 1.0309   | 6101  | 1878   |
| 25.071   | 25.079   | 0.5004   | 3203  | 1160   |
| 25.172   | 25.181   | 0.5096   | 2850  | 921    |
| 25.715   | 25.724   | 0.5196   | 2220  | 717    |
| 26.034   | 26.042   | 0.4893   | 2986  | 1013   |
| 26.361   | 26.370   | 0.5245   | 2484  | 840    |
| 26.485   | 26.494   | 0.5046   | 2617  | 889    |
| 26.605   | 26.613   | 0.5024   | 2710  | 931    |
| 26.808   | 26.817   | 0.5141   | 3492  | 1166   |
| 27.233   | 27.241   | 0.5134   | 2093  | 615    |
| 27.415   | 27.423   | 0.5018   | 2655  | 850    |
| 27.582   | 27.592   | 0.5069   | 2120  | 623    |
| 27.689   | 27.698   | 0.4970   | 2566  | 818    |
| 27.805   | 27.813   | 0.5038   | 2626  | 827    |
| 27.889   | 27.899   | 0.5178   | 1988  | 622    |
| 28.414   | 28.424   | 0.5088   | 2186  | 627    |
| 28.602   | 28.611   | 0.5264   | 2425  | 598    |
| 30.097   | 30.109   | 9.4428   | 48363 | 12690  |
| 32.552   | 32.568   | 0.5056   | 1376  | 271    |
| 33.306   | 33.315   | 0.5056   | 1663  | 310    |
| 33.520   | 33.532   | 0.5535   | 1070  | 186    |
| 33.948   | 33.958   | 0.5207   | 1276  | 230    |

XYLENES (Total): 1.5405

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 31.4760%

Chrom Perfect version 6.07

Reported on 12-31-2001 at 03:28:30

#### CALIBRATION UPDATE REPORT

Calibration file = C:\CP\DATA1\P18365.CAL Current version number = 2

Updated from file = C:\CP\DATA1\18365B.03A

Amount injected = 1

Standard amount injected = 1

Calibration level = 1 Replace old values with new

Number of runs since last replace = 0

Update to both retention time and area

Sample name: CALSTD1

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365B.03R

Reviewed by: JZL

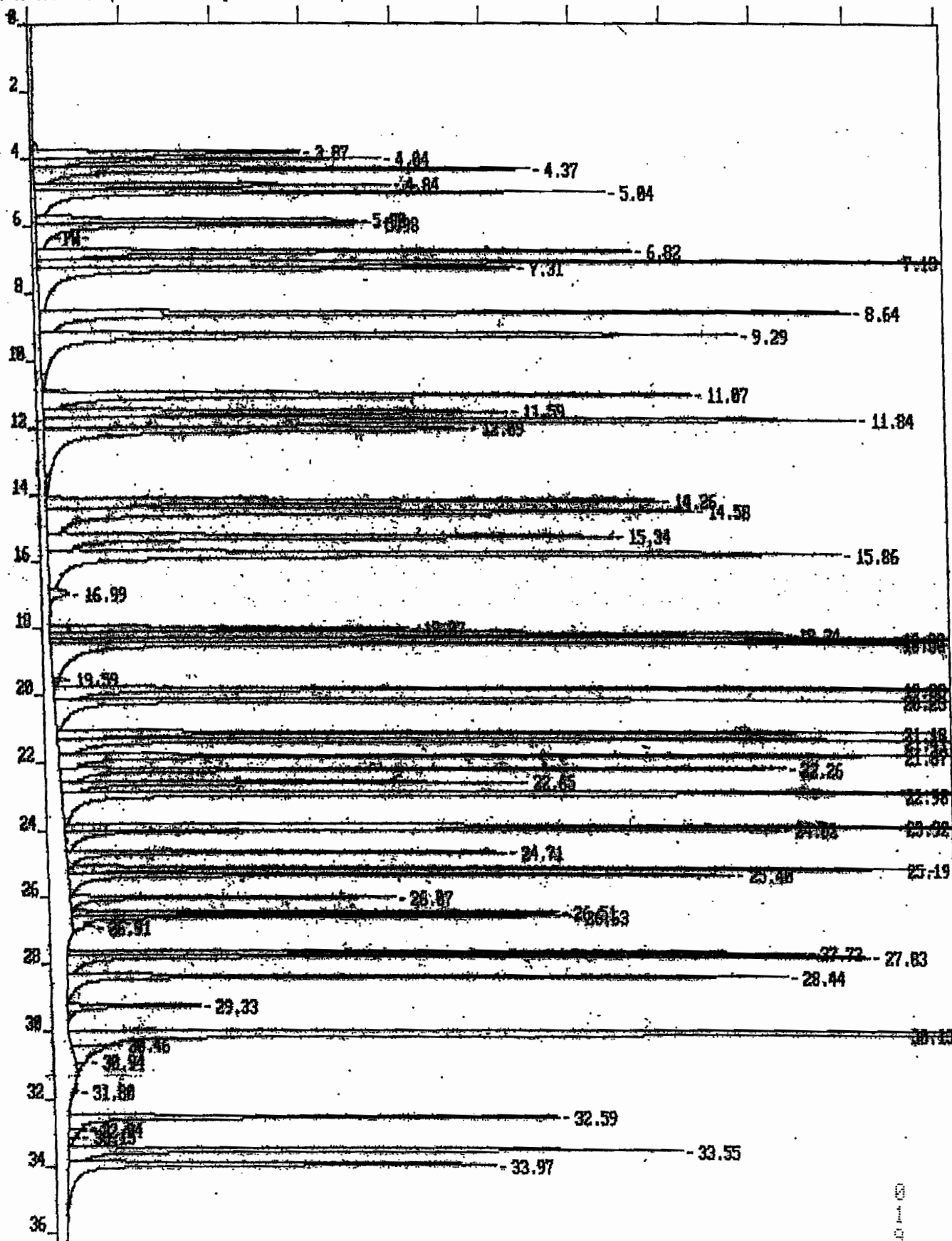
Verified by: JCP

Date: 12-31-01

Date: 12-31-01



File=C:\CP\DATA\18365.04R Date printed=12-31-2001 Time= 04:09:01  
Sample Name=CA1STD2 01345A188480,8401,8464  
0.0 to 37.0 min. Low Y=-0.011 High Y=14.989 mv Span=15.0



Sample Name: CALSTD2

Batch: 01365A18

Date Taken: Dec 31, 2001 04:08:56

Raw File: C:\CP\DATA1\18365.04R

Area File: C:\CP\DATA1\18365.04A

Method File: C:\CP\DATA1\18365.MET(version 2)

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SQ/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 3):

| Ret Time Expected<br>(min) | RT (min) | Peak Name            | Amount *<br>(ug/L) | Peak<br>Area | Peak<br>Height |
|----------------------------|----------|----------------------|--------------------|--------------|----------------|
| 3.875                      | 3.865    | DICHLORODIFLUOROMETH | 2.9570             | 33049        | 4418           |
| 4.044                      | 4.030    | CHLOROMETHANE        | 4.8946             | 37220        | 5741           |
| 4.369                      | 4.348    | VINYL CHLORIDE       | 2.6790             | 63881        | 8221           |
| 4.840                      | 4.828    | BROMOMETHANE         | 2.7001             | 33281        | 5901           |
| 5.043                      | 5.032    | CHLOROETHANE         | 3.2240             | 65240        | 9460           |
| 5.902                      | 5.895    | TRICHLOROFLUOROMETHA | 2.3460             | 34100        | 5325           |
| 6.821                      | 6.811    | 1,1-DICHLOROETHENE   | 2.5839             | 67378        | 9873           |
| 7.127                      | 7.119    | METHYLENE CHLORIDE   | 2.7220             | 111510       | 18333          |
| 7.309                      | 7.299    | TRICHLOROTRIFLUOROET | 2.6861             | 91222        | 7924           |
| 8.638                      | 8.632    | TRANS-1,2-DICHLOROET | 2.5165             | 99932        | 13434          |
| 9.286                      | 9.280    | 1,1-DICHLOROETHANE   | 2.4644             | 108448       | 11573          |
| 11.072                     | 11.069   | CIS-1,2-DICHLOROETHE | 2.4992             | 95824        | 10769          |
| 11.592                     | 11.589   | BROMOCHLOROMETHANE   | 2.4243             | 64548        | 7722           |
| 11.845                     | 11.841   | CHLOROFORM           | 2.4889             | 127129       | 13453          |
| 12.091                     | 12.086   | 2,2-DICHLOROPROPANE  | 2.4582             | 102600       | 7043           |
| 14.264                     | 14.263   | 1,2-DICHLOROETHANE   | 2.6219             | 83159        | 10167          |
| 14.577                     | 14.575   | 1,1,1-TRICHLOROETHAN | 2.4412             | 121174       | 10734          |
| 15.339                     | 15.338   | 1,1-DICHLOROPROPENE  | 2.6086             | 85118        | 9398           |
| 15.858                     | 15.856   | CARBON TETRACHLORIDE | 2.4263             | 138768       | 13128          |
| 18.070                     | 18.072   | DIBROMOMETHANE       | 2.2379             | 35355        | 5972           |
| 18.238                     | 18.238   | 1,2-DICHLOROPROPANE  | 2.4661             | 79463        | 12161          |
| 18.393                     | 18.393   | TRICHLOROETHENE      | 2.6085             | 103380       | 17605          |
| 18.500                     | 18.500   | BROMODICHLOROMETHANE | 2.4525             | 113373       | 14708          |
| 19.883                     | 19.889   | 2-CHLOROETHYL VINYL  | 8.2797             | 84977        | 15621          |
| 20.229                     | 20.231   | CIS-1,3-DICHLOROPROP | 2.3960             | 89056        | 15375          |
| 21.185                     | 21.187   | TRANS-1,3-DICHLOROPR | 2.3522             | 66987        | 14574          |
| 21.411                     | 21.412   | 1,1,2-TRICHLOROETHAN | 2.6136             | 95962        | 18552          |
| 21.874                     | 21.875   | 1,3-DICHLOROPROPANE  | 2.6521             | 73875        | 15184          |
| 22.258                     | 22.260   | DIBROMOCHLOROMETHANE | 2.3209             | 61103        | 12070          |
| 22.655                     | 22.657   | 1,2-DIBROMOETHANE    | 2.2847             | 38411        | 7617           |
| 22.975                     | 22.975   | TETRACHLOROETHENE    | 2.6819             | 117130       | 25035          |
| 23.924                     | 23.924   | 1,1,1,2-TETRACHLOROE | 2.5841             | 100090       | 26369          |
| 24.023                     | 24.022   | CHLOROBENZENE        | 2.5870             | 56526        | 11867          |
| 24.706                     | 24.709   | BROMOFORM            | 2.2040             | 35828        | 7337           |
| 25.193                     | 25.194   | 1,1,2,2-TETRACHLOROE | 2.6232             | 59318        | 14226          |
| 25.397                     | 25.398   | 1,2,3-TRICHLOROPROPA | 2.5623             | 53026        | 11081          |
| 26.065                     | 26.068   | BROMOBENZENE         | 2.2277             | 25715        | 5441           |
| 26.512                     | 26.513   | 2-CHLOROTOLUENE      | 2.4997             | 31528        | 8140           |
| 26.631                     | 26.632   | 4-CHLOROTOLUENE      | 2.4856             | 39109        | 8327           |
| 27.716                     | 27.718   | 1,3-DICHLOROBENZENE  | 2.5331             | 48440        | 12248          |
| 27.830                     | 27.832   | 1,4-DICHLOROBENZENE  | 2.5958             | 66383        | 13337          |
| 28.442                     | 28.443   | 1,2-DICHLOROBENZENE  | 2.5814             | 60316        | 11976          |
| 29.330                     | 29.333   | 1,2-DIBROMO-3-CHLORO | 2.2727             | 13687        | 2228           |
| 30.127                     | 30.127   | SURR-1B4CB-H         | 24.3379            | 347709       | 69259          |
| 32.585                     | 32.588   | 1,2,4-TRICHLOROBENZE | 2.4673             | 51005        | 8190           |
| 33.548                     | 33.550   | HEXACHLOROBUTADIENE  | 2.3992             | 71609        | 10222          |
| 33.974                     | 33.978   | 1,2,3-TRICHLOROBENZE | 2.5265             | 55570        | 7122           |
| TOTAL 1,2-DICHLOROETHENE:  |          |                      | 5.0157             |              |                |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 81.1264%

12-31-01

Sample name: CALSTD2

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365.04R

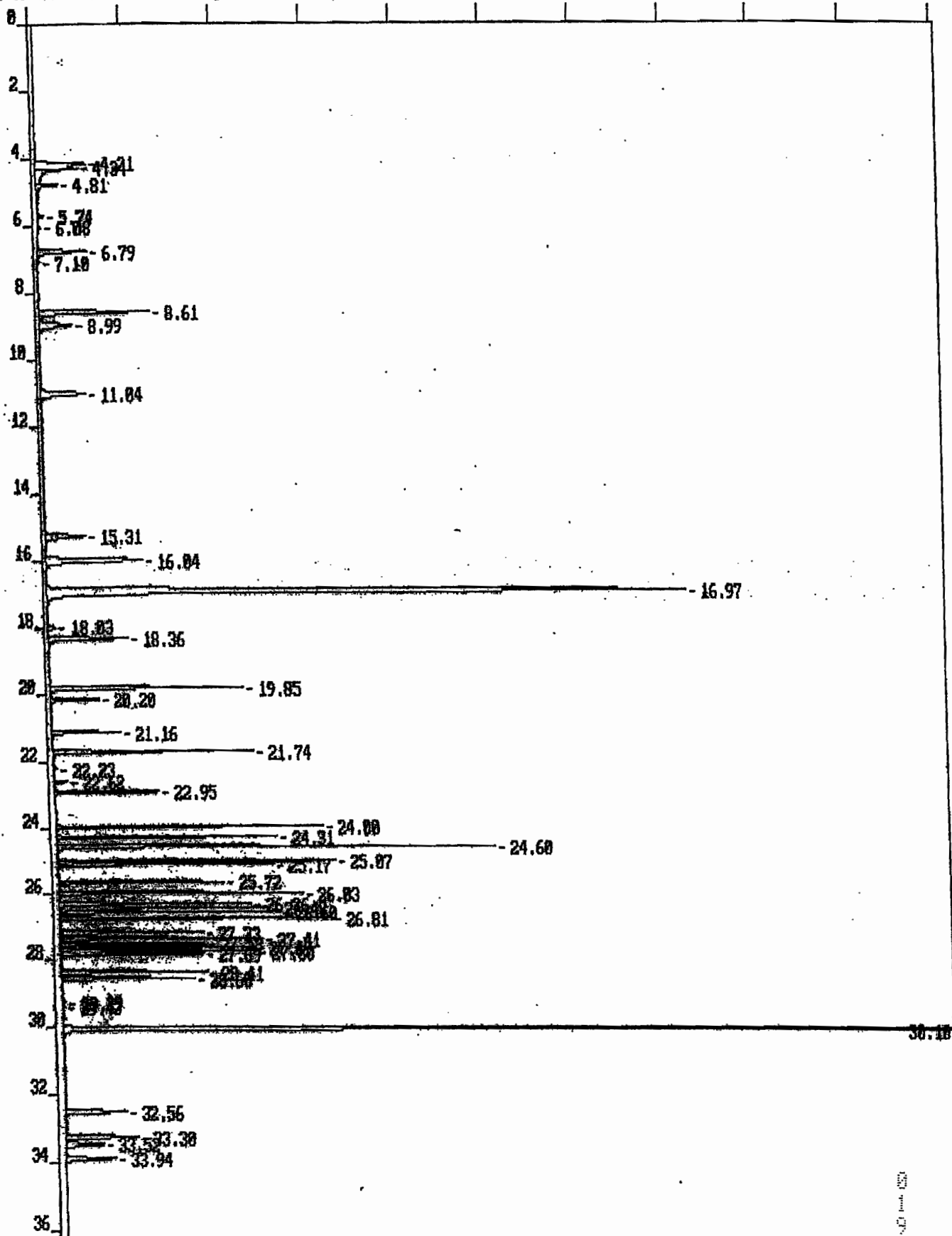
Reviewed by: T345

Verified by: SLCP088

Date: 12-31-01

Date: 12-31-01

File=C:\CP\DATA1\18365B.04R Date printed=12-31-2001 Time= 04:10:31  
 Sample Name=CALSTD2 01365A188400,8401,8464  
 0.0 to 37.0 min. Low Y=0.004 High Y=15.004 mv Span=15.0



Sample Name: CALSTD2

Batch: 01365A18

Date Taken: Dec 31, 2001 04:08:56

Raw File: C:\CP\DATA1\18365B.04R

Area File: C:\CP\DATA1\18365B.04A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 3 ):

| Ret Time | Expected | Amount *             | Peak    | Peak  |        |
|----------|----------|----------------------|---------|-------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)  | Area  | Height |
| 4.339    | 4.355    | VINYL CHLORIDE       | 1.9841  | 6075  | 702    |
| 6.791    | 6.783    | 1,1-DICHLOROETHENE   | 1.9424  | 4316  | 800    |
| 8.608    | 8.600    | TRANS-1,2-DICHLOROET | 1.9446  | 10582 | 1842   |
| 8.994    | 8.995    | METHYL T-BUTYL ETHER | 1.9887  | 4761  | 545    |
| 11.039   | 11.040   | CIS-1,2-DICHLOROETHE | 1.9378  | 5679  | 741    |
| 15.305   | 15.311   | 1,1-DICHLOROPROPENE  | 1.9563  | 4790  | 659    |
| 16.038   | 16.034   | BENZENE              | 1.9412  | 11576 | 1615   |
| 16.972   | 16.968   | ISTD-FBENZENE        | 1.0000  | 79950 | 10654  |
| 18.364   | 18.363   | TRICHLOROETHENE      | 1.9603  | 6914  | 1320   |
| 19.854   | 19.859   | 2-CHLOROETHYL VINYL  | 6.5088  | 12954 | 3228   |
| 20.201   | 20.198   | CIS-1,3-DICHLOROPROP | 1.9199  | 3169  | 809    |
| 21.156   | 21.159   | TRANS-1,3-DICHLOROPR | 1.9053  | 4068  | 1161   |
| 21.741   | 21.740   | TOLUENE              | 1.9918  | 11330 | 3359   |
| 22.949   | 22.948   | TETRACHLOROETHENE    | 1.9675  | 5482  | 1755   |
| 23.998   | 23.998   | CHLOROBENZENE        | 1.9648  | 11724 | 4469   |
| 24.312   | 24.312   | ETHYLBENZENE         | 1.9823  | 10114 | 3686   |
| 24.604   | 24.604   | M,P-XYLENE           | 3.9857  | 23547 | 7354   |
| 25.071   | 25.071   | STYRENE              | 1.9758  | 12531 | 4646   |
| 25.172   | 25.172   | O-XYLENE             | 1.9682  | 10287 | 3609   |
| 25.715   | 25.715   | ISOPROPYLBENZENE     | 1.9861  | 8234  | 2783   |
| 26.034   | 26.034   | BROMOBENZENE         | 1.9440  | 11805 | 4076   |
| 26.361   | 26.361   | N-PROPYLBENZENE      | 1.9841  | 9360  | 3220   |
| 26.485   | 26.485   | 2-CHLOROTOLUENE      | 1.9780  | 10322 | 3530   |
| 26.604   | 26.605   | 4-CHLOROTOLUENE      | 1.9685  | 10593 | 3702   |
| 26.809   | 26.808   | 1,3,5-TRIMETHYLBENZE | 1.9819  | 13620 | 4555   |
| 27.232   | 27.233   | TERT-BUTYLBENZENE    | 1.9860  | 7962  | 2409   |
| 27.414   | 27.415   | 1,2,4-TRIMETHYLBENZE | 1.9818  | 10343 | 3400   |
| 27.582   | 27.582   | SEC-BUTYLBENZENE     | 1.9686  | 8144  | 2448   |
| 27.688   | 27.689   | 1,3-DICHLOROBENZENE  | 1.9489  | 10117 | 3257   |
| 27.804   | 27.805   | 1,4-DICHLOROBENZENE  | 1.9724  | 10109 | 3291   |
| 27.889   | 27.889   | P-ISOPROPYLTOLUENE   | 1.9707  | 7865  | 2401   |
| 28.414   | 28.414   | 1,2-DICHLOROBENZENE  | 1.9503  | 8208  | 2449   |
| 28.602   | 28.602   | N-BUTYLBENZENE       | 1.9380  | 7810  | 2247   |
| 30.098   | 30.097   | SURR-1B4CB-P         | 18.7709 | 97067 | 25762  |
| 32.555   | 32.552   | 1,2,4-TRICHLOROBENZE | 1.8981  | 5023  | 1042   |
| 33.301   | 33.306   | NAPHTHALENE          | 1.9635  | 6126  | 1241   |
| 33.520   | 33.520   | HEXACHLOROBUTADIENE  | 1.8543  | 3638  | 630    |
| 33.943   | 33.948   | 1,2,3-TRICHLOROBENZE | 1.8658  | 4601  | 853    |

XYLENES (Total): 5.9539

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 62.5697%

Chrom Perfect version 6.07

Reported on 12-31-2001 at 04:11:59

#### CALIBRATION UPDATE REPORT

Calibration file = C:\CP\DATA1\P18365.CAL Current version number = 3

Updated from file = C:\CP\DATA1\18365B.04A

Amount injected = 1

Standard amount injected = 1

Calibration level = 2 Replace old values with new

Number of runs since last replace = 0

Update to both retention time and area

Sample name: CALSTD2

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365B.04R

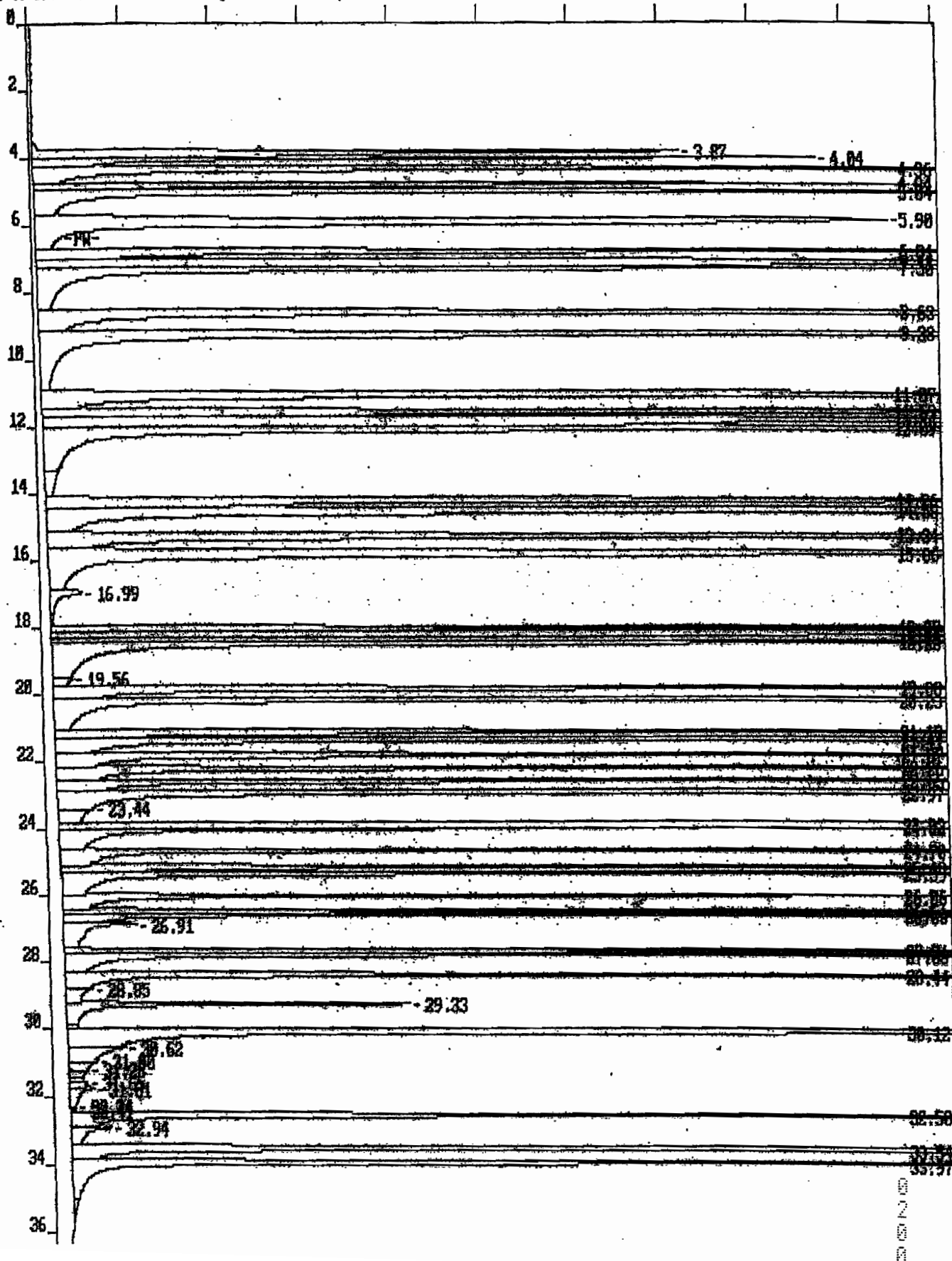
Reviewed by: JS

Verified by: SKP

Date: 12-31-01

Date: 12-31-01

File=C:\CP\DATA\18365.05R Date printed=12-31-2001 Time= 04:52:17  
 Sample Name=CALSTD3 01365A188400,8401,8464  
 0.0 to 37.0 min. Low Y=-0.008 High Y=14.992 mv Span=15.0



Sample Name: CALSTD3

Batch: 01365A18

Date Taken: Dec 31, 2001 04:52:12

Raw File: C:\CP\DATA1\18365.05R

Area File: C:\CP\DATA1\18365.05A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 4 ):

| Ret Time | Expected |                           | Amount * | Peak   | Peak   |
|----------|----------|---------------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name                 | (ug/L)   | Area   | Height |
| 3.867    | 3.875    | DICHLORODIFLUOROMETH      | 6.7911   | 76466  | 10743  |
| 4.042    | 4.044    | CHLOROMETHANE             | 9.1361   | 79269  | 12994  |
| 4.363    | 4.369    | VINYL CHLORIDE            | 6.2293   | 144305 | 19605  |
| 4.835    | 4.840    | BROMOMETHANE              | 6.3969   | 77695  | 14529  |
| 5.037    | 5.043    | CHLOROETHANE              | 7.1489   | 146354 | 22859  |
| 5.895    | 5.902    | TRICHLOROFLUOROMETHA      | 6.2188   | 201184 | 14148  |
| 6.813    | 6.821    | 1,1-DICHLOROETHENE        | 6.2613   | 161286 | 24834  |
| 7.121    | 7.127    | METHYLENE CHLORIDE        | 6.1951   | 256391 | 43774  |
| 7.302    | 7.309    | TRICHLOROTRIFLUOROET      | 6.3150   | 208674 | 19458  |
| 8.634    | 8.638    | TRANS-1,2-DICHLOROET      | 6.1260   | 240889 | 33605  |
| 9.281    | 9.286    | 1,1-DICHLOROETHANE        | 6.0251   | 262307 | 28895  |
| 11.068   | 11.072   | CIS-1,2-DICHLOROETHE      | 6.1568   | 234314 | 27222  |
| 11.587   | 11.592   | BROMOCHLOROMETHANE        | 5.8879   | 157153 | 19203  |
| 11.841   | 11.845   | CHLOROFORM                | 5.9662   | 306588 | 32948  |
| 12.089   | 12.091   | 2,2-DICHLOROPROPANE       | 6.0251   | 236632 | 17531  |
| 14.261   | 14.264   | 1,2-DICHLOROETHANE        | 6.2724   | 204838 | 25397  |
| 14.575   | 14.577   | 1,1,1-TRICHLOROETHAN      | 5.9495   | 289682 | 26789  |
| 15.337   | 15.339   | 1,1-DICHLOROPROPENE       | 6.3026   | 207073 | 23620  |
| 15.856   | 15.858   | CARBON TETRACHLORIDE      | 5.9732   | 332840 | 32965  |
| 18.067   | 18.070   | DIBROMOMETHANE            | 5.6381   | 89666  | 15270  |
| 18.236   | 18.238   | 1,2-DICHLOROPROPANE       | 6.0640   | 198344 | 30647  |
| 18.392   | 18.393   | TRICHLOROETHENE           | 6.2480   | 255062 | 43601  |
| 18.499   | 18.500   | BROMODICHLOROMETHANE      | 5.9282   | 261995 | 36295  |
| 19.880   | 19.883   | 2-CHLOROETHYL VINYL       | 20.3889  | 210343 | 40003  |
| 20.227   | 20.229   | CIS-1,3-DICHLOROPROP      | 6.0253   | 218957 | 39446  |
| 21.182   | 21.185   | TRANS-1,3-DICHLOROPR      | 6.0214   | 170776 | 37967  |
| 21.410   | 21.411   | 1,1,2-TRICHLOROETHAN      | 6.2540   | 229975 | 46031  |
| 21.871   | 21.874   | 1,3-DICHLOROPROPANE       | 6.4454   | 180811 | 38514  |
| 22.255   | 22.258   | DIBROMOCHLOROMETHANE      | 5.9183   | 153554 | 31383  |
| 22.650   | 22.655   | 1,2-DIBROMOETHANE         | 5.8542   | 96665  | 19973  |
| 22.973   | 22.975   | TETRACHLOROETHENE         | 6.3506   | 276721 | 61600  |
| 23.922   | 23.924   | 1,1,1,2-TETRACHLOROE      | 6.2300   | 247800 | 65349  |
| 24.020   | 24.023   | CHLOROBENZENE             | 6.3709   | 142402 | 30287  |
| 24.703   | 24.706   | BROMOFORM                 | 5.8242   | 97341  | 19716  |
| 25.190   | 25.193   | 1,1,2,2-TETRACHLOROE      | 6.3035   | 147849 | 35634  |
| 25.394   | 25.397   | 1,2,3-TRICHLOROPROPA      | 6.2163   | 136165 | 27903  |
| 26.061   | 26.065   | BROMOBENZENE              | 5.9971   | 74331  | 14907  |
| 26.509   | 26.512   | 2-CHLOROTOLUENE           | 6.3459   | 84626  | 21453  |
| 26.628   | 26.631   | 4-CHLOROTOLUENE           | 6.2582   | 96793  | 21699  |
| 27.713   | 27.716   | 1,3-DICHLOROBENZENE       | 6.3324   | 126897 | 31803  |
| 27.827   | 27.830   | 1,4-DICHLOROBENZENE       | 6.3800   | 165086 | 34111  |
| 28.438   | 28.442   | 1,2-DICHLOROBENZENE       | 6.3046   | 146568 | 30507  |
| 29.325   | 29.330   | 1,2-DIBROMO-3-CHLORO      | 5.6735   | 38805  | 5744   |
| 30.123   | 30.127   | SURR-1B4CB-H              | 35.8508  | 534372 | 105963 |
| 32.580   | 32.585   | 1,2,4-TRICHLOROBENZE      | 6.1486   | 127629 | 21342  |
| 33.543   | 33.548   | HEXACHLOROBUTADIENE       | 5.8543   | 173638 | 25550  |
| 33.969   | 33.974   | 1,2,3-TRICHLOROBENZE      | 6.1148   | 130738 | 18027  |
|          |          | TOTAL 1,2-DICHLOROETHENE: | 12.2828  |        |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 119.5025%



Sample name: CALSTD3

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365.05R

Reviewed by: PKS

Verified by: SKP Loff

Date: 12-31-01

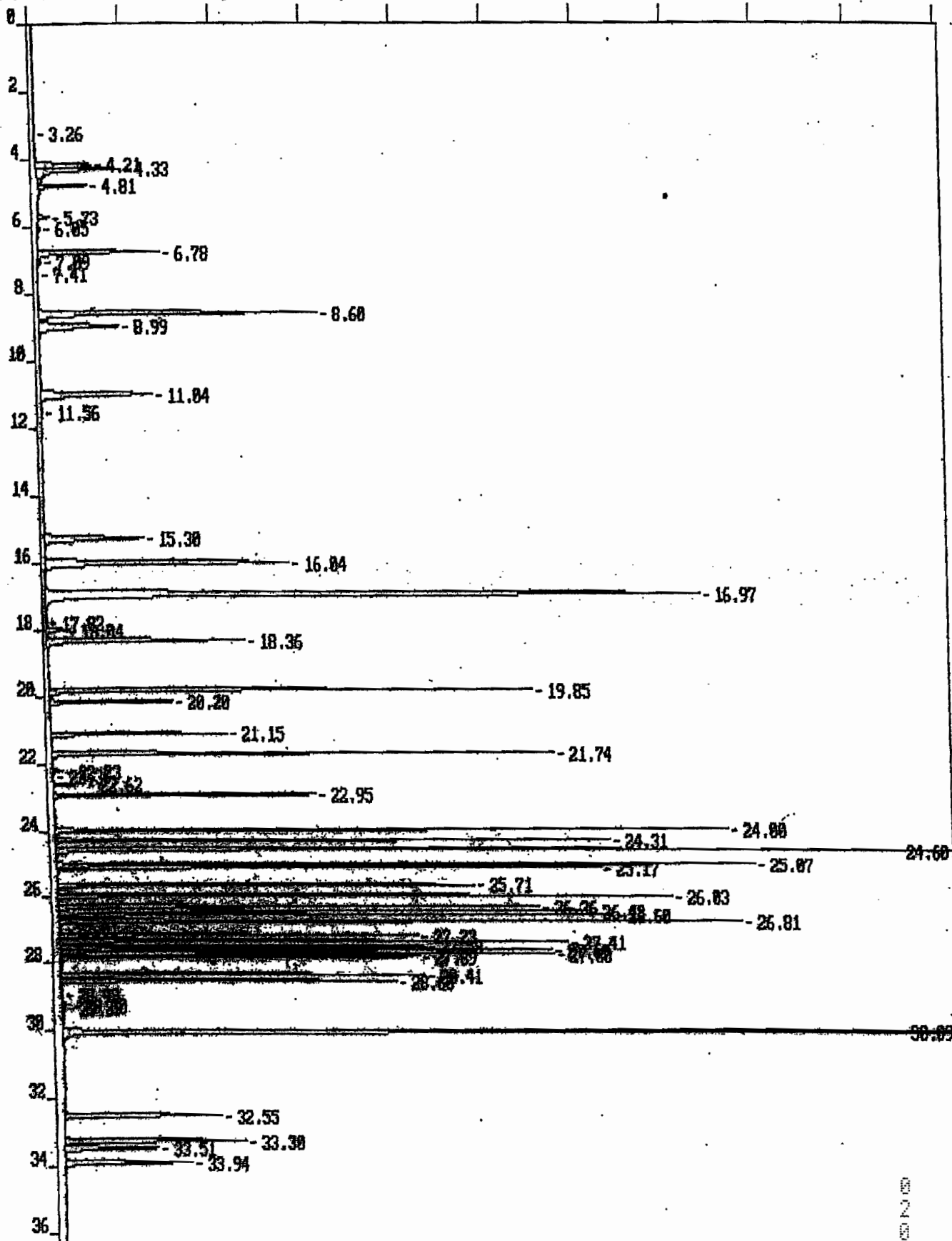
Date: 12-31-01

File=C:\CP\DATA\183658.05R Date printed=12-31-2001 Time= 04:53:47

Sample Name=CALSTD3

01365A188400,8401,8464

0.0 to 37.0 min. Low Y=-0.001 High Y=14.999 mv Span=15.0



Sample Name: CALSTD3

Batch: 01365A18

Date Taken: Dec 31, 2001 04:52:12

Raw File: C:\CP\DATA1\18365B.05R

Area File: C:\CP\DATA1\18365B.05A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap

Inst. ID#05843 - 5890#18PID

Peak width: .04

Dil. factor: 1

Analyst: 115

Threshold: -1

Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 4 ):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.333    | 4.339    | VINYL CHLORIDE       | 3.9707   | 9846   | 1379   |
| 6.783    | 6.791    | 1,1-DICHLOROETHENE   | 4.8335   | 10551  | 2008   |
| 8.604    | 8.608    | TRANS-1,2-DICHLOROET | 4.8231   | 26233  | 4608   |
| 8.991    | 8.994    | METHYL T-BUTYL ETHER | 4.7626   | 11442  | 1325   |
| 11.036   | 11.039   | CIS-1,2-DICHLOROETHE | 4.7891   | 13678  | 1853   |
| 15.304   | 15.305   | 1,1-DICHLOROPROPENE  | 4.8261   | 12214  | 1644   |
| 16.038   | 16.038   | BENZENE              | 4.8309   | 29348  | 4056   |
| 16.971   | 16.972   | ISTD-FBENZENE        | 1.0000   | 82303  | 10847  |
| 18.362   | 18.364   | TRICHLOROETHENE      | 4.8440   | 17535  | 3302   |
| 19.852   | 19.854   | 2-CHLOROETHYL VINYL  | 15.9861  | 32321  | 8054   |
| 20.199   | 20.201   | CIS-1,3-DICHLOROPROP | 4.8155   | 7887   | 2053   |
| 21.154   | 21.156   | TRANS-1,3-DICHLOROPR | 4.7763   | 9878   | 2944   |
| 21.740   | 21.741   | TOLUENE              | 4.9026   | 28069  | 8356   |
| 22.947   | 22.949   | TETRACHLOROETHENE    | 4.8333   | 13367  | 4365   |
| 23.996   | 23.998   | CHLOROBENZENE        | 4.8684   | 29121  | 11187  |
| 24.311   | 24.312   | ETHYLBENZENE         | 4.9023   | 24983  | 9214   |
| 24.602   | 24.604   | M,P-XYLENE           | 9.8417   | 58485  | 18353  |
| 25.068   | 25.071   | STYRENE              | 4.8905   | 31308  | 11628  |
| 25.170   | 25.172   | O-XYLENE             | 4.8821   | 25697  | 9045   |
| 25.713   | 25.715   | ISOPROPYLBENZENE     | 4.9081   | 20806  | 6954   |
| 26.032   | 26.034   | BROMOBENZENE         | 4.8338   | 29554  | 10248  |
| 26.359   | 26.361   | N-PROPYLBENZENE      | 4.8855   | 23228  | 8021   |
| 26.483   | 26.485   | 2-CHLOROTOLUENE      | 4.8852   | 25759  | 8810   |
| 26.602   | 26.604   | 4-CHLOROTOLUENE      | 4.8635   | 26381  | 9253   |
| 26.806   | 26.809   | 1,3,5-TRIMETHYLBENZE | 4.8952   | 34008  | 11373  |
| 27.229   | 27.232   | TERT-BUTYLBENZENE    | 4.8842   | 19779  | 5993   |
| 27.411   | 27.414   | 1,2,4-TRIMETHYLBENZE | 4.8859   | 25847  | 8480   |
| 27.579   | 27.582   | SEC-BUTYLBENZENE     | 4.8557   | 20319  | 6105   |
| 27.686   | 27.688   | 1,3-DICHLOROBENZENE  | 4.8420   | 25404  | 8200   |
| 27.801   | 27.804   | 1,4-DICHLOROBENZENE  | 4.8529   | 25134  | 8223   |
| 27.886   | 27.889   | P-ISOPROPYLTOLUENE   | 4.8620   | 19523  | 5991   |
| 28.411   | 28.414   | 1,2-DICHLOROBENZENE  | 4.7830   | 20301  | 6091   |
| 28.598   | 28.602   | N-BUTYLBENZENE       | 4.7888   | 19399  | 5620   |
| 30.094   | 30.098   | SURR-1B4CB-P         | 28.4200  | 149043 | 39607  |
| 32.550   | 32.555   | 1,2,4-TRICHLOROBENZE | 4.7036   | 12430  | 2633   |
| 33.296   | 33.301   | NAPHTHALENE          | 4.7161   | 15044  | 3060   |
| 33.511   | 33.520   | HEXACHLOROBUTADIENE  | 4.6026   | 8939   | 1574   |
| 33.937   | 33.943   | 1,2,3-TRICHLOROBENZE | 4.5965   | 11285  | 2141   |

XYLENES (Total): 14.7239

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene

94.7334%

Chrom Perfect version 6.07

Reported on 12-31-2001 at 04:55:15

#### CALIBRATION UPDATE REPORT

Calibration file = C:\CP\DATA1\P18365.CAL Current version number = 4

Updated from file = C:\CP\DATA1\18365B.05A

Amount injected = 1

Standard amount injected = 1

Calibration level = 3 Replace old values with new

Number of runs since last replace = 0

Update to both retention time and area

Sample name: CALSTD3

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365B.05R

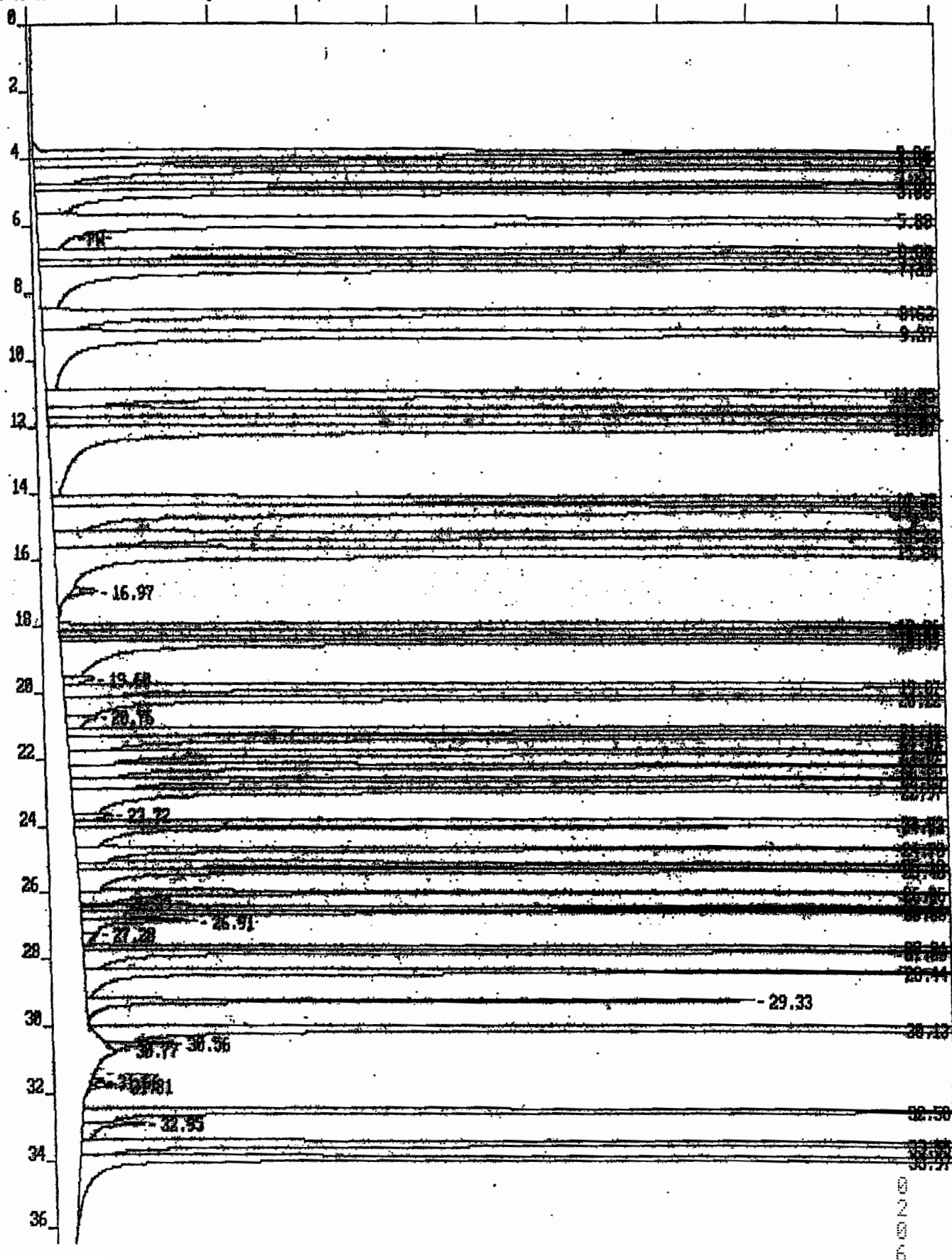
Reviewed by: TRW

Verified by: S/CPW

Date: 12-31-01

Date: 12-31-01

File=C:\CP\DATA1\18365.06R Date printed=12-31-2001 Time= 05:35:06  
Sample Name=CALSTD4 01365A189400,8401,8464  
0.0 to 37.0 min. Low Y=0.01 High Y=15.01 mv Span=15.0



Sample Name: CALSTD4

Batch: 01365A18

Date Taken: Dec 31, 2001 05:35:00

Raw File: C:\CP\DATA1\18365.06R

Area File: C:\CP\DATA1\18365.06A

Method File: C:\CP\DATA1\18365.MET(version 2)

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 5):

| Ret Time | Expected |                           | Amount * | Peak   | Peak   |
|----------|----------|---------------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name                 | (ug/L)   | Area   | Height |
| 3.861    | 3.867    | DICHLORODIFLUOROMETH      | 11.5670  | 139322 | 19615  |
| 4.041    | 4.042    | CHLOROMETHANE             | 13.7642  | 136726 | 22769  |
| 4.363    | 4.363    | VINYL CHLORIDE            | 11.0204  | 262016 | 36095  |
| 4.831    | 4.835    | BROMOMETHANE              | 11.3711  | 144159 | 27150  |
| 5.031    | 5.037    | CHLOROETHANE              | 12.3304  | 262780 | 42762  |
| 5.885    | 5.895    | TRICHLOROFLUOROMETHA      | 11.3387  | 370530 | 26856  |
| 6.804    | 6.813    | 1,1-DICHLOROETHENE        | 11.5820  | 305222 | 47933  |
| 7.113    | 7.121    | METHYLENE CHLORIDE        | 11.0546  | 475324 | 81989  |
| 7.294    | 7.302    | TRICHLOROTRIFLUOROET      | 11.3877  | 379205 | 36766  |
| 8.623    | 8.634    | TRANS-1,2-DICHLOROET      | 11.4713  | 455692 | 65100  |
| 9.270    | 9.281    | 1,1-DICHLOROETHANE        | 11.2141  | 484905 | 55360  |
| 11.054   | 11.068   | CIS-1,2-DICHLOROETHE      | 11.4586  | 448230 | 52494  |
| 11.571   | 11.587   | BROMOCHLOROMETHANE        | 11.2683  | 307282 | 37745  |
| 11.827   | 11.841   | CHLOROFORM                | 11.1711  | 583081 | 63287  |
| 12.073   | 12.089   | 2,2-DICHLOROPROPANE       | 11.3042  | 446094 | 33878  |
| 14.246   | 14.261   | 1,2-DICHLOROETHANE        | 12.0147  | 405491 | 50670  |
| 14.562   | 14.575   | 1,1,1-TRICHLOROETHAN      | 11.3625  | 554646 | 52436  |
| 15.323   | 15.337   | 1,1-DICHLOROPROPENE       | 11.9558  | 400262 | 46641  |
| 15.843   | 15.856   | CARBON TETRACHLORIDE      | 11.3298  | 635242 | 63891  |
| 18.057   | 18.067   | DIBROMOMETHANE            | 11.3097  | 182388 | 31181  |
| 18.230   | 18.236   | 1,2-DICHLOROPROPANE       | 11.4476  | 389856 | 59520  |
| 18.384   | 18.392   | TRICHLOROETHENE           | 11.5538  | 488758 | 83644  |
| 18.493   | 18.499   | BROMODICHLOROMETHANE      | 11.1167  | 479290 | 69772  |
| 19.874   | 19.880   | 2-CHLOROETHYL VINYL       | 38.6026  | 402704 | 78680  |
| 20.223   | 20.227   | CIS-1,3-DICHLOROPROP      | 11.3990  | 393477 | 76464  |
| 21.179   | 21.182   | TRANS-1,3-DICHLOROPR      | 11.5206  | 326685 | 74190  |
| 21.407   | 21.410   | 1,1,2-TRICHLOROETHAN      | 11.6048  | 425816 | 88246  |
| 21.870   | 21.871   | 1,3-DICHLOROPROPANE       | 11.9901  | 337210 | 74666  |
| 22.254   | 22.255   | DIBROMOCHLOROMETHANE      | 11.2238  | 282530 | 60888  |
| 22.648   | 22.650   | 1,2-DIBROMOETHANE         | 11.1423  | 179204 | 38959  |
| 22.973   | 22.973   | TETRACHLOROETHENE         | 11.4760  | 510656 | 115786 |
| 23.923   | 23.922   | 1,1,1,2-TETRACHLOROE      | 11.2015  | 459269 | 121250 |
| 24.021   | 24.020   | CHLOROBENZENE             | 11.2785  | 244831 | 55839  |
| 24.702   | 24.703   | BROMOFORM                 | 11.0467  | 174911 | 38242  |
| 25.191   | 25.190   | 1,1,2,2-TETRACHLOROE      | 11.2783  | 268837 | 66267  |
| 25.395   | 25.394   | 1,2,3-TRICHLOROPROPA      | 11.0625  | 232247 | 51410  |
| 26.061   | 26.061   | BROMOBENZENE              | 11.4045  | 132205 | 29250  |
| 26.510   | 26.509   | 2-CHLOROTOLUENE           | 11.8434  | 160869 | 41801  |
| 26.629   | 26.628   | 4-CHLOROTOLUENE           | 11.7151  | 179071 | 42238  |
| 27.713   | 27.713   | 1,3-DICHLOROBENZENE       | 11.5366  | 236008 | 60401  |
| 27.828   | 27.827   | 1,4-DICHLOROBENZENE       | 11.3958  | 289721 | 63655  |
| 28.440   | 28.438   | 1,2-DICHLOROBENZENE       | 11.4287  | 266768 | 57647  |
| 29.326   | 29.325   | 1,2-DIBROMO-3-CHLORO      | 10.7564  | 60650  | 11120  |
| 30.125   | 30.123   | SURR-1B4CB-H              | 43.7339  | 664960 | 134073 |
| 32.584   | 32.580   | 1,2,4-TRICHLOROBENZE      | 11.3801  | 238631 | 41184  |
| 33.548   | 33.543   | HEXACHLOROBUTADIENE       | 10.9251  | 325717 | 49003  |
| 33.973   | 33.969   | 1,2,3-TRICHLOROBENZE      | 11.3305  | 240880 | 34863  |
|          |          | TOTAL 1,2-DICHLOROETHENE: | 22.9300  |        |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 145.7795%

5  
2  
8  
7

Sample name: CALSTD4

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365.06R

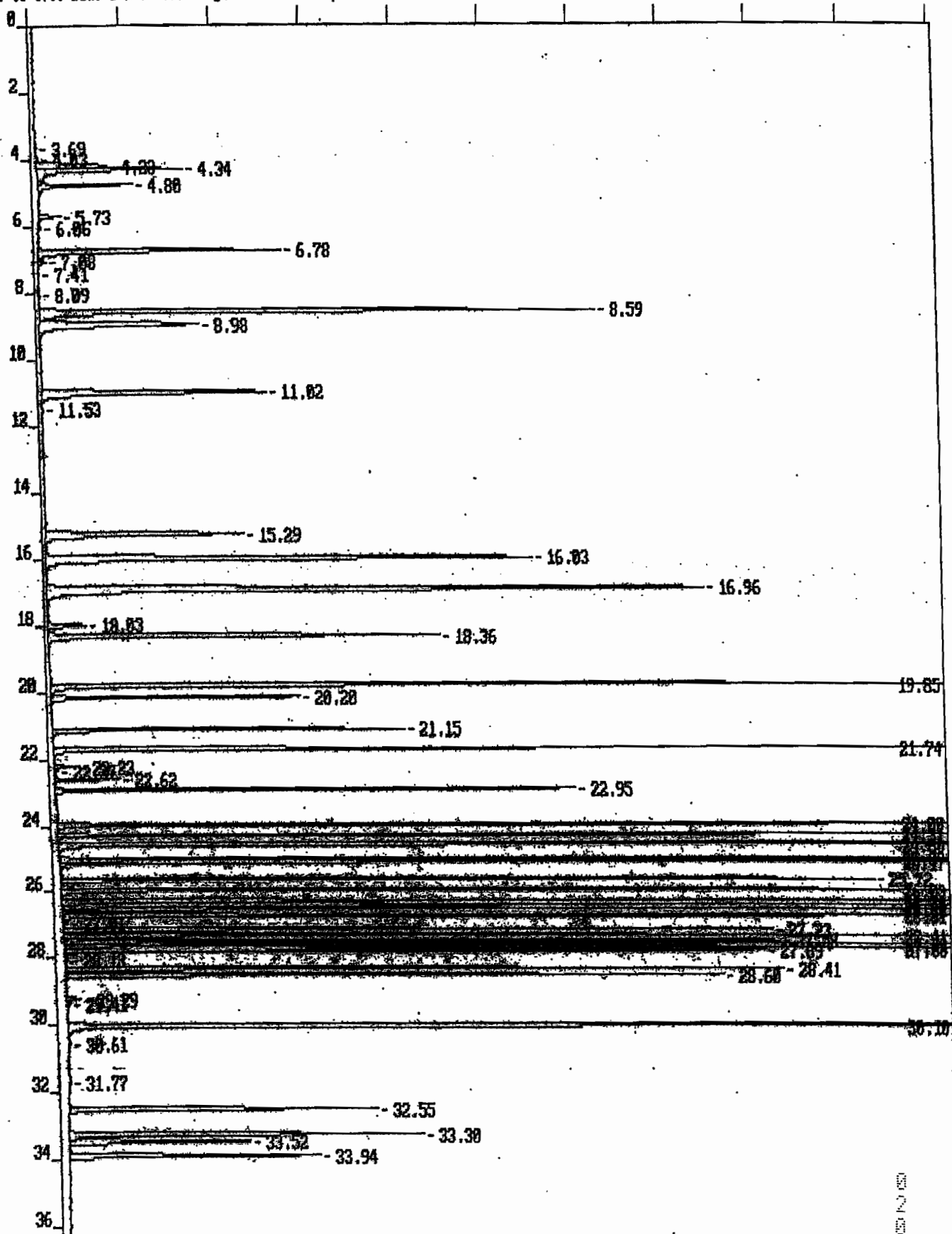
Reviewed by: TB us

Verified by: SKP Loff

Date: 12-31-01

Date: 12-31-01

File=C:\CP\DATA\183658.06R Date printed=12-31-2001 Time= 05:36:36  
 Sample Name=CALSTD4 01365A188400,8401,8464  
 0.0 to 37.0 min. Low Y=0.005 High Y=15.005 mv Span=15.0





Sample Name: CALSTD4

Batch: 01365A18

Date Taken: Dec 31, 2001 05:35:00

Raw File: C:\CP\DATA1\18365B.06R

Area File: C:\CP\DATA1\18365B.06A

Method File: C:\CP\DATA1\18365B.MET(version 2)

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04

Dil. factor: 1

Analyst: 115

Threshold: -1

Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 5):

| Ret Time | Expected | Amount *             | Peak    | Peak   |       |
|----------|----------|----------------------|---------|--------|-------|
| (min)    | RT (min) | (ug/L)               | Area    | Height |       |
| 4.336    | 4.333    | VINYL CHLORIDE       | 6.9444  | 16515  | 2426  |
| 6.775    | 6.783    | 1,1-DICHLOROETHENE   | 9.6904  | 21032  | 4045  |
| 8.593    | 8.604    | TRANS-1,2-DICHLOROET | 9.6487  | 52713  | 9267  |
| 8.983    | 8.991    | METHYL T-BUTYL ETHER | 9.4708  | 23221  | 2652  |
| 11.023   | 11.036   | CIS-1,2-DICHLOROETHE | 9.5776  | 27606  | 3729  |
| 15.293   | 15.304   | 1,1-DICHLOROPROPENE  | 9.6071  | 24306  | 3291  |
| 16.025   | 16.038   | BENZENE              | 9.6334  | 58468  | 8130  |
| 16.961   | 16.971   | ISTD-FBENZENE        | 1.0000  | 83137  | 10998 |
| 18.356   | 18.362   | TRICHLOROETHENE      | 9.5395  | 34335  | 6541  |
| 19.846   | 19.852   | 2-CHLOROETHYL VINYL  | 31.7589 | 64581  | 16077 |
| 20.196   | 20.199   | CIS-1,3-DICHLOROPROP | 9.6854  | 15919  | 4152  |
| 21.151   | 21.154   | TRANS-1,3-DICHLOROPR | 9.5402  | 19688  | 5902  |
| 21.738   | 21.740   | TOLUENE              | 9.6611  | 55564  | 16553 |
| 22.947   | 22.947   | TETRACHLOROETHENE    | 9.5793  | 26609  | 8712  |
| 23.997   | 23.996   | CHLOROBENZENE        | 9.6080  | 57666  | 22220 |
| 24.312   | 24.311   | ETHYLBENZENE         | 9.6420  | 49272  | 18233 |
| 24.603   | 24.602   | M,P-XYLENE           | 19.2648 | 115252 | 36140 |
| 25.070   | 25.068   | STYRENE              | 9.6511  | 62091  | 23085 |
| 25.171   | 25.170   | O-XYLENE             | 9.7117  | 51517  | 18092 |
| 25.715   | 25.713   | ISOPROPYLBENZENE     | 9.6085  | 40949  | 13700 |
| 26.033   | 26.032   | BROMOBENZENE         | 9.5589  | 58335  | 20395 |
| 26.361   | 26.359   | N-PROPYLBENZENE      | 9.5422  | 45699  | 15777 |
| 26.484   | 26.483   | 2-CHLOROTOLUENE      | 9.5982  | 50791  | 17414 |
| 26.603   | 26.602   | 4-CHLOROTOLUENE      | 9.5732  | 52047  | 18342 |
| 26.807   | 26.806   | 1,3,5-TRIMETHYLBENZE | 9.5908  | 66749  | 22433 |
| 27.231   | 27.229   | TERT-BUTYLBENZENE    | 9.6402  | 39100  | 11897 |
| 27.412   | 27.411   | 1,2,4-TRIMETHYLBENZE | 9.5844  | 51000  | 16736 |
| 27.581   | 27.579   | SEC-BUTYLBENZENE     | 9.5065  | 39847  | 12025 |
| 27.687   | 27.686   | 1,3-DICHLOROBENZENE  | 9.4788  | 50204  | 16170 |
| 27.802   | 27.801   | 1,4-DICHLOROBENZENE  | 9.5361  | 50150  | 16292 |
| 27.888   | 27.886   | P-ISOPROPYLTOLUENE   | 9.4792  | 37956  | 11758 |
| 28.412   | 28.411   | 1,2-DICHLOROBENZENE  | 9.3980  | 39831  | 12049 |
| 28.600   | 28.598   | N-BUTYLBENZENE       | 9.3482  | 37781  | 11051 |
| 30.097   | 30.094   | SURR-1B4CB-P         | 38.1926 | 201016 | 53624 |
| 32.555   | 32.550   | 1,2,4-TRICHLOROBENZE | 9.1860  | 24538  | 5188  |
| 33.302   | 33.296   | NAPHTHALENE          | 9.0687  | 29167  | 5940  |
| 33.518   | 33.511   | HEXACHLOROBUTADIENE  | 8.8875  | 17200  | 3049  |
| 33.944   | 33.937   | 1,2,3-TRICHLOROBENZE | 8.9547  | 22185  | 4204  |

XYLENES (Total): 28.9766

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 127.3088%

Chrom Perfect version 6.07

Reported on 12-31-2001at 05:38:05

#### CALIBRATION UPDATE REPORT

Calibration file = C:\CP\DATA1\P18365.CAL Current version number = 5

Updated from file = C:\CP\DATA1\18365B.06A

Amount injected = 1

Standard amount injected = 1

Calibration level = 4 Replace old values with new

Number of runs since last replace = 0

Update to both retention time and area

Sample name: CALSTD4

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365B.06R

Reviewed by:

TS

Verified by:

SLP

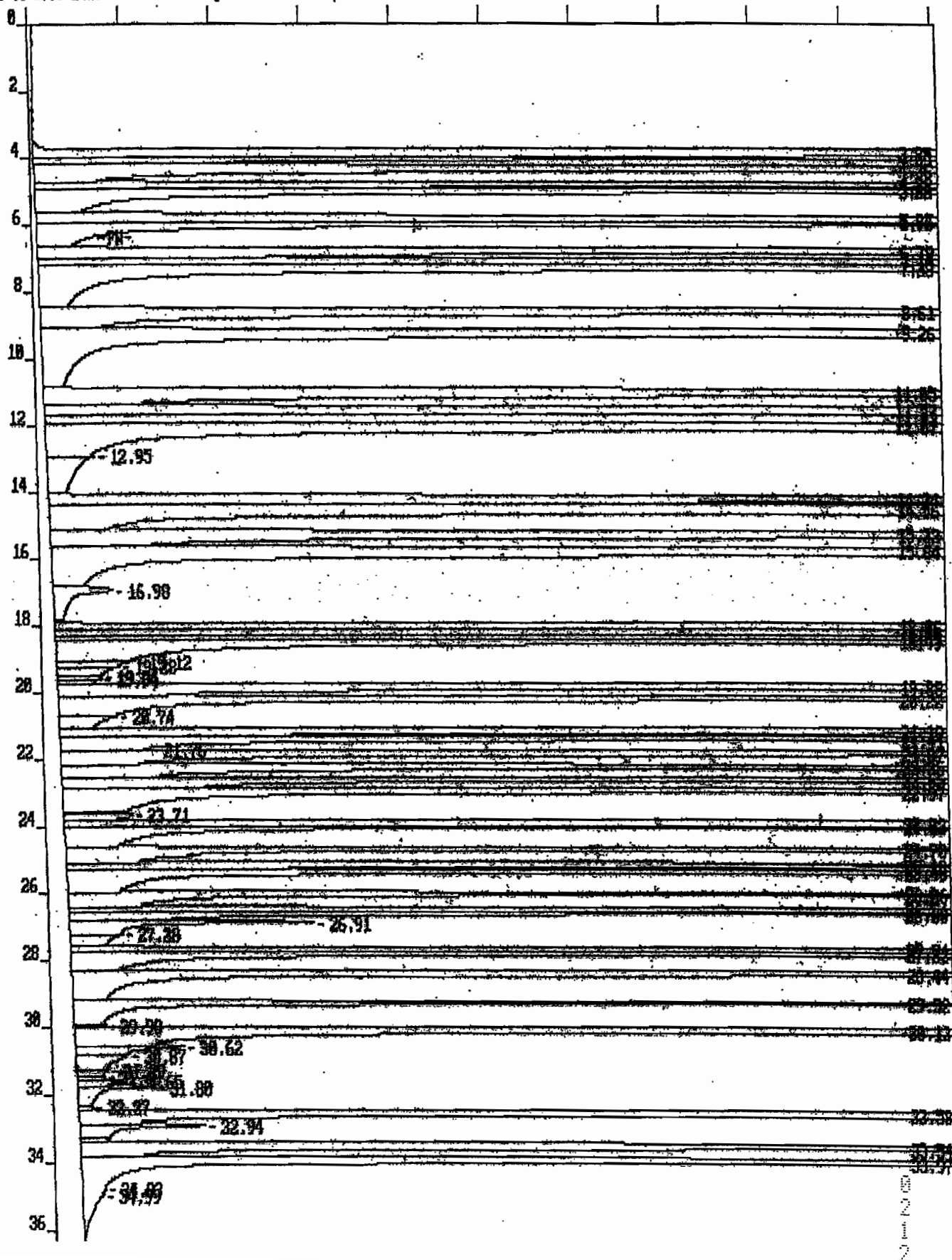
Date:

12-31-01

Date:

12-31-01

File=C:\CP\DATA1\18365.07R Date printed=12-31-2001 Time= 06:18:18  
 Sample Name=CALSTD5 01365A188400,8401,8464  
 0.0 to 37.0 min. Low Y=0.018 High Y=15.018 mv Span=15.0



Sample Name: CALSTD5

Batch: 01365A18

Date Taken: Dec 31, 2001 06:18:14

Raw File: C:\CP\DATA1\18365.07R

Area File: C:\CP\DATA1\18365.07A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SQ/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 6 ):

| Ret Time | Expected |                           | Amount * | Peak    | Peak   |
|----------|----------|---------------------------|----------|---------|--------|
| (min)    | RT (min) | Peak Name                 | (ug/L)   | Area    | Height |
| 3.847    | 3.861    | DICHLORODIFLUOROMETH      | 22.3138  | 282366  | 39650  |
| 4.035    | 4.041    | CHLOROMETHANE             | 21.6536  | 250739  | 40151  |
| 4.359    | 4.363    | VINYL CHLORIDE            | 19.9973  | 489100  | 67692  |
| 4.821    | 4.831    | BROMOMETHANE              | 20.5357  | 275445  | 50999  |
| 5.018    | 5.031    | CHLOROETHANE              | 22.2300  | 498144  | 82356  |
| 5.873    | 5.885    | TRICHLOROFLUOROMETHA      | 19.2909  | 300324  | 46791  |
| 6.793    | 6.804    | 1,1-DICHLOROETHENE        | 20.6136  | 574348  | 88470  |
| 7.101    | 7.113    | METHYLENE CHLORIDE        | 19.3771  | 891560  | 149507 |
| 7.282    | 7.294    | TRICHLOROTRIFLUOROET      | 20.4582  | 693880  | 68584  |
| 8.611    | 8.623    | TRANS-1,2-DICHLOROET      | 21.0604  | 857497  | 123282 |
| 9.260    | 9.270    | 1,1-DICHLOROETHANE        | 20.9982  | 911995  | 105997 |
| 11.047   | 11.054   | CIS-1,2-DICHLOROETHE      | 21.2892  | 848667  | 100220 |
| 11.566   | 11.571   | BROMOCHLOROMETHANE        | 20.9810  | 582485  | 71920  |
| 11.822   | 11.827   | CHLOROFORM                | 20.5205  | 1101948 | 118933 |
| 12.070   | 12.073   | 2,2-DICHLOROPROPANE       | 19.7036  | 768743  | 60508  |
| 14.245   | 14.246   | 1,2-DICHLOROETHANE        | 21.6282  | 759919  | 94853  |
| 14.562   | 14.562   | 1,1,1-TRICHLOROETHAN      | 20.3912  | 1015978 | 96193  |
| 15.323   | 15.323   | 1,1-DICHLOROPROPENE       | 21.0685  | 733299  | 85443  |
| 15.844   | 15.843   | CARBON TETRACHLORIDE      | 20.3817  | 1154496 | 117737 |
| 18.058   | 18.057   | DIBROMOMETHANE            | 21.0639  | 346039  | 59507  |
| 18.230   | 18.230   | 1,2-DICHLOROPROPANE       | 21.1852  | 732976  | 113101 |
| 18.386   | 18.384   | TRICHLOROETHENE           | 20.2147  | 891434  | 151234 |
| 18.494   | 18.493   | BROMODICHLOROMETHANE      | 20.4577  | 875329  | 131533 |
| 19.876   | 19.874   | 2-CHLOROETHYL VINYL       | 69.3340  | 753730  | 146925 |
| 20.224   | 20.223   | CIS-1,3-DICHLOROPROP      | 20.9788  | 735117  | 143865 |
| 21.180   | 21.179   | TRANS-1,3-DICHLOROPR      | 21.1012  | 613374  | 139197 |
| 21.409   | 21.407   | 1,1,2-TRICHLOROETHAN      | 20.6199  | 772813  | 162121 |
| 21.871   | 21.870   | 1,3-DICHLOROPROPANE       | 20.9848  | 614024  | 136427 |
| 22.254   | 22.254   | DIBROMOCHLOROMETHANE      | 21.2200  | 540691  | 117780 |
| 22.649   | 22.648   | 1,2-DIBROMOETHANE         | 21.1847  | 345019  | 75740  |
| 22.974   | 22.973   | TETRACHLOROETHENE         | 20.5198  | 937280  | 213583 |
| 23.924   | 23.923   | 1,1,1,2-TETRACHLOROE      | 21.1542  | 877094  | 234179 |
| 24.022   | 24.021   | CHLOROBENZENE             | 21.0048  | 463688  | 107553 |
| 24.702   | 24.702   | BROMOFORM                 | 21.4926  | 344105  | 75917  |
| 25.191   | 25.191   | 1,1,2,2-TETRACHLOROE      | 20.5318  | 507413  | 125069 |
| 25.395   | 25.395   | 1,2,3-TRICHLOROPROPA      | 21.0107  | 449391  | 100620 |
| 26.061   | 26.061   | BROMOBENZENE              | 22.1641  | 264861  | 58309  |
| 26.510   | 26.510   | 2-CHLOROTOLUENE           | 22.0977  | 312517  | 80978  |
| 26.629   | 26.629   | 4-CHLOROTOLUENE           | 21.6894  | 340942  | 81041  |
| 27.713   | 27.713   | 1,3-DICHLOROBENZENE       | 21.7206  | 460257  | 117702 |
| 27.828   | 27.828   | 1,4-DICHLOROBENZENE       | 21.2217  | 558148  | 122697 |
| 28.439   | 28.440   | 1,2-DICHLOROBENZENE       | 21.9603  | 536186  | 114588 |
| 29.324   | 29.326   | 1,2-DIBROMO-3-CHLORO      | 22.5011  | 142401  | 23814  |
| 30.124   | 30.125   | SURR-1B4CB-H              | 54.3021  | 860506  | 171097 |
| 32.579   | 32.584   | 1,2,4-TRICHLOROBENZE      | 21.3420  | 462840  | 79739  |
| 33.544   | 33.548   | HEXACHLOROBUTADIENE       | 19.2651  | 588735  | 88068  |
| 33.969   | 33.973   | 1,2,3-TRICHLOROBENZE      | 21.2739  | 470813  | 67695  |
|          |          | TOTAL 1,2-DICHLOROETHENE: | 42.3497  |         |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 181.0070%

0  
2  
1  
5

Sample name: CALSTD5

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365.07R

Reviewed by:

TB 26

Verified by:

SKP 1088

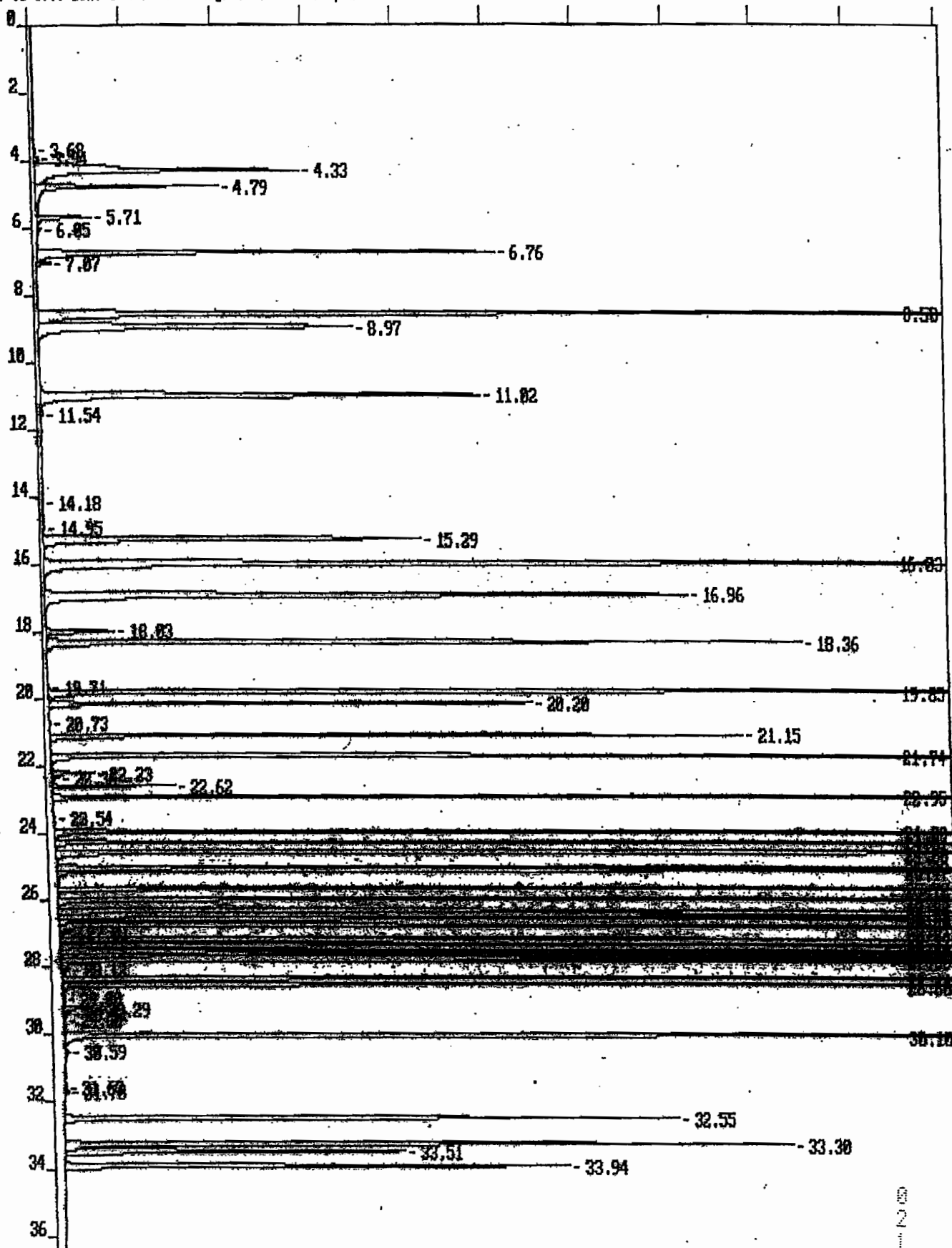
Date:

12-31-01

Date:

12-31-01

File=C:\CP\DATA\183658.07R Date printed=12-31-2001 Time= 06:19:47  
Sample Name=CALSTD5 01365A188400,8401,8464  
0.0 to 37.0 min. Low Y=0.013 High Y=15.013 mv Span=15.0



Sample Name: CALSTD5

Batch: 01365A18

Date Taken: Dec 31, 2001 06:18:14

Raw File: C:\CP\DATA1\18365B.07R

Area File: C:\CP\DATA1\18365B.07A

Method File: C:\CP\DATA1\18365B.MET(version 2)

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 6):

| Ret Time | Expected | Amount * | Peak   | Peak   |
|----------|----------|----------|--------|--------|
| (min)    | RT (min) | (ug/L)   | Area   | Height |
| 4.331    | 4.336    | 12.8694  | 39240  | 4361   |
| 6.765    | 6.775    | 18.9124  | 40830  | 7579   |
| 8.582    | 8.593    | 19.5042  | 103120 | 18018  |
| 8.972    | 8.983    | 19.2191  | 45866  | 5204   |
| 11.017   | 11.023   | 19.4263  | 53882  | 7276   |
| 15.293   | 15.293   | 18.9719  | 46369  | 6258   |
| 16.029   | 16.025   | 19.2872  | 112628 | 15676  |
| 16.962   | 16.961   | 1.0000   | 80543  | 10671  |
| 18.357   | 18.356   | 18.9620  | 65074  | 12540  |
| 19.848   | 19.846   | 63.1644  | 124291 | 30930  |
| 20.198   | 20.196   | 19.4024  | 30407  | 8032   |
| 21.153   | 21.151   | 19.3073  | 38101  | 11533  |
| 21.739   | 21.738   | 19.1153  | 106353 | 31575  |
| 22.949   | 22.947   | 18.9911  | 50791  | 16683  |
| 23.999   | 23.997   | 19.2477  | 111027 | 42937  |
| 24.312   | 24.312   | 19.0690  | 94237  | 34797  |
| 24.604   | 24.603   | 38.1223  | 220811 | 69052  |
| 25.070   | 25.070   | 19.3145  | 119976 | 44588  |
| 25.172   | 25.171   | 19.5381  | 99853  | 35102  |
| 25.715   | 25.715   | 19.0919  | 77985  | 26255  |
| 26.033   | 26.033   | 19.2463  | 113124 | 39661  |
| 26.361   | 26.361   | 18.9204  | 87023  | 30187  |
| 26.484   | 26.484   | 19.2554  | 98044  | 33693  |
| 26.603   | 26.603   | 19.1994  | 100715 | 35528  |
| 26.808   | 26.807   | 18.9617  | 128253 | 42771  |
| 27.232   | 27.231   | 18.9618  | 74536  | 22577  |
| 27.413   | 27.412   | 19.1579  | 98621  | 32265  |
| 27.581   | 27.581   | 18.6139  | 75396  | 22706  |
| 27.687   | 27.687   | 19.3369  | 98026  | 31856  |
| 27.802   | 27.802   | 19.1704  | 97456  | 31672  |
| 27.888   | 27.888   | 18.6969  | 72816  | 22362  |
| 28.413   | 28.412   | 19.2090  | 78315  | 23773  |
| 28.600   | 28.600   | 18.2382  | 71711  | 20785  |
| 30.096   | 30.097   | 49.3573  | 251983 | 67001  |
| 32.550   | 32.555   | 18.8173  | 48574  | 10252  |
| 33.297   | 33.302   | 19.1668  | 59497  | 12141  |
| 33.515   | 33.518   | 17.2617  | 31999  | 5676   |
| 33.939   | 33.944   | 18.6275  | 44468  | 8427   |

XYLENES (Total): 57.6604

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 164.5243%

Chrom Perfect version 6.07

Reported on 12-31-2001 at 06:21:16

#### CALIBRATION UPDATE REPORT

Calibration file = C:\CP\DATA1\P18365.CAL Current version number = 6

Updated from file = C:\CP\DATA1\18365B.07A

Amount injected = 1

Standard amount injected = 1

Calibration level = 5 Replace old values with new

Number of runs since last replace = 0

Update to both retention time and area

Sample name: CALSTD5

Batch: 01365A188400,840

Raw file: C:\CP\DATA1\18365B.07R

Reviewed by: TKS

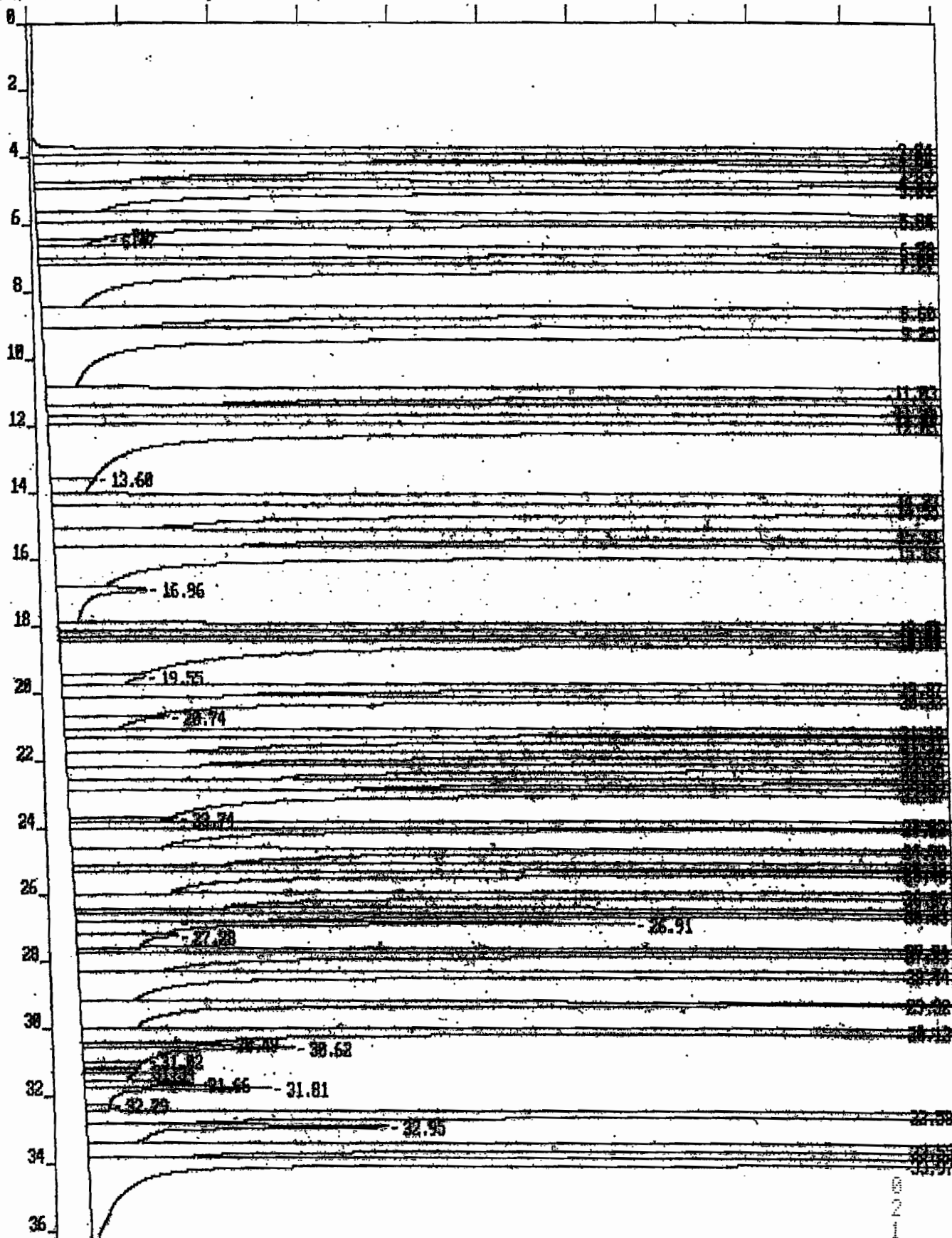
Verified by: SKP 088

Date: 12-31-01

Date: 12-31-01



File=C:\GP\DATA1\18365.08R Date printed=12-31-2001 Time= 07:01:15  
Sample Name=CALSTD6 01365A188400,8401,8464  
0.0 to 37.0 min. Low Y=0.04 High Y=15.04 mv Span=15.0



Sample Name: CALSTD6

Batch: 01365A18

Date Taken: Dec 31, 2001 07:01:10

Raw File: C:\CP\DATA1\18365.08R

Area File: C:\CP\DATA1\18365.08A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05

Dil. Factor: 1

Analyst: 115

Threshold: -3

Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 7 ):

Ret Time Expected

| (min) RT (min) | Peak Name                   | Amount *<br>(ug/L) | Peak<br>Area | Peak<br>Height |
|----------------|-----------------------------|--------------------|--------------|----------------|
| 3.836          | 3.847 DICHLORODIFLUOROMETH  | 39.6050            | 510632       | 73527          |
| 4.036          | 4.035 CHLOROMETHANE         | 32.2469            | 434070       | 64790          |
| 4.352          | 4.359 VINYL CHLORIDE        | 33.5576            | 915397       | 116227         |
| 4.814          | 4.821 BROMOMETHANE          | 38.0814            | 531425       | 97200          |
| 5.010          | 5.018 CHLOROETHANE          | 39.6293            | 927936       | 155228         |
| 5.859          | 5.873 TRICHLOROFLUOROMETHA  | 37.7689            | 665393       | 91851          |
| 6.782          | 6.793 1,1-DICHLOROETHENE    | 47.6277            | 1335041      | 209107         |
| 7.091          | 7.101 METHYLENE CHLORIDE    | 43.8496            | 2043485      | 346844         |
| 7.273          | 7.282 TRICHLOROTRIFLUOROET  | 43.4513            | 1507783      | 150290         |
| 8.599          | 8.611 TRANS-1,2-DICHLOROET  | 47.4658            | 1971031      | 284527         |
| 9.246          | 9.260 1,1-DICHLOROETHANE    | 47.4037            | 2070230      | 244492         |
| 11.030         | 11.047 CIS-1,2-DICHLOROETHE | 48.5502            | 1987471      | 234415         |
| 11.549         | 11.566 BROMOCHLOROMETHANE   | 49.2871            | 1401455      | 172260         |
| 11.805         | 11.822 CHLOROFORM           | 46.2539            | 2537817      | 272930         |
| 12.052         | 12.070 2,2-DICHLOROPROPANE  | 46.4775            | 1858731      | 145042         |
| 14.229         | 14.245 1,2-DICHLOROETHANE   | 49.2283            | 1800365      | 222673         |
| 14.547         | 14.562 1,1,1-TRICHLOROETHAN | 46.2659            | 2363053      | 221981         |
| 15.310         | 15.323 1,1-DICHLOROPROPENE  | 47.7306            | 1705900      | 199136         |
| 15.832         | 15.844 CARBON TETRACHLORIDE | 45.5774            | 2624753      | 267370         |
| 18.049         | 18.058 DIBROMOMETHANE       | 51.1749            | 872356       | 146808         |
| 18.223         | 18.230 1,2-DICHLOROPROPANE  | 47.7197            | 1714421      | 260854         |
| 18.378         | 18.386 TRICHLOROETHENE      | 46.0219            | 2077796      | 352205         |
| 18.487         | 18.494 BROMODICHLOROMETHANE | 46.2560            | 2032992      | 302613         |
| 19.871         | 19.876 2-CHLOROETHYL VINYL  | 101.3369           | 1128536      | 220783         |
| 20.220         | 20.224 CIS-1,3-DICHLOROPROP | 48.0943            | 1680651      | 335119         |
| 21.177         | 21.180 TRANS-1,3-DICHLOROPR | 48.7659            | 1436451      | 328100         |
| 21.406         | 21.409 1,1,2-TRICHLOROETHAN | 46.9572            | 1794891      | 378416         |
| 21.869         | 21.871 1,3-DICHLOROPROPANE  | 48.3053            | 1429510      | 323002         |
| 22.253         | 22.254 DIBROMOCHLOROMETHANE | 50.0393            | 1280529      | 282632         |
| 22.647         | 22.649 1,2-DIBROMOETHANE    | 51.4188            | 842782       | 186781         |
| 22.973         | 22.974 TETRACHLOROETHENE    | 45.7475            | 2149703      | 489091         |
| 23.924         | 23.924 1,1,1,2-TETRACHLOROE | 47.0497            | 2031671      | 533958         |
| 24.021         | 24.022 CHLOROBENZENE        | 47.3820            | 1034907      | 249702         |
| 24.701         | 24.702 BROMOFORM            | 51.7094            | 824946       | 185509         |
| 25.192         | 25.191 1,1,2,2-TETRACHLOROE | 48.5644            | 1208752      | 302620         |
| 25.395         | 25.395 1,2,3-TRICHLOROPROPA | 48.2497            | 1024480      | 236733         |
| 26.060         | 26.061 BROMOBENZENE         | 53.2593            | 636522       | 143620         |
| 26.511         | 26.510 2-CHLOROTOLUENE      | 49.7696            | 726384       | 188706         |
| 26.630         | 26.629 4-CHLOROTOLUENE      | 48.8060            | 778951       | 188375         |
| 27.715         | 27.713 1,3-DICHLOROBENZENE  | 49.3190            | 1085408      | 275615         |
| 27.830         | 27.828 1,4-DICHLOROBENZENE  | 47.7269            | 1256106      | 284505         |
| 28.440         | 28.439 1,2-DICHLOROBENZENE  | 49.2342            | 1215845      | 265424         |
| 29.323         | 29.324 1,2-DIBROMO-3-CHLORO | 54.7480            | 344254       | 59485          |
| 30.124         | 30.124 SURR-1B4CB-H         | 64.4599            | 1043599      | 209612         |
| 32.581         | 32.579 1,2,4-TRICHLOROBENZE | 50.5984            | 1118438      | 194496         |
| 33.546         | 33.544 HEXACHLOROBUTADIENE  | 45.5425            | 1403836      | 210706         |
| 33.971         | 33.969 1,2,3-TRICHLOROBENZE | 48.9854            | 1081576      | 160656         |
|                | TOTAL 1,2-DICHLOROETHENE:   | 96.0160            |              |                |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene

214.8664%

Sample name: CALSTD6

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365.08R

Reviewed by:

*[Signature]*

Verified by:

*SICP LOP*

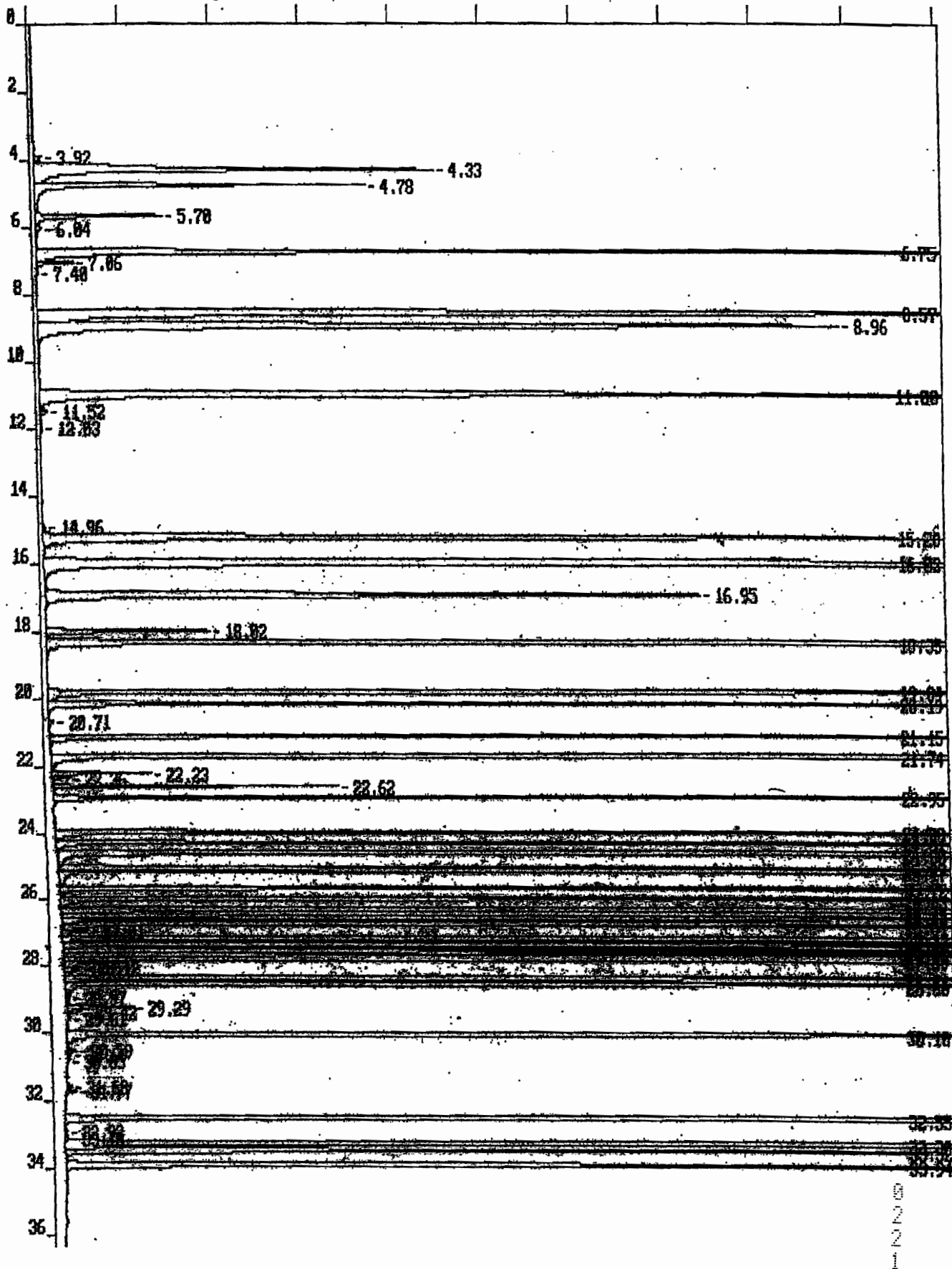
Date:

*12/31/01*

Date:

*12-31-01*

File=C:\CP\DATA1\183658.08R Date printed=12-31-2001 Time= 07:02:46  
 Sample Name=CALSTD6 01365A188400,8401,8464  
 0.0 to 37.0 min. Low Y=0.015 High Y=15.015 mv Span=15.0



Sample Name: CALSTD6

Batch: 01365A18

Date Taken: Dec 31, 2001 07:01:10

Raw File: C:\CP\DATA1\18365B.08R

Area File: C:\CP\DATA1\18365B.08A

Method File: C:\CP\DATA1\18365B.MET(version 2)

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SQ/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 7):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.328    | 4.331    | VINYL CHLORIDE       | 19.0298  | 58993  | 6633   |
| 6.753    | 6.765    | 1,1-DICHLOROETHENE   | 47.4892  | 101239 | 19197  |
| 8.570    | 8.582    | TRANS-1,2-DICHLOROET | 47.9320  | 256028 | 44925  |
| 8.959    | 8.972    | METHYL T-BUTYL ETHER | 48.2075  | 117503 | 13256  |
| 11.000   | 11.017   | CIS-1,2-DICHLOROETHE | 48.4714  | 136296 | 18403  |
| 15.279   | 15.293   | 1,1-DICHLOROPROPENE  | 46.9381  | 115835 | 15650  |
| 16.017   | 16.029   | BENZENE              | 47.3352  | 280581 | 38965  |
| 16.951   | 16.962   | ISTD-FBENZENE        | 1.0000   | 81353  | 10870  |
| 18.350   | 18.357   | TRICHLOROETHENE      | 46.6103  | 161741 | 31151  |
| 19.844   | 19.848   | 2-CHLOROETHYL VINYL  | 94.5254  | 189287 | 46826  |
| 20.194   | 20.198   | CIS-1,3-DICHLOROPROP | 47.2179  | 75470  | 19787  |
| 21.151   | 21.153   | TRANS-1,3-DICHLOROPR | 47.8901  | 94725  | 28906  |
| 21.739   | 21.739   | TOLUENE              | 46.1771  | 258964 | 77224  |
| 22.948   | 22.949   | TETRACHLOROETHENE    | 46.2159  | 124379 | 41100  |
| 23.998   | 23.999   | CHLOROBENZENE        | 46.4943  | 271490 | 105083 |
| 24.313   | 24.312   | ETHYLBENZENE         | 46.1358  | 230739 | 85282  |
| 24.605   | 24.604   | M,P-XYLENE           | 92.9776  | 540322 | 170529 |
| 25.070   | 25.070   | STYRENE              | 46.8052  | 294849 | 109468 |
| 25.173   | 25.172   | O-XYLENE             | 47.5023  | 244222 | 86485  |
| 25.716   | 25.715   | ISOPROPYLBENZENE     | 46.0175  | 191143 | 64085  |
| 26.034   | 26.033   | BROMOBENZENE         | 46.9873  | 279178 | 98255  |
| 26.362   | 26.361   | N-PROPYLBENZENE      | 46.1678  | 214695 | 74590  |
| 26.486   | 26.484   | 2-CHLOROTOLUENE      | 46.4888  | 240966 | 82503  |
| 26.605   | 26.603   | 4-CHLOROTOLUENE      | 46.8124  | 248375 | 87820  |
| 26.809   | 26.808   | 1,3,5-TRIMETHYLBENZE | 46.2800  | 315799 | 105681 |
| 27.233   | 27.232   | TERT-BUTYLBENZENE    | 46.1838  | 184059 | 55663  |
| 27.416   | 27.413   | 1,2,4-TRIMETHYLBENZE | 46.6358  | 243003 | 79591  |
| 27.583   | 27.581   | SEC-BUTYLBENZENE     | 46.1086  | 189263 | 56841  |
| 27.689   | 27.687   | 1,3-DICHLOROBENZENE  | 47.2245  | 242941 | 79009  |
| 27.805   | 27.802   | 1,4-DICHLOROBENZENE  | 46.7808  | 242676 | 78527  |
| 27.890   | 27.888   | P-ISOPROPYLTOLUENE   | 46.1416  | 179402 | 55803  |
| 28.414   | 28.413   | 1,2-DICHLOROBENZENE  | 47.1050  | 194094 | 59204  |
| 28.601   | 28.600   | N-BUTYLBENZENE       | 45.8738  | 182234 | 52747  |
| 30.096   | 30.096   | SURR-1B4CB-P         | 59.8308  | 308915 | 82650  |
| 32.553   | 32.550   | 1,2,4-TRICHLOROBENZE | 47.2518  | 123651 | 26059  |
| 33.299   | 33.297   | NAPHTHALENE          | 47.5199  | 150445 | 30623  |
| 33.517   | 33.515   | HEXACHLOROBUTADIENE  | 44.0704  | 82430  | 14531  |
| 33.943   | 33.939   | 1,2,3-TRICHLOROBENZE | 46.9858  | 113465 | 21517  |

XYLENES (Total): 140.4799

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 199.4361%

Chrom Perfect version 6.07

Reported on 12-31-2001 at 07:04:16

#### CALIBRATION UPDATE REPORT

Calibration file = C:\CP\DATA1\P18365.CAL Current version number = 7

Updated from file = C:\CP\DATA1\18365B.08A

Amount injected = 1

Standard amount injected = 1

Calibration level = 6 Replace old values with new

Number of runs since last replace = 0

Update to both retention time and area

Sample name: CALSTD6

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365B.08R

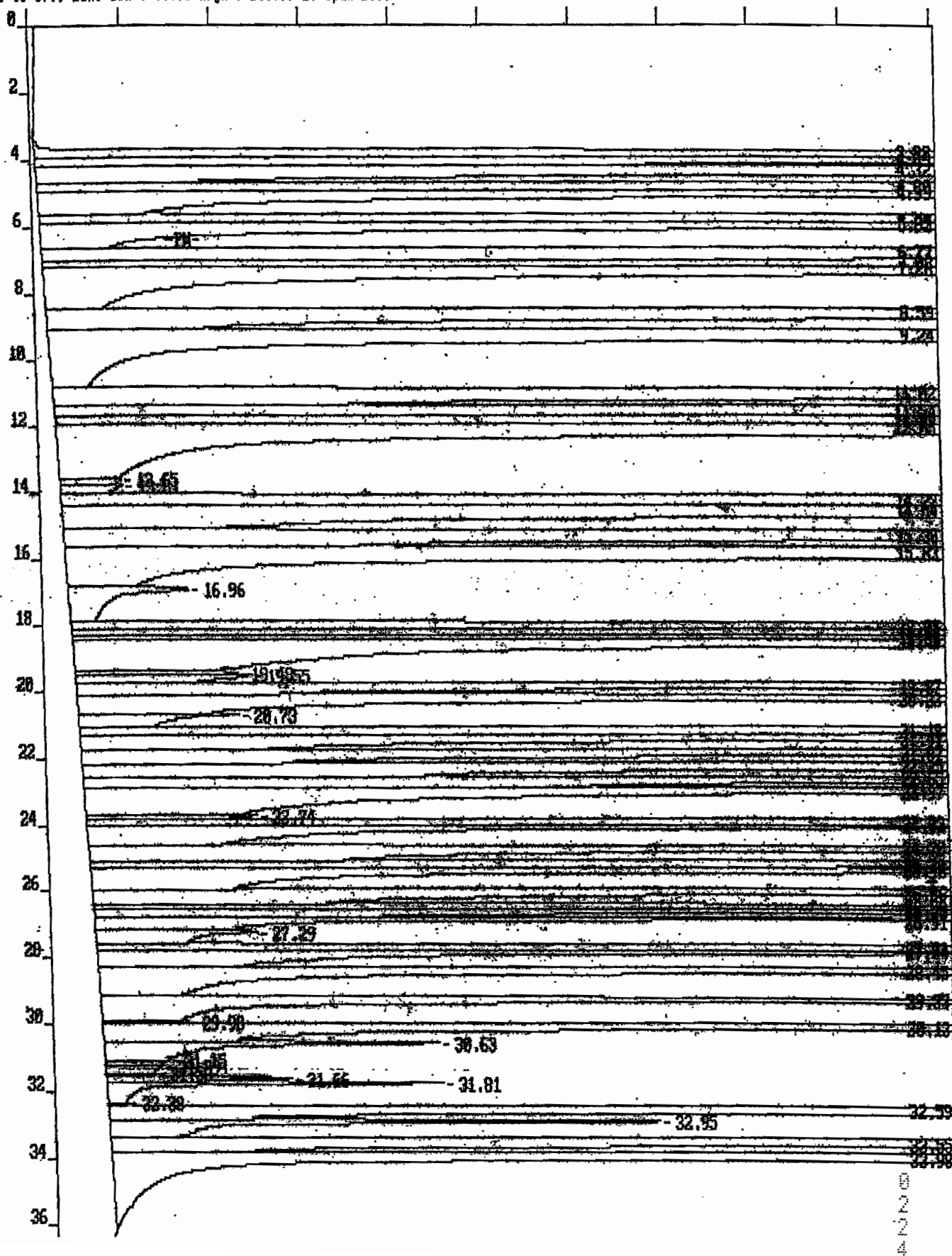
Reviewed by: MMB

Verified by: SKP LEB

Date: 12/31/01

Date: 12-31-01

File=C:\CP\DATA1\18365.09R Date printed=12-31-2001 Time= 07:44:23  
 Sample Name=CALSTD7 01365A188400,8401,8464  
 0.0 to 37.0 min. Low Y=0.078 High Y=15.078 mv Span=15.0





Sample Name: CALSTD7

Batch: 01365A18

Date Taken: Dec 31, 2001 07:44:18

Raw File: C:\CP\DATA1\18365.09R

Area File: C:\CP\DATA1\18365.09A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05

Dil. Factor: 1

Analyst: 115

Threshold: -3

Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 8 ):

Ret Time Expected

| (min) RT (min) | Peak Name                   | Amount *<br>(ug/L) | Peak<br>Area | Peak<br>Height |
|----------------|-----------------------------|--------------------|--------------|----------------|
| 3.819          | 3.836 DICHLORODIFLUOROMETH  | 76.7176            | 1023224      | 148518         |
| 4.028          | 4.036 CHLOROMETHANE         | 54.2278            | 808766       | 115862         |
| 4.325          | 4.352 VINYL CHLORIDE        | 60.9826            | 1666801      | 213751         |
| 4.801          | 4.814 BROMOMETHANE          | 67.3048            | 985234       | 176836         |
| 4.994          | 5.010 CHLOROETHANE          | 70.1997            | 1726018      | 288315         |
| 5.846          | 5.859 TRICHLOROFLUOROMETHA  | 69.1757            | 1254056      | 172456         |
| 6.768          | 6.782 1,1-DICHLOROETHENE    | 88.0326            | 2555678      | 397391         |
| 7.078          | 7.091 METHYLENE CHLORIDE    | 76.6907            | 3714919      | 623790         |
| 7.260          | 7.273 TRICHLOROTRIFLUOROET  | 82.7406            | 2883438      | 292521         |
| 8.589          | 8.599 TRANS-1,2-DICHLOROET  | 84.3669            | 3634547      | 517622         |
| 9.239          | 9.246 1,1-DICHLOROETHANE    | 84.5834            | 3779192      | 445148         |
| 11.024         | 11.030 CIS-1,2-DICHLOROETHE | 86.7767            | 3671501      | 429639         |
| 11.542         | 11.549 BROMOCHLOROMETHANE   | 90.8033            | 2644711      | 323997         |
| 11.798         | 11.805 CHLOROFORM           | 83.2672            | 4722545      | 500389         |
| 12.045         | 12.052 2,2-DICHLOROPROPANE  | 82.9109            | 3364430      | 264074         |
| 14.225         | 14.229 1,2-DICHLOROETHANE   | 88.1548            | 3355221      | 411045         |
| 14.543         | 14.547 1,1,1-TRICHLOROETHAN | 83.1707            | 4371166      | 406600         |
| 15.304         | 15.310 1,1-DICHLOROPROPENE  | 86.8048            | 3185780      | 372525         |
| 15.827         | 15.832 CARBON TETRACHLORIDE | 82.9297            | 4901648      | 494626         |
| 18.045         | 18.049 DIBROMOMETHANE       | 98.7521            | 1699288      | 287899         |
| 18.221         | 18.223 1,2-DICHLOROPROPANE  | 86.0620            | 3186914      | 481546         |
| 18.376         | 18.378 TRICHLOROETHENE      | 80.9782            | 3776430      | 635574         |
| 18.485         | 18.487 BROMODICHLOROMETHANE | 83.2922            | 3752939      | 555575         |
| 19.871         | 19.871 2-CHLOROETHYL VINYL  | 126.6075           | 1458587      | 284256         |
| 20.220         | 20.220 CIS-1,3-DICHLOROPROP | 85.3432            | 3042564      | 607632         |
| 21.176         | 21.177 TRANS-1,3-DICHLOROPR | 87.7717            | 2666502      | 601667         |
| 21.407         | 21.406 1,1,2-TRICHLOROETHAN | 82.0017            | 3223827      | 676893         |
| 21.870         | 21.869 1,3-DICHLOROPROPANE  | 84.3158            | 2568021      | 580347         |
| 22.253         | 22.253 DIBROMOCHLOROMETHANE | 90.8030            | 2371005      | 523181         |
| 22.647         | 22.647 1,2-DIBROMOETHANE    | 96.2820            | 1590603      | 356838         |
| 22.975         | 22.973 TETRACHLOROETHENE    | 75.9187            | 3732938      | 832061         |
| 23.928         | 23.924 1,1,1,2-TETRACHLOROE | 73.0960            | 3361602      | 849375         |
| 24.023         | 24.021 CHLOROBENZENE        | 82.7644            | 1850877      | 448424         |
| 24.703         | 24.701 BROMOFORM            | 98.8004            | 1571073      | 360014         |
| 25.195         | 25.192 1,1,2,2-TETRACHLOROE | 85.4233            | 2181992      | 545189         |
| 25.398         | 25.395 1,2,3-TRICHLOROPROPA | 85.9873            | 1843390      | 431225         |
| 26.064         | 26.060 BROMOBENZENE         | 99.8921            | 1197926      | 276855         |
| 26.516         | 26.511 2-CHLOROTOLUENE      | 89.9744            | 1351582      | 351321         |
| 26.634         | 26.630 4-CHLOROTOLUENE      | 88.8147            | 1441204      | 352110         |
| 27.721         | 27.715 1,3-DICHLOROBENZENE  | 87.7512            | 2010687      | 503777         |
| 27.837         | 27.830 1,4-DICHLOROBENZENE  | 84.5663            | 2278157      | 516899         |
| 28.448         | 28.440 1,2-DICHLOROBENZENE  | 87.5244            | 2210155      | 484743         |
| 29.331         | 29.323 1,2-DIBROMO-3-CHLORO | 105.2431           | 632392       | 116371         |
| 30.132         | 30.124 SURR-1B4CB-H         | 71.3734            | 1208339      | 238759         |
| 32.591         | 32.581 1,2,4-TRICHLOROBENZE | 92.7959            | 2097772      | 365559         |
| 33.554         | 33.546 HEXACHLOROBUTADIENE  | 85.6622            | 2681603      | 401766         |
| 33.980         | 33.971 1,2,3-TRICHLOROBENZE | 91.8591            | 2011370      | 307919         |
|                | TOTAL 1,2-DICHLOROETHENE:   | 171.1435           |              |                |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 237.9115%



Sample name: CALSTD7

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365.09R

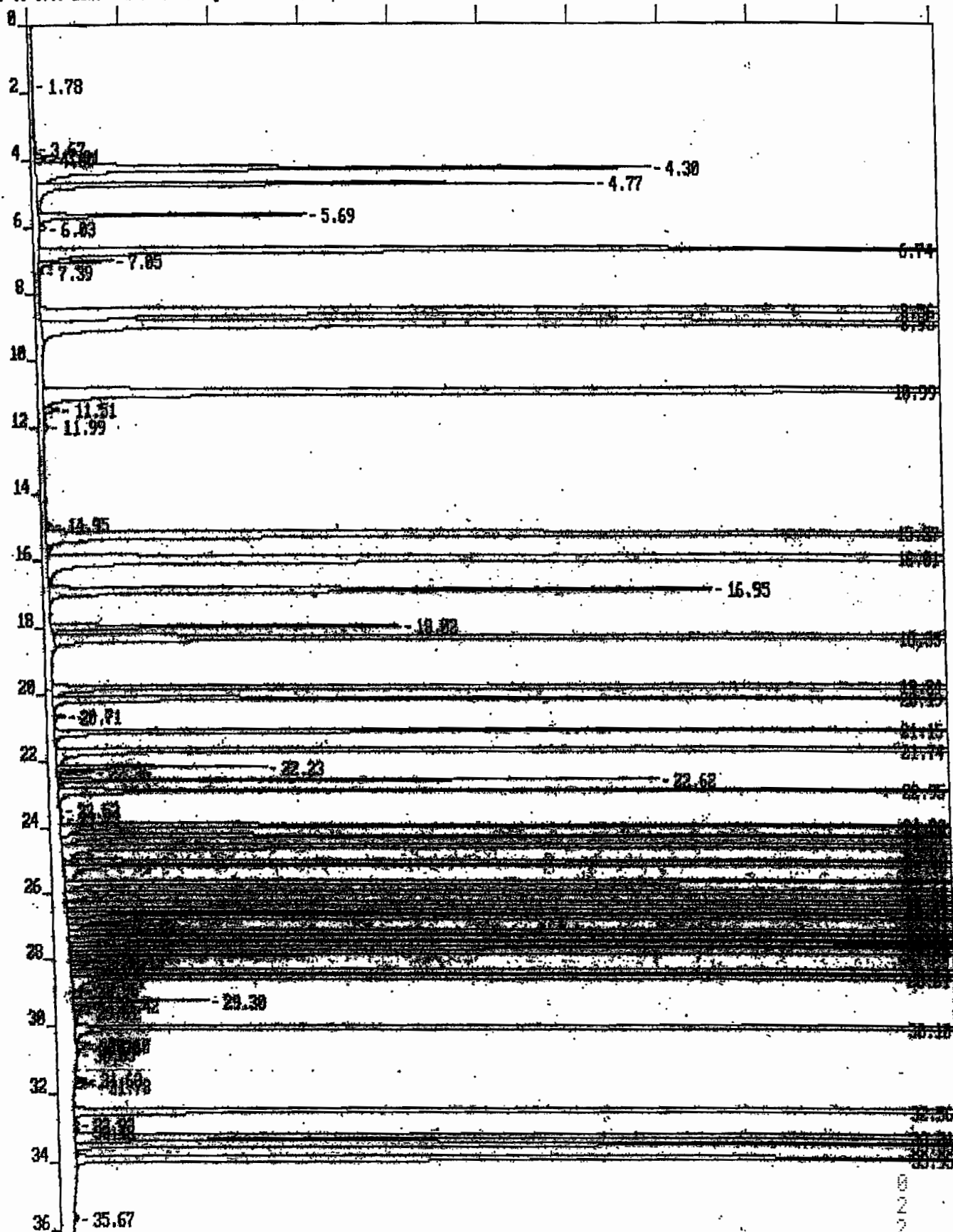
Reviewed by: MP

Verified by: SCP

Date: 12/31/01

Date: 12-31-01

File=C:\CP\DATA\183658.09R Date printed=12-31-2001 Time= 07:45:56  
Sample Name=CALSTD7 01365A188400,8401,8464  
0.0 to 37.0 min. Low Y=0.014 High Y=15.014 mv Span=15.0



Sample Name: CALSTD7

Batch: 01365A18

Date Taken: Dec 31, 2001 07:44:18

Raw File: C:\CP\DATA1\18365B.09R

Area File: C:\CP\DATA1\18365B.09A

Method File: C:\CP\DATA1\18365B.MET(version 2)

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SQ/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 8):

| Ret Time         | Expected |                      | Amount * | Peak    | Peak   |
|------------------|----------|----------------------|----------|---------|--------|
| (min)            | RT (min) | Peak Name            | (ug/L)   | Area    | Height |
| 4.302            | 4.328    | VINYL CHLORIDE       | 29.0280  | 84372   | 10241  |
| 6.740            | 6.753    | 1,1-DICHLOROETHENE   | 92.5743  | 200101  | 37774  |
| 8.561            | 8.570    | TRANS-1,2-DICHLOROET | 93.3006  | 505996  | 88318  |
| 8.952            | 8.959    | METHYL T-BUTYL ETHER | 93.7472  | 231434  | 25998  |
| 10.994           | 11.000   | CIS-1,2-DICHLOROETHE | 94.6153  | 269849  | 36287  |
| 15.275           | 15.279   | 1,1-DICHLOROPROPENE  | 94.5928  | 237149  | 31782  |
| 16.014           | 16.017   | BENZENE              | 95.8101  | 573869  | 79580  |
| 16.946           | 16.951   | ISTD-FBENZENE        | 1.0000   | 83220   | 11059  |
| 18.349           | 18.350   | TRICHLOROETHENE      | 95.0276  | 331692  | 63986  |
| 19.844           | 19.844   | 2-CHLOROETHYL VINYL  | 126.6911 | 254968  | 63053  |
| 20.193           | 20.194   | CIS-1,3-DICHLOROPROP | 96.8295  | 155265  | 40888  |
| 21.151           | 21.151   | TRANS-1,3-DICHLOROPR | 97.0580  | 195135  | 58991  |
| 21.740           | 21.739   | TOLUENE              | 92.1249  | 523975  | 155459 |
| 22.949           | 22.948   | TETRACHLOROETHENE    | 93.4444  | 255735  | 83748  |
| 24.000           | 23.998   | CHLOROBENZENE        | 93.6720  | 549213  | 213399 |
| 24.315           | 24.313   | ETHYLBENZENE         | 91.9041  | 465029  | 171227 |
| 24.608           | 24.605   | M,P-XYLENE           | 183.8568 | 1082300 | 340274 |
| 25.074           | 25.070   | STYRENE              | 92.3358  | 590047  | 217749 |
| 25.177           | 25.173   | O-XYLENE             | 92.3493  | 484387  | 169449 |
| 25.720           | 25.716   | ISOPROPYLBENZENE     | 91.5765  | 385343  | 128519 |
| 26.038           | 26.034   | BROMOBENZENE         | 95.1123  | 566188  | 200534 |
| 26.367           | 26.362   | N-PROPYLBENZENE      | 92.0849  | 435128  | 150017 |
| 26.491           | 26.486   | 2-CHLOROTOLUENE      | 92.3978  | 486421  | 165295 |
| 26.610           | 26.605   | 4-CHLOROTOLUENE      | 93.6148  | 499825  | 177135 |
| 26.814           | 26.809   | 1,3,5-TRIMETHYLBENZE | 92.3758  | 636318  | 212559 |
| 27.239           | 27.233   | TERT-BUTYLBENZENE    | 91.9249  | 371997  | 111708 |
| 27.422           | 27.416   | 1,2,4-TRIMETHYLBENZE | 92.7709  | 489794  | 159564 |
| 27.591           | 27.583   | SEC-BUTYLBENZENE     | 93.9105  | 387202  | 116555 |
| 27.696           | 27.689   | 1,3-DICHLOROBENZENE  | 94.9856  | 495346  | 160225 |
| 27.812           | 27.805   | 1,4-DICHLOROBENZENE  | 94.7441  | 492930  | 160325 |
| 27.897           | 27.890   | P-ISOPROPYLTOLUENE   | 93.1524  | 365274  | 113384 |
| 28.422           | 28.414   | 1,2-DICHLOROBENZENE  | 94.8609  | 392875  | 120171 |
| 28.609           | 28.601   | N-BUTYLBENZENE       | 93.5301  | 374004  | 108121 |
| 30.105           | 30.096   | SURR-1B4CB-P         | 69.4678  | 361236  | 96828  |
| 32.563           | 32.553   | 1,2,4-TRICHLOROBENZE | 95.7123  | 250282  | 52936  |
| 33.309           | 33.299   | NAPHTHALENE          | 95.8309  | 304095  | 61834  |
| 33.526           | 33.517   | HEXACHLOROBUTADIENE  | 92.1203  | 171964  | 30339  |
| 33.952           | 33.943   | 1,2,3-TRICHLOROBENZE | 95.9520  | 231578  | 43958  |
| XYLENES (Total): |          |                      | 276.2061 |         |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 231.5595%

Chrom Perfect version 6.07

Reported on 12-31-2001 at 07:47:26

#### CALIBRATION UPDATE REPORT

Calibration file = C:\CP\DATA1\P18365.CAL Current version number = 8

Updated from file = C:\CP\DATA1\18365B.09A

Amount injected = 1

Standard amount injected = 1

Calibration level = 7 Replace old values with new

Number of runs since last replace = 0

Update to both retention time and area

0  
2  
2  
8

Sample name: CALSTD7

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365B.09R

Reviewed by:

DMB

Verified by:

SKP

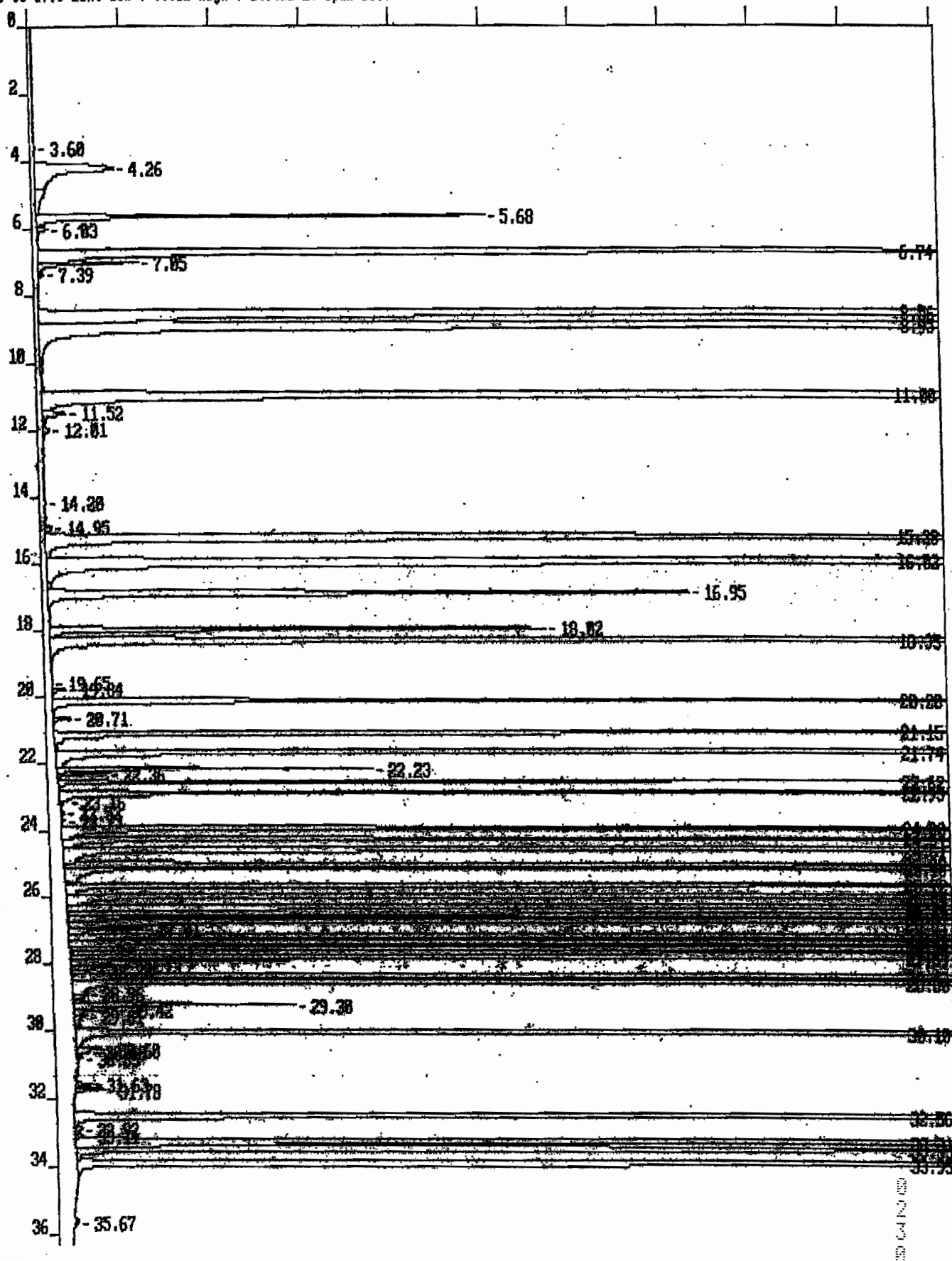
Date:

12/31/01

Date:

12-31-01

File=C:\CP\DATA\183658.10R Date printed=12-31-2001 Time= 08:29:14  
Sample Name=CALSTD8 .01365A188400,8401,8464  
0.0 to 37.0 min. Low Y=0.012 High Y=15.012 mv Span=15.0



Sample Name: CALSTD8

Batch: 01365A18

Date Taken: Dec 31, 2001 08:28:06

Raw File: C:\CP\DATA1\18365B.10R

Area File: C:\CP\DATA1\18365B.10A

Method File: C:\CP\DATA1\18365B.MET(version 2)

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 9):

| Ret Time | Expected |                      | Amount * | Peak    | Peak   |
|----------|----------|----------------------|----------|---------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area    | Height |
| 4.261    | 4.302    | VINYL CHLORIDE       | 3.8429   | 25734   | 1306   |
| 6.741    | 6.740    | 1,1-DICHLOROETHENE   | 125.3854 | 274799  | 49235  |
| 8.561    | 8.561    | TRANS-1,2-DICHLOROET | 132.6768 | 691606  | 120715 |
| 8.954    | 8.952    | METHYL T-BUTYL ETHER | 140.3393 | 336713  | 37371  |
| 10.997   | 10.994   | CIS-1,2-DICHLOROETHE | 135.3545 | 372162  | 49895  |
| 15.281   | 15.275   | 1,1-DICHLOROPROPENE  | 134.6190 | 325705  | 43495  |
| 16.018   | 16.014   | BENZENE              | 138.1202 | 795403  | 110242 |
| 16.950   | 16.946   | ISTD-FBENZENE        | 1.0000   | 81291   | 10684  |
| 18.353   | 18.349   | TRICHLOROETHENE      | 137.6148 | 465760  | 88922  |
| 19.837   | 19.844   | 2-CHLOROETHYL VINYL  | 0.5033   | 1237    | 240    |
| 20.196   | 20.193   | CIS-1,3-DICHLOROPROP | 141.0949 | 216498  | 57227  |
| 21.153   | 21.151   | TRANS-1,3-DICHLOROPR | 144.6904 | 281638  | 84231  |
| 21.741   | 21.740   | TOLUENE              | 134.6221 | 735350  | 217644 |
| 22.949   | 22.949   | TETRACHLOROETHENE    | 138.4370 | 362335  | 118798 |
| 24.000   | 24.000   | CHLOROBENZENE        | 139.0872 | 782001  | 303341 |
| 24.314   | 24.315   | ETHYLBENZENE         | 135.7634 | 657694  | 241955 |
| 24.608   | 24.608   | M,P-XYLENE           | 270.2164 | 1535403 | 478849 |
| 25.073   | 25.074   | STYRENE              | 137.1462 | 840921  | 309382 |
| 25.175   | 25.177   | O-XYLENE             | 126.0187 | 662473  | 221048 |
| 25.718   | 25.720   | ISOPROPYLBENZENE     | 134.9204 | 544207  | 181236 |
| 26.036   | 26.038   | BROMOBENZENE         | 142.6195 | 811299  | 287652 |
| 26.364   | 26.367   | N-PROPYLBENZENE      | 136.6509 | 617750  | 213021 |
| 26.488   | 26.491   | 2-CHLOROTOLUENE      | 137.5796 | 693636  | 235589 |
| 26.606   | 26.610   | 4-CHLOROTOLUENE      | 139.4110 | 713527  | 252359 |
| 26.811   | 26.814   | 1,3,5-TRIMETHYLBENZE | 136.1951 | 904754  | 300025 |
| 27.235   | 27.239   | TERT-BUTYLBENZENE    | 136.7191 | 530172  | 158923 |
| 27.419   | 27.422   | 1,2,4-TRIMETHYLBENZE | 138.1013 | 699494  | 227240 |
| 27.587   | 27.591   | SEC-BUTYLBENZENE     | 139.6506 | 555329  | 165847 |
| 27.692   | 27.696   | 1,3-DICHLOROBENZENE  | 142.5577 | 716046  | 230154 |
| 27.808   | 27.812   | 1,4-DICHLOROBENZENE  | 144.5458 | 708324  | 233991 |
| 27.892   | 27.897   | P-ISOPROPYLTOLUENE   | 139.4006 | 529319  | 162272 |
| 28.417   | 28.422   | 1,2-DICHLOROBENZENE  | 143.6025 | 569667  | 174013 |
| 28.603   | 28.609   | N-BUTYLBENZENE       | 140.8082 | 540296  | 155370 |
| 30.100   | 30.105   | SURR-1B4CB-P         | 86.7604  | 433837  | 115682 |
| 32.562   | 32.563   | 1,2,4-TRICHLOROBENZE | 146.3202 | 364242  | 77173  |
| 33.309   | 33.309   | NAPHTHALENE          | 150.4951 | 457319  | 92668  |
| 33.526   | 33.526   | HEXACHLOROBUTADIENE  | 139.1936 | 248091  | 43558  |
| 33.953   | 33.952   | 1,2,3-TRICHLOROBENZE | 149.4318 | 342764  | 65191  |

XYLENES (Total): 396.2351

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 289.2014%

Chrom Perfect version 6.07

Reported on 12-31-2001 at 08:30:38

#### CALIBRATION UPDATE REPORT

Calibration file = C:\CP\DATA1\P18365.CAL Current version number = 9

Updated from file = C:\CP\DATA1\18365B.10A

Amount injected = 1

Standard amount injected = 1

Calibration level = 8 Replace old values with new

Number of runs since last replace = 0

Update to both retention time and area

6  
2  
3  
1

Sample name: CALSTD8

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365B.10R

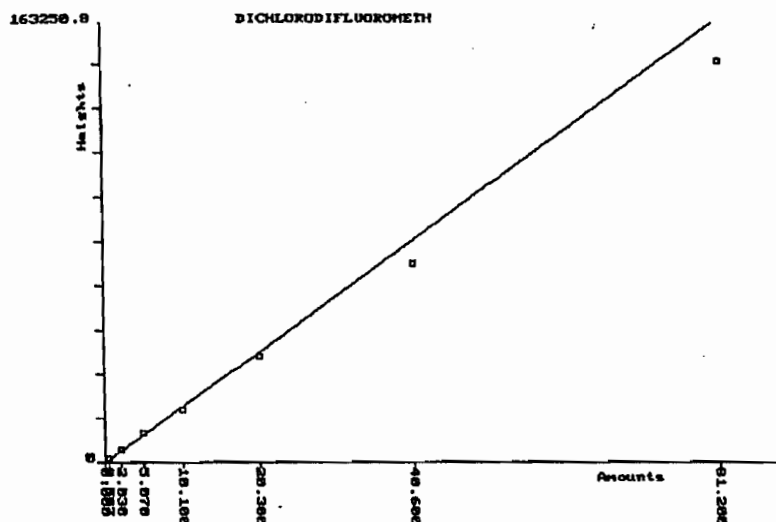
Reviewed by: *[Signature]*

Verified by: *[Signature]*

Date: 12/31/01

Date: 12-31-01

1 DICHLORODIFLUOROMETH Ret time= 3.805 min. Search window= 0.100 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.

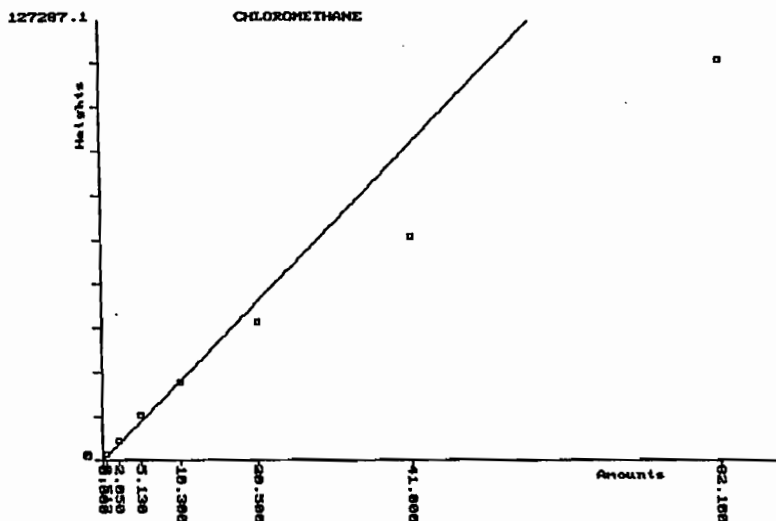


| LEVEL | AMOUNT   | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|----------|--------|-------------|-----------|------------------|
| 1     | 0.50700  | 1186   | 23393.4E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.03000  | 4418   | 21762.3E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.07000  | 10743  | 21190.2E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.10000 | 19615  | 19421.3E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.30000 | 39650  | 19531.8E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 40.60000 | 73527  | 18110.1E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 81.20000 | 148518 | 18290.4E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9888541 Ave error=6.9053%  
 Height = +20.243e02\*X^1  
 Average CF (EPA method 8000) = 2024.2787 with %RSD = 9.603%



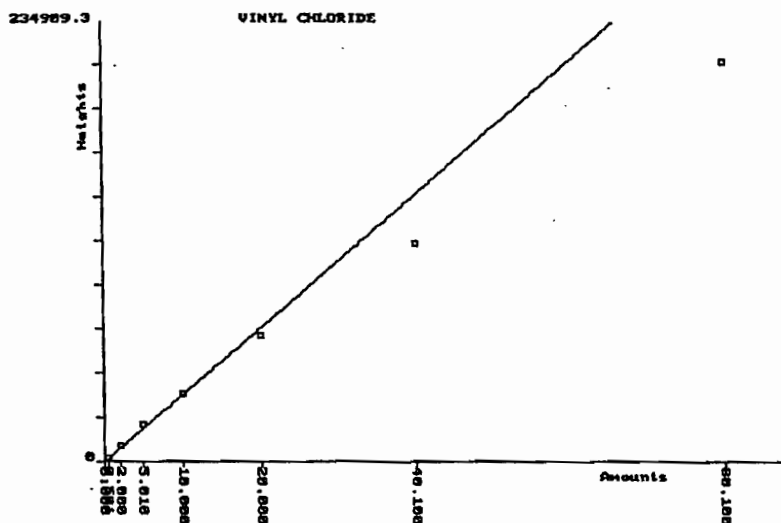
2 CHLOROMETHANE Ret time= 3.985 min. Search window= 0.100 min.  
 No reference peak for this compound.  
 o internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT   | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|----------|--------|-------------|-----------|------------------|
| 1     | 0.51300  | 1614   | 31469.7E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.05000  | 5741   | 28003.2E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.13000  | 12994  | 25330.2E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.30000 | 22769  | 22105.8E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.50000 | 40151  | 19585.7E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 41.00000 | 64790  | 15802.4E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 82.10000 | 115862 | 14112.3E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .7332793 Ave error=21.9857%  
 Height = +22.344e02\*X^1  
 Average CF (EPA method 8000) = 2234.4182 with %RSD = 28.449%

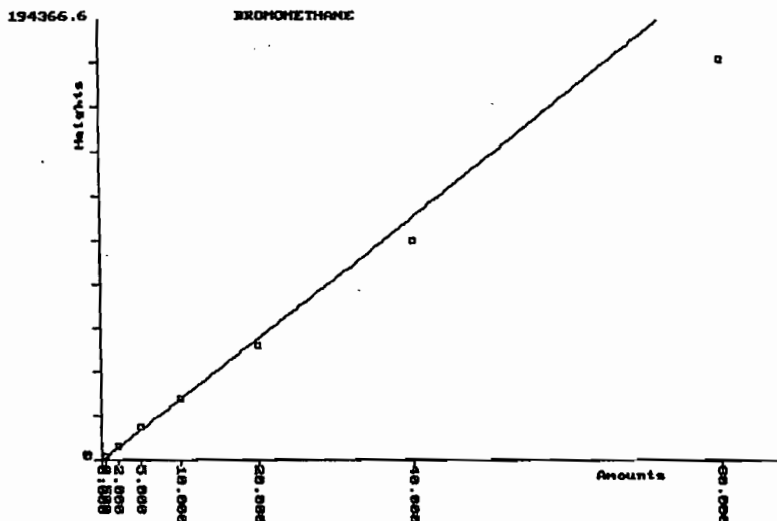
3 VINYL CHLORIDE Ret time= 4.314 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 o internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT   | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|----------|--------|-------------|-----------|------------------|
| 1     | 0.50100  | 2164   | 43186.4E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000  | 8221   | 41102.8E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.01000  | 19605  | 39131.9E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000 | 36095  | 36094.6E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000 | 67692  | 33846.0E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 40.10000 | 116227 | 28984.2E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 80.10000 | 213751 | 26685.5E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9117069 Ave error=12.8453%  
 Height = +35.576e02\*X^1  
 Average CF (EPA method 8000) = 3557.5903 with %RSD = 17.284%

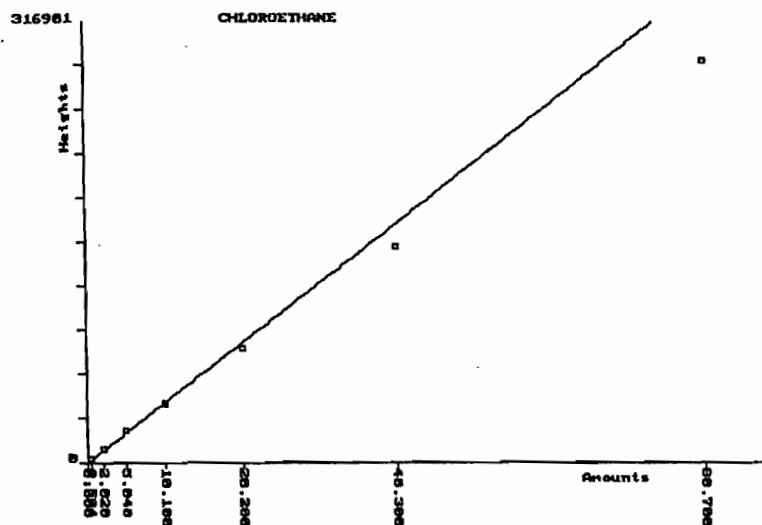
4 BROMOMETHANE Ret time= 4.780 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT   | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|----------|--------|-------------|-----------|------------------|
| 1     | 0.50000  | 1526   | 30526.5E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000  | 5901   | 29503.2E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000  | 14529  | 29058.5E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000 | 27150  | 27149.7E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000 | 50999  | 25499.6E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 40.00000 | 97200  | 24300.0E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 80.00000 | 176836 | 22104.5E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9644855 Ave error=8.3707%  
 Height = +26.877e02\*X^1  
 Average CF (EPA method 8000) = 2687.7434 with %RSD = 11.404%

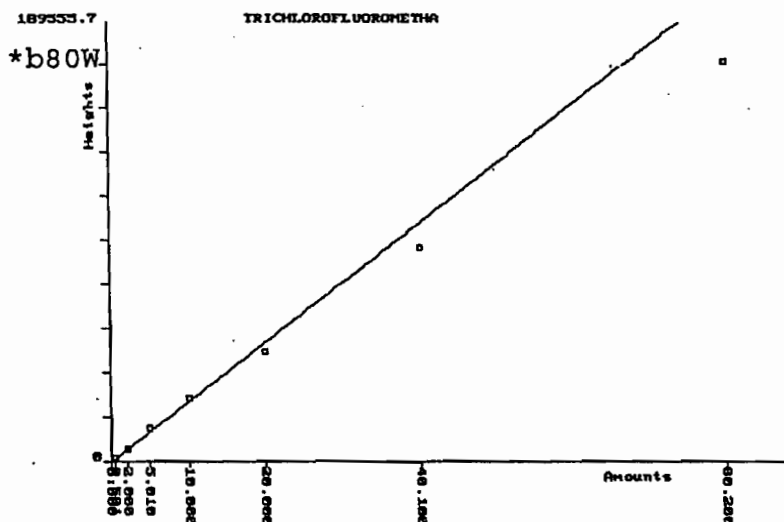
5 CHLOROETHANE Ret time= 4.980 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT   | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|----------|--------|-------------|-----------|------------------|
| 1     | 0.50400  | 2458   | 48761.2E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.02000  | 9460   | 46830.8E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.04000  | 22859  | 45355.5E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.10000 | 42762  | 42338.3E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.20000 | 82356  | 40770.4E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 40.30000 | 155228 | 38518.1E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 80.70000 | 288315 | 35726.8E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9709858 Ave error=7.8427%  
 Height = +42.614e02\*X^1  
 Average CF (EPA method 8000) = 4261.4434 with %RSD = 10.955%

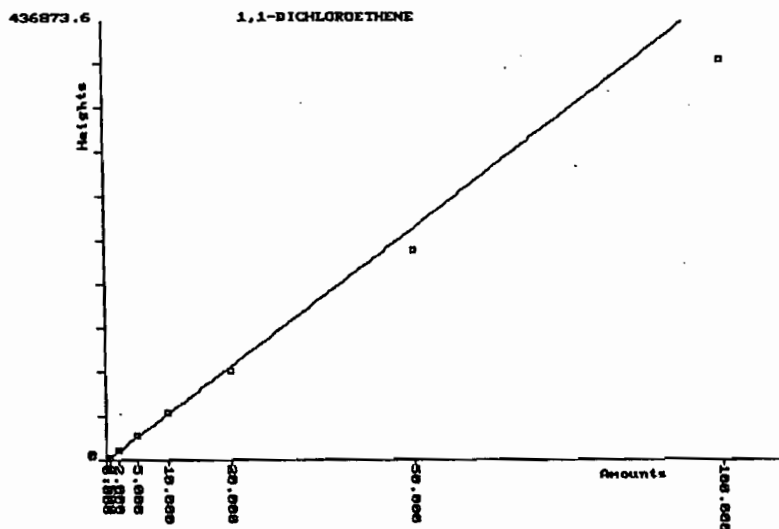
6 TRICHLOROFLUOROMETHA Ret time= 5.837 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT   | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|----------|--------|-------------|-----------|------------------|
| 1     | 0.50100  | 1463   | 29195.3E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000  | 5325   | 26626.1E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.01000  | 14148  | 28240.3E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000 | 26856  | 26856.1E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000 | 46791  | 23395.3E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 40.10000 | 91851  | 22905.4E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 80.20000 | 172456 | 21503.3E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9715227 Ave error=8.8141%  
 Height = +25.532e02\*X^1  
 Average CF (EPA method 8000) = 2553.1702 with %RSD = 11.464%

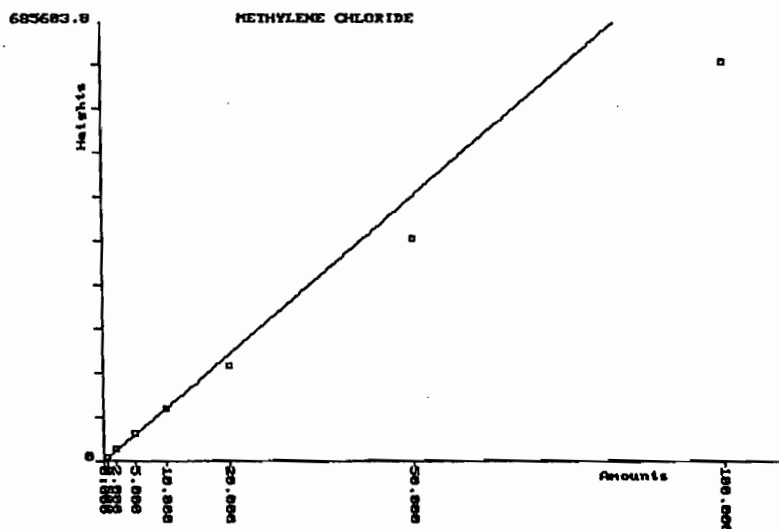
7 1,1-DICHLOROETHENE Ret time= 6.761 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 2565   | 51294.6E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 9873   | 49363.1E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 24834  | 49668.9E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 47933  | 47933.0E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 88470  | 44235.2E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 209107 | 41821.5E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 397391 | 39739.1E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9773208 Ave error=7.2530%  
 Height = +46.294e02\*X^1  
 Average CF (EPA method 8000) = 4629.3623 with %RSD = 9.486%

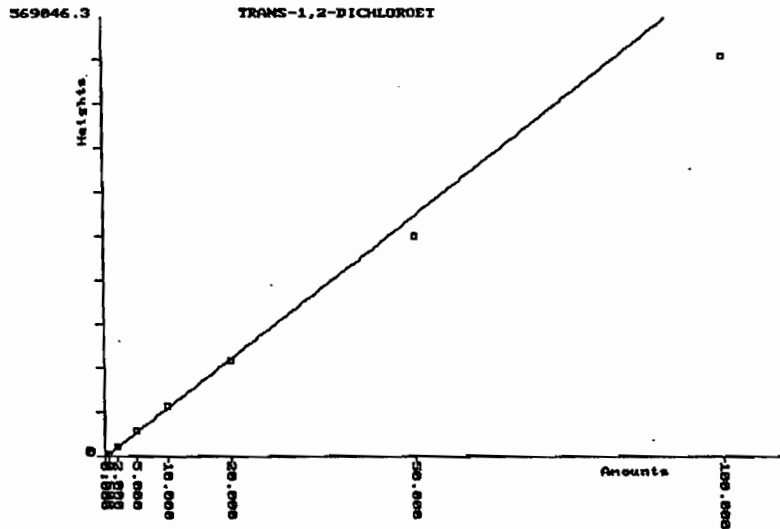
8 METHYLENE CHLORIDE Ret time= 7.069 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 o internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 5655   | 11309.2E+00 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 18333  | 91663.6E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 43774  | 87548.4E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 81989  | 81988.9E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 149507 | 74753.7E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 346844 | 69368.8E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 623790 | 62379.0E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9125173 Ave error=13.2693%  
 Height = +82.971e02\*X^1  
 Average CF (EPA method 8000) = 8297.0615 with %RSD = 20.176%

10 TRANS-1,2-DICHLOROET Ret time= 8.582 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 Group number = 1 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.

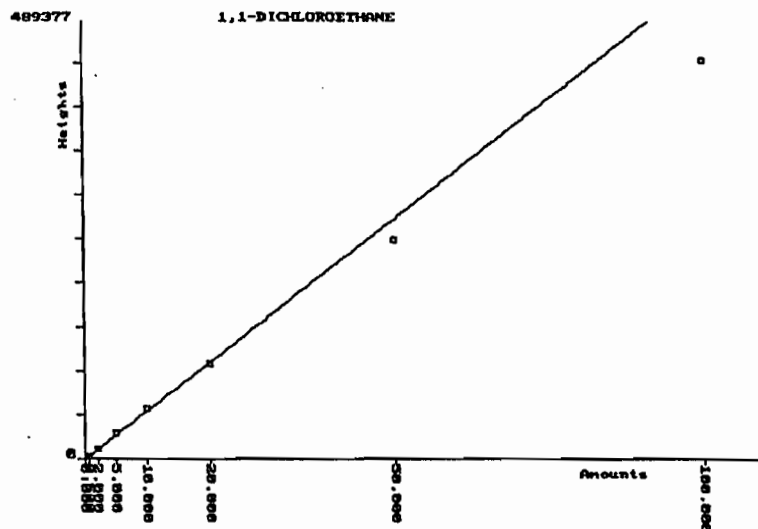


| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 3378   | 67561.0E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 13434  | 67168.8E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 33605  | 67210.7E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 65100  | 65099.7E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 123282 | 61640.8E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 284527 | 56905.3E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 517622 | 51762.2E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9667889 Ave error=7.1786%  
 Height = +62.478e02\*X^1  
 Average CF (EPA method 8000) = 6247.8345 with %RSD = 9.773%



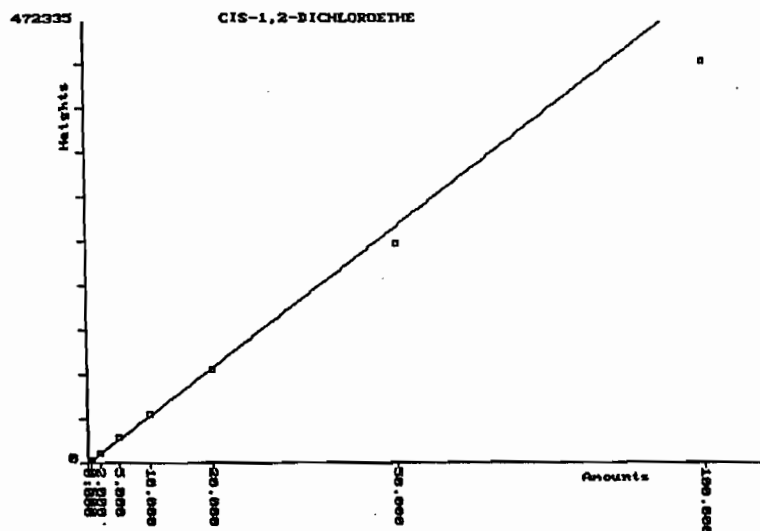
11 1,1-DICHLOROETHANE Ret time= 9.231 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 2859   | 57179.2E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 11573  | 57863.6E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 28895  | 57789.9E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 55360  | 55360.2E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 105997 | 52998.3E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 244492 | 48898.4E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 445148 | 44514.8E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9683654 Ave error=6.9111%  
 Height = +53.515e02\*X^1  
 Average CF (EPA method 8000) = 5351.4922 with %RSD = 9.547%

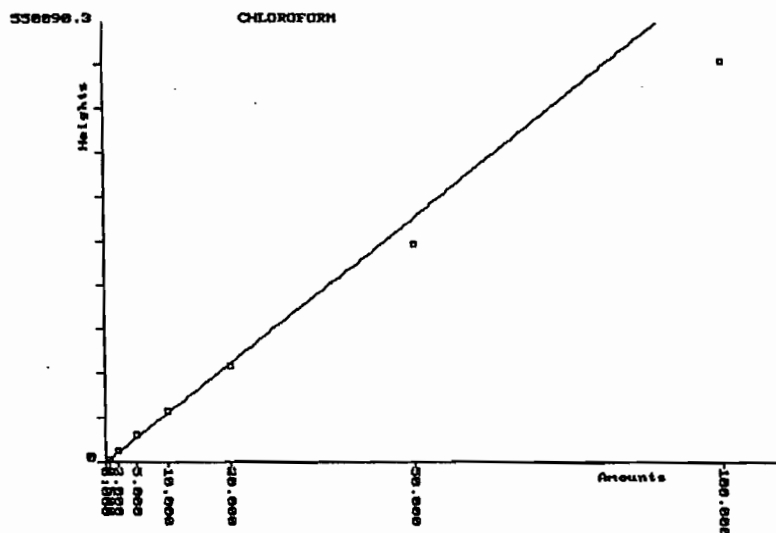
12 CIS-1,2-DICHLOROETHE Ret time= 11.019 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 Group number = 1 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 2675   | 53503.3E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 10769  | 53846.0E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 27222  | 54444.5E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 52494  | 52493.9E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 100220 | 50109.8E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 234415 | 46883.1E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 429639 | 42963.9E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9755295 Ave error=6.0996%  
 Height = +50.606e02\*X^1  
 Average CF (EPA method 8000) = 5060.6343 with %RSD = 8.449%

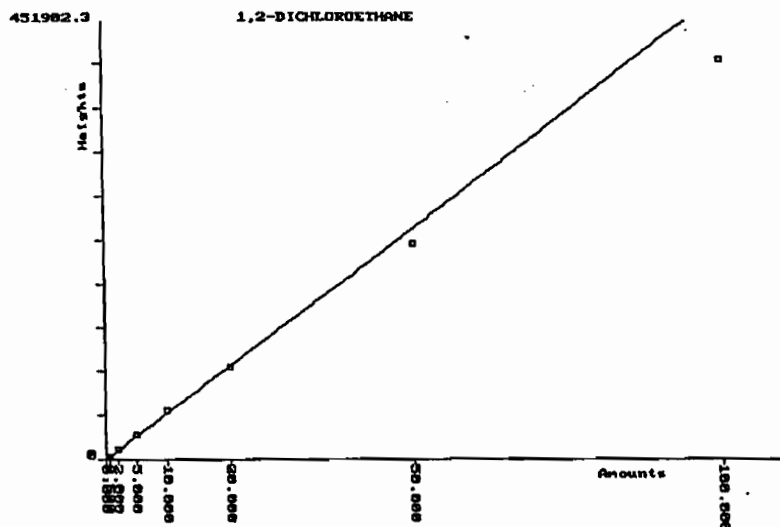
14 CHLOROFORM Ret time= 11.792 min. Search window= 0.100 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 3379   | 67590.0E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 13453  | 67263.3E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 32948  | 65895.5E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 63287  | 63287.4E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 118933 | 59466.4E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 272930 | 54586.1E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 500389 | 50038.9E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9608657 Ave error=8.2813%  
 Height = +61.161e02\*X^1  
 Average CF (EPA method 8000) = 6116.1094 with %RSD = 11.075%

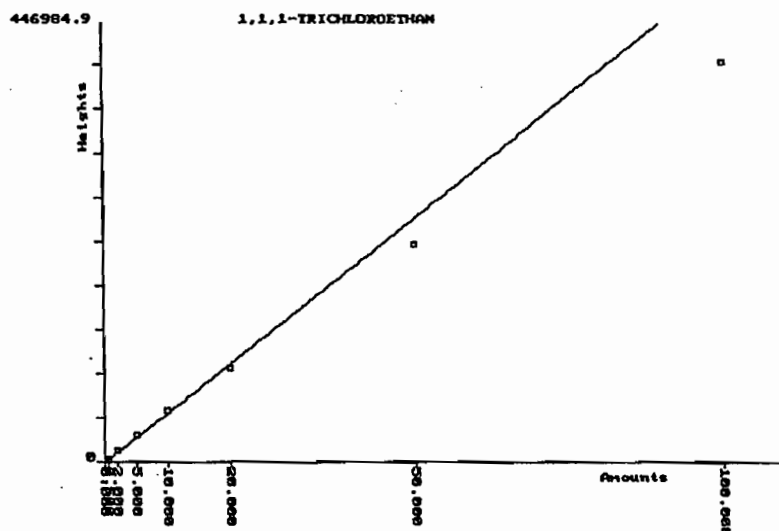
16 1,2-DICHLOROETHANE Ret time= 14.223 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 2474   | 49471.5E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 10167  | 50833.2E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 25397  | 50793.1E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 50670  | 50670.0E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 94853  | 47426.4E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 222673 | 44534.5E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 411045 | 41104.5E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9791604 Ave error=5.6592%  
 Height = +47.833e02\*X^1  
 Average CF (EPA method 8000) = 4783.3325 with %RSD = 7.86%

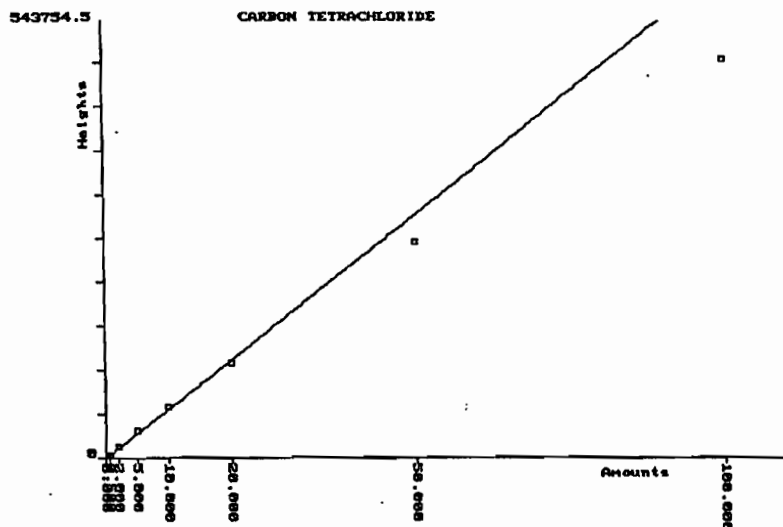
17 1,1,1-TRICHLOROETHAN Ret time= 14.542 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 2748   | 54955.0E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 10734  | 53669.6E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 26789  | 53578.1E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 52436  | 52436.2E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 96193  | 48096.3E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 221981 | 44396.3E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 406600 | 40660.0E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9610208 Ave error=8.3674%  
 Height = +49.684e02\*X^1  
 Average CF (EPA method 8000) = 4968.4492 with %RSD = 10.972%

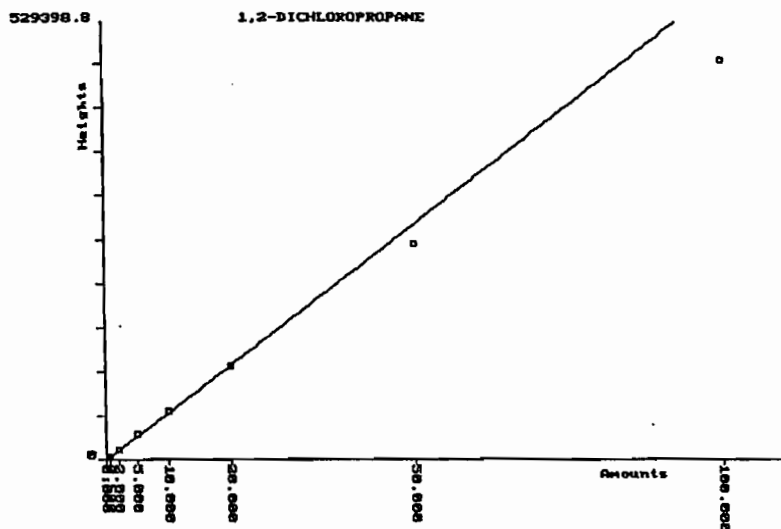
19 CARBON TETRACHLORIDE Ret time= 15.828 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 3340   | 66795.9E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 13128  | 65641.0E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 32965  | 65930.1E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 63891  | 63891.5E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 117737 | 58868.5E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 267370 | 53474.0E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 494626 | 49462.6E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9592839 Ave error=8.6233%  
 Height = +60.58e02\*X^1  
 Average CF (EPA method 8000) = 6058.0493 with %RSD = 11.294%

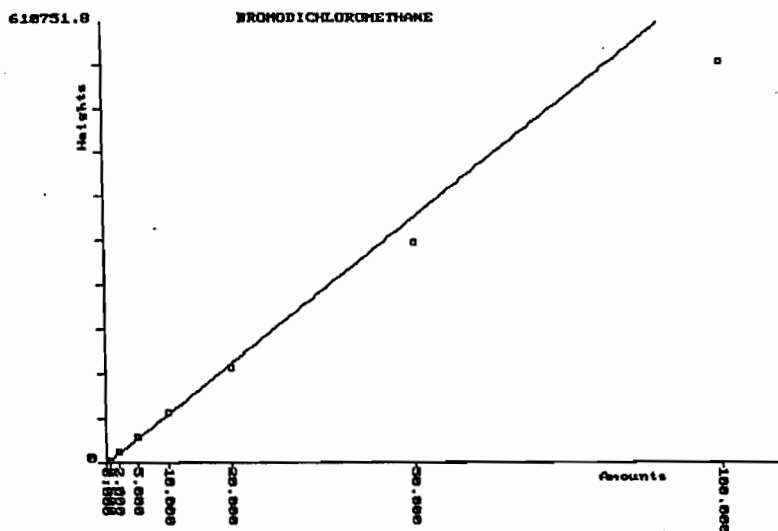
21 1,2-DICHLOROPROPANE Ret time= 18.220 min. Search window= 0.100 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 3021   | 60417.2E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 12161  | 60807.2E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 30647  | 61294.9E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 59520  | 59519.9E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 113101 | 56550.7E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 260854 | 52170.8E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 481546 | 48154.6E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9735468 Ave error=6.4485%  
 Height = +56.988e02\*X^1  
 Average CF (EPA method 8000) = 5698.79 with %RSD = 8.853%

23 BROMODICHLOROMETHANE Ret time= 18.485 min. Search window= 0.100 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.

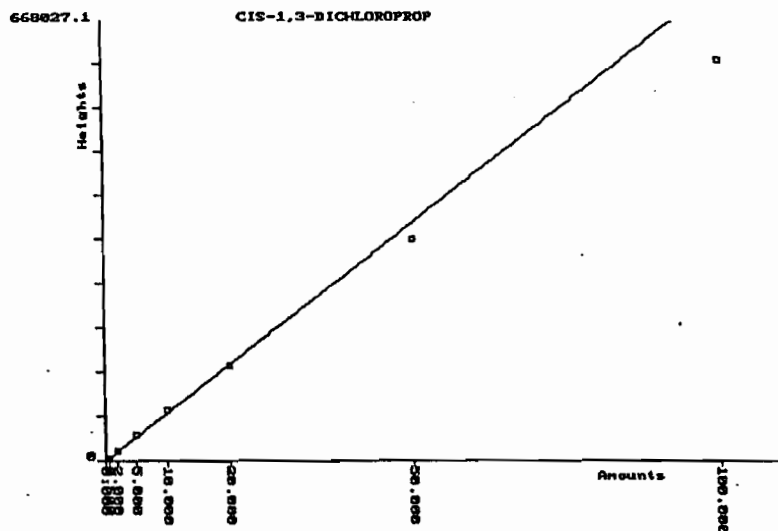


| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 3802   | 76039.6E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 14708  | 73541.4E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 36295  | 72589.3E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 69772  | 69772.1E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 131533 | 65766.4E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 302613 | 60522.6E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 555575 | 55557.5E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .962226 Ave error=8.1599%  
 Height = +67.684e02\*X^1  
 Average CF (EPA method 8000) = 6768.4116 with %RSD = 11.033%



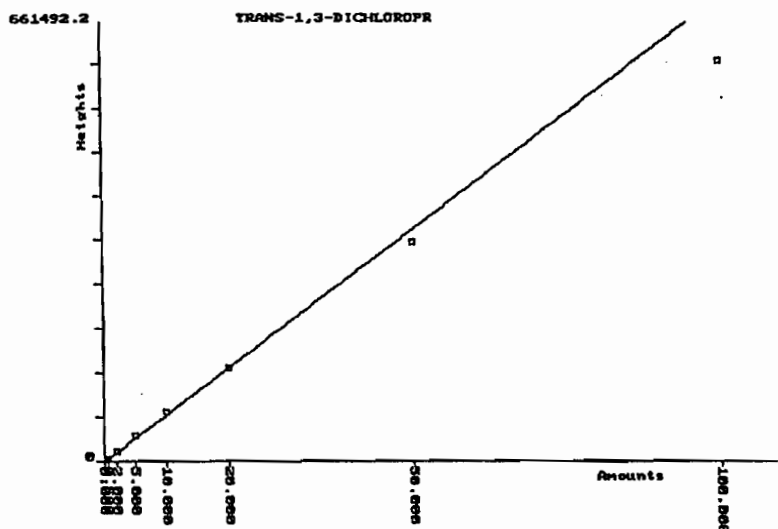
25 CIS-1,3-DICHLOROPROP Ret time= 20.220 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 3679   | 73589.9E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 15375  | 76877.2E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 39446  | 78891.2E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 76464  | 76464.2E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 143865 | 71932.5E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 335119 | 67023.9E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 607632 | 60763.2E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9728716 Ave error=6.1166%  
 Height = +72.22e02\*X^1  
 Average CF (EPA method 8000) = 7222.0303 with %RSD = 8.838%

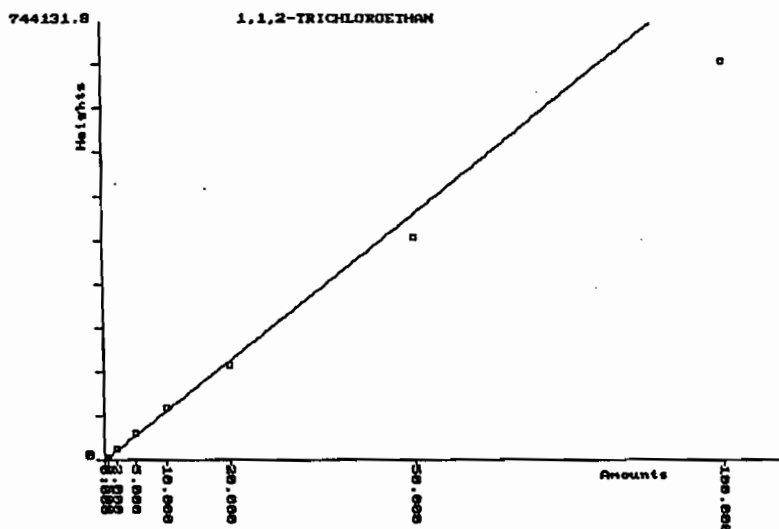
26 TRANS-1,3-DICHLOROPR Ret time= 21.176 min. Search window= 0.100 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 3414   | 68285.4E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 14574  | 72871.1E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 37967  | 75934.5E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 74190  | 74189.9E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 139197 | 69598.5E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 328100 | 65620.0E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 601667 | 60166.7E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9815217 Ave error=5.3434%  
 Height = +69.524e02\*X^1  
 Average CF (EPA method 8000) = 6952.3726 with %RSD = 7.843%

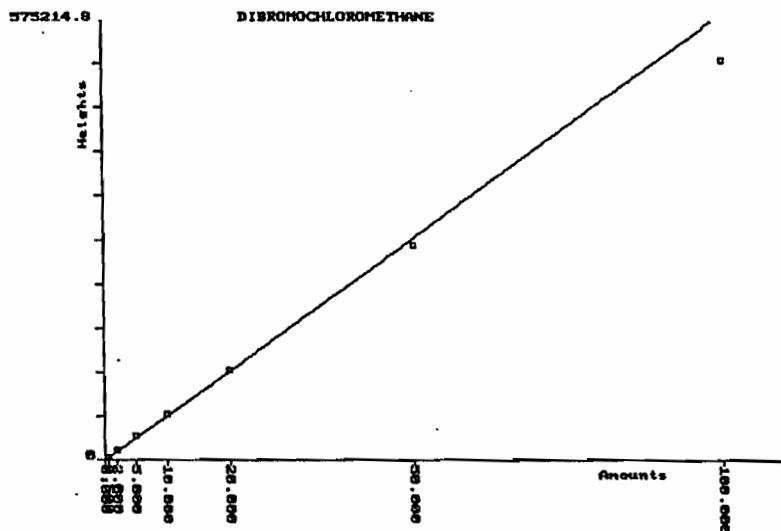
27 1,1,2-TRICHLOROETHAN Ret time= 21.406 min. Search window= 0.100 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 4503   | 90069.9E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 18552  | 92757.9E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 46031  | 92061.1E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 88246  | 88245.5E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 162121 | 81060.7E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 378416 | 75683.3E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 676893 | 67689.3E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9558294 Ave error=8.5603%  
 Height = +83.938e02\*X^1  
 Average CF (EPA method 8000) = 8393.8262 with %RSD = 11.306%

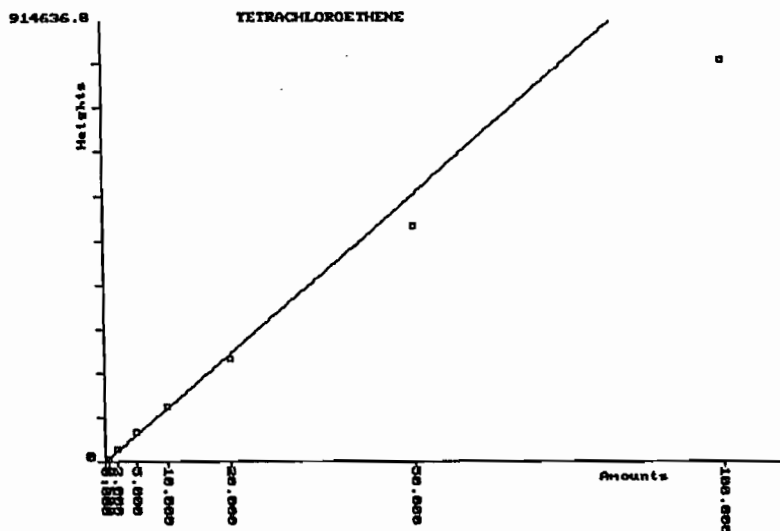
29 DIBROMOCHLOROMETHANE Ret time= 22.253 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 2844   | 56873.3E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 12070  | 60349.6E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 31383  | 62766.9E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 60888  | 60887.9E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 117780 | 58890.2E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 282632 | 56526.4E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 523181 | 52318.1E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9898901 Ave error=4.0951%  
 Height = +58.373e02\*X^1  
 Average CF (EPA method 8000) = 5837.3203 with %RSD = 5.94%

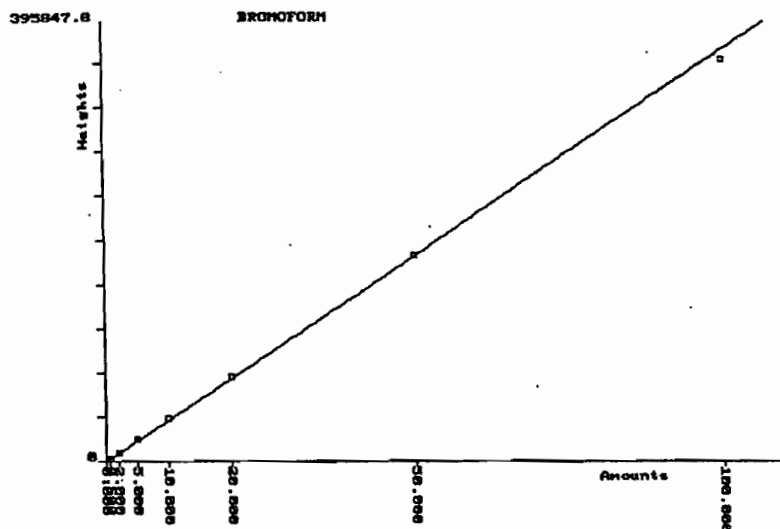
31 TETRACHLOROETHENE Ret time= 22.974 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 6299   | 12597.4E+00 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 25035  | 12517.6E+00 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 61600  | 12319.9E+00 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 115786 | 11578.6E+00 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 213583 | 10679.1E+00 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 489091 | 97818.3E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 832061 | 83206.1E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9170033 Ave error=11.0066%  
 Height = +11.114e03\*X^1  
 Average CF (EPA method 8000) = 11113.583 with %RSD = 14.512%

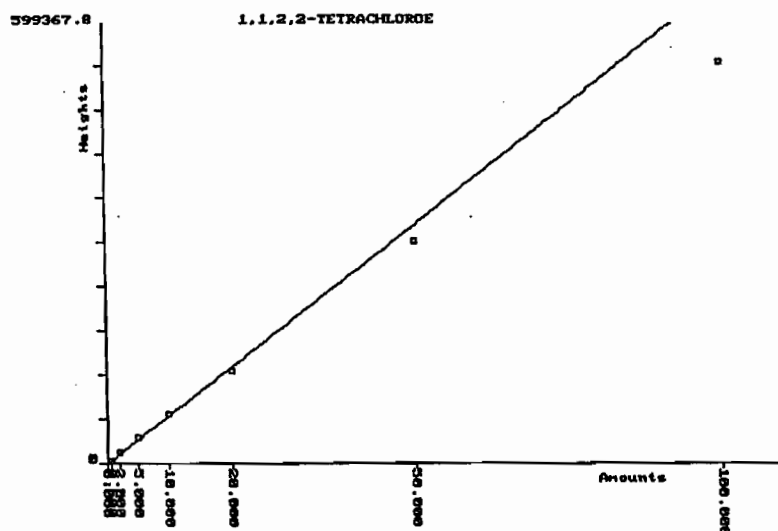
34 BROMOFORM Ret time= 24.704 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 1670   | 33406.7E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 7337   | 36683.0E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 19716  | 39432.4E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 38242  | 38241.7E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 75917  | 37958.4E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 185509 | 37101.7E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 360014 | 36001.4E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9994046 Ave error=3.3323%  
 Height = +36.975e02\*X^1  
 Average CF (EPA method 8000) = 3697.5027 with %RSD = 5.225%

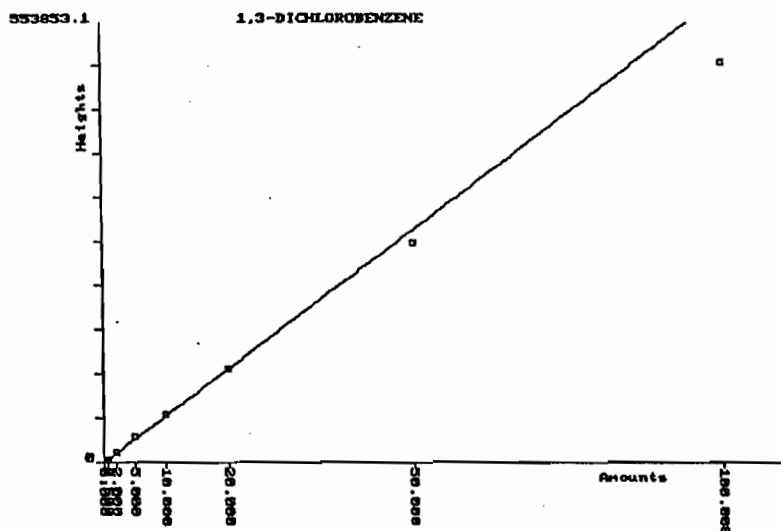
35 1,1,2,2-TETRACHLORO Ret time= 25.194 min. Search window= 0.100 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 3403   | 68068.8E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 14226  | 71127.6E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 35634  | 71267.4E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 66267  | 66267.2E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 125069 | 62534.5E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 302620 | 60524.0E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 545189 | 54518.9E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9724752 Ave error=6.8077%  
 Height = +64.901e02\*X^1  
 Average CF (EPA method 8000) = 6490.1196 with %RSD = 9.409%

40 1,3-DICHLOROBENZENE Ret time= 27.719 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.

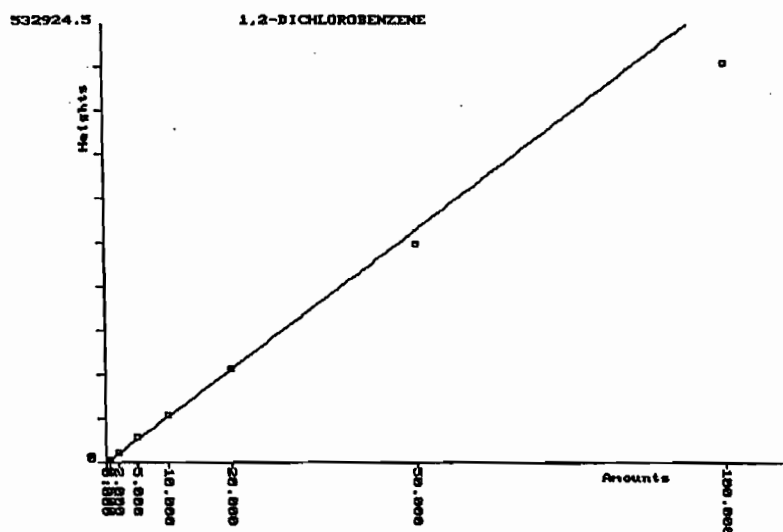


| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 3018   | 60358.1E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 12248  | 61238.7E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 31803  | 63605.0E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 60401  | 60401.3E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 117702 | 58850.9E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 275615 | 55122.9E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 503777 | 50377.7E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9798821 Ave error=5.1604%  
 Height = +58.565e02\*X^1  
 Average CF (EPA method 8000) = 5856.4946 with %RSD = 7.575%



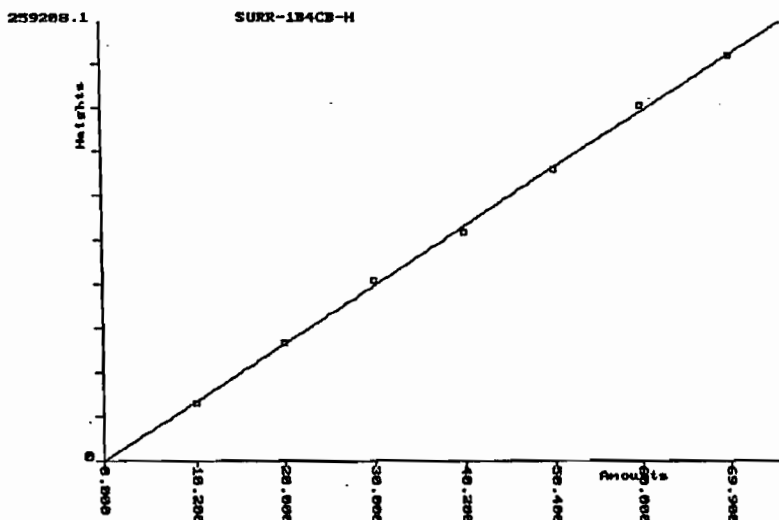
42 1,2-DICHLOROBENZENE Ret time= 28.444 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|-----------|--------|-------------|-----------|------------------|
| 1     | 0.50000   | 2933   | 58651.1E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 2.00000   | 11976  | 59881.0E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 5.00000   | 30507  | 61013.7E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 10.00000  | 57647  | 57647.4E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 20.00000  | 114588 | 57293.9E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 50.00000  | 265424 | 53084.8E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 100.00000 | 484743 | 48474.3E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9786952 Ave error=5.3404%  
 Height = +56.578e02\*X^1  
 Average CF (EPA method 8000) = 5657.8047 with %RSD = 7.718%

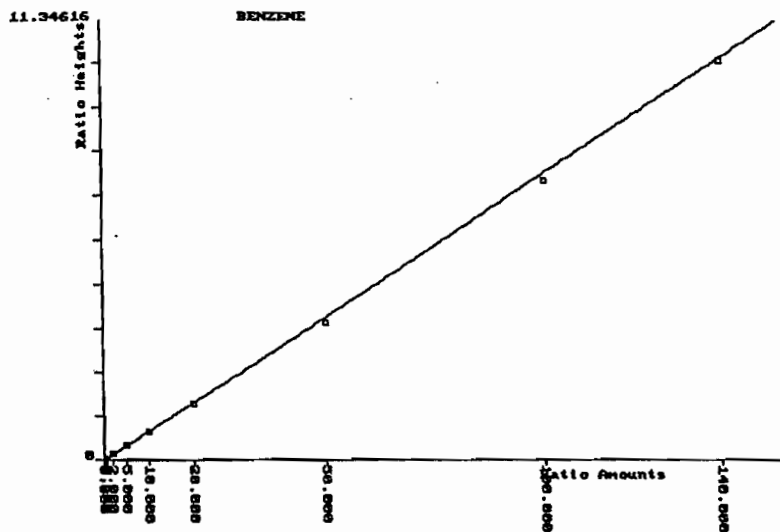
44 SURR-1B4CB-H Ret time= 30.132 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 No internal standard for this compound.  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT   | HEIGHT | HEIGHT/Amt  | Source    | Date Updated     |
|-------|----------|--------|-------------|-----------|------------------|
| 1     | 10.20000 | 34269  | 33596.7E-01 | 18365.03A | 12-31-2001 03:26 |
| 2     | 20.00000 | 69259  | 34629.5E-01 | 18365.04A | 12-31-2001 04:10 |
| 3     | 30.00000 | 105963 | 35321.0E-01 | 18365.05A | 12-31-2001 04:53 |
| 4     | 40.20000 | 134073 | 33351.6E-01 | 18365.06A | 12-31-2001 05:36 |
| 5     | 50.40000 | 171097 | 33947.9E-01 | 18365.07A | 12-31-2001 06:19 |
| 6     | 60.00000 | 209612 | 34935.3E-01 | 18365.08A | 12-31-2001 07:02 |
| 7     | 69.90000 | 238759 | 34157.2E-01 | 18365.09A | 12-31-2001 07:45 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9997359 Ave error=1.4972%  
 Height = +34.277e02\*X^1  
 Average CF (EPA method 8000) = 3427.7031 with %RSD = 2.093%

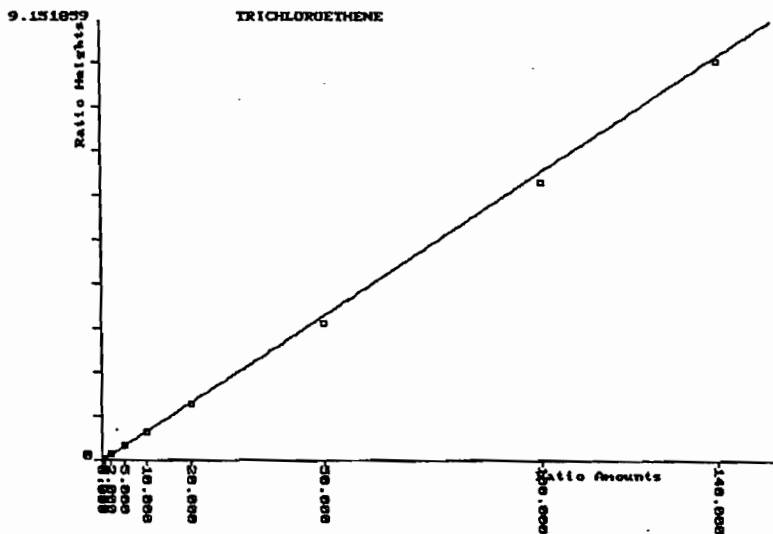
7 BENZENE Ret time= 16.012 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 Internal standard=ISTD-FBENZENE at 16.94757 minutes  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | INT AMT | INT HEIGHT | RATIO AMT | RATIO HEIGHT | Source     | Date Updated     |
|-------|-----------|--------|---------|------------|-----------|--------------|------------|------------------|
| 1     | 0.50000   | 408    | 1.0000  | 10461      | 0.5000    | 0.0390       | 18365B.03A | 12-31-2001 03:28 |
| 2     | 2.00000   | 1615   | 1.0000  | 10654      | 2.0000    | 0.1516       | 18365B.04A | 12-31-2001 04:12 |
| 3     | 5.00000   | 4056   | 1.0000  | 10847      | 5.0000    | 0.3740       | 18365B.05A | 12-31-2001 04:55 |
| 4     | 10.00000  | 8130   | 1.0000  | 10998      | 10.0000   | 0.7392       | 18365B.06A | 12-31-2001 05:38 |
| 5     | 20.00000  | 15676  | 1.0000  | 10671      | 20.0000   | 1.4690       | 18365B.07A | 12-31-2001 06:21 |
| 6     | 50.00000  | 38965  | 1.0000  | 10870      | 50.0000   | 3.5846       | 18365B.08A | 12-31-2001 07:04 |
| 7     | 100.00000 | 79580  | 1.0000  | 11059      | 100.0000  | 7.1957       | 18365B.09A | 12-31-2001 07:47 |
| 8     | 140.00000 | 110242 | 1.0000  | 10684      | 140.0000  | 10.3182      | 18365B.10A | 12-31-2001 08:30 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .999612 Ave error=1.8006%  
 Ratio Height = +74.152e-03\*X^1  
 Average CF (EPA method 8000) = 0.0742 with %RSD = 2.741%

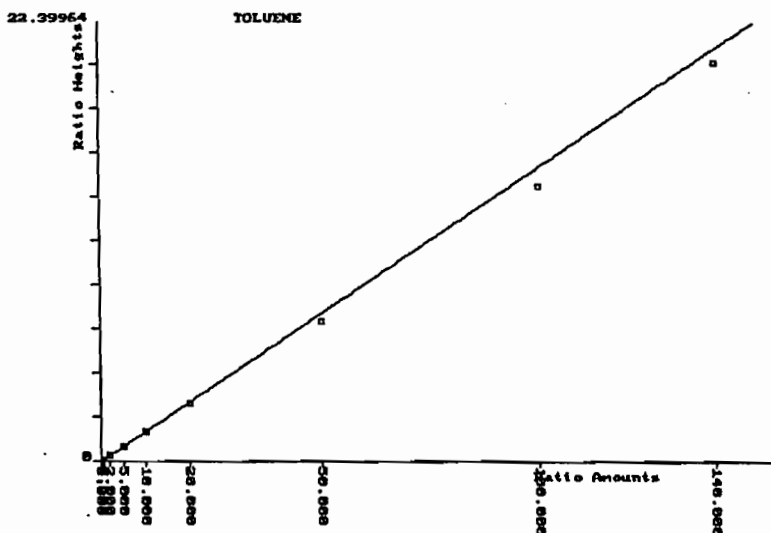
9 TRICHLOROETHENE Ret time= 18.349 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 Internal standard=ISTD-FBENZENE at 16.94757 minutes  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | INT AMT | INT HEIGHT | RATIO AMT | RATIO HEIGHT | Source     | Date Updated     |
|-------|-----------|--------|---------|------------|-----------|--------------|------------|------------------|
| 1     | 0.50000   | 338    | 1.0000  | 10461      | 0.5000    | 0.0323       | 18365B.03A | 12-31-2001 03:28 |
| 2     | 2.00000   | 1320   | 1.0000  | 10654      | 2.0000    | 0.1239       | 18365B.04A | 12-31-2001 04:12 |
| 3     | 5.00000   | 3302   | 1.0000  | 10847      | 5.0000    | 0.3044       | 18365B.05A | 12-31-2001 04:55 |
| 4     | 10.00000  | 6541   | 1.0000  | 10998      | 10.0000   | 0.5948       | 18365B.06A | 12-31-2001 05:38 |
| 5     | 20.00000  | 12540  | 1.0000  | 10671      | 20.0000   | 1.1751       | 18365B.07A | 12-31-2001 06:21 |
| 6     | 50.00000  | 31151  | 1.0000  | 10870      | 50.0000   | 2.8657       | 18365B.08A | 12-31-2001 07:04 |
| 7     | 100.00000 | 63986  | 1.0000  | 11059      | 100.0000  | 5.7857       | 18365B.09A | 12-31-2001 07:47 |
| 8     | 140.00000 | 88922  | 1.0000  | 10684      | 140.0000  | 8.3228       | 18365B.10A | 12-31-2001 08:30 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9993412 Ave error=2.7027%  
 Ratio Height =  $+60.046e-03 \times X^1$   
 Average CF (EPA method 8000) = 0.06 with %RSD = 4.002%

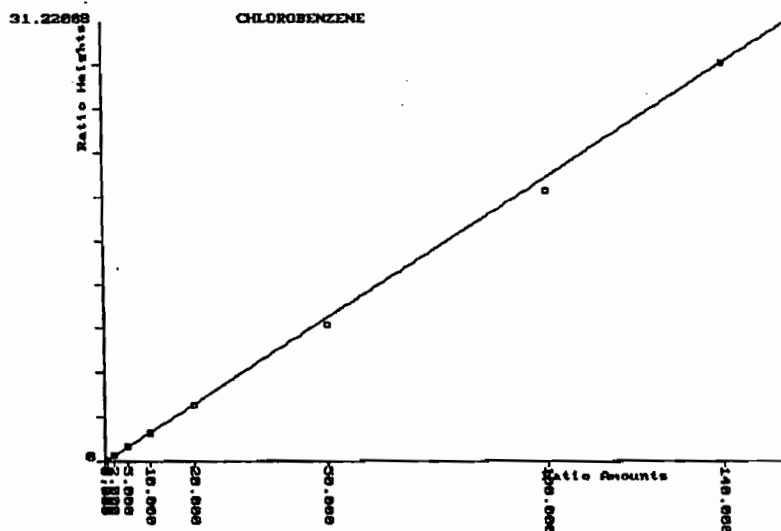
13 TOLUENE Ret time= 21.738 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 Internal standard=ISTD-FBENZENE at 16.94757 minutes  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | INT AMT | INT HEIGHT | RATIO AMT | RATIO HEIGHT | Source     | Date Updated     |
|-------|-----------|--------|---------|------------|-----------|--------------|------------|------------------|
| 1     | 0.50000   | 853    | 1.0000  | 10461      | 0.5000    | 0.0816       | 18365B.03A | 12-31-2001 03:28 |
| 2     | 2.00000   | 3359   | 1.0000  | 10654      | 2.0000    | 0.3153       | 18365B.04A | 12-31-2001 04:12 |
| 3     | 5.00000   | 8356   | 1.0000  | 10847      | 5.0000    | 0.7704       | 18365B.05A | 12-31-2001 04:55 |
| 4     | 10.00000  | 16553  | 1.0000  | 10998      | 10.0000   | 1.5052       | 18365B.06A | 12-31-2001 05:38 |
| 5     | 20.00000  | 31575  | 1.0000  | 10671      | 20.0000   | 2.9588       | 18365B.07A | 12-31-2001 06:21 |
| 6     | 50.00000  | 77224  | 1.0000  | 10870      | 50.0000   | 7.1042       | 18365B.08A | 12-31-2001 07:04 |
| 7     | 100.00000 | 155459 | 1.0000  | 11059      | 100.0000  | 14.0568      | 18365B.09A | 12-31-2001 07:47 |
| 8     | 140.00000 | 217644 | 1.0000  | 10684      | 140.0000  | 20.3707      | 18365B.10A | 12-31-2001 08:30 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9977458 Ave error=3.6331%  
 Ratio Height =  $+15.019e-02 \cdot X^1$   
 Average CF (EPA method 8000) = 0.1502 with %RSD = 5.181%

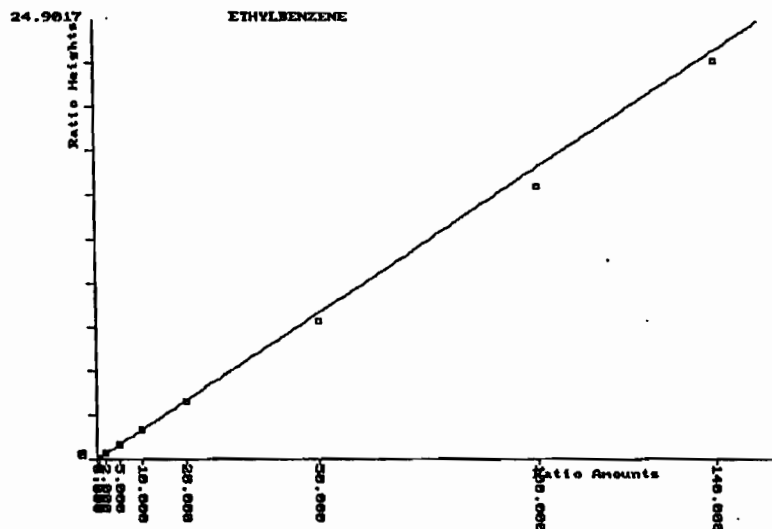
15 CHLORO BENZENE Ret time= 23.999 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 Internal standard=ISTD-FBENZENE at 16.94757 minutes  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | INT AMT | INT HEIGHT | RATIO AMT | RATIO HEIGHT | Source     | Date Updated     |
|-------|-----------|--------|---------|------------|-----------|--------------|------------|------------------|
| 1     | 0.50000   | 1116   | 1.0000  | 10461      | 0.5000    | 0.1067       | 18365B.03A | 12-31-2001 03:28 |
| 2     | 2.00000   | 4469   | 1.0000  | 10654      | 2.0000    | 0.4195       | 18365B.04A | 12-31-2001 04:12 |
| 3     | 5.00000   | 11187  | 1.0000  | 10847      | 5.0000    | 1.0314       | 18365B.05A | 12-31-2001 04:55 |
| 4     | 10.00000  | 22220  | 1.0000  | 10998      | 10.0000   | 2.0204       | 18365B.06A | 12-31-2001 05:38 |
| 5     | 20.00000  | 42937  | 1.0000  | 10671      | 20.0000   | 4.0236       | 18365B.07A | 12-31-2001 06:21 |
| 6     | 50.00000  | 105083 | 1.0000  | 10870      | 50.0000   | 9.6671       | 18365B.08A | 12-31-2001 07:04 |
| 7     | 100.00000 | 213399 | 1.0000  | 11059      | 100.0000  | 19.2958      | 18365B.09A | 12-31-2001 07:47 |
| 8     | 140.00000 | 303341 | 1.0000  | 10684      | 140.0000  | 28.3916      | 18365B.10A | 12-31-2001 08:30 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9990926 Ave error=2.3471%  
 Ratio Height = +20.272e-02\*X^1  
 Average CF (EPA method 8000) = 0.2027 with %RSD = 3.547%

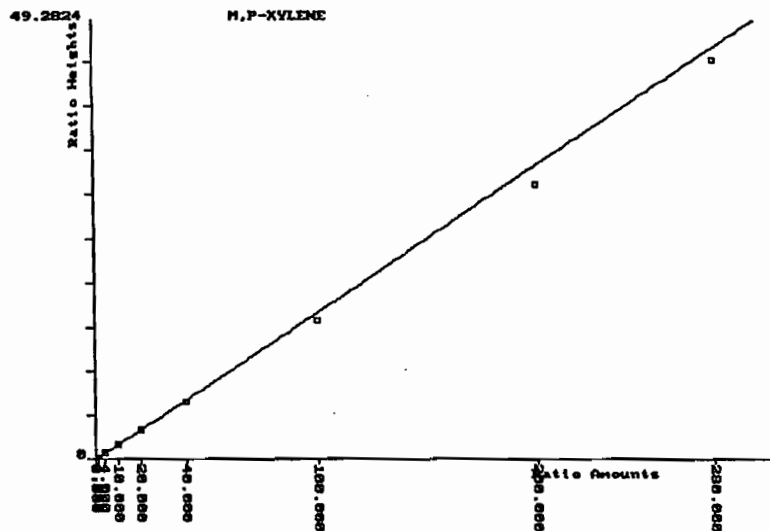
16 ETHYLBENZENE Ret time= 24.314 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 Internal standard=ISTD-FBENZENE at 16.94757 minutes  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | INT AMT | INT HEIGHT | RATIO AMT | RATIO HEIGHT | Source     | Date Updated     |
|-------|-----------|--------|---------|------------|-----------|--------------|------------|------------------|
| 1     | 0.50000   | 943    | 1.0000  | 10461      | 0.5000    | 0.0901       | 18365B.03A | 12-31-2001 03:28 |
| 2     | 2.00000   | 3686   | 1.0000  | 10654      | 2.0000    | 0.3460       | 18365B.04A | 12-31-2001 04:12 |
| 3     | 5.00000   | 9214   | 1.0000  | 10847      | 5.0000    | 0.8495       | 18365B.05A | 12-31-2001 04:55 |
| 4     | 10.00000  | 18233  | 1.0000  | 10998      | 10.0000   | 1.6579       | 18365B.06A | 12-31-2001 05:38 |
| 5     | 20.00000  | 34797  | 1.0000  | 10671      | 20.0000   | 3.2608       | 18365B.07A | 12-31-2001 06:21 |
| 6     | 50.00000  | 85282  | 1.0000  | 10870      | 50.0000   | 7.8455       | 18365B.08A | 12-31-2001 07:04 |
| 7     | 100.00000 | 171227 | 1.0000  | 11059      | 100.0000  | 15.4826      | 18365B.09A | 12-31-2001 07:47 |
| 8     | 140.00000 | 241955 | 1.0000  | 10684      | 140.0000  | 22.6461      | 18365B.10A | 12-31-2001 08:30 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9979748 Ave error=3.5014%  
 Ratio Height = +16.569e-02\*X^1  
 Average CF (EPA method 8000) = 0.1657 with %RSD = 5.106%

17 M,P-XYLENE Ret time= 24.606 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 Internal standard=ISTD-FBENZENE at 16.94757 minutes  
 Group number = 1 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.

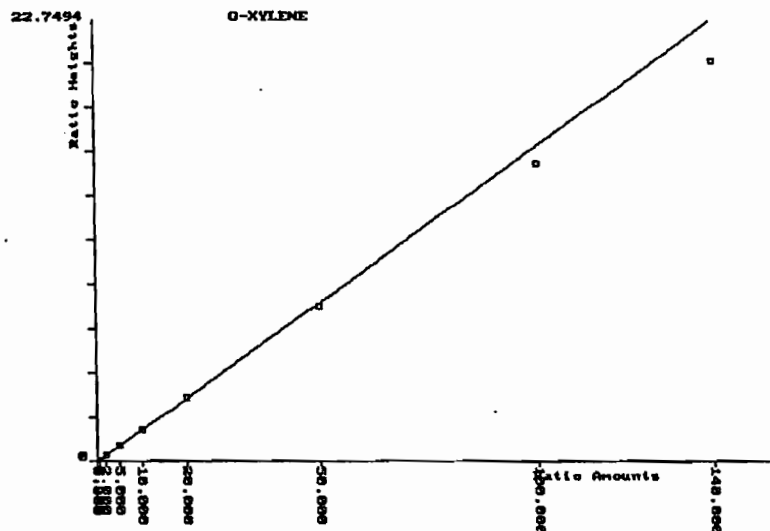


| LEVEL | AMOUNT    | HEIGHT | INT AMT | INT HEIGHT | RATIO AMT | RATIO HEIGHT | Source     | Date Updated     |
|-------|-----------|--------|---------|------------|-----------|--------------|------------|------------------|
| 1     | 1.00000   | 1878   | 1.0000  | 10461      | 1.0000    | 0.1796       | 18365B.03A | 12-31-2001 03:28 |
| 2     | 4.00000   | 7354   | 1.0000  | 10654      | 4.0000    | 0.6902       | 18365B.04A | 12-31-2001 04:12 |
| 3     | 10.00000  | 18353  | 1.0000  | 10847      | 10.0000   | 1.6920       | 18365B.05A | 12-31-2001 04:55 |
| 4     | 20.00000  | 36140  | 1.0000  | 10998      | 20.0000   | 3.2861       | 18365B.06A | 12-31-2001 05:38 |
| 5     | 40.00000  | 69052  | 1.0000  | 10671      | 40.0000   | 6.4708       | 18365B.07A | 12-31-2001 06:21 |
| 6     | 100.00000 | 170529 | 1.0000  | 10870      | 100.0000  | 15.6878      | 18365B.08A | 12-31-2001 07:04 |
| 7     | 200.00000 | 340274 | 1.0000  | 11059      | 200.0000  | 30.7680      | 18365B.09A | 12-31-2001 07:47 |
| 8     | 280.00000 | 478849 | 1.0000  | 10684      | 280.0000  | 44.8185      | 18365B.10A | 12-31-2001 08:30 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9978033 Ave error=3.6196%  
 Ratio Height = +16.477e-02\*X^1  
 Average CF (EPA method 8000) = 0.1648 with %RSD = 5.19%



19 O-XYLENE Ret time= 25.175 min. Search window= 0.060 min.  
 No reference peak for this compound.  
 Internal standard=ISTD-FBENZENE at 16.94757 minutes  
 Group number = 1 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | INT AMT | INT HEIGHT | RATIO AMT | RATIO HEIGHT | Source     | Date Updated     |
|-------|-----------|--------|---------|------------|-----------|--------------|------------|------------------|
| 1     | 0.50000   | 921    | 1.0000  | 10461      | 0.5000    | 0.0881       | 18365B.03A | 12-31-2001 03:28 |
| 2     | 2.00000   | 3609   | 1.0000  | 10654      | 2.0000    | 0.3387       | 18365B.04A | 12-31-2001 04:12 |
| 3     | 5.00000   | 9045   | 1.0000  | 10847      | 5.0000    | 0.8339       | 18365B.05A | 12-31-2001 04:55 |
| 4     | 10.00000  | 18092  | 1.0000  | 10998      | 10.0000   | 1.6450       | 18365B.06A | 12-31-2001 05:38 |
| 5     | 20.00000  | 35102  | 1.0000  | 10671      | 20.0000   | 3.2894       | 18365B.07A | 12-31-2001 06:21 |
| 6     | 50.00000  | 86485  | 1.0000  | 10870      | 50.0000   | 7.9562       | 18365B.08A | 12-31-2001 07:04 |
| 7     | 100.00000 | 169449 | 1.0000  | 11059      | 100.0000  | 15.3218      | 18365B.09A | 12-31-2001 07:47 |
| 8     | 140.00000 | 221048 | 1.0000  | 10684      | 140.0000  | 20.6893      | 18365B.10A | 12-31-2001 08:30 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9928726 Ave error=3.8619%  
 Ratio Height =  $+16.268e-02 \times X^1$   
 Average CF (EPA method 8000) = 0.1627 with %RSD = 5.568%

30 1,4-DICHLOROBENZENE Ret time= 27.808 min. Search window= 0.040 min.

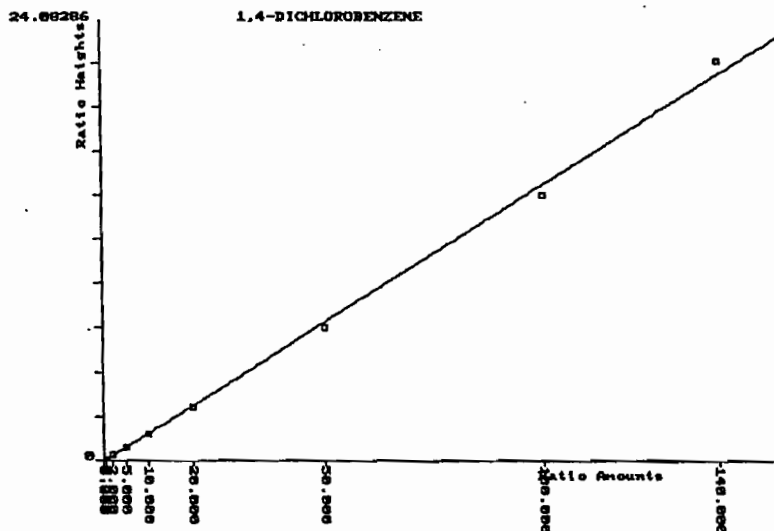
No reference peak for this compound.

Internal standard=ISTD-FBENZENE at 16.94757 minutes

High Alarm amount = 0 Low Alarm amount = 0

Component constant = 0

Quantitation will be by peak height.



| LEVEL | AMOUNT    | HEIGHT | INT AMT | INT HEIGHT | RATIO AMT | RATIO HEIGHT | Source     | Date Updated     |
|-------|-----------|--------|---------|------------|-----------|--------------|------------|------------------|
| 1     | 0.50000   | 827    | 1.0000  | 10461      | 0.5000    | 0.0790       | 18365B.03A | 12-31-2001 03:28 |
| 2     | 2.00000   | 3291   | 1.0000  | 10654      | 2.0000    | 0.3089       | 18365B.04A | 12-31-2001 04:12 |
| 3     | 5.00000   | 8223   | 1.0000  | 10847      | 5.0000    | 0.7581       | 18365B.05A | 12-31-2001 04:55 |
| 4     | 10.00000  | 16292  | 1.0000  | 10998      | 10.0000   | 1.4814       | 18365B.06A | 12-31-2001 05:38 |
| 5     | 20.00000  | 31672  | 1.0000  | 10671      | 20.0000   | 2.9680       | 18365B.07A | 12-31-2001 06:21 |
| 6     | 50.00000  | 78527  | 1.0000  | 10870      | 50.0000   | 7.2240       | 18365B.08A | 12-31-2001 07:04 |
| 7     | 100.00000 | 160325 | 1.0000  | 11059      | 100.0000  | 14.4968      | 18365B.09A | 12-31-2001 07:47 |
| 8     | 140.00000 | 233991 | 1.0000  | 10684      | 140.0000  | 21.9007      | 18365B.10A | 12-31-2001 08:30 |

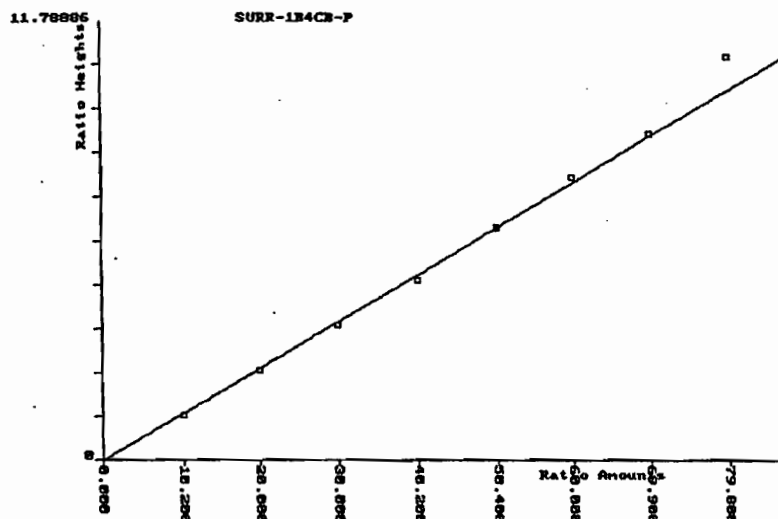
Fit type = Average CF with equal weighting, forced through zero

Coef of determination= .9985886 Ave error=2.5466%

Ratio Height =  $+15.082e-02 \times X^1$

Average CF (EPA method 8000) = 0.1508 with %RSD = 3.411%

34 SURR-1B4CB-P Ret time= 30.104 min. Search window= 0.200 min.  
 No reference peak for this compound.  
 Internal standard=ISTD-FBENZENE at 16.94757 minutes  
 High Alarm amount = 0 Low Alarm amount = 0  
 Component constant = 0  
 Quantitation will be by peak height.



| LEVEL | AMOUNT   | HEIGHT | INT AMT | INT HEIGHT | RATIO AMT | RATIO HEIGHT | Source     | Date Updated     |
|-------|----------|--------|---------|------------|-----------|--------------|------------|------------------|
| 1     | 10.20000 | 12690  | 1.0000  | 10461      | 10.2000   | 1.2131       | 18365B.03A | 12-31-2001 03:28 |
| 2     | 20.00000 | 25762  | 1.0000  | 10654      | 20.0000   | 2.4181       | 18365B.04A | 12-31-2001 04:12 |
| 3     | 30.00000 | 39607  | 1.0000  | 10847      | 30.0000   | 3.6515       | 18365B.05A | 12-31-2001 04:55 |
| 4     | 40.20000 | 53624  | 1.0000  | 10998      | 40.2000   | 4.8759       | 18365B.06A | 12-31-2001 05:38 |
| 5     | 50.40000 | 67001  | 1.0000  | 10671      | 50.4000   | 6.2786       | 18365B.07A | 12-31-2001 06:21 |
| 6     | 60.00000 | 82650  | 1.0000  | 10870      | 60.0000   | 7.6034       | 18365B.08A | 12-31-2001 07:04 |
| 7     | 69.90000 | 96828  | 1.0000  | 11059      | 69.9000   | 8.7553       | 18365B.09A | 12-31-2001 07:47 |
| 8     | 79.80000 | 115682 | 1.0000  | 10684      | 79.8000   | 10.8274      | 18365B.10A | 12-31-2001 08:30 |

Fit type = Average CF with equal weighting, forced through zero  
 Coef of determination= .9974188 Ave error=2.5813%  
 Ratio Height = +12.438e-02\*X^1  
 Average CF (EPA method 8000) = 0.1244 with %RSD = 4.216%

Quality Control Summary  
SDG# HUL03  
Instrument ID: 5843  
Beginning Calibration Verification Summary

CCV Batch: 01365A18  
Data File: C:\CP\DATA1\18365.17R  
Date Injected: 12/31/01 Time Injected: 13:34  
Initial Calibration Date(s): 12/31/01(HALL)  
Initial Calibration Date(s): 12/31/01(PID)

| Sample Information |              |          |               |
|--------------------|--------------|----------|---------------|
| LL Sample#         | Sample Code  | Date     | Analysis Time |
| BLK1808            | METHOD BLANK | 12/31/01 | 15:15         |
| 3749345            | AWA1U        | 12/31/01 | 16:54         |
| 3750934MS          | AWA1U        | 12/31/01 | 17:54         |
| 3750935MSD         | AWA1U        | 12/31/01 | 18:37         |
| LCS1802            | LAB CONTROL  | 12/31/01 | 19:20         |

| COMPOUND (DETECTOR)         | THEORETICAL CONCENTRATION (UG/L ) | ACTUAL CONCENTRATION (UG/L ) | % DRIFT | %DRIFT LIMITS |
|-----------------------------|-----------------------------------|------------------------------|---------|---------------|
| DICHLORODIFLUOROMETH (HALL) | 20.0                              | 23.7                         | 19      | -20 to +20    |
| CHLOROMETHANE (HALL)        | 20.0                              | 17.4                         | -13     | -20 to +20    |
| VINYL CHLORIDE (HALL)       | 20.0                              | 19.7                         | -1      | -20 to +20    |
| BROMOMETHANE (HALL)         | 20.0                              | 18.2                         | -9      | -20 to +20    |
| CHLOROETHANE (HALL)         | 20.0                              | 18.1                         | -9      | -20 to +20    |
| TRICHLOROFLUOROMETHA (HALL) | 20.0                              | 17.2                         | -14     | -20 to +20    |
| 1,1-DICHLOROETHENE (HALL)   | 20.0                              | 19.9                         | 0       | -15 to +15    |
| METHYLENE CHLORIDE (HALL)   | 20.0                              | 17.7                         | -12     | -15 to +15    |
| TRANS-1,2-DICHLOROET (HALL) | 20.0                              | 19.4                         | -3      | -15 to +15    |
| 1,1-DICHLOROETHANE (HALL)   | 20.0                              | 19.6                         | -2      | -15 to +15    |
| CIS-1,2-DICHLOROETHE (HALL) | 20.0                              | 19.6                         | -2      | -15 to +15    |
| CHLOROFORM (HALL)           | 20.0                              | 19.4                         | -3      | -15 to +15    |
| 1,2-DICHLOROETHANE (HALL)   | 20.0                              | 19.7                         | -1      | -15 to +15    |
| 1,1,1-TRICHLOROETHAN (HALL) | 20.0                              | 19.2                         | -4      | -15 to +15    |
| CARBON TETRACHLORIDE (HALL) | 20.0                              | 19.4                         | -3      | -15 to +15    |
| BENZENE (PID)               | 20.0                              | 18.5                         | -7      | -15 to +15    |
| 1,2-DICHLOROPROPANE (HALL)  | 20.0                              | 19.7                         | -2      | -15 to +15    |

Quality Control Summary  
SDG# HUL03  
Instrument ID: 5843  
Beginning Calibration Verification Summary

CCV Batch: 01365A18  
Data File: C:\CP\DATA1\18365.17R  
Date Injected: 12/31/01 Time Injected: 13:34  
Initial Calibration Date(s): 12/31/01 (HALL)  
Initial Calibration Date(s): 12/31/01 (PID)

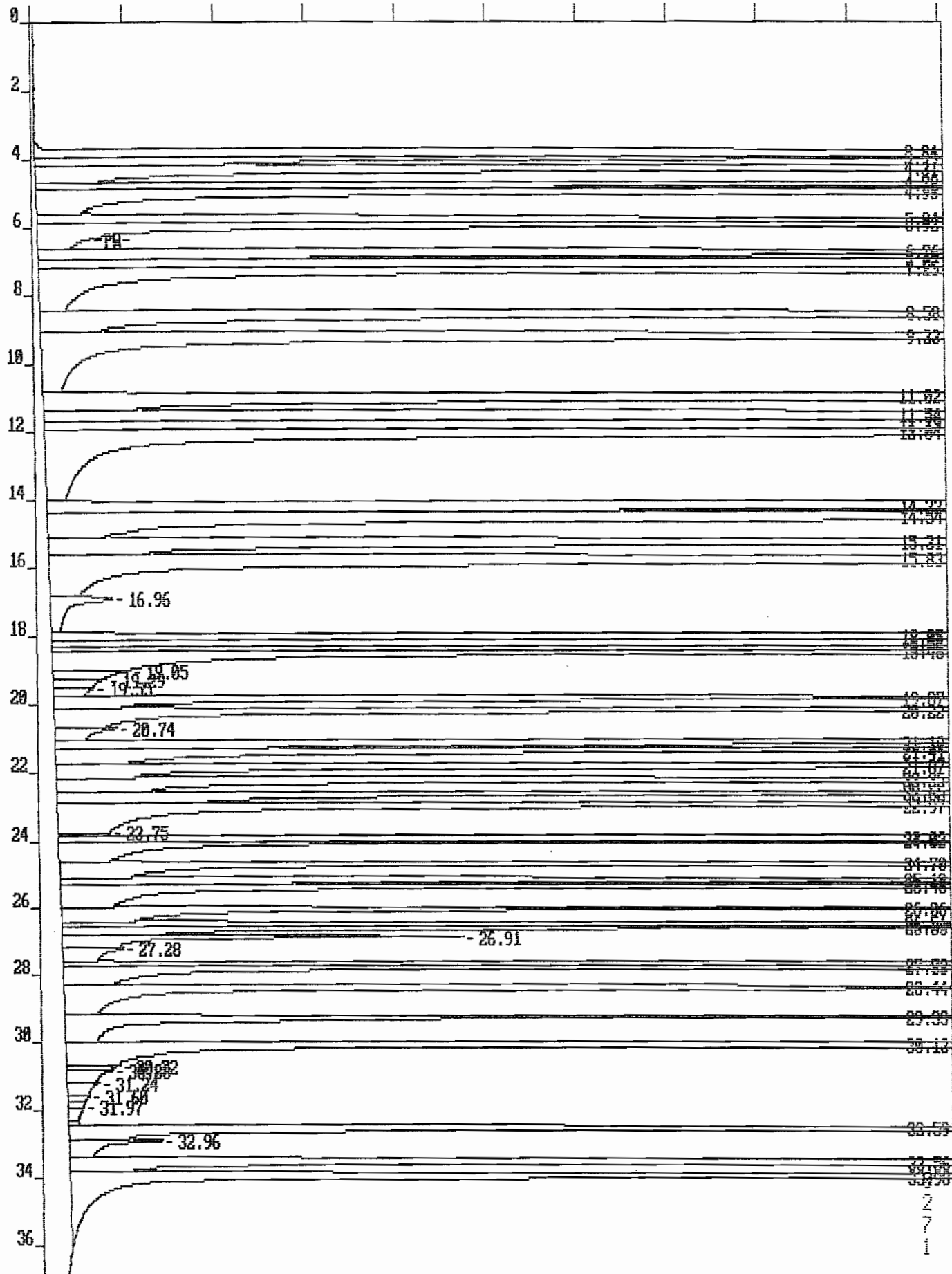
| COMPOUND (DETECTOR)         | THEORETICAL<br>CONCENTRATION<br>(UG/L ) | ACTUAL<br>CONCENTRATION<br>(UG/L ) | % DRIFT | %DRIFT<br>LIMITS |
|-----------------------------|-----------------------------------------|------------------------------------|---------|------------------|
| TRICHLOROETHENE (PID)       | 20.0                                    | 18.2                               | -9      | -15 to +15       |
| BROMODICHLOROMETHANE (HALL) | 20.0                                    | 18.6                               | -7      | -15 to +15       |
| CIS-1,3-DICHLOROPROP (HALL) | 20.0                                    | 19.0                               | -5      | -15 to +15       |
| TRANS-1,3-DICHLOROPR (HALL) | 20.0                                    | 17.6                               | -12     | -15 to +15       |
| 1,1,2-TRICHLOROETHAN (HALL) | 20.0                                    | 19.3                               | -3      | -15 to +15       |
| TOLUENE (PID)               | 20.0                                    | 18.5                               | -8      | -15 to +15       |
| DIBROMOCHLOROMETHANE (HALL) | 20.0                                    | 20.5                               | 2       | -15 to +15       |
| TETRACHLOROETHENE (HALL)    | 20.0                                    | 19.2                               | -4      | -15 to +15       |
| CHLOROBENZENE (PID)         | 20.0                                    | 18.7                               | -7      | -15 to +15       |
| ETHYLBENZENE (PID)          | 20.0                                    | 18.8                               | -6      | -15 to +15       |
| M, P-XYLENE (PID)           | 40.0                                    | 37.8                               | -5      | -15 to +15       |
| BROMOFORM (HALL)            | 20.0                                    | 21.4                               | 7       | -15 to +15       |
| O-XYLENE (PID)              | 20.0                                    | 19.4                               | -3      | -15 to +15       |
| 1,1,2,2-TETRACHLOROE (HALL) | 20.0                                    | 20.4                               | 2       | -15 to +15       |
| 1,3-DICHLOROBENZENE (HALL)  | 20.0                                    | 20.0                               | 0       | -15 to +15       |
| 1,4-DICHLOROBENZENE (PID)   | 20.0                                    | 19.0                               | -5      | -15 to +15       |
| 1,2-DICHLOROBENZENE (HALL)  | 20.0                                    | 19.7                               | -1      | -15 to +15       |
| SURR-1B4CB-P (PID)          | 30.0                                    | 29.0                               | -3      | -31 to +21       |
| SURR-1B4CB-H (HALL)         | 30.0                                    | 30.5                               | 2       | -41 to +32       |

Mean %Drift for all calibration compounds (HALL) = -5.0  
Mean %Drift for all calibration compounds (PID) = -10.0

File=C:\CP\DATA1\18365.17R Date printed=12-31-2001 Time= 13:35:04

Sample Name=CHKSTD 01365A188400,8401

0.0 to 37.0 min. Low Y=0.008 High Y=15.008 mv Span=15.0



Sample Name: CHKSTD

Batch: 01365A18

Date Taken: Dec 31, 2001 13:34:59

Raw File: C:\CP\DATA1\18365.17R

Area File: C:\CP\DATA1\18365.17A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 10):

| Ret Time | Expected |                      | Amount * | Peak    | Peak   |
|----------|----------|----------------------|----------|---------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area    | Height |
| 3.805    | 3.819    | DICHLORODIFLUOROMETH | 23.7417  | 334613  | 48060  |
| 3.985    | 4.028    | CHLOROMETHANE        | 17.4002  | 254506  | 38879  |
| 4.314    | 4.325    | VINYL CHLORIDE       | 19.7220  | 499435  | 70163  |
| 4.780    | 4.801    | BROMOMETHANE         | 18.2138  | 269491  | 48954  |
| 4.980    | 4.994    | CHLOROETHANE         | 18.1333  | 474922  | 77274  |
| 5.837    | 5.846    | TRICHLOROFLUOROMETHA | 17.1731  | 288421  | 43846  |
| 6.761    | 6.768    | 1,1-DICHLOROETHENE   | 19.9274  | 601292  | 92251  |
| 7.069    | 7.078    | METHYLENE CHLORIDE   | 17.6504  | 873349  | 146446 |
| 7.253    | 7.260    | TRICHLOROTRIFLUOROET | 17.7456  | 672870  | 64459  |
| 8.582    | 8.589    | TRANS-1,2-DICHLOROET | 19.3670  | 841058  | 121002 |
| 9.231    | 9.239    | 1,1-DICHLOROETHANE   | 19.6397  | 903404  | 105102 |
| 11.019   | 11.024   | CIS-1,2-DICHLOROETHE | 19.6366  | 837455  | 99374  |
| 11.537   | 11.542   | BROMOCHLOROMETHANE   | 19.9080  | 585099  | 72459  |
| 11.792   | 11.798   | CHLOROFORM           | 19.3730  | 1093351 | 118488 |
| 12.040   | 12.045   | 2,2-DICHLOROPROPANE  | 18.3891  | 796575  | 59723  |
| 14.223   | 14.225   | 1,2-DICHLOROETHANE   | 19.7152  | 757039  | 94304  |
| 14.542   | 14.543   | 1,1,1-TRICHLOROETHAN | 19.1883  | 1018669 | 95336  |
| 15.305   | 15.304   | 1,1-DICHLOROPROPENE  | 19.4771  | 728655  | 85625  |
| 15.828   | 15.827   | CARBON TETRACHLORIDE | 19.3561  | 1150274 | 117260 |
| 18.048   | 18.045   | DIBROMOMETHANE       | 20.3600  | 352741  | 60351  |
| 18.220   | 18.221   | 1,2-DICHLOROPROPANE  | 19.6962  | 728816  | 112244 |
| 18.377   | 18.376   | TRICHLOROETHENE      | 18.6397  | 890789  | 148992 |
| 18.485   | 18.485   | BROMODICHLOROMETHANE | 18.6464  | 828844  | 126207 |
| 19.872   | 19.871   | 2-CHLOROETHYL VINYL  | 21.6175  | 264473  | 49757  |
| 20.220   | 20.220   | CIS-1,3-DICHLOROPROP | 19.0226  | 697769  | 137382 |
| 21.176   | 21.176   | TRANS-1,3-DICHLOROPR | 17.5781  | 539813  | 122210 |
| 21.406   | 21.407   | 1,1,2-TRICHLOROETHAN | 19.3109  | 775326  | 162092 |
| 21.869   | 21.870   | 1,3-DICHLOROPROPANE  | 19.5616  | 618179  | 137313 |
| 22.253   | 22.253   | DIBROMOCHLOROMETHANE | 20.4960  | 546585  | 119642 |
| 22.648   | 22.647   | 1,2-DIBROMOETHANE    | 20.5303  | 354692  | 77280  |
| 22.974   | 22.975   | TETRACHLOROETHENE    | 19.1717  | 941065  | 213066 |
| 23.925   | 23.928   | 1,1,1,2-TETRACHLOROE | 19.4589  | 852372  | 227715 |
| 24.022   | 24.023   | CHLORO BENZENE       | 19.2305  | 459306  | 106116 |
| 24.704   | 24.703   | BROMOFORM            | 21.3935  | 358006  | 79102  |
| 25.194   | 25.195   | 1,1,2,2-TETRACHLOROE | 20.3949  | 534336  | 132365 |
| 25.398   | 25.398   | 1,2,3-TRICHLOROPROPA | 20.5584  | 468157  | 104905 |
| 26.064   | 26.064   | BROMOBENZENE         | 20.5326  | 268481  | 58118  |
| 26.514   | 26.516   | 2-CHLOROTOLUENE      | 19.9821  | 305821  | 79680  |
| 26.633   | 26.634   | 4-CHLOROTOLUENE      | 19.6203  | 333054  | 79394  |
| 27.719   | 27.721   | 1,3-DICHLOROBENZENE  | 19.9668  | 458721  | 116936 |
| 27.833   | 27.837   | 1,4-DICHLOROBENZENE  | 19.5865  | 551817  | 122078 |
| 28.444   | 28.448   | 1,2-DICHLOROBENZENE  | 19.7487  | 523475  | 111734 |
| 29.330   | 29.331   | 1,2-DIBROMO-3-CHLORO | 22.1259  | 160654  | 24896  |
| 30.132   | 30.132   | SURR-1B4CB-H         | 30.5206  | 543424  | 104616 |
| 32.593   | 32.591   | 1,2,4-TRICHLOROBENZE | 19.6007  | 458489  | 78767  |
| 33.559   | 33.554   | HEXACHLORO BUTADIENE | 18.8490  | 596545  | 89379  |
| 33.985   | 33.980   | 1,2,3-TRICHLOROBENZE | 19.8831  | 466932  | 67923  |

TOTAL 1,2-DICHLOROETHENE: 39.0036

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 101.7354%

Chrom Perfect version 6.07

Reported on 12-31-2001 at 13:35:53

Sample name: CHKSTD

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365.17R

Reviewed by: SLP 688

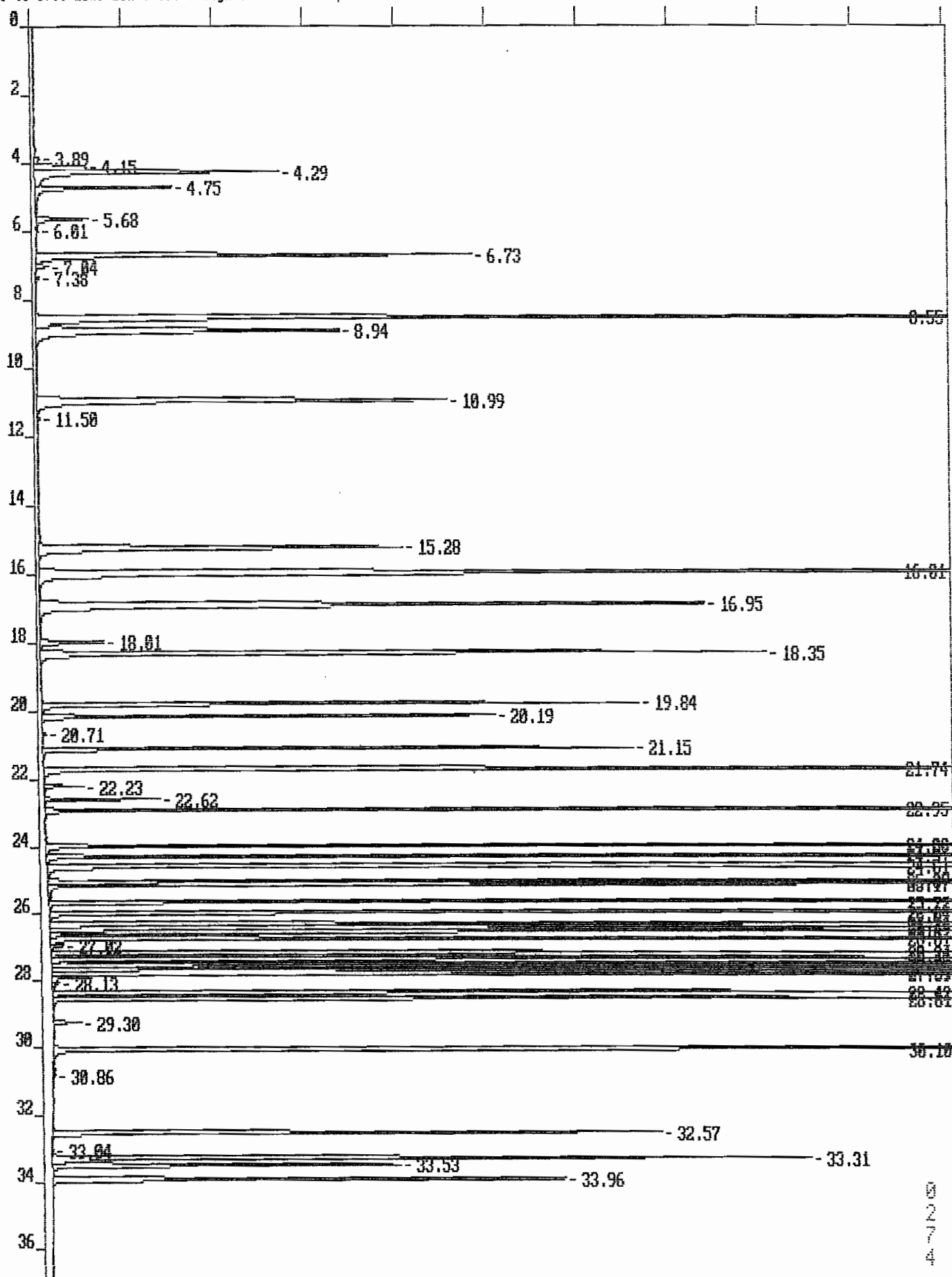
Verified by: UMM 48

Date: 12-31-01

Date: 01/02/02



0.0 to 37.0 min. Low Y=0.011 High Y=15.011 mv Span=15.0



Sample Name: CHKSTD

Batch: 01365A18

Date Taken: Dec 31, 2001 13:34:59

Raw File: C:\CP\DATA1\18365B.17R

Area File: C:\CP\DATA1\18365B.17A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 10):

| Ret Time | Expected | Amount *             | Peak    | Peak   |       |
|----------|----------|----------------------|---------|--------|-------|
| (min)    | RT (min) | (ug/L)               | Area    | Height |       |
| 4.287    | 4.302    | VINYL CHLORIDE       | 11.5759 | 26528  | 4023  |
| 6.733    | 6.741    | 1,1-DICHLOROETHENE   | 18.0920 | 38836  | 7178  |
| 8.554    | 8.561    | TRANS-1,2-DICHLOROET | 17.8289 | 93533  | 16424 |
| 8.939    | 8.954    | METHYL T-BUTYL ETHER | 18.4186 | 44413  | 5002  |
| 10.989   | 10.997   | CIS-1,2-DICHLOROETHE | 18.0180 | 49942  | 6742  |
| 15.276   | 15.281   | 1,1-DICHLOROPROPENE  | 18.2699 | 44485  | 5993  |
| 16.012   | 16.018   | BENZENE              | 18.5379 | 108791 | 15024 |
| 16.948   | 16.950   | ISTD-FBENZENE        | 1.0000  | 82467  | 10930 |
| 18.349   | 18.353   | TRICHLOROETHENE      | 18.1843 | 62275  | 11934 |
| 19.845   | 19.844   | 2-CHLOROETHYL VINYL  | 20.2253 | 39742  | 9856  |
| 20.193   | 20.196   | CIS-1,3-DICHLOROPROP | 18.1129 | 28493  | 7483  |
| 21.151   | 21.153   | TRANS-1,3-DICHLOROPR | 16.4113 | 32034  | 9730  |
| 21.738   | 21.741   | TOLUENE              | 18.4910 | 101802 | 30353 |
| 22.948   | 22.949   | TETRACHLOROETHENE    | 18.5102 | 48869  | 16139 |
| 23.999   | 24.000   | CHLOROBENZENE        | 18.6531 | 106714 | 41329 |
| 24.314   | 24.314   | ETHYLBENZENE         | 18.7917 | 92128  | 34030 |
| 24.606   | 24.608   | M,P-XYLENE           | 37.8361 | 217751 | 68140 |
| 25.072   | 25.073   | STYRENE              | 18.9222 | 116550 | 43386 |
| 25.175   | 25.175   | O-XYLENE             | 19.4129 | 97684  | 34517 |
| 25.719   | 25.718   | ISOPROPYLBENZENE     | 19.5357 | 79434  | 26658 |
| 26.037   | 26.036   | BROMOBENZENE         | 18.8034 | 110257 | 38522 |
| 26.365   | 26.364   | N-PROPYLBENZENE      | 18.7877 | 86006  | 29770 |
| 26.488   | 26.488   | 2-CHLOROTOLUENE      | 19.0461 | 96105  | 33126 |
| 26.607   | 26.606   | 4-CHLOROTOLUENE      | 18.8813 | 98310  | 34725 |
| 26.812   | 26.811   | 1,3,5-TRIMETHYLBENZE | 18.9587 | 126495 | 42424 |
| 27.236   | 27.235   | TERT-BUTYLBENZENE    | 19.1232 | 74334  | 22591 |
| 27.418   | 27.419   | 1,2,4-TRIMETHYLBENZE | 19.0658 | 97455  | 31894 |
| 27.586   | 27.587   | SEC-BUTYLBENZENE     | 18.7455 | 75135  | 22615 |
| 27.693   | 27.692   | 1,3-DICHLOROBENZENE  | 18.9023 | 95661  | 31013 |
| 27.808   | 27.808   | 1,4-DICHLOROBENZENE  | 18.9807 | 95290  | 31288 |
| 27.894   | 27.892   | P-ISOPROPYLTOLUENE   | 19.6237 | 76490  | 23256 |
| 28.418   | 28.417   | 1,2-DICHLOROBENZENE  | 18.7459 | 76013  | 23100 |
| 28.606   | 28.603   | N-BUTYLBENZENE       | 18.8168 | 72267  | 21081 |
| 30.104   | 30.100   | SURR-1B4CB-P         | 29.0240 | 148615 | 39458 |
| 32.565   | 32.562   | 1,2,4-TRICHLOROBENZE | 18.7807 | 47676  | 10055 |
| 33.312   | 33.309   | NAPHTHALENE          | 19.9300 | 61384  | 12498 |
| 33.530   | 33.526   | HEXACHLOROBUTADIENE  | 18.1764 | 32786  | 5754  |
| 33.955   | 33.953   | 1,2,3-TRICHLOROBENZE | 19.1279 | 44787  | 8472  |

XYLENES (Total): 57.2490

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 96.7466%

Chrom Perfect version 6.07

Reported on 12-31-2001at 13:37:46

Internal Standard Calculations From ISTDCHK v. 950609.1130

ISTd height for ISTD-FBENZENE is within range.

ISTd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: CHKSTD

Batch: 01365A188400,840

Raw file: C:\CP\DATA1\18365B.17R

Reviewed by: SKP088

Verified by: UMM46

Date: 12-31-01

Date: 01/02/02

Quality Control Summary  
SDG# HUL03  
Instrument ID: 5843  
Beginning Calibration Verification Summary

CCV Batch: 01365A18  
Data File: C:\CP\DATA\18365.25R  
Date Injected: 12/31/01 Time Injected: 20:15  
Initial Calibration Date(s): 12/31/01 (HALL)  
Initial Calibration Date(s): 12/31/01 (PID)

| Sample Information |              |          |               |
|--------------------|--------------|----------|---------------|
| LL Sample#         | Sample Code  | Date     | Analysis Time |
| BLK1809            | METHOD BLANK | 12/31/01 | 21:55         |
| 3749337            | FIELD        | 12/31/01 | 23:21         |
| 3749340            | AW-3U        | 01/01/02 | 00:04         |
| 3749341            | AW-3L        | 01/01/02 | 00:47         |
| 3749342            | MW-8U        | 01/01/02 | 01:31         |
| 3749343            | MW-8M        | 01/01/02 | 02:14         |
| 3749344            | MW-8L        | 01/01/02 | 02:58         |
| 3749346            | AWB1U        | 01/01/02 | 03:41         |
| 3749347            | AW-1L        | 01/01/02 | 04:24         |
| 3749348            | AW-2U        | 01/01/02 | 05:08         |
| 3749349            | AW-2L        | 01/01/02 | 05:51         |

| COMPOUND (DETECTOR)         | THEORETICAL CONCENTRATION (UG/L ) | ACTUAL CONCENTRATION (UG/L ) | % DRIFT | %DRIFT LIMITS |
|-----------------------------|-----------------------------------|------------------------------|---------|---------------|
| DICHLORODIFLUOROMETH (HALL) | 20.0                              | 22.1                         | 10      | -20 to +20    |
| CHLOROMETHANE (HALL)        | 20.0                              | 16.3                         | -18     | -20 to +20    |
| VINYL CHLORIDE (HALL)       | 20.0                              | 19.4                         | -3      | -20 to +20    |
| BROMOMETHANE (HALL)         | 20.0                              | 18.2                         | -9      | -20 to +20    |
| CHLOROETHANE (HALL)         | 20.0                              | 17.9                         | -10     | -20 to +20    |
| TRICHLOROFLUOROMETHA (HALL) | 20.0                              | 17.9                         | -11     | -20 to +20    |
| 1,1-DICHLOROETHENE (HALL)   | 20.0                              | 20.0                         | 0       | -15 to +15    |
| METHYLENE CHLORIDE (HALL)   | 20.0                              | 17.6                         | -12     | -15 to +15    |
| TRANS-1,2-DICHLOROET (HALL) | 20.0                              | 19.5                         | -2      | -15 to +15    |
| 1,1-DICHLOROETHANE (HALL)   | 20.0                              | 19.8                         | -1      | -15 to +15    |
| CIS-1,2-DICHLOROETHE (HALL) | 20.0                              | 19.7                         | -1      | -15 to +15    |

Quality Control Summary

SDG# HUL03

Instrument ID: 5843

Beginning Calibration Verification Summary

CCV Batch: 01365A18

Data File: C:\CP\DATA1\18365.25R

Date Injected: 12/31/01 Time Injected: 20:15

Initial Calibration Date(s): 12/31/01 (HALL)

Initial Calibration Date(s): 12/31/01 (PID)

| COMPOUND (DETECTOR)  | THEORETICAL<br>CONCENTRATION<br>(UG/L ) | ACTUAL<br>CONCENTRATION<br>(UG/L ) | % DRIFT | %DRIFT<br>LIMITS |
|----------------------|-----------------------------------------|------------------------------------|---------|------------------|
| CHLOROFORM           | (HALL)                                  | 20.0                               | 19.4    | -3               |
| 1,2-DICHLOROETHANE   | (HALL)                                  | 20.0                               | 19.6    | -2               |
| 1,1,1-TRICHLOROETHAN | (HALL)                                  | 20.0                               | 19.2    | -4               |
| CARBON TETRACHLORIDE | (HALL)                                  | 20.0                               | 19.5    | -3               |
| BENZENE              | (PID)                                   | 20.0                               | 18.9    | -5               |
| 1,2-DICHLOROPROPANE  | (HALL)                                  | 20.0                               | 19.8    | -1               |
| TRICHLOROETHENE      | (PID)                                   | 20.0                               | 18.6    | -7               |
| BROMODICHLOROMETHANE | (HALL)                                  | 20.0                               | 18.7    | -6               |
| CIS-1,3-DICHLOROPROP | (HALL)                                  | 20.0                               | 19.0    | -5               |
| TRANS-1,3-DICHLOROPR | (HALL)                                  | 20.0                               | 17.8    | -11              |
| 1,1,2-TRICHLOROETHAN | (HALL)                                  | 20.0                               | 19.3    | -4               |
| TOLUENE              | (PID)                                   | 20.0                               | 18.8    | -6               |
| DIBROMOCHLOROMETHANE | (HALL)                                  | 20.0                               | 20.6    | 3                |
| TETRACHLOROETHENE    | (HALL)                                  | 20.0                               | 19.2    | -4               |
| CHLOROBENZENE        | (PID)                                   | 20.0                               | 18.8    | -6               |
| ETHYLBENZENE         | (PID)                                   | 20.0                               | 18.9    | -6               |
| M,P-XYLENE           | (PID)                                   | 40.0                               | 37.8    | -6               |
| BROMOFORM            | (HALL)                                  | 20.0                               | 21.4    | 7                |
| O-XYLENE             | (PID)                                   | 20.0                               | 19.3    | -3               |
| 1,1,2,2-TETRACHLOROE | (HALL)                                  | 20.0                               | 20.0    | 0                |
| 1,3-DICHLOROBENZENE  | (HALL)                                  | 20.0                               | 19.8    | -1               |
| 1,4-DICHLOROBENZENE  | (PID)                                   | 20.0                               | 18.7    | -7               |
| 1,2-DICHLOROBENZENE  | (HALL)                                  | 20.0                               | 19.5    | -2               |
| SURR-1B4CB-P         | (PID)                                   | 30.0                               | 27.0    | -10              |
| SURR-1B4CB-H         | (HALL)                                  | 30.0                               | 28.7    | -4               |

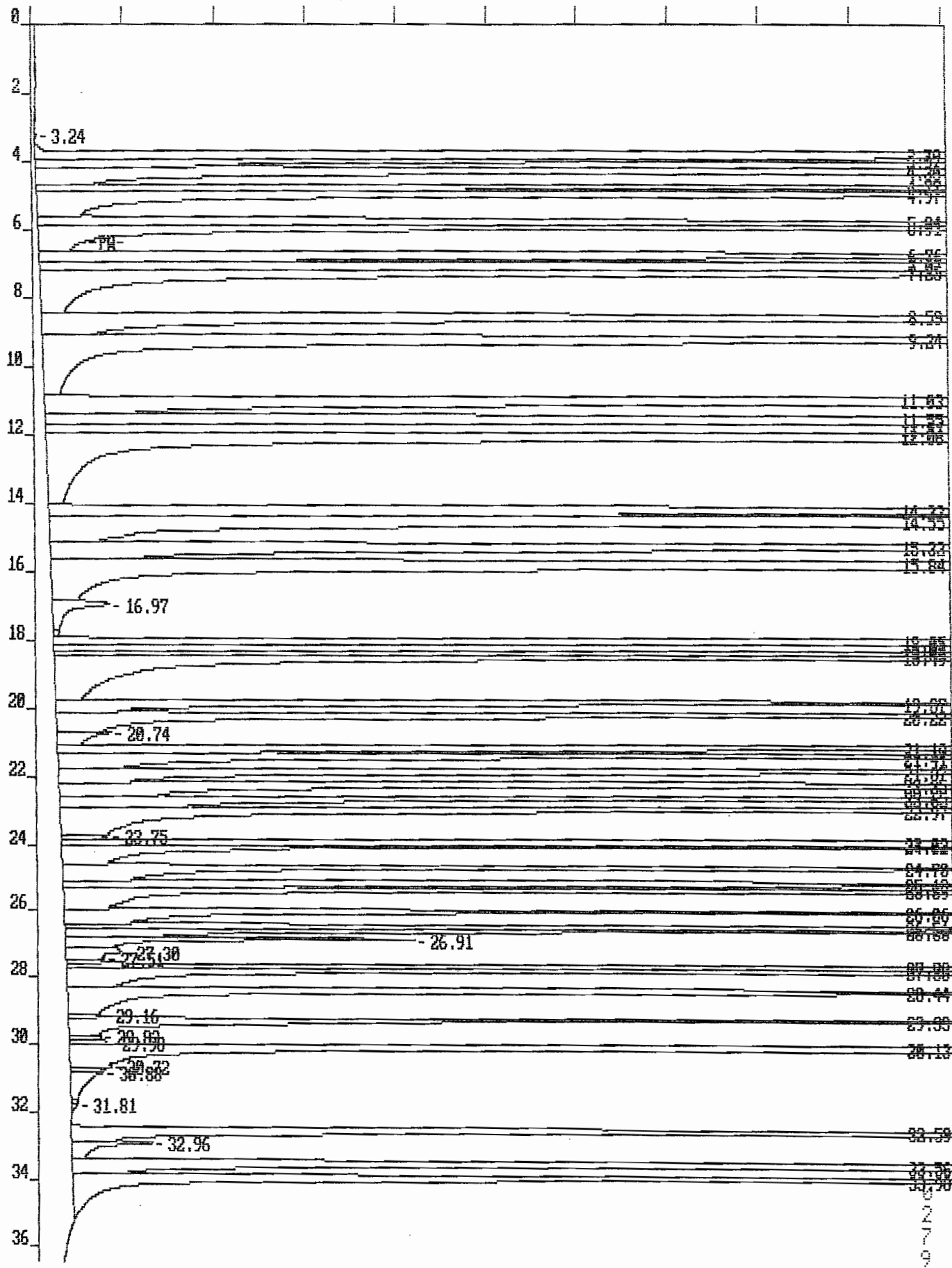
Mean %Drift for all calibration compounds (HALL) = -5.5

Mean %Drift for all calibration compounds (PID) = -9.8

File=C:\CP\DATA1\18365.25R Date printed=12-31-2001 Time= 20:15:53

Sample Name=CHKSTD 01365A188400,8401

0.0 to 37.0 min. Low Y=0.027 High Y=15.027 mv Span=15.0



Sample Name: CHKSTD

Batch: 01365A18

Date Taken: Dec 31, 2001 20:15:48

Raw File: C:\CP\DATA1\18365.25R

Area File: C:\CP\DATA1\18365.25A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 11):

| Ret Time | Expected |                           | Amount * | Peak    | Peak   |
|----------|----------|---------------------------|----------|---------|--------|
| (min)    | RT (min) | Peak Name                 | (ug/L)   | Area    | Height |
| 3.793    | 3.805    | DICHLORODIFLUOROMETH      | 22.0862  | 309590  | 44709  |
| 3.973    | 3.985    | CHLOROMETHANE             | 16.3342  | 231720  | 36497  |
| 4.303    | 4.314    | VINYL CHLORIDE            | 19.3771  | 485302  | 68936  |
| 4.773    | 4.780    | BROMOMETHANE              | 18.1930  | 263903  | 48898  |
| 4.974    | 4.980    | CHLOROETHANE              | 17.9026  | 462914  | 76291  |
| 5.839    | 5.837    | TRICHLOROFLUOROMETHA      | 17.8910  | 285925  | 45679  |
| 6.760    | 6.761    | 1,1-DICHLOROETHENE        | 20.0424  | 593462  | 92784  |
| 7.070    | 7.069    | METHYLENE CHLORIDE        | 17.5891  | 858596  | 145937 |
| 7.254    | 7.253    | TRICHLOROTRIFLUOROET      | 18.0158  | 664716  | 65440  |
| 8.588    | 8.582    | TRANS-1,2-DICHLOROET      | 19.5461  | 845745  | 122121 |
| 9.238    | 9.231    | 1,1-DICHLOROETHANE        | 19.8157  | 905853  | 106044 |
| 11.030   | 11.019   | CIS-1,2-DICHLOROETHE      | 19.7201  | 841514  | 99796  |
| 11.550   | 11.537   | BROMOCHLOROMETHANE        | 19.8315  | 587377  | 72181  |
| 11.807   | 11.792   | CHLOROFORM                | 19.3914  | 1096044 | 118600 |
| 12.057   | 12.040   | 2,2-DICHLOROPROPANE       | 18.5710  | 789662  | 60314  |
| 14.235   | 14.223   | 1,2-DICHLOROETHANE        | 19.5775  | 749309  | 93646  |
| 14.554   | 14.542   | 1,1,1-TRICHLOROETHAN      | 19.2337  | 1012014 | 95562  |
| 15.315   | 15.305   | 1,1-DICHLOROPROPENE       | 19.4897  | 722704  | 85680  |
| 15.838   | 15.828   | CARBON TETRACHLORIDE      | 19.4713  | 1145968 | 117958 |
| 18.053   | 18.048   | DIBROMOMETHANE            | 20.2265  | 350563  | 59955  |
| 18.225   | 18.220   | 1,2-DICHLOROPROPANE       | 19.7628  | 730668  | 112624 |
| 18.382   | 18.377   | TRICHLOROETHENE           | 18.7421  | 882179  | 149810 |
| 18.489   | 18.485   | BROMODICHLOROMETHANE      | 18.7110  | 865607  | 126644 |
| 19.873   | 19.872   | 2-CHLOROETHYL VINYL       | 21.2837  | 258995  | 48989  |
| 20.220   | 20.220   | CIS-1,3-DICHLOROPROP      | 19.0425  | 694932  | 137525 |
| 21.176   | 21.176   | TRANS-1,3-DICHLOROPR      | 17.7635  | 541748  | 123498 |
| 21.405   | 21.406   | 1,1,2-TRICHLOROETHAN      | 19.2665  | 769497  | 161720 |
| 21.868   | 21.869   | 1,3-DICHLOROPROPANE       | 19.4777  | 610915  | 136724 |
| 22.251   | 22.253   | DIBROMOCHLOROMETHANE      | 20.5534  | 545113  | 119977 |
| 22.645   | 22.648   | 1,2-DIBROMOETHANE         | 20.4472  | 349062  | 76967  |
| 22.971   | 22.974   | TETRACHLOROETHENE         | 19.2333  | 936616  | 213751 |
| 23.921   | 23.925   | 1,1,1,2-TETRACHLOROE      | 19.5843  | 857430  | 229183 |
| 24.018   | 24.022   | CHLOROBENZENE             | 19.2908  | 455632  | 106449 |
| 24.700   | 24.704   | BROMOFORM                 | 21.4105  | 354921  | 79165  |
| 25.190   | 25.194   | 1,1,2,2-TETRACHLOROE      | 19.9654  | 521371  | 129578 |
| 25.394   | 25.398   | 1,2,3-TRICHLOROPROPA      | 20.0832  | 452028  | 102480 |
| 26.060   | 26.064   | BROMOBENZENE              | 20.5837  | 263242  | 58262  |
| 26.510   | 26.514   | 2-CHLOROTOLUENE           | 20.0274  | 306732  | 79860  |
| 26.629   | 26.633   | 4-CHLOROTOLUENE           | 19.6981  | 333517  | 79709  |
| 27.716   | 27.719   | 1,3-DICHLOROBENZENE       | 19.7903  | 453386  | 115902 |
| 27.831   | 27.833   | 1,4-DICHLOROBENZENE       | 19.3732  | 548304  | 120748 |
| 28.444   | 28.444   | 1,2-DICHLOROBENZENE       | 19.5018  | 512984  | 110337 |
| 29.331   | 29.330   | 1,2-DIBROMO-3-CHLORO      | 21.2673  | 145038  | 23930  |
| 30.133   | 30.132   | SURR-1B4CB-H              | 28.7296  | 503013  | 98476  |
| 32.592   | 32.593   | 1,2,4-TRICHLOROBENZE      | 19.5770  | 453491  | 78672  |
| 33.557   | 33.559   | HEXACHLOROBUTADIENE       | 19.4218  | 610349  | 92095  |
| 33.983   | 33.985   | 1,2,3-TRICHLOROBENZE      | 19.9503  | 450585  | 68153  |
|          |          | TOTAL 1,2-DICHLOROETHENE: | 39.2662  |         |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 95.7653%

Chrom Perfect version 6.07

Reported on 12-31-2001 at 20:16:43

0  
2  
8  
0

Sample name: CHKSTD

Batch: 01365A188400,840

Raw file: C:\CP\DATA1\18365.25R

Reviewed by: Bus

Verified by: Vmm49

VM

Date: 1-2-02

Date: 01/02/02

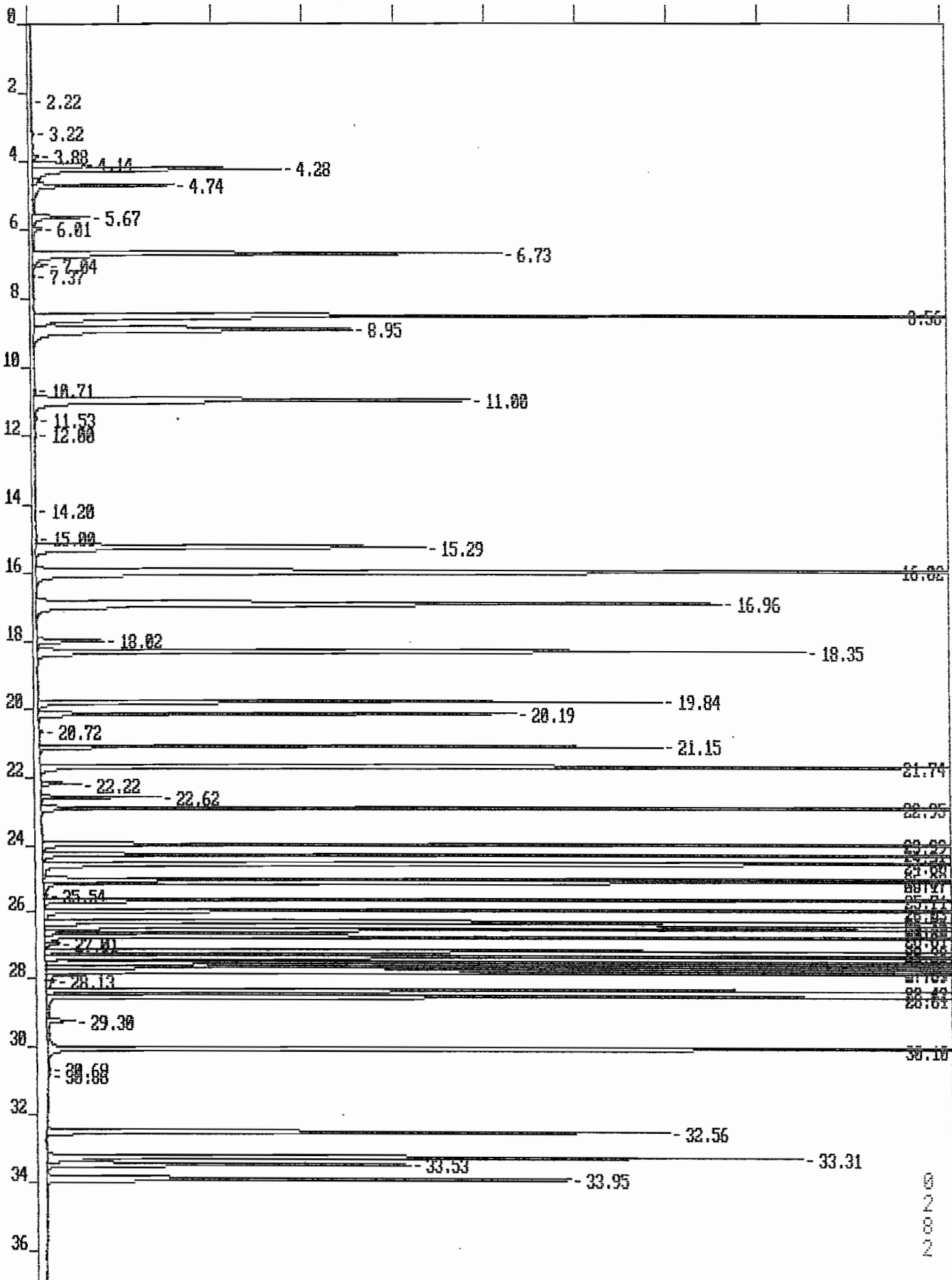


File=C:\CP\DATA1\18365B.25R Date printed=12-31-2001 Time= 20:17:04

Sample Name=CHKSTD

01365A188400,8401

0.0 to 37.0 min. Low Y=0.006 High Y=15.006 mv Span=15.0



Sample Name: CHKSTD

Batch: 01365A18

Date Taken: Dec 31, 2001 20:15:48

Raw File: C:\CP\DATA1\18365B.25R

Area File: C:\CP\DATA1\18365B.25A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 11):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.275    | 4.287    | VINYL CHLORIDE       | 11.3583  | 26453  | 4068   |
| 6.732    | 6.733    | 1,1-DICHLOROETHENE   | 18.8355  | 40921  | 7701   |
| 8.558    | 8.554    | TRANS-1,2-DICHLOROET | 18.2749  | 99260  | 17349  |
| 8.946    | 8.939    | METHYL T-BUTYL ETHER | 18.6334  | 46144  | 5215   |
| 11.000   | 10.989   | CIS-1,2-DICHLOROETHE | 18.5604  | 53042  | 7157   |
| 15.285   | 15.276   | 1,1-DICHLOROPROPENE  | 18.9011  | 47157  | 6390   |
| 16.023   | 16.012   | BENZENE              | 18.9387  | 113354 | 15818  |
| 16.958   | 16.948   | ISTD-FBENZENE        | 1.0000   | 84800  | 11264  |
| 18.353   | 18.349   | TRICHLOROETHENE      | 18.6216  | 65193  | 12594  |
| 19.845   | 19.845   | 2-CHLOROETHYL VINYL  | 20.4508  | 41165  | 10270  |
| 20.194   | 20.193   | CIS-1,3-DICHLOROPROP | 18.4540  | 29834  | 7857   |
| 21.150   | 21.151   | TRANS-1,3-DICHLOROPR | 16.7389  | 33372  | 10228  |
| 21.737   | 21.738   | TOLUENE              | 18.7777  | 106247 | 31765  |
| 22.945   | 22.948   | TETRACHLOROETHENE    | 18.8255  | 51169  | 16915  |
| 23.995   | 23.999   | CHLOROBENZENE        | 18.8343  | 111100 | 43004  |
| 24.310   | 24.314   | ETHYLBENZENE         | 18.8728  | 95755  | 35220  |
| 24.602   | 24.606   | M,P-XYLENE           | 37.7726  | 224046 | 70102  |
| 25.069   | 25.072   | STYRENE              | 18.9076  | 120213 | 44676  |
| 25.171   | 25.175   | O-XYLENE             | 19.3228  | 100260 | 35405  |
| 25.715   | 25.719   | ISOPROPYLBENZENE     | 19.6650  | 82394  | 27654  |
| 26.033   | 26.037   | BROMOBENZENE         | 18.7516  | 113535 | 39589  |
| 26.361   | 26.365   | N-PROPYLBENZENE      | 18.8907  | 89218  | 30847  |
| 26.485   | 26.488   | 2-CHLOROTOLUENE      | 18.9634  | 98969  | 33989  |
| 26.604   | 26.607   | 4-CHLOROTOLUENE      | 18.7631  | 101057 | 35561  |
| 26.809   | 26.812   | 1,3,5-TRIMETHYLBENZE | 18.9893  | 130330 | 43790  |
| 27.234   | 27.236   | TERT-BUTYLBENZENE    | 19.0574  | 76736  | 23200  |
| 27.416   | 27.418   | 1,2,4-TRIMETHYLBENZE | 19.0450  | 100439 | 32832  |
| 27.584   | 27.586   | SEC-BUTYLBENZENE     | 18.7163  | 77488  | 23270  |
| 27.691   | 27.693   | 1,3-DICHLOROBENZENE  | 18.7898  | 98113  | 31770  |
| 27.806   | 27.808   | 1,4-DICHLOROBENZENE  | 18.6732  | 97488  | 31721  |
| 27.892   | 27.894   | P-ISOPROPYLTOLUENE   | 19.5852  | 78002  | 23919  |
| 28.418   | 28.418   | 1,2-DICHLOROBENZENE  | 18.5201  | 77546  | 23519  |
| 28.605   | 28.606   | N-BUTYLBENZENE       | 18.8522  | 75410  | 21766  |
| 30.105   | 30.104   | SURR-1B4CB-P         | 27.0442  | 143495 | 37889  |
| 32.563   | 32.565   | 1,2,4-TRICHLOROBENZE | 18.5680  | 48696  | 10244  |
| 33.311   | 33.312   | NAPHTHALENE          | 19.1925  | 61260  | 12403  |
| 33.528   | 33.530   | HEXACHLOROBUTADIENE  | 18.3440  | 34051  | 5985   |
| 33.954   | 33.955   | 1,2,3-TRICHLOROBENZE | 18.8532  | 45528  | 8606   |

XYLENES (Total): 57.0954

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 90.1475%

Chrom Perfect version 6.07

Reported on 12-31-2001at 20:18:35

Internal Standard Calculations From ISTDCHK v. 950609.1130

ISTd height for ISTD-FBENZENE is within range.

ISTd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

02001

Sample name: CHKSTD

Batch: 01365A188400.840

Raw file:

C:\CP\DATA1\18365B.25R

Reviewed by: Bus

Verified by: Vmm469

rm

Date: 1-2-02

Date: 01/02/02

Quality Control Summary  
SDG# 4UL03  
Instrument ID: 5843  
Ending Calibration Verification Summary

CCV Batch: 01365A18  
Data File: C:\CP\DATA1\18365.39R  
Date Injected: 01/01/02 Time Injected: 06:34  
Initial Calibration Date(s): 12/31/01 (HALL)

| Sample Information |              |          |               |
|--------------------|--------------|----------|---------------|
| LL Sample#         | Sample Code  | Date     | Analysis Time |
| BLK1809            | METHOD BLANK | 12/31/01 | 21:55         |
| 3749357            | FIELD        | 12/31/01 | 23:21         |
| 3749340            | AW-3U        | 01/01/02 | 00:04         |
| 3749341            | AW-3L        | 01/01/02 | 00:47         |
| 3749342            | MW-8U        | 01/01/02 | 01:31         |
| 3749343            | MW-8M        | 01/01/02 | 02:14         |
| 3749344            | MW-8L        | 01/01/02 | 02:58         |
| 3749346            | AWB1U        | 01/01/02 | 03:41         |
| 3749347            | AW-1L        | 01/01/02 | 04:24         |
| 3749348            | AW-2U        | 01/01/02 | 05:08         |
| 3749349            | AW-2L        | 01/01/02 | 05:51         |

| COMPOUND (DETECTOR)         | THEORETICAL CONCENTRATION (UG/L ) | ACTUAL CONCENTRATION (UG/L ) | % DRIFT | %DRIFT LIMITS |
|-----------------------------|-----------------------------------|------------------------------|---------|---------------|
| DICHLORODIFLUOROMETH (HALL) | 20.0                              | 22.7                         | 14      | -20 to +20    |
| CHLOROMETHANE (HALL)        | 20.0                              | 13.6                         | -32 *   | -20 to +20    |
| VINYL CHLORIDE (HALL)       | 20.0                              | 19.3                         | -3      | -20 to +20    |
| BROMOMETHANE (HALL)         | 20.0                              | 17.9                         | -11     | -20 to +20    |
| CHLOROETHANE (HALL)         | 20.0                              | 17.2                         | -14     | -20 to +20    |
| TRICHLOROFLUOROMETHA (HALL) | 20.0                              | 16.9                         | -15     | -20 to +20    |
| 1,1-DICHLOROETHENE (HALL)   | 20.0                              | 19.8                         | -1      | -15 to +15    |
| METHYLENE CHLORIDE (HALL)   | 20.0                              | 17.6                         | -12     | -15 to +15    |
| TRANS-1,2-DICHLOROET (HALL) | 20.0                              | 20.0                         | 0       | -15 to +15    |
| 1,1-DICHLOROETHANE (HALL)   | 20.0                              | 20.4                         | 2       | -15 to +15    |
| CIS-1,2-DICHLOROETHE (HALL) | 20.0                              | 20.3                         | 2       | -15 to +15    |
| CHLOROFORM (HALL)           | 20.0                              | 20.0                         | 0       | -15 to +15    |

\* = %DRIFT outside control limits.

Quality Control Summary  
SDG# HUL03  
Instrument ID: 5843  
Ending Calibration Verification Summary

CCV Batch: 01365A18  
Data File: C:\CP\DATA1\18365.39R  
Date Injected: 01/01/02 Time Injected: 06:34  
Initial Calibration Date(s): 12/31/01(HALL)

| COMPOUND (DETECTOR)         | THEORETICAL<br>CONCENTRATION<br>(UG/L ) | ACTUAL<br>CONCENTRATION<br>(UG/L ) | % DRIFT | %DRIFT<br>LIMITS |
|-----------------------------|-----------------------------------------|------------------------------------|---------|------------------|
| 1,2-DICHLOROETHANE (HALL)   | 20.0                                    | 20.2                               | 1       | -15 to +15       |
| 1,1,1-TRICHLOROETHAN (HALL) | 20.0                                    | 20.0                               | 0       | -15 to +15       |
| CARBON TETRACHLORIDE (HALL) | 20.0                                    | 20.1                               | 0       | -15 to +15       |
| 1,2-DICHLOROPROPANE (HALL)  | 20.0                                    | 20.2                               | 1       | -15 to +15       |
| BROMODICHLOROMETHANE (HALL) | 20.0                                    | 19.3                               | -3      | -15 to +15       |
| CIS-1,3-DICHLOROPROP (HALL) | 20.0                                    | 19.5                               | -2      | -15 to +15       |
| TRANS-1,3-DICHLOROPR (HALL) | 20.0                                    | 18.1                               | -10     | -15 to +15       |
| 1,1,2-TRICHLOROETHAN (HALL) | 20.0                                    | 19.9                               | -1      | -15 to +15       |
| DIBROMOCHLOROMETHANE (HALL) | 20.0                                    | 21.0                               | 5       | -15 to +15       |
| TETRACHLOROETHENE (HALL)    | 20.0                                    | 19.4                               | -3      | -15 to +15       |
| BROMOFORM (HALL)            | 20.0                                    | 22.2                               | 11      | -15 to +15       |
| 1,1,2,2-TETRACHLOROE (HALL) | 20.0                                    | 21.0                               | 5       | -15 to +15       |
| 1,3-DICHLOROBENZENE (HALL)  | 20.0                                    | 20.1                               | 1       | -15 to +15       |
| 1,2-DICHLOROBENZENE (HALL)  | 20.0                                    | 20.1                               | 0       | -15 to +15       |
| SURR-1B4CB-H (HALL)         | 30.0                                    | 31.5                               | 5       | -41 to +32       |

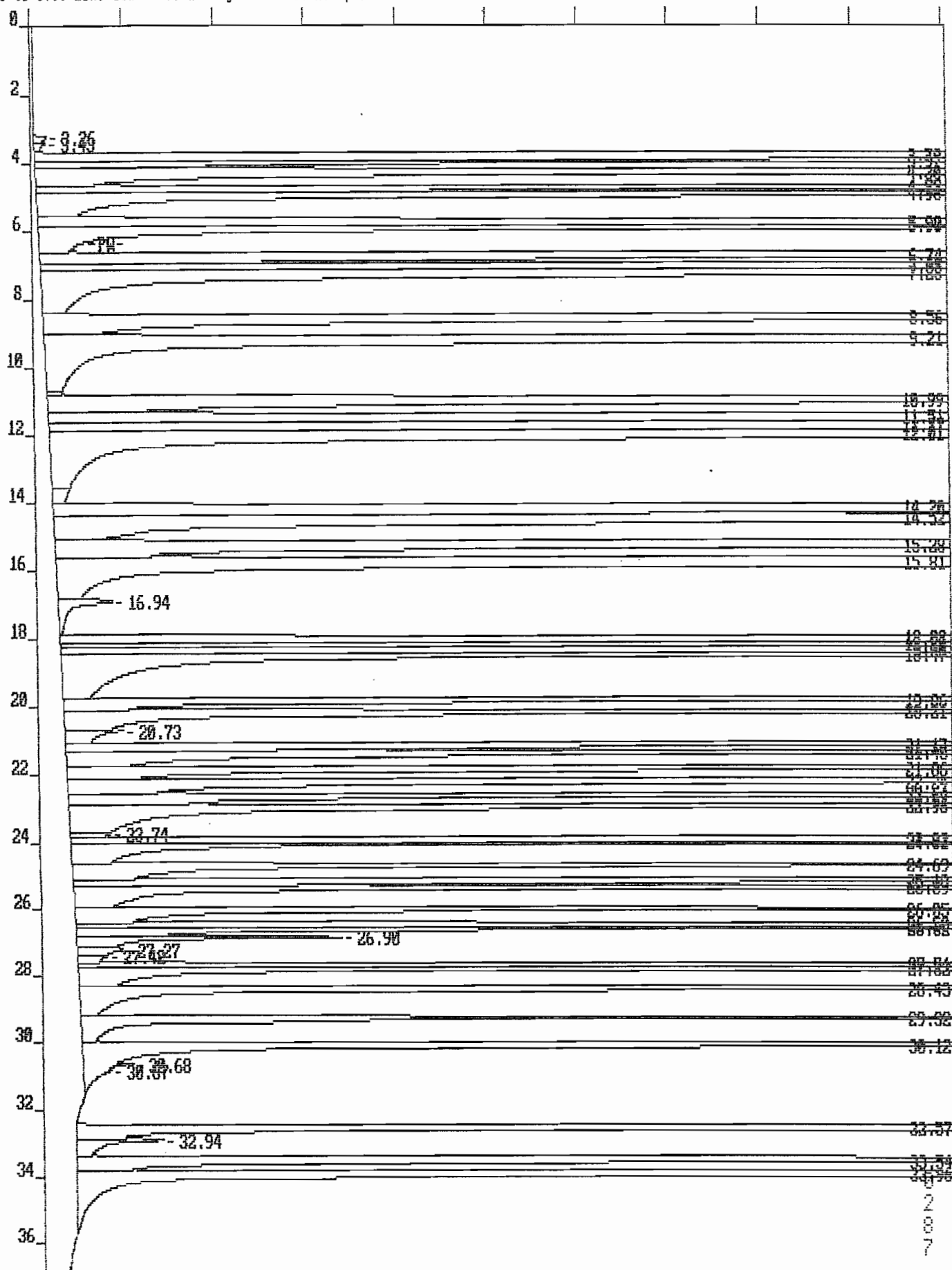
Mean %Drift for all calibration compounds (HALL) = -3.3  
Mean %Drift for all calibration compounds (PID) = -12.8

File=C:\CP\DATA1\18365.39R Date printed=01-01-2002 Time= 06:34:29

Sample Name=CHKSTD

01365A188400,8401

0.0 to 37.0 min. Low Y=-0.016 High Y=14.984 mv Span=15.0



Sample Name: CHKSTD

Batch: 01365A18

Date Taken: Jan 1, 2002 06:34:24

Raw File: C:\CP\DATA1\18365.39R

Area File: C:\CP\DATA1\18365.39A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 12):

| Ret Time                  | Expected |                      | Amount * | Peak    | Peak   |
|---------------------------|----------|----------------------|----------|---------|--------|
| (min)                     | RT (min) | Peak Name            | (ug/L)   | Area    | Height |
| 3.789                     | 3.793    | DICHLORODIFLUOROMETH | 22.7388  | 309842  | 46030  |
| 3.972                     | 3.973    | CHLOROMETHANE        | 13.6315  | 197605  | 30458  |
| 4.297                     | 4.303    | VINYL CHLORIDE       | 19.3017  | 489235  | 68668  |
| 4.765                     | 4.773    | BROMOMETHANE         | 17.8558  | 263260  | 47992  |
| 4.964                     | 4.974    | CHLOROETHANE         | 17.2100  | 447113  | 73340  |
| 5.818                     | 5.839    | TRICHLOROFLUOROMETHA | 16.9342  | 280122  | 43236  |
| 6.741                     | 6.760    | 1,1-DICHLOROETHENE   | 19.7827  | 594066  | 91581  |
| 7.050                     | 7.070    | METHYLENE CHLORIDE   | 17.5608  | 860999  | 145703 |
| 7.232                     | 7.254    | TRICHLOROTRIFLUOROET | 17.6233  | 662688  | 64014  |
| 8.559                     | 8.588    | TRANS-1,2-DICHLOROET | 19.9936  | 863831  | 124917 |
| 9.207                     | 9.238    | 1,1-DICHLOROETHANE   | 20.3742  | 925950  | 109032 |
| 10.994                    | 11.030   | CIS-1,2-DICHLOROETHE | 20.3108  | 865201  | 102786 |
| 11.512                    | 11.550   | BROMOCHLOROMETHANE   | 20.4477  | 602528  | 74423  |
| 11.767                    | 11.807   | CHLOROFORM           | 20.0290  | 1132209 | 122500 |
| 12.014                    | 12.057   | 2,2-DICHLOROPROPANE  | 18.7417  | 784662  | 60868  |
| 14.201                    | 14.235   | 1,2-DICHLOROETHANE   | 20.1704  | 774859  | 96482  |
| 14.519                    | 14.554   | 1,1,1-TRICHLOROETHAN | 19.9815  | 1055723 | 99277  |
| 15.284                    | 15.315   | 1,1-DICHLOROPROPENE  | 19.9880  | 746547  | 87871  |
| 15.807                    | 15.838   | CARBON TETRACHLORIDE | 20.0801  | 1186219 | 121646 |
| 18.031                    | 18.053   | DIBROMOMETHANE       | 21.1927  | 370344  | 62819  |
| 18.205                    | 18.225   | 1,2-DICHLOROPROPANE  | 20.1607  | 741710  | 114891 |
| 18.362                    | 18.382   | TRICHLOROETHENE      | 19.4105  | 921721  | 155152 |
| 18.470                    | 18.489   | BROMODICHLOROMETHANE | 19.3317  | 896296  | 130845 |
| 19.860                    | 19.873   | 2-CHLOROETHYL VINYL  | 22.4724  | 274545  | 51725  |
| 20.209                    | 20.220   | CIS-1,3-DICHLOROPROP | 19.5136  | 711856  | 140928 |
| 21.167                    | 21.176   | TRANS-1,3-DICHLOROPR | 18.0764  | 553705  | 125674 |
| 21.397                    | 21.405   | 1,1,2-TRICHLOROETHAN | 19.8723  | 793702  | 166804 |
| 21.860                    | 21.868   | 1,3-DICHLOROPROPANE  | 19.8781  | 624795  | 139535 |
| 22.244                    | 22.251   | DIBROMOCHLOROMETHANE | 21.0296  | 557929  | 122756 |
| 22.639                    | 22.645   | 1,2-DIBROMOETHANE    | 21.1695  | 360431  | 79687  |
| 22.965                    | 22.971   | TETRACHLOROETHENE    | 19.4429  | 946478  | 216081 |
| 23.916                    | 23.921   | 1,1,1,2-TETRACHLOROE | 19.8365  | 875024  | 232135 |
| 24.014                    | 24.018   | CHLOROBENZENE        | 19.4804  | 451607  | 107495 |
| 24.694                    | 24.700   | BROMOFORM            | 22.1895  | 364932  | 82046  |
| 25.184                    | 25.190   | 1,1,2,2-TETRACHLOROE | 20.9528  | 545368  | 135986 |
| 25.388                    | 25.394   | 1,2,3-TRICHLOROPROPA | 21.3049  | 473517  | 108715 |
| 26.054                    | 26.060   | BROMOBENZENE         | 20.8384  | 263954  | 58983  |
| 26.504                    | 26.510   | 2-CHLOROTOLUENE      | 20.2486  | 308416  | 80742  |
| 26.623                    | 26.629   | 4-CHLOROTOLUENE      | 19.8528  | 334128  | 80335  |
| 27.708                    | 27.716   | 1,3-DICHLOROBENZENE  | 20.1300  | 462009  | 117891 |
| 27.822                    | 27.831   | 1,4-DICHLOROBENZENE  | 19.7811  | 546967  | 123291 |
| 28.433                    | 28.444   | 1,2-DICHLOROBENZENE  | 20.0601  | 519905  | 113496 |
| 29.317                    | 29.331   | 1,2-DIBROMO-3-CHLORO | 23.5996  | 158760  | 26554  |
| 30.117                    | 30.133   | SURR-1B4CB-H         | 31.4856  | 559120  | 107923 |
| 32.574                    | 32.592   | 1,2,4-TRICHLOROBENZE | 20.3832  | 469785  | 81911  |
| 33.538                    | 33.557   | HEXACHLOROBUTADIENE  | 20.1109  | 630092  | 95362  |
| 33.963                    | 33.983   | 1,2,3-TRICHLOROBENZE | 21.2104  | 481177  | 72457  |
| TOTAL 1,2-DICHLOROETHENE: |          |                      | 40.3045  |         |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 104.9519%

Chrom Perfect version 6.07

Reported on 01-01-2002at 06:35:19

Sample name: CHKSTD

Batch: 01365A188400,840

Raw file: C:\CP\DATA1\18365.39R

Reviewed by: TSK

Verified by: Vmm49

Date: 1-1-02

Date: 01/02/02



Quality Control Summary  
SDG# HUL03  
Instrument ID: 5843  
Beginning Calibration Verification Summary

CCV Batch: 01365A18

Data File: C:\CP\DATA1\18365.41R  
Date Injected: 01/02/02 Time Injected: 01:19  
Initial Calibration Date(s): 12/31/01(HALL)  
Initial Calibration Date(s): 12/31/01(PID)

| Sample Information |              |          |               |
|--------------------|--------------|----------|---------------|
| L/L Sample#        | Sample Code  | Date     | Analysis Time |
| BLK1810            | METHOD BLANK | 01/02/02 | 02:46         |
| 3749350            | MW-9U        | 01/02/02 | 03:38         |
| 3749351            | MW-9L        | 01/02/02 | 04:21         |
| 3749352            | MW10U        | 01/02/02 | 05:08         |
| 3749353            | MW10L        | 01/02/02 | 05:51         |
| 3749352            | MW10U        | 01/02/02 | 06:38         |
| 3749355            | MW-5M        | 01/02/02 | 07:21         |
| 3749356            | MW-5L        | 01/02/02 | 08:04         |
| 3749354            | MW-5U        | 01/02/02 | 08:47         |

| COMPOUND (DETECTOR)         | THEORETICAL CONCENTRATION (UG/L ) | ACTUAL CONCENTRATION (UG/L ) | % DRIFT | % DRIFT LIMITS |
|-----------------------------|-----------------------------------|------------------------------|---------|----------------|
| DICHLORODIFLUOROMETH (HALL) | 20.0                              | 21.5                         | 8       | -20 to +20     |
| CHLOROMETHANE (HALL)        | 20.0                              | 11.4                         | -43 *   | -20 to +20     |
| VINYL CHLORIDE (HALL)       | 20.0                              | 18.0                         | -10     | -20 to +20     |
| BROMOMETHANE (HALL)         | 20.0                              | 17.2                         | -14     | -20 to +20     |
| CHLOROETHANE (HALL)         | 20.0                              | 16.7                         | -17     | -20 to +20     |
| TRICHLOROFLUOROMETHA (HALL) | 20.0                              | 15.1                         | -24 *   | -20 to +20     |
| 1,1-DICHLOROETHENE (HALL)   | 20.0                              | 18.7                         | -7      | -15 to +15     |
| METHYLENE CHLORIDE (HALL)   | 20.0                              | 16.8                         | -16 *   | -15 to +15     |
| TRANS-1,2-DICHLOROET (HALL) | 20.0                              | 19.4                         | -3      | -15 to +15     |
| 1,1-DICHLOROETHANE (HALL)   | 20.0                              | 19.8                         | -1      | -15 to +15     |
| CIS-1,2-DICHLOROETHE (HALL) | 20.0                              | 19.8                         | -1      | -15 to +15     |
| CHLOROFORM (HALL)           | 20.0                              | 19.7                         | -2      | -15 to +15     |
| 1,2-DICHLOROETHANE (HALL)   | 20.0                              | 20.1                         | 0       | -15 to +15     |

\* = %DRIFT outside control limits.

Quality Control Summary  
SDG# HUL03  
Instrument ID: 5843  
Beginning Calibration Verification Summary

CCV Batch: 01365A18  
Data File: C:\CP\DATA1\18365.41R  
Date Injected: 01/02/02 Time Injected: 01:19  
Initial Calibration Date(s): 12/31/01(HALL)  
Initial Calibration Date(s): 12/31/01(PID)

| COMPOUND (DETECTOR)           | THEORETICAL<br>CONCENTRATION<br>(UG/L ) | ACTUAL<br>CONCENTRATION<br>(UG/L ) | % DRIFT | %DRIFT<br>LIMITS |
|-------------------------------|-----------------------------------------|------------------------------------|---------|------------------|
| 1,1,1,1-TRICHLOROETHAN (HALL) | 20.0                                    | 19.1                               | -4      | -15 to +15       |
| CARBON TETRACHLORIDE (HALL)   | 20.0                                    | 19.5                               | -3      | -15 to +15       |
| BENZENE (PID)                 | 20.0                                    | 18.6                               | -7      | -15 to +15       |
| 1,2-DICHLOROPROPANE (HALL)    | 20.0                                    | 19.9                               | 0       | -15 to +15       |
| TRICHLOROETHENE (PID)         | 20.0                                    | 18.3                               | -9      | -15 to +15       |
| BROMODICHLOROMETHANE (HALL)   | 20.0                                    | 19.2                               | -4      | -15 to +15       |
| CIS-1,3-DICHLOROPROP (HALL)   | 20.0                                    | 19.9                               | 0       | -15 to +15       |
| TRANS-1,3-DICHLOROPR (HALL)   | 20.0                                    | 18.8                               | -6      | -15 to +15       |
| 1,1,2-TRICHLOROETHAN (HALL)   | 20.0                                    | 20.5                               | 2       | -15 to +15       |
| TOLUENE (PID)                 | 20.0                                    | 18.4                               | -8      | -15 to +15       |
| DIBROMOCHLOROMETHANE (HALL)   | 20.0                                    | 21.1                               | 5       | -15 to +15       |
| TETRACHLOROETHENE (HALL)      | 20.0                                    | 19.0                               | -5      | -15 to +15       |
| CHLOROBENZENE (PID)           | 20.0                                    | 18.8                               | -6      | -15 to +15       |
| ETHYLBENZENE (PID)            | 20.0                                    | 18.8                               | -6      | -15 to +15       |
| M, P-XYLENE (PID)             | 40.0                                    | 37.8                               | -6      | -15 to +15       |
| BROMOFORM (HALL)              | 20.0                                    | 23.2                               | 16 *    | -15 to +15       |
| O-XYLENE (PID)                | 20.0                                    | 19.2                               | -4      | -15 to +15       |
| 1,1,2,2-TETRACHLOROE (HALL)   | 20.0                                    | 22.4                               | 12      | -15 to +15       |
| 1,3-DICHLOROBENZENE (HALL)    | 20.0                                    | 20.1                               | 0       | -15 to +15       |
| 1,4-DICHLOROBENZENE (PID)     | 20.0                                    | 18.9                               | -5      | -15 to +15       |
| 1,2-DICHLOROBENZENE (HALL)    | 20.0                                    | 20.1                               | 1       | -15 to +15       |
| SURR-1B4CB-P (PID)            | 30.0                                    | 30.2                               | 1       | -31 to +21       |
| SURR-1B4CB-H (HALL)           | 30.0                                    | 32.0                               | 7       | -41 to +32       |

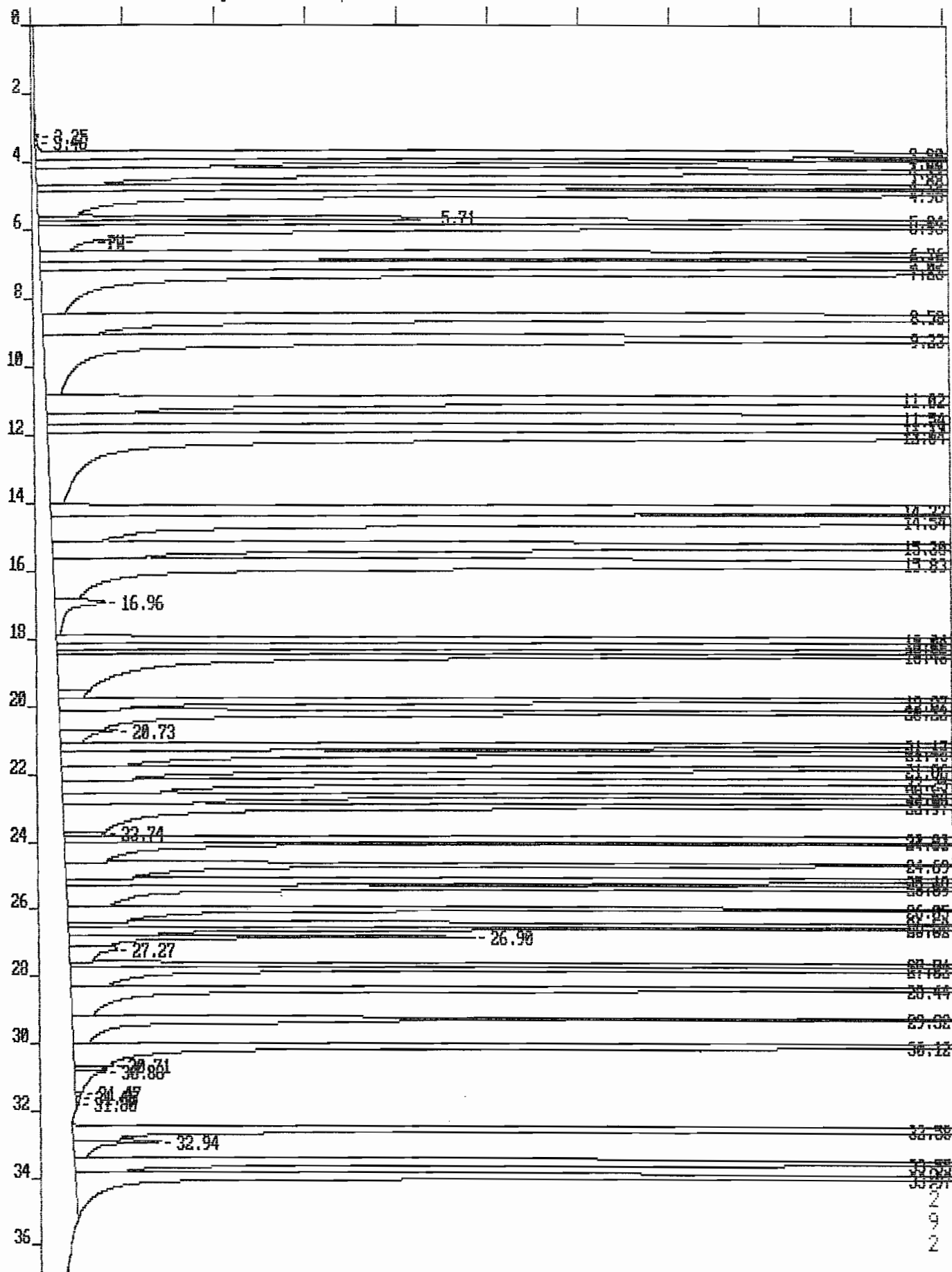
\* = %DRIFT outside control limits. Mean %Drift for all calibration compounds (HALL) = -4.0  
Mean %Drift for all calibration compounds (PID) = -8.3

File:C:\CP\DATA1\18365.41R Date printed=01-02-2002 Time= 01:19:54

Sample Name=CHKSTD

01365A188400,8401

0.0 to 37.0 min. Low Y=0.006 High Y=15.006 mv Span=15.0



Sample Name: CHKSTD

Batch: 01365A18

Date Taken: Jan 2, 2002 01:19:48

Raw File: C:\CP\DATA1\18365.41R

Area File: C:\CP\DATA1\18365.41A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 13):

| Ret Time                  | Expected |                      | Amount * | Peak    | Peak   |
|---------------------------|----------|----------------------|----------|---------|--------|
| (min)                     | RT (min) | Peak Name            | (ug/L)   | Area    | Height |
| 3.802                     | 3.789    | DICHLORODIFLUOROMETH | 21.5353  | 309473  | 43593  |
| 3.998                     | 3.972    | CHLOROMETHANE        | 11.4212  | 190093  | 25520  |
| 4.325                     | 4.297    | VINYL CHLORIDE       | 17.9752  | 490917  | 63948  |
| 4.781                     | 4.765    | BROMOMETHANE         | 17.2056  | 261341  | 46244  |
| 4.977                     | 4.964    | CHLOROETHANE         | 16.6954  | 439748  | 71147  |
| 5.837                     | 5.818    | TRICHLOROFLUOROMETHA | 15.1062  | 217043  | 38569  |
| 6.764                     | 6.741    | 1,1-DICHLOROETHENE   | 18.6930  | 585968  | 86537  |
| 7.071                     | 7.050    | METHYLENE CHLORIDE   | 16.7979  | 869049  | 139373 |
| 7.251                     | 7.232    | TRICHLOROTRIFLUOROET | 16.3896  | 622226  | 59533  |
| 8.581                     | 8.559    | TRANS-1,2-DICHLOROET | 19.4093  | 837483  | 121266 |
| 9.232                     | 9.207    | 1,1-DICHLOROETHANE   | 19.7821  | 899286  | 105864 |
| 11.020                    | 10.994   | CIS-1,2-DICHLOROETHE | 19.8067  | 841049  | 100235 |
| 11.539                    | 11.512   | BROMOCHLOROMETHANE   | 20.5664  | 601063  | 74855  |
| 11.795                    | 11.767   | CHLOROFORM           | 19.6742  | 1110301 | 120330 |
| 12.041                    | 12.014   | 2,2-DICHLOROPROPANE  | 18.3031  | 779262  | 59444  |
| 14.223                    | 14.201   | 1,2-DICHLOROETHANE   | 20.0643  | 766630  | 95974  |
| 14.540                    | 14.519   | 1,1,1-TRICHLOROETHAN | 19.1173  | 1016034 | 94983  |
| 15.304                    | 15.284   | 1,1-DICHLOROPROPENE  | 19.1292  | 712341  | 84095  |
| 15.826                    | 15.807   | CARBON TETRACHLORIDE | 19.4793  | 1149468 | 118006 |
| 18.045                    | 18.031   | DIBROMOMETHANE       | 21.4619  | 372460  | 63617  |
| 18.218                    | 18.205   | 1,2-DICHLOROPROPANE  | 19.9438  | 738866  | 113655 |
| 18.374                    | 18.362   | TRICHLOROETHENE      | 18.5757  | 877798  | 148480 |
| 18.482                    | 18.470   | BROMODICHLOROMETHANE | 19.1626  | 869885  | 129701 |
| 19.868                    | 19.860   | 2-CHLOROETHYL VINYL  | 23.1011  | 278535  | 53172  |
| 20.215                    | 20.209   | CIS-1,3-DICHLOROPROP | 19.9311  | 721408  | 143943 |
| 21.172                    | 21.167   | TRANS-1,3-DICHLOROPR | 18.8202  | 571378  | 130845 |
| 21.401                    | 21.397   | 1,1,2-TRICHLOROETHAN | 20.4527  | 811311  | 171676 |
| 21.863                    | 21.860   | 1,3-DICHLOROPROPANE  | 20.2682  | 632393  | 142273 |
| 22.247                    | 22.244   | DIBROMOCHLOROMETHANE | 21.0905  | 561153  | 123112 |
| 22.641                    | 22.639   | 1,2-DIBROMOETHANE    | 21.8706  | 369623  | 82326  |
| 22.967                    | 22.965   | TETRACHLOROETHENE    | 18.9664  | 917541  | 210785 |
| 23.917                    | 23.916   | 1,1,1,2-TETRACHLOROE | 19.8655  | 869143  | 232474 |
| 24.014                    | 24.014   | CHLOROBENZENE        | 19.2852  | 449411  | 106418 |
| 24.694                    | 24.694   | BROMOFORM            | 23.2486  | 381638  | 85962  |
| 25.184                    | 25.184   | 1,1,2,2-TETRACHLOROE | 22.4200  | 579924  | 145509 |
| 25.388                    | 25.388   | 1,2,3-TRICHLOROPROPA | 22.5460  | 497828  | 115047 |
| 26.054                    | 26.054   | BROMOBENZENE         | 20.6315  | 261063  | 58398  |
| 26.504                    | 26.504   | 2-CHLOROTOLUENE      | 19.8758  | 301281  | 79256  |
| 26.623                    | 26.623   | 4-CHLOROTOLUENE      | 19.6715  | 330156  | 79601  |
| 27.709                    | 27.708   | 1,3-DICHLOROBENZENE  | 20.0630  | 456815  | 117499 |
| 27.824                    | 27.822   | 1,4-DICHLOROBENZENE  | 19.7294  | 546352  | 122968 |
| 28.435                    | 28.433   | 1,2-DICHLOROBENZENE  | 20.1230  | 521653  | 113852 |
| 29.320                    | 29.317   | 1,2-DIBROMO-3-CHLORO | 25.5789  | 171777  | 28781  |
| 30.121                    | 30.117   | SURR-1B4CB-H         | 32.0158  | 552217  | 109741 |
| 32.581                    | 32.574   | 1,2,4-TRICHLOROBENZE | 20.9172  | 479312  | 84057  |
| 33.546                    | 33.538   | HEXACHLOROBUTADIENE  | 20.9718  | 655827  | 99445  |
| 33.972                    | 33.963   | 1,2,3-TRICHLOROBENZE | 21.9967  | 490976  | 75143  |
| TOTAL 1,2-DICHLOROETHENE: |          |                      | 39.2160  |         |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 106.7194%

Chrom Perfect version 6.07

Reported on 01-02-2002at 01:20:44

Sample name: CHKSTD

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365.41R

Reviewed by:       Jas      

Verified by:       VMM49      

Date:       1-2-02      

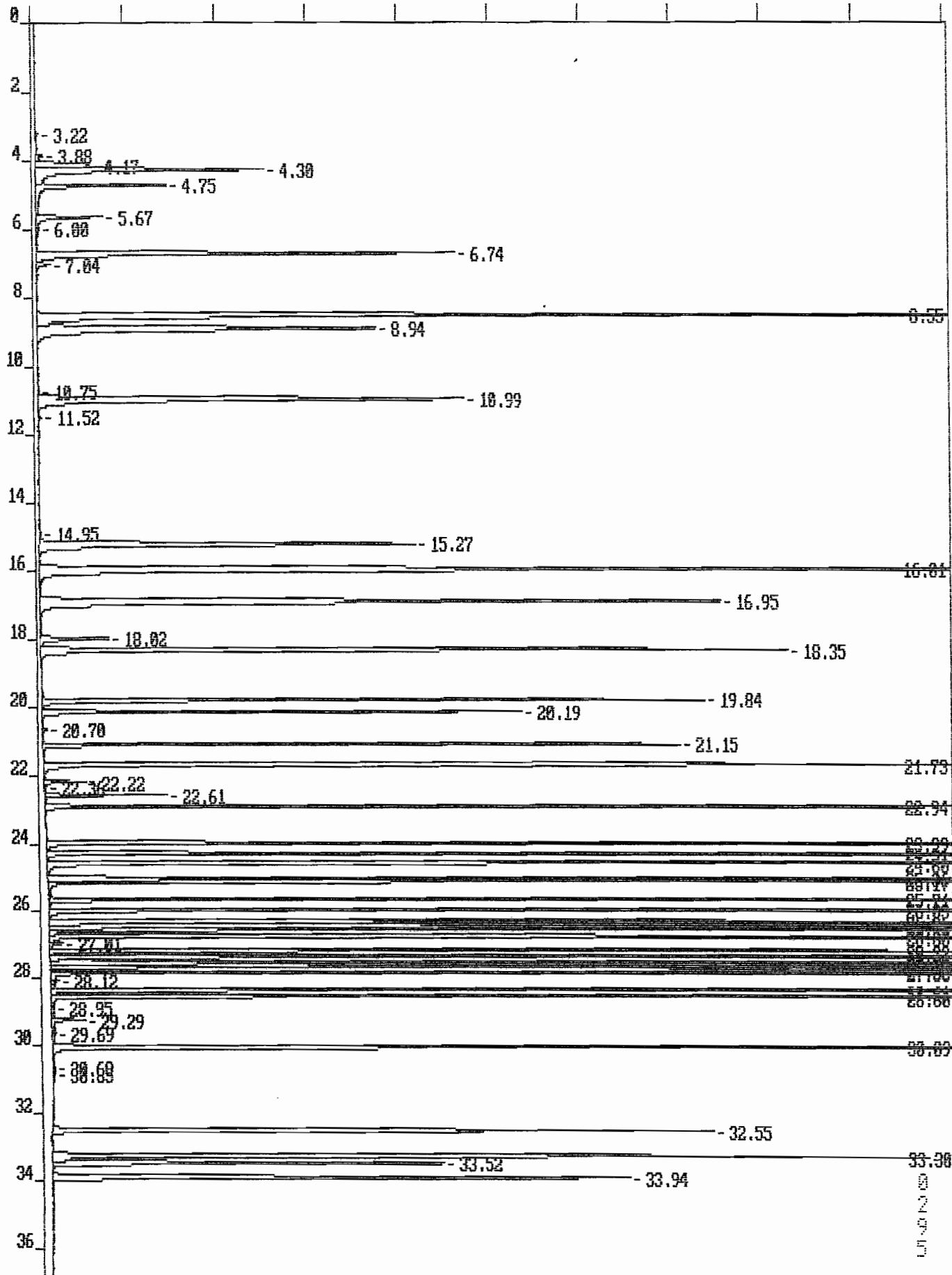
Date:       01/02/02

File=C:\CP\DATA1\183658.41R Date printed=01-02-2002 Time= 01:21:06

Sample Name=CHKSTD

01365A188400,8401

0.0 to 37.0 min. Low Y=0.021 High Y=15.021 mv Span=15.0



Sample Name: **CHKSTD**  
 Batch: 01365A18 Date Taken: Jan 2, 2002 01:19:48  
 Raw File: C:\CP\DATA1\18365B.41R  
 Area File: C:\CP\DATA1\18365B.41A  
 Method File: C:\CP\DATA1\18365B.MET(version 2 )  
 EPA Methods 502.2/601/8010B/8021A Run Time: 37  
 75m x 0.45mm ID J&W Scientific DB-VRX column  
 T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115  
 Threshold: -1 Calculation: INTERNALStd using peak heights

**Peak table using calibration C:\CP\DATA1\P18365.CAL(version 13):**

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.297    | 4.269    | VINYL CHLORIDE       | 10.4402  | 26474  | 3716   |
| 6.735    | 6.712    | 1,1-DICHLOROETHENE   | 16.9080  | 39272  | 6869   |
| 8.553    | 8.529    | TRANS-1,2-DICHLOROET | 17.8385  | 95868  | 16829  |
| 8.939    | 8.918    | METHYL T-BUTYL ETHER | 19.9441  | 48668  | 5547   |
| 10.990   | 10.963   | CIS-1,2-DICHLOROETHE | 18.2175  | 51566  | 6981   |
| 15.274   | 15.254   | 1,1-DICHLOROPROPENE  | 18.3331  | 45558  | 6159   |
| 16.011   | 15.991   | BENZENE              | 18.5695  | 110882 | 15412  |
| 16.947   | 16.927   | ISTD-FBENZENE        | 1.0000   | 85295  | 11193  |
| 18.346   | 18.333   | TRICHLOROETHENE      | 18.2926  | 64062  | 12294  |
| 19.840   | 19.833   | 2-CHLOROETHYL VINYL  | 21.8447  | 44040  | 10901  |
| 20.189   | 20.182   | CIS-1,3-DICHLOROPROP | 18.6937  | 29894  | 7909   |
| 21.146   | 21.141   | TRANS-1,3-DICHLOROPR | 17.2858  | 34542  | 10495  |
| 21.733   | 21.729   | TOLUENE              | 18.4425  | 103532 | 31002  |
| 22.941   | 22.939   | TETRACHLOROETHENE    | 18.5207  | 49906  | 16537  |
| 23.991   | 23.990   | CHLOROBENZENE        | 18.7767  | 109899 | 42604  |
| 24.306   | 24.305   | ETHYLBENZENE         | 18.7750  | 93737  | 34818  |
| 24.598   | 24.597   | M,P-XYLENE           | 37.7983  | 221863 | 69710  |
| 25.063   | 25.063   | STYRENE              | 19.1163  | 120064 | 44886  |
| 25.166   | 25.165   | O-XYLENE             | 19.1995  | 98607  | 34959  |
| 25.709   | 25.709   | ISOPROPYLBENZENE     | 19.4845  | 80953  | 27228  |
| 26.027   | 26.026   | BROMOBENZENE         | 18.9299  | 113406 | 39715  |
| 26.356   | 26.355   | N-PROPYLBENZENE      | 18.8595  | 88286  | 30603  |
| 26.479   | 26.478   | 2-CHLOROTOLUENE      | 19.0462  | 98139  | 33923  |
| 26.598   | 26.598   | 4-CHLOROTOLUENE      | 18.9640  | 100795 | 35716  |
| 26.803   | 26.802   | 1,3,5-TRIMETHYLBENZE | 19.1716  | 130369 | 43933  |
| 27.227   | 27.226   | TERT-BUTYLBENZENE    | 19.2184  | 76583  | 23250  |
| 27.409   | 27.408   | 1,2,4-TRIMETHYLBENZE | 19.2635  | 100517 | 33000  |
| 27.577   | 27.576   | SEC-BUTYLBENZENE     | 19.0593  | 78010  | 23547  |
| 27.683   | 27.682   | 1,3-DICHLOROBENZENE  | 18.9853  | 98284  | 31899  |
| 27.799   | 27.797   | 1,4-DICHLOROBENZENE  | 18.9197  | 98024  | 31938  |
| 27.884   | 27.883   | P-ISOPROPYLTOLUENE   | 19.9760  | 78378  | 24244  |
| 28.409   | 28.406   | 1,2-DICHLOROBENZENE  | 18.9720  | 79087  | 23941  |
| 28.597   | 28.594   | N-BUTYLBENZENE       | 19.5353  | 77075  | 22413  |
| 30.094   | 30.089   | SURR-1B4CB-P         | 30.2260  | 157131 | 42081  |
| 32.553   | 32.546   | 1,2,4-TRICHLOROBENZE | 19.8986  | 51448  | 10909  |
| 33.299   | 33.293   | NAPHTHALENE          | 22.5036  | 70917  | 14451  |
| 33.517   | 33.509   | HEXACHLOROBUTADIENE  | 19.8840  | 36499  | 6446   |
| 33.943   | 33.935   | 1,2,3-TRICHLOROBENZE | 21.0159  | 50248  | 9532   |

**XYLENES (Total): 56.9977**

\* Amounts in ug/L for water samples, ug/kg for solid samples.

**Surrogate Recovery:** BrClBenzene 100.7534%

Chrom Perfect version 6.07

Reported on 01-02-2002at 01:22:36

**Internal Standard Calculations From ISTDCHK v. 950609.1130**

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: CHKSTD

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365B.41R

Reviewed by: TB us

Verified by: mmuq

Date: 1-2-02

Date: 01/02/02



Quality Control Summary  
SDG# 40UL03  
Instrument ID: 5843  
Ending Calibration Verification Summary

CCV Batch: 01365A18

Data File: C:\CP\DATA1\18365.52R  
Date Injected: 01/02/02 Time Injected: 09:44  
Initial Calibration Date(s): 12/31/01 (HALL)

| Sample Information |              |          |               |
|--------------------|--------------|----------|---------------|
| LL Sample#         | Sample Code  | Date     | Analysis Time |
| BLK1810            | METHOD BLANK | 01/02/02 | 02:46         |
| 3749350            | MW-9U        | 01/02/02 | 03:38         |
| 3749351            | MW-9L        | 01/02/02 | 04:21         |
| 3749352            | MW10U        | 01/02/02 | 05:08         |
| 3749353            | MW10L        | 01/02/02 | 05:51         |
| 3749352            | MW10U        | 01/02/02 | 06:38         |
| 3749355            | MW-5M        | 01/02/02 | 07:21         |
| 3749356            | MW-5L        | 01/02/02 | 08:04         |
| 3749354            | MW-5U        | 01/02/02 | 08:47         |

| COMPOUND (DETECTOR)         | THEORETICAL CONCENTRATION (UG/L ) | ACTUAL CONCENTRATION (UG/L ) | % DRIFT | %DRIFT LIMITS |
|-----------------------------|-----------------------------------|------------------------------|---------|---------------|
| DICHLORODIFLUOROMETH (HALL) | 20.0                              | 24.1                         | 20      | -20 to +20    |
| CHLOROMETHANE (HALL)        | 20.0                              | 12.9                         | -35 *   | -20 to +20    |
| VINYL CHLORIDE (HALL)       | 20.0                              | 19.6                         | -2      | -20 to +20    |
| BROMOMETHANE (HALL)         | 20.0                              | 17.4                         | -13     | -20 to +20    |
| CHLOROETHANE (HALL)         | 20.0                              | 16.8                         | -16     | -20 to +20    |
| TRICHLOROFLUOROMETHA (HALL) | 20.0                              | 18.4                         | -8      | -20 to +20    |
| 1,1-DICHLOROETHENE (HALL)   | 20.0                              | 17.5                         | -13     | -15 to +15    |
| METHYLENE CHLORIDE (HALL)   | 20.0                              | 16.6                         | -17 *   | -15 to +15    |
| TRANS-1,2-DICHLOROET (HALL) | 20.0                              | 18.0                         | -10     | -15 to +15    |
| 1,1-DICHLOROETHANE (HALL)   | 20.0                              | 18.8                         | -6      | -15 to +15    |
| CIS-1,2-DICHLOROETHE (HALL) | 20.0                              | 18.8                         | -6      | -15 to +15    |
| CHLOROFORM (HALL)           | 20.0                              | 18.8                         | -6      | -15 to +15    |
| 1,2-DICHLOROETHANE (HALL)   | 20.0                              | 18.7                         | -6      | -15 to +15    |
| 1,1,1-TRICHLOROETHAN (HALL) | 20.0                              | 18.6                         | -7      | -15 to +15    |

\* = %DRIFT outside control limits.

Quality Control Summary

SDG# HUL03

Instrument ID: 5843

Ending Calibration Verification Summary

CCV Batch: 01365A18

Data File: C:\CP\DATA1\18365.52R

Date Injected: 01/02/02 Time Injected: 09:44

Initial Calibration Date(s): 12/31/01(HALL)

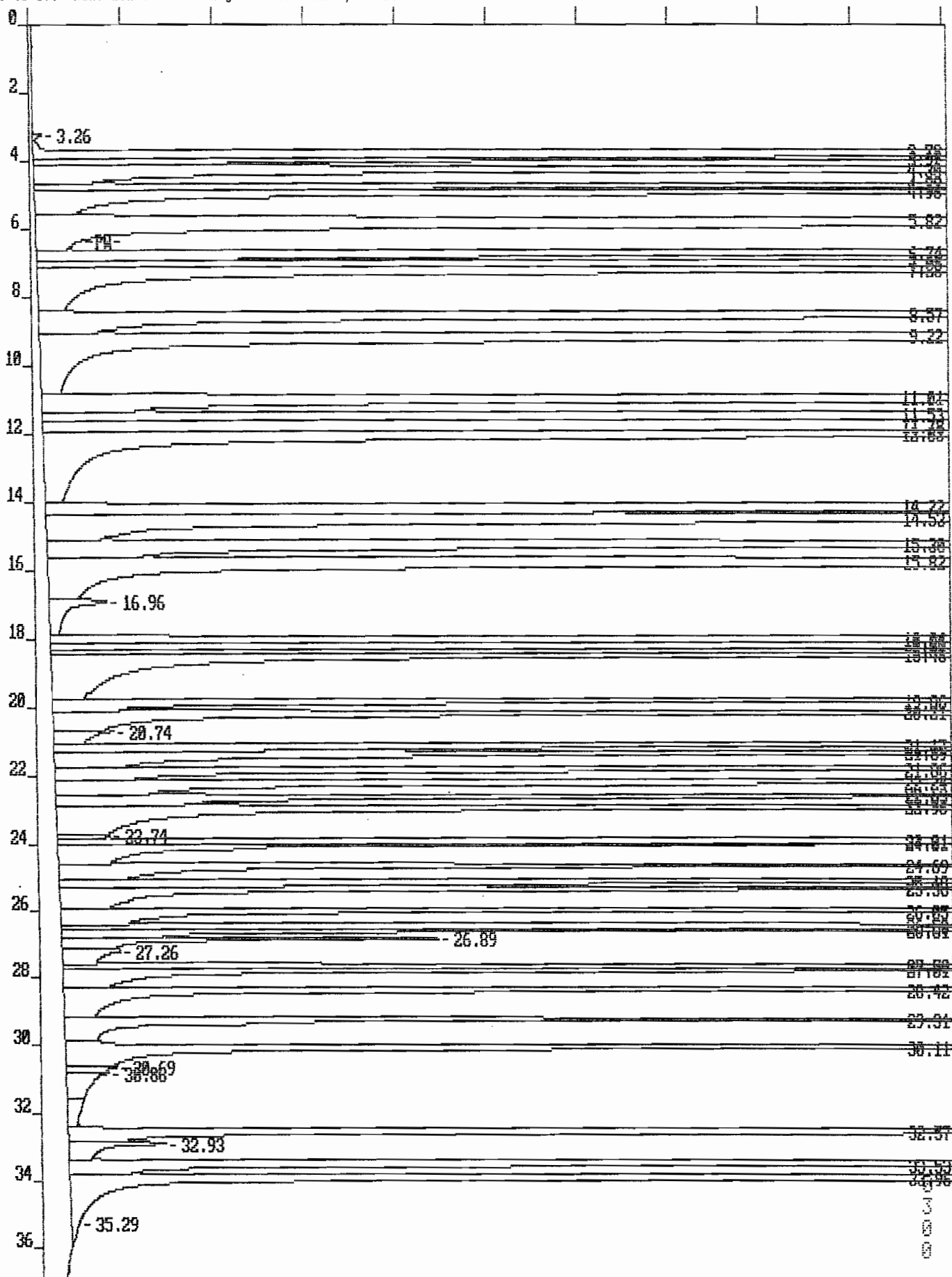
| COMPOUND (DETECTOR)         | THEORETICAL<br>CONCENTRATION<br>(UG/L ) | ACTUAL<br>CONCENTRATION<br>(UG/L ) | % DRIFT | %DRIFT<br>LIMITS |
|-----------------------------|-----------------------------------------|------------------------------------|---------|------------------|
| CARBON TETRACHLORIDE (HALL) | 20.0                                    | 18.6                               | -7      | -15 to +15       |
| 1,2-DICHLOROPROPANE (HALL)  | 20.0                                    | 19.1                               | -5      | -15 to +15       |
| BROMODICHLOROMETHANE (HALL) | 20.0                                    | 18.4                               | -8      | -15 to +15       |
| CIS-1,3-DICHLOROPROP (HALL) | 20.0                                    | 18.8                               | -6      | -15 to +15       |
| TRANS-1,3-DICHLOROPR (HALL) | 20.0                                    | 17.8                               | -11     | -15 to +15       |
| 1,1,2-TRICHLOROETHAN (HALL) | 20.0                                    | 18.8                               | -6      | -15 to +15       |
| DIBROMOCHLOROMETHANE (HALL) | 20.0                                    | 20.2                               | 1       | -15 to +15       |
| TETRACHLOROETHENE (HALL)    | 20.0                                    | 18.6                               | -7      | -15 to +15       |
| BROMOFORM (HALL)            | 20.0                                    | 21.1                               | 5       | -15 to +15       |
| 1,1,2,2-TETRACHLORO (HALL)  | 20.0                                    | 19.6                               | -2      | -15 to +15       |
| 1,3-DICHLOROBENZENE (HALL)  | 20.0                                    | 19.5                               | -2      | -15 to +15       |
| 1,2-DICHLOROBENZENE (HALL)  | 20.0                                    | 19.3                               | -4      | -15 to +15       |
| SURR-1B4CB-H (HALL)         | 30.0                                    | 29.8                               | 0       | -41 to +32       |

Mean %Drift for all calibration compounds (HALL) = -8.5

File=C:\CP\DATA1\18365.52R Date printed=01-02-2002 Time= 09:44:48

Sample Name=CHKSTD 01365A188400,8401

0.0 to 37.0 min. Low Y=-0.015 High Y=14.985 mv Span=15.0



Sample Name: CHKSTD

Batch: 01365A18

Date Taken: Jan 2, 2002 09:44:42

Raw File: C:\CP\DATA1\18365.52R

Area File: C:\CP\DATA1\18365.52A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 14):

| Ret Time | Expected |                      | Amount * | Peak    | Peak   |
|----------|----------|----------------------|----------|---------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area    | Height |
| 3.781    | 3.802    | DICHLORODIFLUOROMETH | 24.0551  | 330677  | 48694  |
| 3.973    | 3.998    | CHLOROMETHANE        | 12.9487  | 197890  | 28933  |
| 4.295    | 4.325    | VINYL CHLORIDE       | 19.5866  | 487698  | 69681  |
| 4.766    | 4.781    | BROMOMETHANE         | 17.4323  | 257784  | 46854  |
| 4.963    | 4.977    | CHLOROETHANE         | 16.8060  | 436758  | 71618  |
| 5.823    | 5.837    | TRICHLOROFLUOROMETHA | 18.4305  | 664082  | 47056  |
| 6.743    | 6.764    | 1,1-DICHLOROETHENE   | 17.4619  | 514731  | 80837  |
| 7.053    | 7.071    | METHYLENE CHLORIDE   | 16.6188  | 802631  | 137888 |
| 7.233    | 7.251    | TRICHLOROTRIFLUOROET | 16.0826  | 595091  | 58418  |
| 8.567    | 8.581    | TRANS-1,2-DICHLOROET | 18.0104  | 785756  | 112526 |
| 9.216    | 9.232    | 1,1-DICHLOROETHANE   | 18.7539  | 867080  | 100361 |
| 11.007   | 11.020   | CIS-1,2-DICHLOROETHE | 18.7811  | 805312  | 95044  |
| 11.526   | 11.539   | BROMOCHLOROMETHANE   | 18.9434  | 559460  | 68948  |
| 11.782   | 11.795   | CHLOROFORM           | 18.7627  | 1061644 | 114754 |
| 12.032   | 12.041   | 2,2-DICHLOROPROPANE  | 17.8761  | 771771  | 58057  |
| 14.215   | 14.223   | 1,2-DICHLOROETHANE   | 18.7351  | 720219  | 89616  |
| 14.534   | 14.540   | 1,1,1-TRICHLOROETHAN | 18.5958  | 982169  | 92392  |
| 15.297   | 15.304   | 1,1-DICHLOROPROPENE  | 18.1432  | 680530  | 79761  |
| 15.821   | 15.826   | CARBON TETRACHLORIDE | 18.6410  | 1106946 | 112928 |
| 18.039   | 18.045   | DIBROMOMETHANE       | 19.6460  | 341657  | 58234  |
| 18.212   | 18.218   | 1,2-DICHLOROPROPANE  | 19.0691  | 708055  | 108671 |
| 18.368   | 18.374   | TRICHLOROETHENE      | 17.9233  | 846543  | 143265 |
| 18.476   | 18.482   | BROMODICHLOROMETHANE | 18.3520  | 858349  | 124214 |
| 19.863   | 19.868   | 2-CHLOROETHYL VINYL  | 20.5431  | 252447  | 47284  |
| 20.210   | 20.215   | CIS-1,3-DICHLOROPROP | 18.8130  | 689676  | 135868 |
| 21.166   | 21.172   | TRANS-1,3-DICHLOROPR | 17.7830  | 539904  | 123634 |
| 21.395   | 21.401   | 1,1,2-TRICHLOROETHAN | 18.8423  | 756602  | 158159 |
| 21.857   | 21.863   | 1,3-DICHLOROPROPANE  | 18.7848  | 593627  | 131860 |
| 22.240   | 22.247   | DIBROMOCHLOROMETHANE | 20.2465  | 537603  | 118185 |
| 22.635   | 22.641   | 1,2-DIBROMOETHANE    | 19.8786  | 336044  | 74827  |
| 22.960   | 22.967   | TETRACHLOROETHENE    | 18.6161  | 919999  | 206892 |
| 23.910   | 23.917   | 1,1,1,2-TETRACHLOROE | 19.2663  | 844862  | 225462 |
| 24.008   | 24.014   | CHLOROBENZENE        | 18.7491  | 449979  | 103460 |
| 24.688   | 24.694   | BROMOFORM            | 21.0808  | 348572  | 77946  |
| 25.178   | 25.184   | 1,1,2,2-TETRACHLOROE | 19.6207  | 513091  | 127341 |
| 25.381   | 25.388   | 1,2,3-TRICHLOROPROPA | 19.7334  | 446005  | 100695 |
| 26.046   | 26.054   | BROMOBENZENE         | 20.0466  | 256495  | 56742  |
| 26.497   | 26.504   | 2-CHLOROTOLUENE      | 19.6051  | 299806  | 78177  |
| 26.615   | 26.623   | 4-CHLOROTOLUENE      | 19.3295  | 327142  | 78217  |
| 27.700   | 27.709   | 1,3-DICHLOROBENZENE  | 19.5100  | 445230  | 114260 |
| 27.815   | 27.824   | 1,4-DICHLOROBENZENE  | 19.2254  | 541586  | 119827 |
| 28.425   | 28.435   | 1,2-DICHLOROBENZENE  | 19.2920  | 509653  | 109150 |
| 29.310   | 29.320   | 1,2-DIBROMO-3-CHLORO | 21.3257  | 150728  | 23996  |
| 30.110   | 30.121   | SURR-1B4CB-H         | 29.8378  | 528383  | 102275 |
| 32.568   | 32.581   | 1,2,4-TRICHLOROBENZE | 19.3686  | 451290  | 77834  |
| 33.532   | 33.546   | HEXACHLOROBUTADIENE  | 19.5406  | 615013  | 92658  |
| 33.958   | 33.972   | 1,2,3-TRICHLOROBENZE | 19.6089  | 454194  | 66986  |

TOTAL 1,2-DICHLOROETHENE: 36.7915

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 99.4594%

Chrom Perfect version 6.07

Reported on 01-02-2002at 09:45:38

Sample name: CHKSTD

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365.52R

Reviewed by: DMB/94

Verified by: VMM/48

Date: 1/2/02

Date: 01/02/02

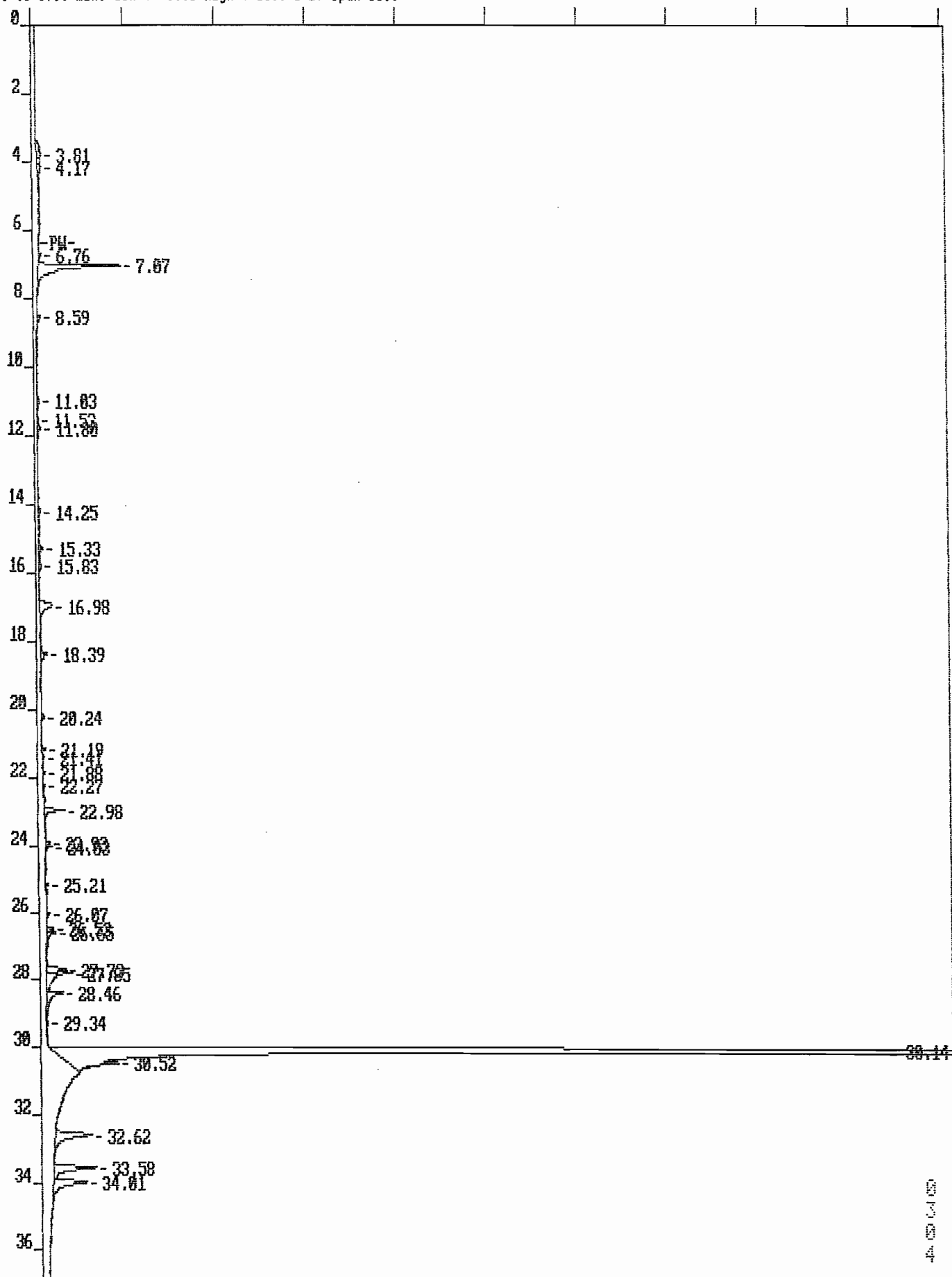
## Raw QC Data

File=C:\CP\DATA1\18365.19R Date printed=12-31-2001 Time= 15:15:48

Sample Name=BLK1808

01365A188400,8401

0.0 to 37.0 min. Low Y=0.001 High Y=15.001 mv Span=15.0



Sample Name: BLK1808

Batch: 01365A18

Date Taken: Dec 31, 2001 15:15:43

Raw File: C:\CP\DATA1\18365.19R

Area File: C:\CP\DATA1\18365.19A

Method File: C:\CP\DATA1\18365.MET(version 2)

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 11):

| Ret Time                  | Expected |                      | Amount * | Peak   | Peak   |
|---------------------------|----------|----------------------|----------|--------|--------|
| (min)                     | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 3.808                     | 3.805    | DICHLORODIFLUOROMETH | 0.0363   | 1631   | 73     |
| 3.985                     | 3.985    | CHLOROMETHANE        | 0.0000   | 0      | 0      |
| 4.166                     | 4.314    | VINYL CHLORIDE       | 0.0171   | 1229   | 61     |
| 4.780                     | 4.780    | BROMOMETHANE         | 0.0000   | 0      | 0      |
| 4.980                     | 4.980    | CHLOROETHANE         | 0.0000   | 0      | 0      |
| 5.837                     | 5.837    | TRICHLOROFLUOROMETHA | 0.0000   | 0      | 0      |
| 6.763                     | 6.761    | 1,1-DICHLOROETHENE   | 0.0075   | 286    | 35     |
| 7.075                     | 7.069    | METHYLENE CHLORIDE   | 0.1636   | 11888  | 1357   |
| 7.253                     | 7.253    | TRICHLOROTRIFLUOROET | 0.0000   | 0      | 0      |
| 8.587                     | 8.582    | TRANS-1,2-DICHLOROET | 0.0107   | 501    | 67     |
| 9.231                     | 9.231    | 1,1-DICHLOROETHANE   | 0.0000   | 0      | 0      |
| 11.030                    | 11.019   | CIS-1,2-DICHLOROETHE | 0.0075   | 284    | 38     |
| 11.533                    | 11.537   | BROMOCHLOROMETHANE   | 0.0069   | 210    | 25     |
| 11.804                    | 11.792   | CHLOROFORM           | 0.0081   | 586    | 50     |
| 12.040                    | 12.040   | 2,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 14.246                    | 14.223   | 1,2-DICHLOROETHANE   | 0.0076   | 399    | 37     |
| 14.542                    | 14.542   | 1,1,1-TRICHLOROETHAN | 0.0000   | 0      | 0      |
| 15.326                    | 15.305   | 1,1-DICHLOROPROPENE  | 0.0146   | 635    | 64     |
| 15.829                    | 15.828   | CARBON TETRACHLORIDE | 0.0056   | 321    | 34     |
| 18.048                    | 18.048   | DIBROMOMETHANE       | 0.0000   | 0      | 0      |
| 18.220                    | 18.220   | 1,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 18.387                    | 18.377   | TRICHLOROETHENE      | 0.0135   | 1021   | 108    |
| 18.485                    | 18.485   | BROMODICHLOROMETHANE | 0.0000   | 0      | 0      |
| 19.872                    | 19.872   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.235                    | 20.220   | CIS-1,3-DICHLOROPROP | 0.0091   | 407    | 65     |
| 21.194                    | 21.176   | TRANS-1,3-DICHLOROPR | 0.0090   | 357    | 62     |
| 21.414                    | 21.406   | 1,1,2-TRICHLOROETHAN | 0.0054   | 215    | 45     |
| 21.884                    | 21.869   | 1,3-DICHLOROPROPANE  | 0.0061   | 236    | 43     |
| 22.270                    | 22.253   | DIBROMOCHLOROMETHANE | 0.0052   | 226    | 31     |
| 22.648                    | 22.648   | 1,2-DIBROMOETHANE    | 0.0000   | 0      | 0      |
| 22.980                    | 22.974   | TETRACHLOROETHENE    | 0.0295   | 1786   | 328    |
| 23.930                    | 23.925   | 1,1,1,2-TETRACHLOROE | 0.0063   | 315    | 74     |
| 24.033                    | 24.022   | CHLOROBENZENE        | 0.0194   | 649    | 107    |
| 24.704                    | 24.704   | BROMOFORM            | 0.0000   | 0      | 0      |
| 25.206                    | 25.194   | 1,1,2,2-TETRACHLOROE | 0.0061   | 205    | 40     |
| 25.398                    | 25.398   | 1,2,3-TRICHLOROPROPA | 0.0000   | 0      | 0      |
| 26.074                    | 26.064   | BROMOBENZENE         | 0.0178   | 279    | 50     |
| 26.525                    | 26.514   | 2-CHLOROTOLUENE      | 0.0293   | 562    | 117    |
| 26.645                    | 26.633   | 4-CHLOROTOLUENE      | 0.0389   | 1488   | 157    |
| 27.733                    | 27.719   | 1,3-DICHLOROBENZENE  | 0.0532   | 1544   | 311    |
| 27.847                    | 27.833   | 1,4-DICHLOROBENZENE  | 0.0660   | 4662   | 412    |
| 28.457                    | 28.444   | 1,2-DICHLOROBENZENE  | 0.0462   | 2922   | 262    |
| 29.340                    | 29.330   | 1,2-DIBROMO-3-CHLORO | 0.0179   | 284    | 20     |
| 30.140                    | 30.132   | SURR-1B4CB-H         | 27.0070  | 463618 | 92572  |
| 32.616                    | 32.593   | 1,2,4-TRICHLOROBENZE | 0.1477   | 6381   | 594    |
| 33.576                    | 33.559   | HEXACHLOROBUTADIENE  | 0.1470   | 6412   | 697    |
| 34.008                    | 33.985   | 1,2,3-TRICHLOROBENZE | 0.1611   | 6355   | 550    |
| TOTAL 1,2-DICHLOROETHENE: |          |                      | 0.0182   |        |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 90.0233%

Chrom Perfect version 6.07

Reported on 12-31-2001at 15:16:37

12/31/01



Sample name: BLK1808

Batch: 01365A188400,840

Raw file: C:\CP\DATA1\18365.19R

Reviewed by: SKP688

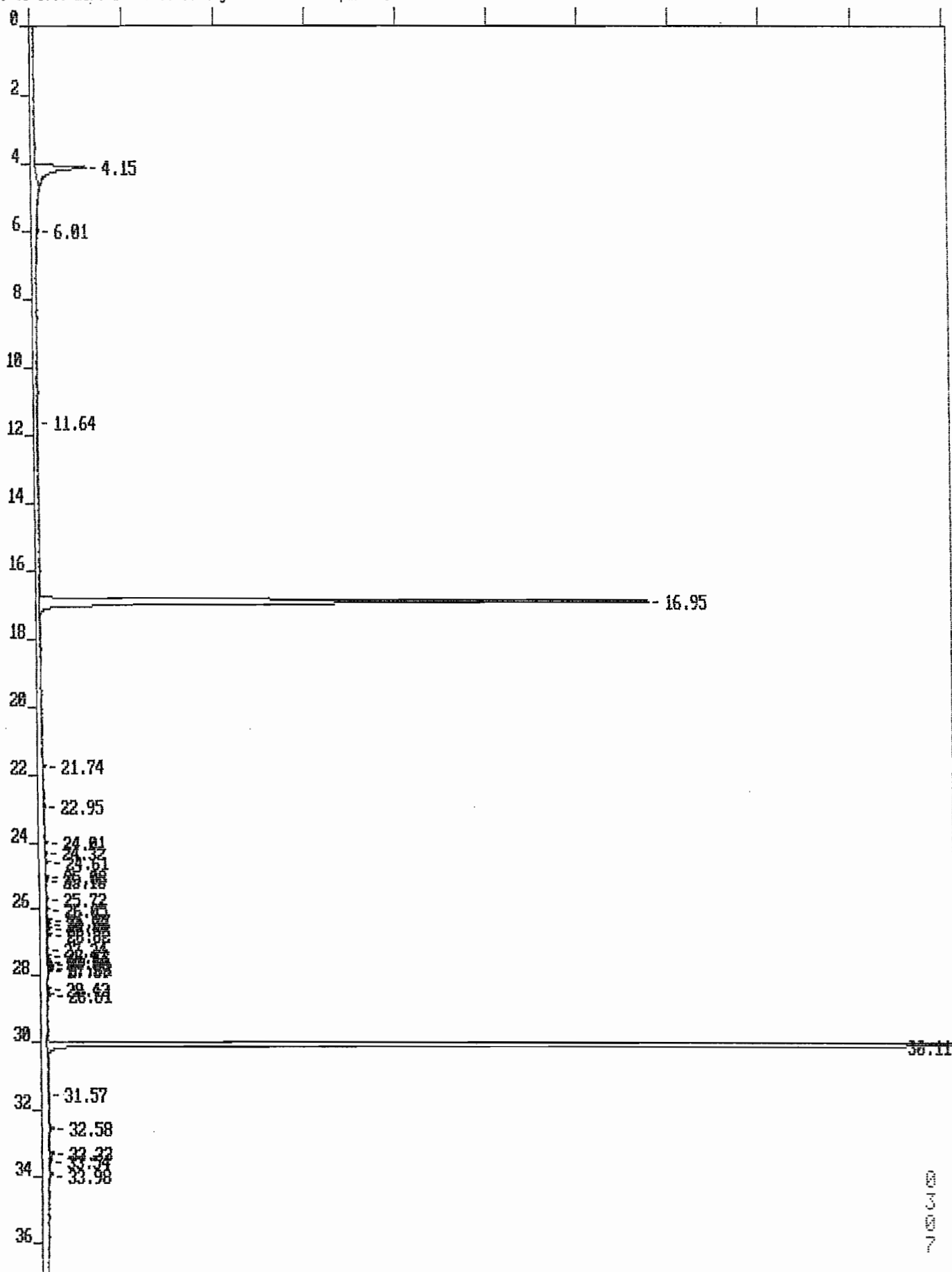
Verified by: dmm48

Date: 12/31/01

Date: 01/02/02

01365A188400,8401

0.0 to 37.0 min. Low Y=0.003 High Y=15.003 mv Span=15.0



Sample Name: BLK1808

Batch: 01365A18

Date Taken: Dec 31, 2001 15:15:43

Raw File: C:\CP\DATA1\18365B.19R

Area File: C:\CP\DATA1\18365B.19A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 11):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.287    | 4.287    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 6.733    | 6.733    | 1,1-DICHLOROETHENE   | 0.0000   | 0      | 0      |
| 8.554    | 8.554    | TRANS-1,2-DICHLOROET | 0.0000   | 0      | 0      |
| 8.939    | 8.939    | METHYL T-BUTYL ETHER | 0.0000   | 0      | 0      |
| 10.989   | 10.989   | CIS-1,2-DICHLOROETHE | 0.0000   | 0      | 0      |
| 15.276   | 15.276   | 1,1-DICHLOROPROPENE  | 0.0000   | 0      | 0      |
| 16.012   | 16.012   | BENZENE              | 0.0000   | 0      | 0      |
| 16.951   | 16.948   | ISTD-FBENZENE        | 1.0000   | 75457  | 10021  |
| 18.349   | 18.349   | TRICHLOROETHENE      | 0.0000   | 0      | 0      |
| 19.845   | 19.845   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.193   | 20.193   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.151   | 21.151   | TRANS-1,3-DICHLOROPR | 0.0000   | 0      | 0      |
| 21.744   | 21.738   | TOLUENE              | 0.0358   | 189    | 54     |
| 22.947   | 22.948   | TETRACHLOROETHENE    | 0.0498   | 128    | 40     |
| 24.007   | 23.999   | CHLOROBENZENE        | 0.0272   | 185    | 55     |
| 24.323   | 24.314   | ETHYLBENZENE         | 0.0240   | 124    | 40     |
| 24.613   | 24.606   | M,P-XYLENE           | 0.0527   | 333    | 87     |
| 25.082   | 25.072   | STYRENE              | 0.0286   | 188    | 60     |
| 25.180   | 25.175   | O-XYLENE             | 0.0250   | 158    | 41     |
| 25.723   | 25.719   | ISOPROPYLBENZENE     | 0.0288   | 181    | 36     |
| 26.049   | 26.037   | BROMOBENZENE         | 0.0301   | 184    | 57     |
| 26.374   | 26.365   | N-PROPYLBENZENE      | 0.0531   | 311    | 77     |
| 26.497   | 26.488   | 2-CHLOROTOLUENE      | 0.0383   | 199    | 61     |
| 26.620   | 26.607   | 4-CHLOROTOLUENE      | 0.0483   | 292    | 81     |
| 26.818   | 26.812   | 1,3,5-TRIMETHYLBENZE | 0.0403   | 324    | 83     |
| 27.241   | 27.236   | TERT-BUTYLBENZENE    | 0.0336   | 110    | 36     |
| 27.424   | 27.418   | 1,2,4-TRIMETHYLBENZE | 0.0415   | 226    | 64     |
| 27.596   | 27.586   | SEC-BUTYLBENZENE     | 0.0490   | 196    | 54     |
| 27.709   | 27.693   | 1,3-DICHLOROBENZENE  | 0.0578   | 328    | 87     |
| 27.819   | 27.808   | 1,4-DICHLOROBENZENE  | 0.0668   | 346    | 101    |
| 27.894   | 27.894   | P-ISOPROPYLTOLUENE   | 0.0625   | 339    | 68     |
| 28.425   | 28.418   | 1,2-DICHLOROBENZENE  | 0.0563   | 311    | 64     |
| 28.613   | 28.606   | N-BUTYLBENZENE       | 0.1016   | 641    | 104    |
| 30.111   | 30.104   | SURR-1B4CB-P         | 27.6030  | 130136 | 34405  |
| 32.578   | 32.565   | 1,2,4-TRICHLOROBENZE | 0.1505   | 537    | 74     |
| 33.327   | 33.312   | NAPHTHALENE          | 0.1300   | 575    | 75     |
| 33.537   | 33.530   | HEXACHLOROBUTADIENE  | 0.1762   | 279    | 51     |
| 33.980   | 33.955   | 1,2,3-TRICHLOROBENZE | 0.1574   | 440    | 64     |

XYLENES (Total): 0.0777

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 92.0098%

Chrom Perfect version 6.07

Reported on 12-31-2001at 15:18:10

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: BLK1808

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365B.19R

Reviewed by: SKP Loff

Verified by: UMM49

Date: 12-31-01

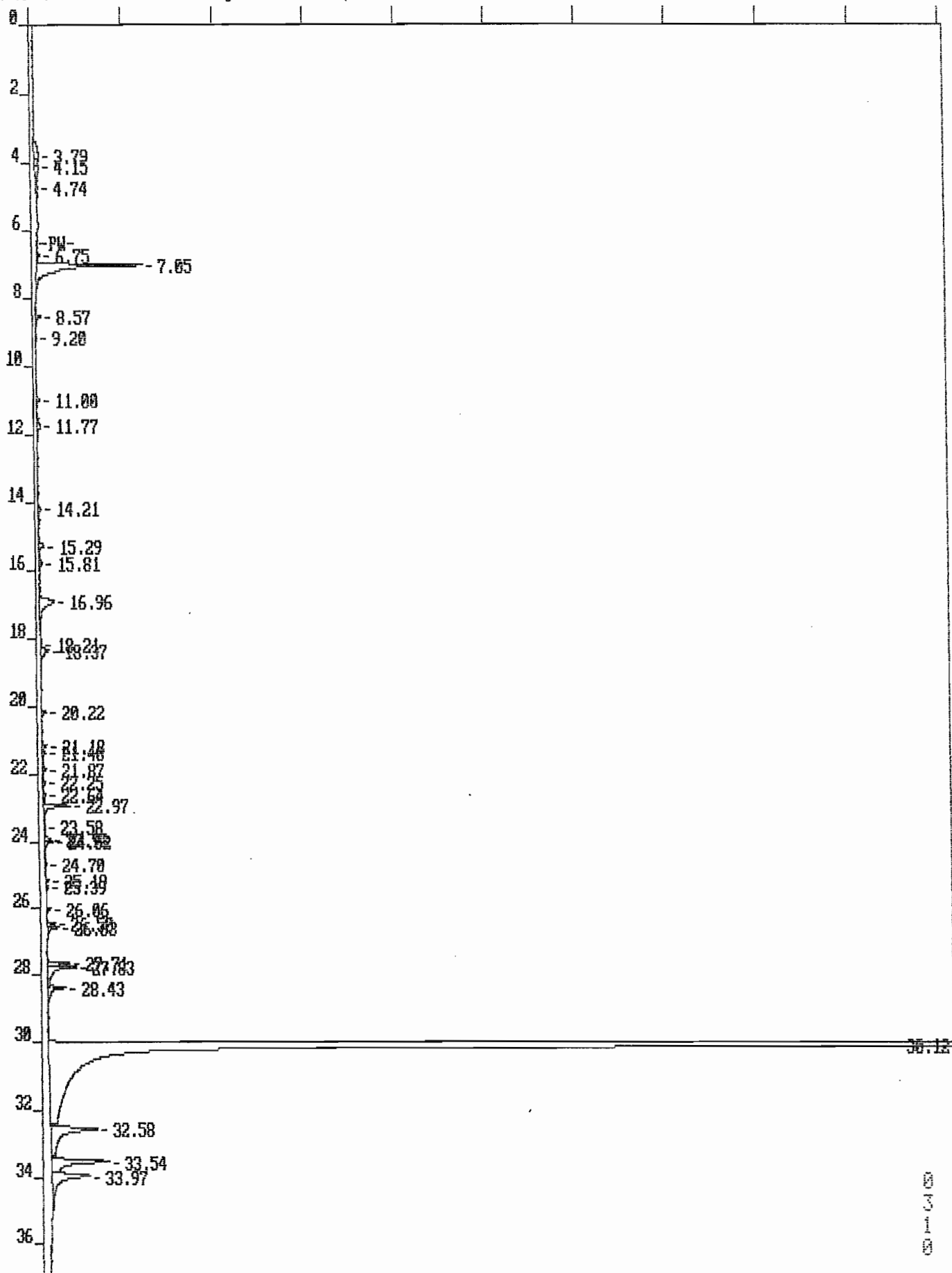
Date: 01/02/02

File=C:\CP\DATA1\18365.27R Date printed=12-31-2001 Time= 21:55:27

Sample Name=BLK1809

01365A188400,8401

0.0 to 37.0 min. Low Y=-0.008 High Y=14.992 mv Span=15.0



Sample Name: BLK1809

Batch: 01365A18

Date Taken: Dec 31, 2001 21:55:22

Raw File: C:\CP\DATA1\18365.27R

Area File: C:\CP\DATA1\18365.27A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 12):

| Ret Time                  | Expected | Amount *             | Peak    | Peak   |        |
|---------------------------|----------|----------------------|---------|--------|--------|
| (min)                     | RT (min) | (ug/L)               | Area    | Height |        |
| 3.787                     | 3.793    | DICHLORODIFLUOROMETH | 0.0386  | 1705   | 78     |
| 3.973                     | 3.973    | CHLOROMETHANE        | 0.0000  | 0      | 0      |
| 4.153                     | 4.303    | VINYL CHLORIDE       | 0.0186  | 1192   | 66     |
| 4.741                     | 4.773    | BROMOMETHANE         | 0.0098  | 227    | 26     |
| 4.974                     | 4.974    | CHLOROETHANE         | 0.0000  | 0      | 0      |
| 5.839                     | 5.839    | TRICHLOROFLUOROMETHA | 0.0000  | 0      | 0      |
| 6.746                     | 6.760    | 1,1-DICHLOROETHENE   | 0.0102  | 400    | 47     |
| 7.054                     | 7.070    | METHYLENE CHLORIDE   | 0.2089  | 14662  | 1734   |
| 7.254                     | 7.254    | TRICHLOROTRIFLUOROET | 0.0000  | 0      | 0      |
| 8.568                     | 8.588    | TRANS-1,2-DICHLOROET | 0.0136  | 634    | 85     |
| 9.202                     | 9.238    | 1,1-DICHLOROETHANE   | 0.0040  | 269    | 21     |
| 10.998                    | 11.030   | CIS-1,2-DICHLOROETHE | 0.0089  | 445    | 45     |
| 11.550                    | 11.550   | BROMOCHLOROMETHANE   | 0.0000  | 0      | 0      |
| 11.770                    | 11.807   | CHLOROFORM           | 0.0092  | 604    | 56     |
| 12.057                    | 12.057   | 2,2-DICHLOROPROPANE  | 0.0000  | 0      | 0      |
| 14.207                    | 14.235   | 1,2-DICHLOROETHANE   | 0.0089  | 371    | 42     |
| 14.554                    | 14.554   | 1,1,1-TRICHLOROETHAN | 0.0000  | 0      | 0      |
| 15.294                    | 15.315   | 1,1-DICHLOROPROPENE  | 0.0200  | 797    | 88     |
| 15.814                    | 15.838   | CARBON TETRACHLORIDE | 0.0076  | 390    | 46     |
| 18.053                    | 18.053   | DIBROMOMETHANE       | 0.0000  | 0      | 0      |
| 18.213                    | 18.225   | 1,2-DICHLOROPROPANE  | 0.0054  | 222    | 31     |
| 18.366                    | 18.382   | TRICHLOROETHENE      | 0.0181  | 1466   | 144    |
| 18.489                    | 18.489   | BROMODICHLOROMETHANE | 0.0000  | 0      | 0      |
| 19.873                    | 19.873   | 2-CHLOROETHYL VINYL  | 0.0000  | 0      | 0      |
| 20.217                    | 20.220   | CIS-1,3-DICHLOROPROP | 0.0113  | 502    | 82     |
| 21.180                    | 21.176   | TRANS-1,3-DICHLOROPR | 0.0112  | 454    | 78     |
| 21.397                    | 21.405   | 1,1,2-TRICHLOROETHAN | 0.0072  | 441    | 60     |
| 21.866                    | 21.868   | 1,3-DICHLOROPROPANE  | 0.0078  | 330    | 55     |
| 22.251                    | 22.251   | DIBROMOCHLOROMETHANE | 0.0071  | 298    | 41     |
| 22.645                    | 22.645   | 1,2-DIBROMOETHANE    | 0.0100  | 260    | 38     |
| 22.965                    | 22.971   | TETRACHLOROETHENE    | 0.0404  | 2718   | 449    |
| 23.916                    | 23.921   | 1,1,1,2-TETRACHLOROE | 0.0086  | 484    | 100    |
| 24.018                    | 24.018   | CHLOROBENZENE        | 0.0250  | 969    | 138    |
| 24.698                    | 24.700   | BROMOFORM            | 0.0083  | 329    | 31     |
| 25.188                    | 25.190   | 1,1,2,2-TETRACHLOROE | 0.0081  | 282    | 52     |
| 25.390                    | 25.394   | 1,2,3-TRICHLOROPROPA | 0.0087  | 269    | 45     |
| 26.059                    | 26.060   | BROMOBENZENE         | 0.0228  | 347    | 64     |
| 26.505                    | 26.510   | 2-CHLOROTOLUENE      | 0.0334  | 583    | 133    |
| 26.626                    | 26.629   | 4-CHLOROTOLUENE      | 0.0445  | 991    | 180    |
| 27.711                    | 27.716   | 1,3-DICHLOROBENZENE  | 0.0643  | 1779   | 377    |
| 27.825                    | 27.831   | 1,4-DICHLOROBENZENE  | 0.0775  | 4377   | 483    |
| 28.435                    | 28.444   | 1,2-DICHLOROBENZENE  | 0.0517  | 2400   | 292    |
| 29.331                    | 29.331   | 1,2-DIBROMO-3-CHLORO | 0.0000  | 0      | 0      |
| 30.115                    | 30.133   | SURR-1B4CB-H         | 29.5618 | 545221 | 101329 |
| 32.580                    | 32.592   | 1,2,4-TRICHLOROBENZE | 0.1903  | 11217  | 765    |
| 33.543                    | 33.557   | HEXACHLOROBUTADIENE  | 0.1999  | 9594   | 948    |
| 33.972                    | 33.983   | 1,2,3-TRICHLOROBENZE | 0.1828  | 8085   | 624    |
| TOTAL 1,2-DICHLOROETHENE: |          | 0.0226               |         |        |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 98.5392%

Chrom Perfect version 6.07

Reported on 12-31-2001 at 21:56:16

000111

Sample name: BLK1809

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365.27R

Reviewed by:

TS WS

Verified by:

UMM49

Date:

12 1-1-02

Date:

01/02/02

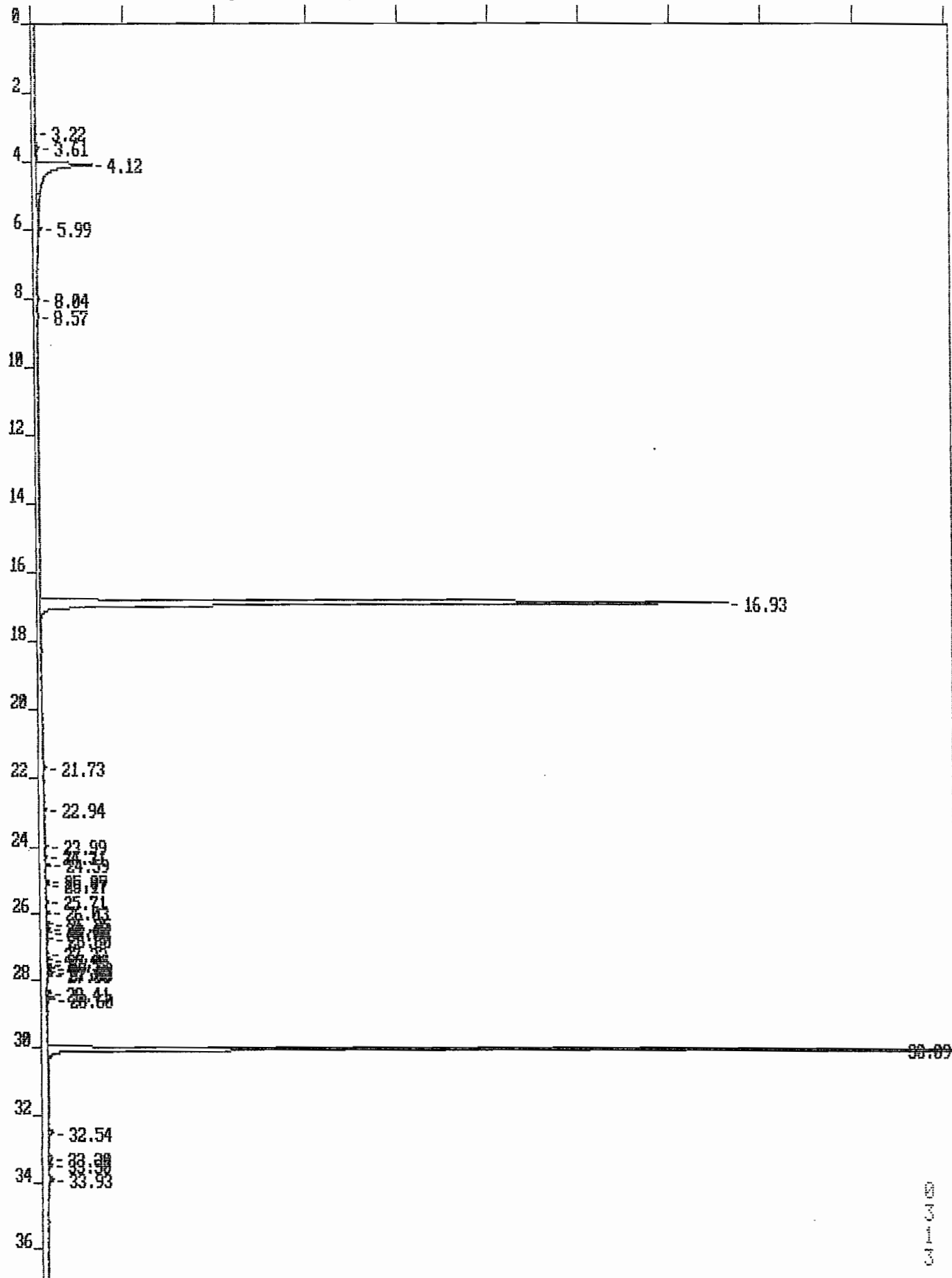
③ M/SN  
2/8/02

File=C:\CP\DATA1\18365B.27R Date printed=12-31-2001 Time= 21:56:28

Sample Name=BLK1809

01365A188400,8401

0.0 to 37.0 min. Low Y=-0.001 High Y=14.999 mv Span=15.0





Date Taken: Dec 31, 2001 21:55:22

Raw File: C:\CP\DATA1\18365B.27R

Area File: C:\CP\DATA1\18365B.27A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap      Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1      Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 12):

| Ret Time (min) | Expected RT (min) | Peak Name            | Amount * (ug/L) | Peak Area | Peak Height |
|----------------|-------------------|----------------------|-----------------|-----------|-------------|
| 4.275          | 4.275             | VINYL CHLORIDE       | 0.0000          | 0         | 0           |
| 6.732          | 6.732             | 1,1-DICHLOROETHENE   | 0.0000          | 0         | 0           |
| 8.569          | 8.558             | TRANS-1,2-DICHLOROET | 0.0227          | 111       | 22          |
| 8.946          | 8.946             | METHYL T-BUTYL ETHER | 0.0000          | 0         | 0           |
| 11.000         | 11.000            | CIS-1,2-DICHLOROETHE | 0.0000          | 0         | 0           |
| 15.285         | 15.285            | 1,1-DICHLOROPROPENE  | 0.0000          | 0         | 0           |
| 16.023         | 16.023            | BENZENE              | 0.0000          | 0         | 0           |
| 16.927         | 16.958            | ISTD-FBENZENE        | 1.0000          | 85312     | 11310       |
| 18.353         | 18.353            | TRICHLOROETHENE      | 0.0000          | 0         | 0           |
| 19.845         | 19.845            | 2-CHLOROETHYL VINYL  | 0.0000          | 0         | 0           |
| 20.194         | 20.194            | CIS-1,3-DICHLOROPROP | 0.0000          | 0         | 0           |
| 21.150         | 21.150            | TRANS-1,3-DICHLOROPR | 0.0000          | 0         | 0           |
| 21.733         | 21.737            | TOLUENE              | 0.0384          | 216       | 65          |
| 22.939         | 22.945            | TETRACHLOROETHENE    | 0.0597          | 187       | 54          |
| 23.992         | 23.995            | CHLOROBENZENE        | 0.0267          | 162       | 61          |
| 24.310         | 24.310            | ETHYLBENZENE         | 0.0276          | 156       | 52          |
| 24.592         | 24.602            | M,P-XYLENE           | 0.0564          | 401       | 105         |
| 25.066         | 25.069            | STYRENE              | 0.0287          | 209       | 68          |
| 25.170         | 25.171            | O-XYLENE             | 0.0283          | 162       | 52          |
| 25.707         | 25.715            | ISOPROPYLBENZENE     | 0.0321          | 219       | 45          |
| 26.027         | 26.033            | BROMOBENZENE         | 0.0365          | 222       | 77          |
| 26.352         | 26.361            | N-PROPYLBENZENE      | 0.0662          | 403       | 109         |
| 26.477         | 26.485            | 2-CHLOROTOLUENE      | 0.0408          | 225       | 73          |
| 26.600         | 26.604            | 4-CHLOROTOLUENE      | 0.0507          | 336       | 97          |
| 26.801         | 26.809            | 1,3,5-TRIMETHYLBENZE | 0.0430          | 313       | 100         |
| 27.220         | 27.234            | TERT-BUTYLBENZENE    | 0.0390          | 168       | 48          |
| 27.406         | 27.416            | 1,2,4-TRIMETHYLBENZE | 0.0497          | 306       | 86          |
| 27.579         | 27.584            | SEC-BUTYLBENZENE     | 0.0561          | 273       | 70          |
| 27.682         | 27.691            | 1,3-DICHLOROBENZENE  | 0.0664          | 385       | 113         |
| 27.799         | 27.806            | 1,4-DICHLOROBENZENE  | 0.0725          | 386       | 124         |
| 27.883         | 27.892            | P-ISOPROPYLTOLUENE   | 0.0683          | 309       | 84          |
| 28.410         | 28.418            | 1,2-DICHLOROBENZENE  | 0.0685          | 361       | 87          |
| 28.597         | 28.605            | N-BUTYLBENZENE       | 0.1149          | 774       | 133         |
| 30.087         | 30.105            | SURR-1B4CB-P         | 26.0889         | 138910    | 36702       |
| 32.542         | 32.563            | 1,2,4-TRICHLOROBENZE | 0.1679          | 575       | 93          |
| 33.297         | 33.311            | NAPHTHALENE          | 0.1183          | 544       | 77          |
| 33.497         | 33.528            | HEXACHLOROBUTADIENE  | 0.2213          | 457       | 73          |
| 33.933         | 33.954            | 1,2,3-TRICHLOROBENZE | 0.1575          | 462       | 72          |

XYLENES (Total): 0.0847

\* Amounts in ug/L for water samples, ug/kg for solid samples.

|                     |             |          |
|---------------------|-------------|----------|
| Surrogate Recovery: | BrClBenzene | 86.9631% |
|---------------------|-------------|----------|

Chrom Perfect version 6.07

Reported on 12-31-2001 at 21:57:50

Internal Standard Calculations From ISTDCHK v. 950609.1130

ISTD height for ISTD-FBENZENE is within range

IStd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10.781)

Used initial calibration files to determine range.

Sample name: BLK1809

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365B.27R

Reviewed by:

*T. S. W.*

Verified by:

*Umm49*

Date:

*1-1-02*

Date:

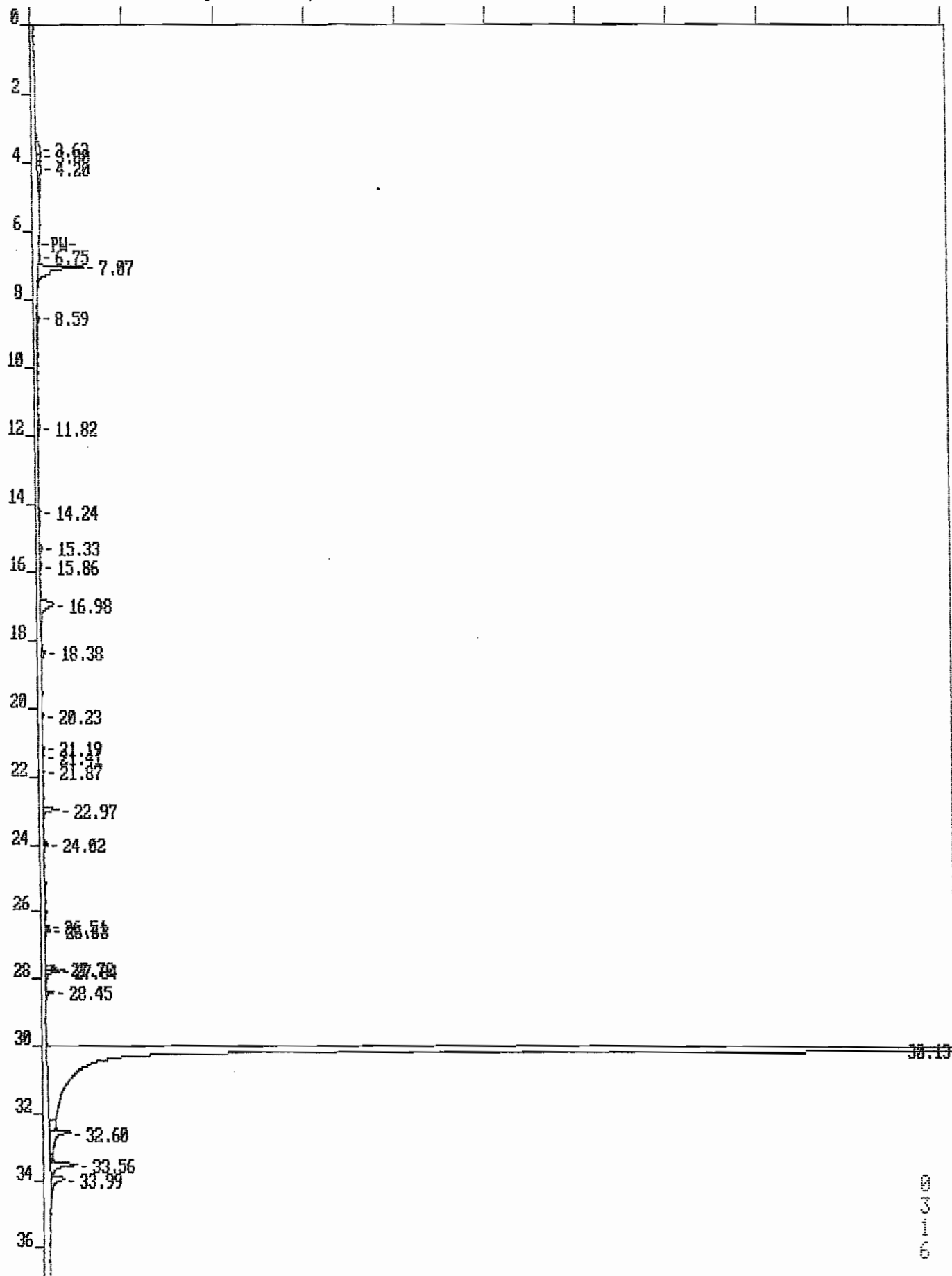
*01/02/02*

File=C:\CP\DATA1\18365.43R Date printed=01-02-2002 Time= 02:46:34

Sample Name=BLK1810

01365A188400,8401

0.0 to 37.0 min. Low Y=0.0 High Y=15.0 mv Span=15.0



Sample Name: BLK1810

Batch: 01365A18

Date Taken: Jan 2, 2002 02:46:30

Raw File: C:\CP\DATA1\18365.43R

Area File: C:\CP\DATA1\18365.43A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 14):

| Ret Time                  | Expected |                      | Amount * | Peak   | Peak   |
|---------------------------|----------|----------------------|----------|--------|--------|
| (min)                     | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 3.800                     | 3.802    | DICHLORODIFLUOROMETH | 0.0364   | 717    | 74     |
| 3.998                     | 3.998    | CHLOROMETHANE        | 0.0000   | 0      | 0      |
| 4.201                     | 4.325    | VINYL CHLORIDE       | 0.0190   | 1647   | 68     |
| 4.781                     | 4.781    | BROMOMETHANE         | 0.0000   | 0      | 0      |
| 4.977                     | 4.977    | CHLOROETHANE         | 0.0000   | 0      | 0      |
| 5.837                     | 5.837    | TRICHLOROFLUOROMETHA | 0.0000   | 0      | 0      |
| 6.754                     | 6.764    | 1,1-DICHLOROETHENE   | 0.0050   | 212    | 23     |
| 7.075                     | 7.071    | METHYLENE CHLORIDE   | 0.0914   | 6916   | 758    |
| 7.251                     | 7.251    | TRICHLOROTRIFLUOROET | 0.0000   | 0      | 0      |
| 8.586                     | 8.581    | TRANS-1,2-DICHLOROET | 0.0062   | 292    | 39     |
| 9.232                     | 9.232    | 1,1-DICHLOROETHANE   | 0.0000   | 0      | 0      |
| 11.020                    | 11.020   | CIS-1,2-DICHLOROETHE | 0.0000   | 0      | 0      |
| 11.539                    | 11.539   | BROMOCHLOROMETHANE   | 0.0000   | 0      | 0      |
| 11.816                    | 11.795   | CHLOROFORM           | 0.0044   | 279    | 27     |
| 12.041                    | 12.041   | 2,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 14.243                    | 14.223   | 1,2-DICHLOROETHANE   | 0.0056   | 246    | 27     |
| 14.540                    | 14.540   | 1,1,1-TRICHLOROETHAN | 0.0000   | 0      | 0      |
| 15.331                    | 15.304   | 1,1-DICHLOROPROPENE  | 0.0105   | 404    | 46     |
| 15.864                    | 15.826   | CARBON TETRACHLORIDE | 0.0050   | 291    | 30     |
| 18.045                    | 18.045   | DIBROMOMETHANE       | 0.0000   | 0      | 0      |
| 18.218                    | 18.218   | 1,2-DICHLOROPROPANE  | 0.0000   | 0      | 0      |
| 18.384                    | 18.374   | TRICHLOROETHENE      | 0.0100   | 823    | 80     |
| 18.482                    | 18.482   | BROMODICHLOROMETHANE | 0.0000   | 0      | 0      |
| 19.868                    | 19.868   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.230                    | 20.215   | CIS-1,3-DICHLOROPROP | 0.0056   | 325    | 40     |
| 21.188                    | 21.172   | TRANS-1,3-DICHLOROPR | 0.0060   | 276    | 42     |
| 21.413                    | 21.401   | 1,1,2-TRICHLOROETHAN | 0.0043   | 247    | 36     |
| 21.874                    | 21.863   | 1,3-DICHLOROPROPANE  | 0.0046   | 217    | 32     |
| 22.247                    | 22.247   | DIBROMOCHLOROMETHANE | 0.0000   | 0      | 0      |
| 22.641                    | 22.641   | 1,2-DIBROMOETHANE    | 0.0000   | 0      | 0      |
| 22.974                    | 22.967   | TETRACHLOROETHENE    | 0.0241   | 1389   | 268    |
| 23.917                    | 23.917   | 1,1,1,2-TETRACHLOROE | 0.0000   | 0      | 0      |
| 24.023                    | 24.014   | CHLOROBENZENE        | 0.0114   | 263    | 63     |
| 24.694                    | 24.694   | BROMOFORM            | 0.0000   | 0      | 0      |
| 25.184                    | 25.184   | 1,1,2,2-TETRACHLOROE | 0.0000   | 0      | 0      |
| 25.388                    | 25.388   | 1,2,3-TRICHLOROPROPA | 0.0000   | 0      | 0      |
| 26.054                    | 26.054   | BROMOBENZENE         | 0.0000   | 0      | 0      |
| 26.513                    | 26.504   | 2-CHLOROTOLUENE      | 0.0172   | 286    | 69     |
| 26.634                    | 26.623   | 4-CHLOROTOLUENE      | 0.0216   | 493    | 87     |
| 27.721                    | 27.709   | 1,3-DICHLOROBENZENE  | 0.0311   | 800    | 182    |
| 27.836                    | 27.824   | 1,4-DICHLOROBENZENE  | 0.0368   | 1689   | 230    |
| 28.447                    | 28.435   | 1,2-DICHLOROBENZENE  | 0.0239   | 807    | 135    |
| 29.320                    | 29.320   | 1,2-DIBROMO-3-CHLORO | 0.0000   | 0      | 0      |
| 30.127                    | 30.121   | SURR-1B4CB-H         | 27.9546  | 511313 | 95820  |
| 32.596                    | 32.581   | 1,2,4-TRICHLOROBENZE | 0.0863   | 5226   | 347    |
| 33.557                    | 33.546   | HEXACHLOROBUTADIENE  | 0.0934   | 4220   | 443    |
| 33.989                    | 33.972   | 1,2,3-TRICHLOROBENZE | 0.0686   | 2394   | 234    |
| TOTAL 1,2-DICHLOROETHENE: |          |                      | 0.0062   |        |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 93.1818%

Chrom Perfect version 6.07

Reported on 01-02-2002at 02:47:23

Raw file:

C:\CP\DATA1\18365.43R

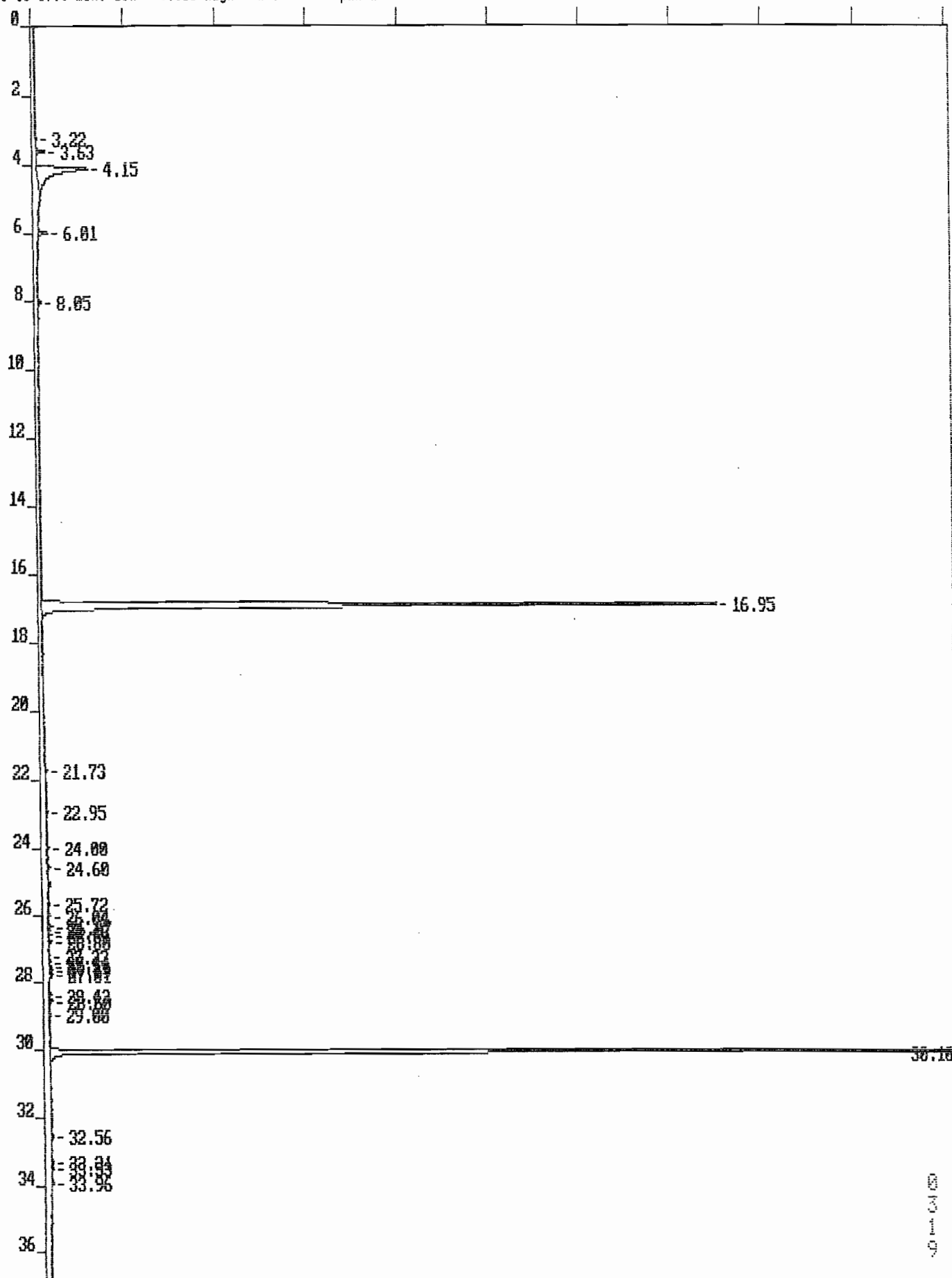
Reviewed by:

Verified by:

Date:

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

0.0 to 37.0 min. Low Y=0.013 High Y=15.013 mv Span=15.0



Sample Name: BLK1810

Batch: 01365A18

Date Taken: Jan 2, 2002 02:46:30

Raw File: C:\CP\DATA1\18365B.43R

Area File: C:\CP\DATA1\18365B.43A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 14):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.297    | 4.297    | VINYL CHLORIDE       | 0.0000   | 0      | 0      |
| 6.735    | 6.735    | 1,1-DICHLOROETHENE   | 0.0000   | 0      | 0      |
| 8.553    | 8.553    | TRANS-1,2-DICHLOROET | 0.0000   | 0      | 0      |
| 8.939    | 8.939    | METHYL T-BUTYL ETHER | 0.0000   | 0      | 0      |
| 10.990   | 10.990   | CIS-1,2-DICHLOROETHE | 0.0000   | 0      | 0      |
| 15.274   | 15.274   | 1,1-DICHLOROPROPENE  | 0.0000   | 0      | 0      |
| 16.011   | 16.011   | BENZENE              | 0.0000   | 0      | 0      |
| 16.948   | 16.947   | ISTD-FBENZENE        | 1.0000   | 83767  | 11096  |
| 18.346   | 18.346   | TRICHLOROETHENE      | 0.0000   | 0      | 0      |
| 19.840   | 19.840   | 2-CHLOROETHYL VINYL  | 0.0000   | 0      | 0      |
| 20.189   | 20.189   | CIS-1,3-DICHLOROPROP | 0.0000   | 0      | 0      |
| 21.146   | 21.146   | TRANS-1,3-DICHLOROPR | 0.0000   | 0      | 0      |
| 21.732   | 21.733   | TOLUENE              | 0.0285   | 209    | 47     |
| 22.952   | 22.941   | TETRACHLOROETHENE    | 0.0375   | 106    | 33     |
| 24.003   | 23.991   | CHLOROBENZENE        | 0.0175   | 147    | 39     |
| 24.306   | 24.306   | ETHYLBENZENE         | 0.0000   | 0      | 0      |
| 24.603   | 24.598   | M,P-XYLENE           | 0.0350   | 197    | 64     |
| 25.063   | 25.063   | STYRENE              | 0.0000   | 0      | 0      |
| 25.166   | 25.166   | O-XYLENE             | 0.0000   | 0      | 0      |
| 25.717   | 25.709   | ISOPROPYLBENZENE     | 0.0252   | 132    | 35     |
| 26.040   | 26.027   | BROMOBENZENE         | 0.0202   | 169    | 42     |
| 26.366   | 26.356   | N-PROPYLBENZENE      | 0.0457   | 307    | 74     |
| 26.482   | 26.479   | 2-CHLOROTOLUENE      | 0.0253   | 163    | 45     |
| 26.606   | 26.598   | 4-CHLOROTOLUENE      | 0.0342   | 238    | 64     |
| 26.803   | 26.803   | 1,3,5-TRIMETHYLBENZE | 0.0248   | 269    | 56     |
| 27.233   | 27.227   | TERT-BUTYLBENZENE    | 0.0216   | 108    | 26     |
| 27.406   | 27.409   | 1,2,4-TRIMETHYLBENZE | 0.0262   | 155    | 45     |
| 27.586   | 27.577   | SEC-BUTYLBENZENE     | 0.0338   | 159    | 41     |
| 27.692   | 27.683   | 1,3-DICHLOROBENZENE  | 0.0360   | 187    | 60     |
| 27.812   | 27.799   | 1,4-DICHLOROBENZENE  | 0.0330   | 166    | 55     |
| 27.884   | 27.884   | P-ISOPROPYLTOLUENE   | 0.0000   | 0      | 0      |
| 28.416   | 28.409   | 1,2-DICHLOROBENZENE  | 0.0391   | 225    | 49     |
| 28.603   | 28.597   | N-BUTYLBENZENE       | 0.0631   | 466    | 72     |
| 30.099   | 30.094   | SURR-1B4CB-P         | 26.5958  | 138416 | 36707  |
| 32.561   | 32.553   | 1,2,4-TRICHLOROBENZE | 0.0871   | 348    | 47     |
| 33.310   | 33.299   | NAPHTHALENE          | 0.0579   | 206    | 37     |
| 33.525   | 33.517   | HEXACHLOROBUTADIENE  | 0.1200   | 225    | 39     |
| 33.955   | 33.943   | 1,2,3-TRICHLOROBENZE | 0.0738   | 148    | 33     |

XYLENES (Total): 0.0350

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 88.6528%

Chrom Perfect version 6.07

Reported on 01-02-2002at 02:48:55

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: BLK1810

Batch: 01365A188400,840

Raw file: C:\CP\DATA1\18365B.43R

Reviewed by: RB

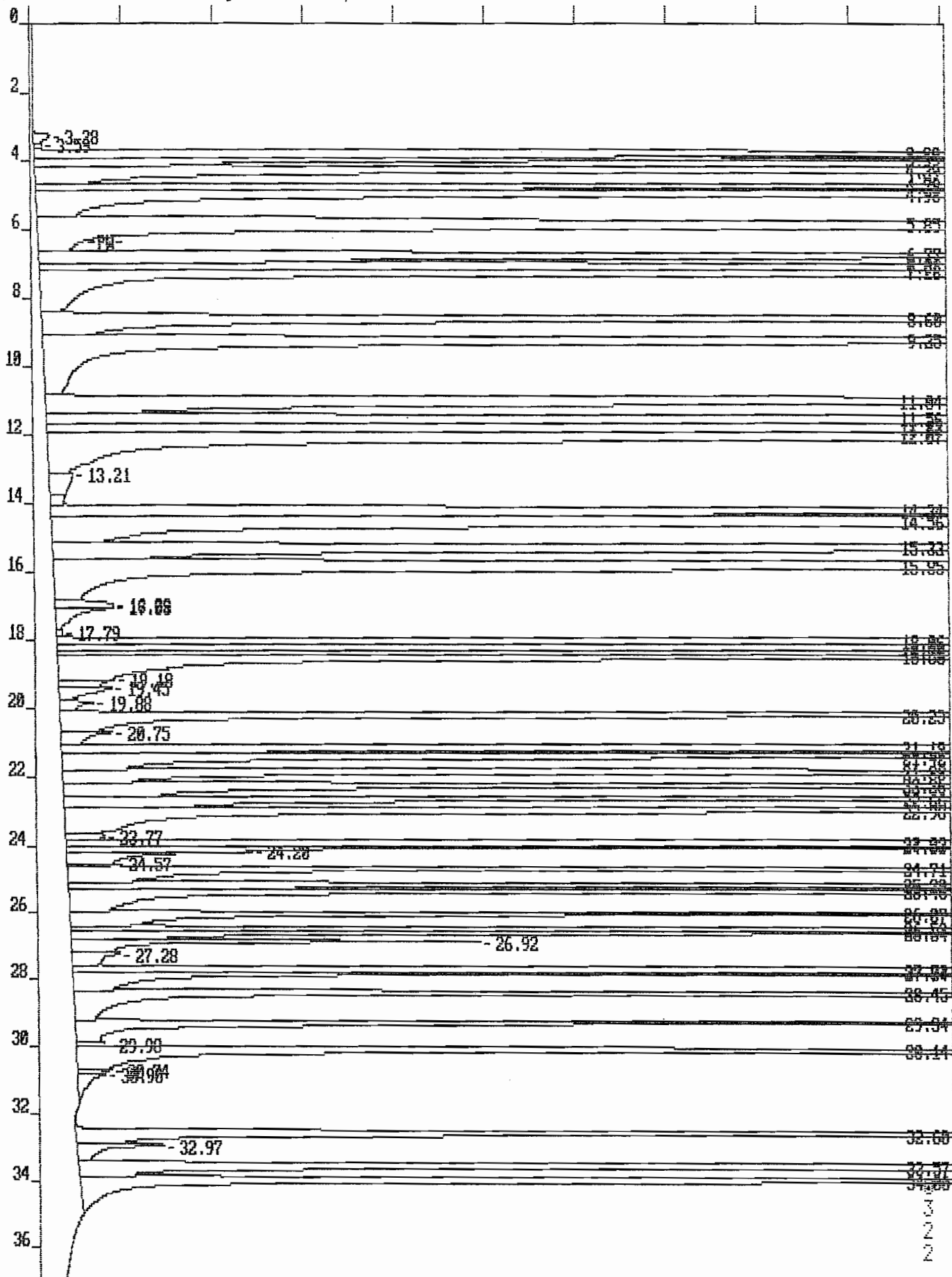
Verified by: mm48

Date: 1-2-02

Date: 01/02/02



File-C:\CP\DATA1\18365.22R Date printed=12-31-2001 Time= 17:54:11  
 Sample Name=3750934 MS 01365A181127,8404,8400,8401  
 0.0 to 37.0 min. Low Y=-0.011 High Y=14.989 mv Span=15.0



Sample Name: 3750934 MS  
 Batch: 01365A18 Date Taken: Dec 31, 2001 17:54:05  
 Raw File: C:\CP\DATA1\18365.22R  
 Area File: C:\CP\DATA1\18365.22A  
 Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115  
 Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 11):

| Ret Time | Expected | Amount *             | Peak    | Peak    |        |
|----------|----------|----------------------|---------|---------|--------|
| (min)    | RT (min) | (ug/L)               | Area    | Height  |        |
| 3.801    | 3.805    | DICHLORODIFLUOROMETH | 23.5254 | 286818  | 47622  |
| 3.986    | 3.985    | CHLOROMETHANE        | 14.1208 | 191215  | 31552  |
| 4.288    | 4.314    | VINYL CHLORIDE       | 18.7055 | 460285  | 66547  |
| 4.780    | 4.780    | BROMOMETHANE         | 18.2616 | 262344  | 49082  |
| 4.983    | 4.980    | CHLOROETHANE         | 18.4341 | 472574  | 78556  |
| 5.846    | 5.837    | TRICHLOROFLUOROMETHA | 18.8468 | 672996  | 48119  |
| 6.769    | 6.761    | 1,1-DICHLOROETHENE   | 21.5037 | 629318  | 99548  |
| 7.081    | 7.069    | METHYLENE CHLORIDE   | 18.6203 | 892312  | 154494 |
| 7.260    | 7.253    | TRICHLOROTRIFLUOROET | 19.9086 | 694336  | 72316  |
| 8.604    | 8.582    | TRANS-1,2-DICHLOROET | 16.3839 | 665851  | 102364 |
| 9.249    | 9.231    | 1,1-DICHLOROETHANE   | 20.4828 | 934585  | 109614 |
| 11.040   | 11.019   | CIS-1,2-DICHLOROETHE | 20.4350 | 870633  | 103414 |
| 11.561   | 11.537   | BROMOCHLOROMETHANE   | 20.8368 | 612400  | 75840  |
| 11.817   | 11.792   | CHLOROFORM           | 20.2342 | 1135217 | 123755 |
| 12.066   | 12.040   | 2,2-DICHLOROPROPANE  | 20.0123 | 826509  | 64995  |
| 14.244   | 14.223   | 1,2-DICHLOROETHANE   | 20.5323 | 782981  | 98213  |
| 14.562   | 14.542   | 1,1,1-TRICHLOROETHAN | 20.4521 | 1074802 | 101615 |
| 15.324   | 15.305   | 1,1-DICHLOROPROPENE  | 20.6616 | 767941  | 90832  |
| 15.847   | 15.828   | CARBON TETRACHLORIDE | 20.4759 | 1207296 | 124044 |
| 18.063   | 18.048   | DIBROMOMETHANE       | 21.1905 | 366125  | 62812  |
| 18.236   | 18.220   | 1,2-DICHLOROPROPANE  | 20.2685 | 749351  | 115506 |
| 18.392   | 18.377   | TRICHLOROETHENE      | 19.3781 | 908942  | 154894 |
| 18.500   | 18.485   | BROMODICHLOROMETHANE | 19.2547 | 869767  | 130324 |
| 19.880   | 19.872   | 2-CHLOROETHYL VINYL  | 0.2492  | 6538    | 574    |
| 20.231   | 20.220   | CIS-1,3-DICHLOROPROP | 19.3452 | 697708  | 139712 |
| 21.186   | 21.176   | TRANS-1,3-DICHLOROPR | 18.1564 | 554574  | 126230 |
| 21.416   | 21.406   | 1,1,2-TRICHLOROETHAN | 19.7485 | 784973  | 165765 |
| 21.878   | 21.869   | 1,3-DICHLOROPROPANE  | 19.9248 | 623060  | 139863 |
| 22.261   | 22.253   | DIBROMOCHLOROMETHANE | 20.9403 | 556081  | 122235 |
| 22.656   | 22.648   | 1,2-DIBROMOETHANE    | 21.1127 | 358156  | 79473  |
| 22.981   | 22.974   | TETRACHLOROETHENE    | 19.7549 | 957125  | 219548 |
| 23.930   | 23.925   | 1,1,1,2-TETRACHLOROE | 19.7679 | 866167  | 231332 |
| 24.028   | 24.022   | CHLOROBENZENE        | 19.4877 | 423868  | 107536 |
| 24.710   | 24.704   | BROMOFORM            | 21.9117 | 361736  | 81019  |
| 25.199   | 25.194   | 1,1,2,2-TETRACHLOROE | 21.0018 | 548246  | 136304 |
| 25.403   | 25.398   | 1,2,3-TRICHLOROPROPA | 21.1228 | 469369  | 107785 |
| 26.070   | 26.064   | BROMOBENZENE         | 20.8950 | 266104  | 59144  |
| 26.520   | 26.514   | 2-CHLOROTOLUENE      | 20.5905 | 313949  | 82106  |
| 26.639   | 26.633   | 4-CHLOROTOLUENE      | 20.0907 | 337631  | 81298  |
| 27.725   | 27.719   | 1,3-DICHLOROBENZENE  | 20.2702 | 463792  | 118712 |
| 27.840   | 27.833   | 1,4-DICHLOROBENZENE  | 19.5100 | 548903  | 121601 |
| 28.452   | 28.444   | 1,2-DICHLOROBENZENE  | 20.1583 | 524433  | 114052 |
| 29.338   | 29.330   | 1,2-DIBROMO-3-CHLORO | 23.7430 | 158389  | 26716  |
| 30.141   | 30.132   | SURR-1B4CB-H         | 31.2316 | 543913  | 107053 |
| 32.604   | 32.593   | 1,2,4-TRICHLOROBENZE | 20.4262 | 475415  | 82084  |
| 33.571   | 33.559   | HEXACHLOROBUTADIENE  | 19.9456 | 625537  | 94579  |
| 33.997   | 33.985   | 1,2,3-TRICHLOROBENZE | 21.0200 | 469315  | 71807  |

TOTAL 1,2-DICHLOROETHENE: 36.8188

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 104.1053%

Chrom Perfect version 6.07

Reported on 12-31-2001 at 17:55:00

Sample name: 3750934 MS  
Raw file: C:\CP\DATA1\18365.22R

Batch: 01365A181127,840

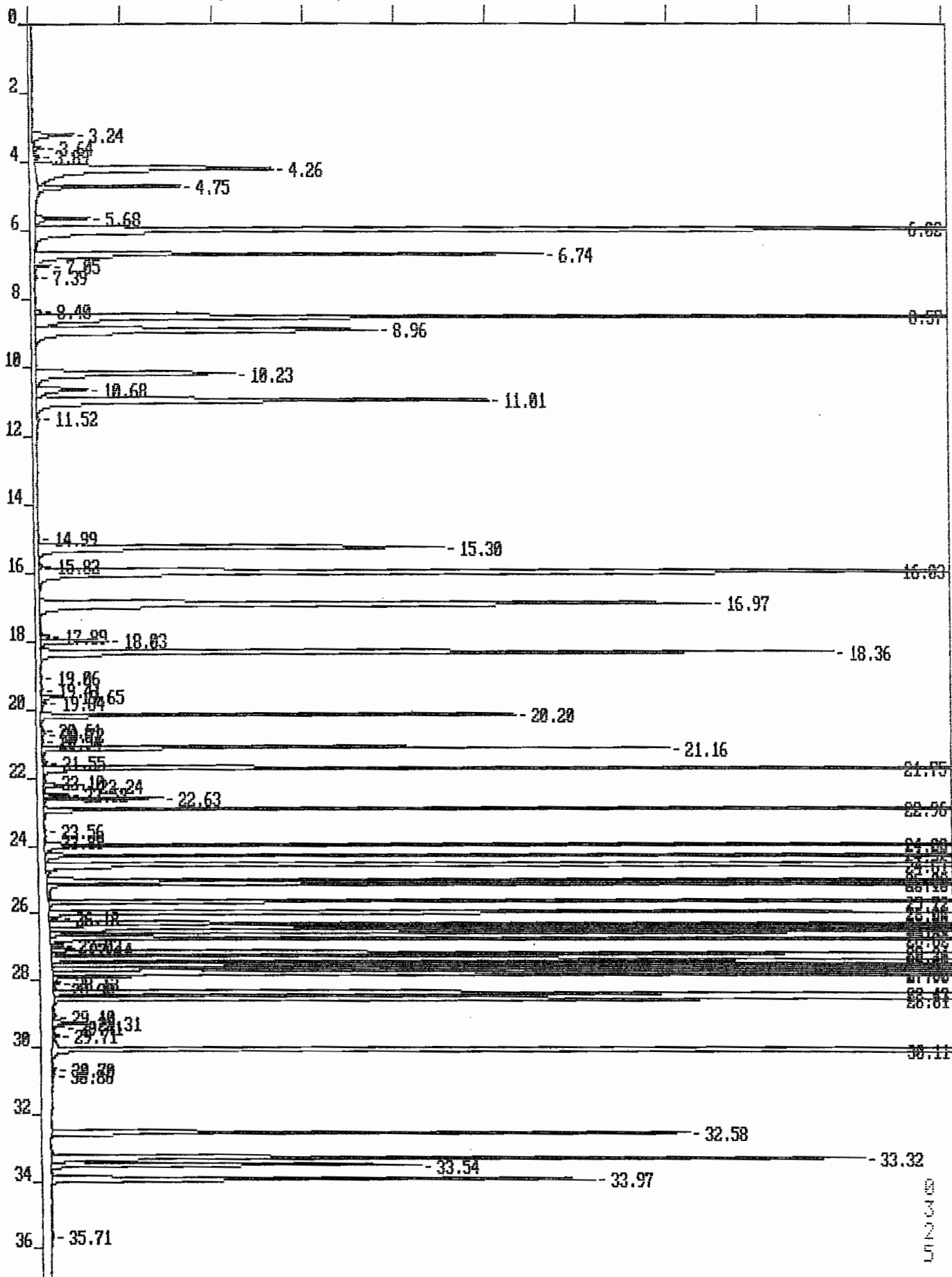
Reviewed by: SKP 688

Verified by: UMM49

Date: 12-31-01

Date: 01/02/02

File=C:\CP\DATA1\183658.22R Date printed=12-31-2001 Time= 17:55:12  
 Sample Name=3750934 MS 01365A181127,8404,8400,8401  
 0.0 to 37.0 min. Low Y=0.006 High Y=15.006 mv Span=15.0



Sample Name: 3750934 MS  
 Batch: 01365A18 Date Taken: Dec 31, 2001 17:54:05  
 Raw File: C:\CP\DATA1\18365B.22R  
 Area File: C:\CP\DATA1\18365B.22A  
 Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115  
 Threshold: -1 Calculation: INTERNALstd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 11):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.257    | 4.287    | VINYL CHLORIDE       | 11.0585  | 41966  | 3888   |
| 6.741    | 6.733    | 1,1-DICHLOROETHENE   | 20.8135  | 44138  | 8353   |
| 8.570    | 8.554    | TRANS-1,2-DICHLOROET | 19.3925  | 103511 | 18072  |
| 8.964    | 8.939    | METHYL T-BUTYL ETHER | 20.4200  | 49550  | 5610   |
| 11.011   | 10.989   | CIS-1,2-DICHLOROETHE | 19.6138  | 55293  | 7424   |
| 15.295   | 15.276   | 1,1-DICHLOROPROPENE  | 20.1250  | 49791  | 6679   |
| 16.031   | 16.012   | BENZENE              | 19.7084  | 116910 | 16158  |
| 16.968   | 16.948   | ISTD-FBENZENE        | 1.0000   | 83917  | 11057  |
| 18.364   | 18.349   | TRICHLOROETHENE      | 19.6281  | 68302  | 13031  |
| 19.844   | 19.845   | 2-CHLOROETHYL VINYL  | 0.1795   | 490    | 88     |
| 20.204   | 20.193   | CIS-1,3-DICHLOROPROP | 18.7278  | 29913  | 7827   |
| 21.161   | 21.151   | TRANS-1,3-DICHLOROPR | 17.1974  | 33968  | 10315  |
| 21.747   | 21.738   | TOLUENE              | 19.1277  | 106405 | 31762  |
| 22.956   | 22.948   | TETRACHLOROETHENE    | 19.5284  | 52458  | 17225  |
| 24.005   | 23.999   | CHLOROBENZENE        | 19.1749  | 111799 | 42978  |
| 24.320   | 24.314   | ETHYLBENZENE         | 19.4772  | 96647  | 35681  |
| 24.612   | 24.606   | M,P-XYLENE           | 38.9940  | 226500 | 71040  |
| 25.078   | 25.072   | STYRENE              | 19.2298  | 120737 | 44603  |
| 25.180   | 25.175   | O-XYLENE             | 19.7635  | 100713 | 35548  |
| 25.724   | 25.719   | ISOPROPYLBENZENE     | 20.3311  | 83483  | 28065  |
| 26.043   | 26.037   | BROMOBENZENE         | 19.2602  | 113840 | 39916  |
| 26.371   | 26.365   | N-PROPYLBENZENE      | 19.5833  | 91288  | 31391  |
| 26.495   | 26.488   | 2-CHLOROTOLUENE      | 19.6373  | 100375 | 34550  |
| 26.614   | 26.607   | 4-CHLOROTOLUENE      | 19.5045  | 102379 | 36287  |
| 26.818   | 26.812   | 1,3,5-TRIMETHYLBENZE | 19.3962  | 131039 | 43907  |
| 27.243   | 27.236   | TERT-BUTYLBENZENE    | 19.9104  | 78123  | 23794  |
| 27.425   | 27.418   | 1,2,4-TRIMETHYLBENZE | 19.7288  | 101629 | 33386  |
| 27.594   | 27.586   | SEC-BUTYLBENZENE     | 19.6485  | 79523  | 23980  |
| 27.700   | 27.693   | 1,3-DICHLOROBENZENE  | 19.4137  | 99117  | 32222  |
| 27.815   | 27.808   | 1,4-DICHLOROBENZENE  | 19.2057  | 98858  | 32027  |
| 27.900   | 27.894   | P-ISOPROPYLTOLUENE   | 20.4419  | 78956  | 24507  |
| 28.426   | 28.418   | 1,2-DICHLOROBENZENE  | 19.1452  | 78516  | 23866  |
| 28.614   | 28.606   | N-BUTYLBENZENE       | 19.7708  | 76626  | 22407  |
| 30.113   | 30.104   | SURR-1B4CB-P         | 29.1294  | 151766 | 40061  |
| 32.576   | 32.565   | 1,2,4-TRICHLOROBENZE | 19.4121  | 49820  | 10513  |
| 33.324   | 33.312   | NAPHTHALENE          | 21.0970  | 66065  | 13383  |
| 33.541   | 33.530   | HEXACHLOROBUTADIENE  | 19.0251  | 34431  | 6093   |
| 33.968   | 33.955   | 1,2,3-TRICHLOROBENZE | 20.0229  | 47368  | 8972   |

XYLENES (Total): 58.7575

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 97.0980%

Chrom Perfect version 6.07

Reported on 12-31-2001 at 17:56:34

Internal Standard Calculations From ISTDCHK v. 950609.1130

Istd height for ISTD-FBENZENE is within range.

Istd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: 3750934 MS  
Raw file: C:\CP\DATA1\18365B.22R

Batch: 01365A181127,840

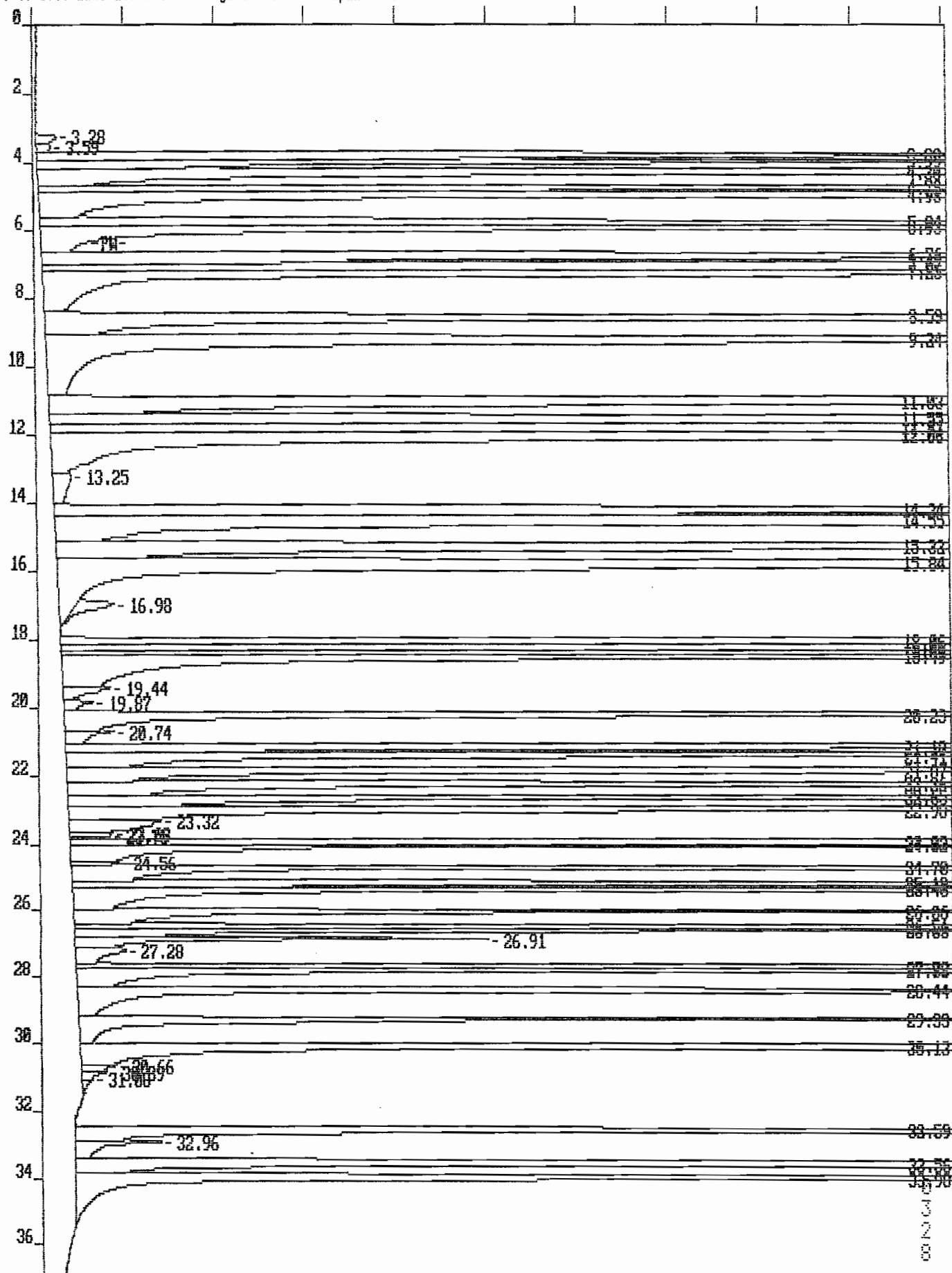
Reviewed by: SKR088

Verified by: WMM49

Date: 12-31-01

Date: 01/02/02

File=C:\CP\DATA1\18365.23R Date printed=12-31-2001 Time= 18:37:23  
Sample Name=3750935 MSD 01365A181127,8404,8400,8401  
0.0 to 37.0 min. Low Y=0.041 High Y=15.041 mv Span=15.0



Sample Name: 3750935 MSD

Batch: 01365A18

Date Taken: Dec 31, 2001 18:37:18

Raw File: C:\CP\DATA1\18365.23R

Area File: C:\CP\DATA1\18365.23A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A

Run Time: 37

75m x 0.45mm ID J&amp;W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 11):

| Ret Time                  | Expected | Amount *             | Peak    | Peak    |        |
|---------------------------|----------|----------------------|---------|---------|--------|
| (min)                     | RT (min) | (ug/L)               | Area    | Height  |        |
| 3.802                     | 3.805    | DICHLORODIFLUOROMETH | 21.3009 | 243822  | 43119  |
| 3.995                     | 3.985    | CHLOROMETHANE        | 12.7281 | 185017  | 28440  |
| 4.304                     | 4.314    | VINYL CHLORIDE       | 16.9774 | 469587  | 60399  |
| 4.780                     | 4.780    | BROMOMETHANE         | 18.0464 | 265242  | 48504  |
| 4.981                     | 4.980    | CHLOROETHANE         | 18.4167 | 475591  | 78482  |
| 5.837                     | 5.837    | TRICHLOROFLUOROMETHA | 16.3862 | 275362  | 41837  |
| 6.764                     | 6.761    | 1,1-DICHLOROETHENE   | 20.7296 | 630734  | 95965  |
| 7.074                     | 7.069    | METHYLENE CHLORIDE   | 18.2989 | 904343  | 151827 |
| 7.253                     | 7.253    | TRICHLOROTRIFLUOROET | 19.3824 | 689781  | 70404  |
| 8.593                     | 8.582    | TRANS-1,2-DICHLOROET | 16.4866 | 668993  | 103006 |
| 9.239                     | 9.231    | 1,1-DICHLOROETHANE   | 20.6815 | 944436  | 110677 |
| 11.032                    | 11.019   | CIS-1,2-DICHLOROETHE | 20.5366 | 875800  | 103928 |
| 11.552                    | 11.537   | BROMOCHLOROMETHANE   | 20.7465 | 609562  | 75511  |
| 11.809                    | 11.792   | CHLOROFORM           | 20.1197 | 1136474 | 123054 |
| 12.055                    | 12.040   | 2,2-DICHLOROPROPANE  | 19.6268 | 801329  | 63743  |
| 14.238                    | 14.223   | 1,2-DICHLOROETHANE   | 20.5279 | 781983  | 98192  |
| 14.554                    | 14.542   | 1,1,1-TRICHLOROETHAN | 20.1824 | 1061268 | 100275 |
| 15.318                    | 15.305   | 1,1-DICHLOROPROPENE  | 20.5590 | 762045  | 90381  |
| 15.840                    | 15.828   | CARBON TETRACHLORIDE | 20.4312 | 1209591 | 123773 |
| 18.057                    | 18.048   | DIBROMOMETHANE       | 21.2359 | 366336  | 62947  |
| 18.229                    | 18.220   | 1,2-DICHLOROPROPANE  | 20.4733 | 754714  | 116673 |
| 18.385                    | 18.377   | TRICHLOROETHENE      | 19.5627 | 919233  | 156369 |
| 18.493                    | 18.485   | BROMODICHLOROMETHANE | 19.3935 | 880056  | 131263 |
| 19.872                    | 19.872   | 2-CHLOROETHYL VINYL  | 0.2199  | 5658    | 506    |
| 20.225                    | 20.220   | CIS-1,3-DICHLOROPROP | 19.6395 | 705263  | 141837 |
| 21.181                    | 21.176   | TRANS-1,3-DICHLOROPR | 18.2197 | 556202  | 126670 |
| 21.410                    | 21.406   | 1,1,2-TRICHLOROETHAN | 19.8761 | 790636  | 166837 |
| 21.872                    | 21.869   | 1,3-DICHLOROPROPANE  | 20.2629 | 631320  | 142236 |
| 22.256                    | 22.253   | DIBROMOCHLOROMETHANE | 21.2409 | 560356  | 123990 |
| 22.650                    | 22.648   | 1,2-DIBROMOETHANE    | 21.3663 | 357944  | 80427  |
| 22.975                    | 22.974   | TETRACHLOROETHENE    | 20.0488 | 945578  | 222814 |
| 23.925                    | 23.925   | 1,1,1,2-TETRACHLOROE | 20.1236 | 887246  | 235494 |
| 24.023                    | 24.022   | CHLOROBENZENE        | 19.8932 | 456274  | 109773 |
| 24.705                    | 24.704   | BROMOFORM            | 22.2916 | 361683  | 82423  |
| 25.194                    | 25.194   | 1,1,2,2-TETRACHLOROE | 21.5341 | 559318  | 139759 |
| 25.398                    | 25.398   | 1,2,3-TRICHLOROPROPA | 21.4994 | 479357  | 109707 |
| 26.064                    | 26.064   | BROMOBENZENE         | 21.4416 | 268187  | 60691  |
| 26.514                    | 26.514   | 2-CHLOROTOLUENE      | 20.8468 | 317284  | 83128  |
| 26.633                    | 26.633   | 4-CHLOROTOLUENE      | 20.4043 | 342742  | 82567  |
| 27.719                    | 27.719   | 1,3-DICHLOROBENZENE  | 20.5611 | 469821  | 120416 |
| 27.833                    | 27.833   | 1,4-DICHLOROBENZENE  | 19.7673 | 553538  | 123205 |
| 28.445                    | 28.444   | 1,2-DICHLOROBENZENE  | 20.3665 | 526063  | 115230 |
| 29.330                    | 29.330   | 1,2-DIBROMO-3-CHLORO | 23.8726 | 158680  | 26862  |
| 30.131                    | 30.132   | SURR-1B4CB-H         | 30.6533 | 530956  | 105070 |
| 32.593                    | 32.593   | 1,2,4-TRICHLOROBENZE | 20.5138 | 474211  | 82436  |
| 33.558                    | 33.559   | HEXACHLOROBUTADIENE  | 20.2754 | 636951  | 96143  |
| 33.985                    | 33.985   | 1,2,3-TRICHLOROBENZE | 21.0955 | 477185  | 72065  |
| TOTAL 1,2-DICHLOROETHENE: |          | 37.0232              |         |         |        |

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 102.1777%

Chrom Perfect version 6.07

Reported on 12-31-2001 at 18:38:13



Sample name: 3750935 MSD  
Raw file: C:\CP\DATA1\18365.23R

Batch: 01365A181127,840

Reviewed by: JSK

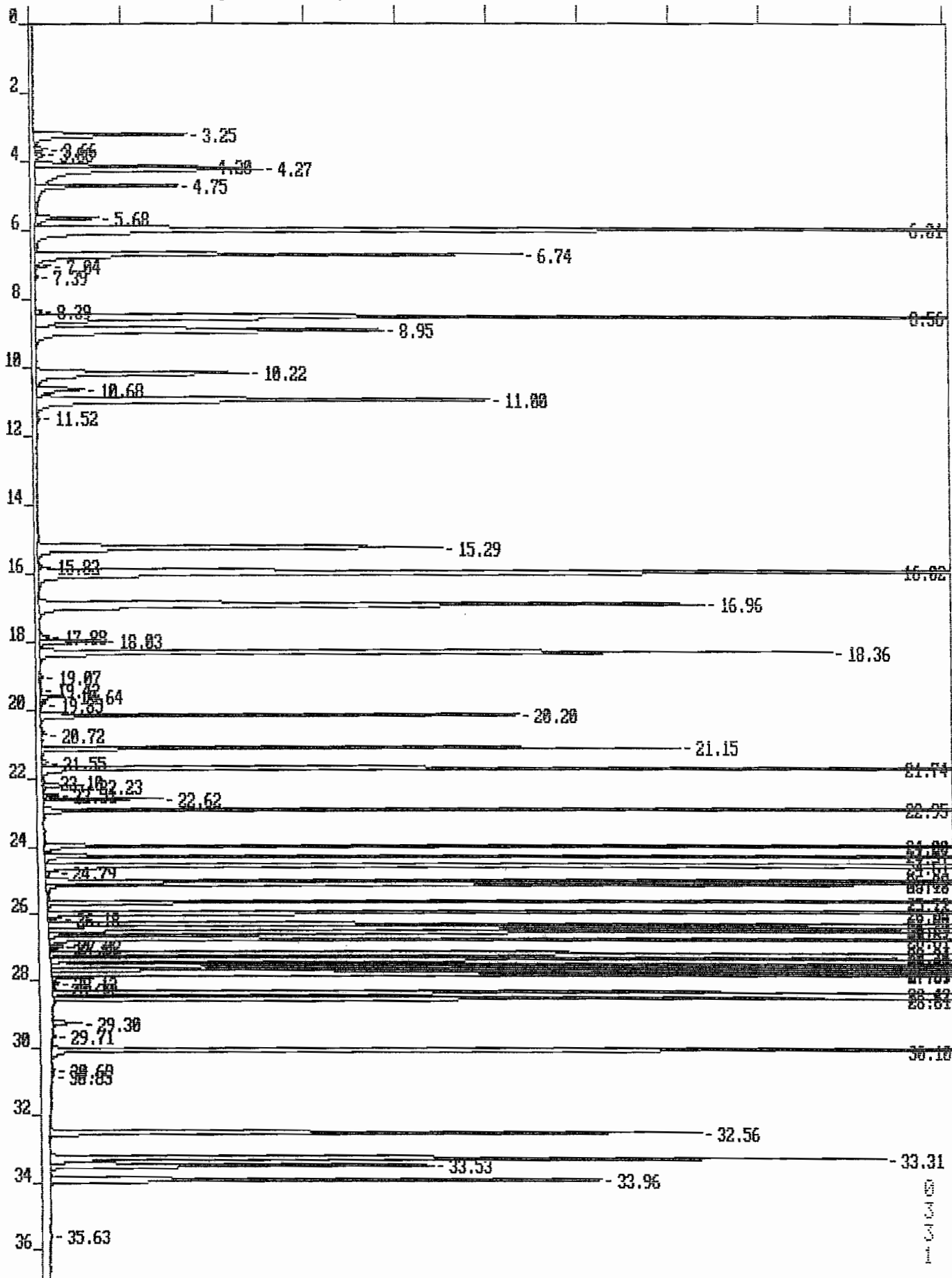
Verified by: MM48

VM

Date: 1-2-02

Date: 01/02/02

File=C:\CP\DATA1\183658.23R Date printed=12-31-2001 Time= 18:38:24  
Sample Name=3750935 MSD 01365A181127,8404,8400,8401  
0.0 to 37.0 min. Low Y=0.019 High Y=15.019 mv Span=15.0



Sample Name: 3750935 MSD  
 Batch: 01365A18 Date Taken: Dec 31, 2001 18:37:18  
 Raw File: C:\CP\DATA1\18365B.23R  
 Area File: C:\CP\DATA1\18365B.23A  
 Method File: C:\CP\DATA1\18365B.MET(version 2 )  
 EPA Methods 502.2/601/8010B/8021A Run Time: 37  
 75m x 0.45mm ID J&W Scientific DB-VRX column  
 T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115  
 Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 11):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.273    | 4.287    | VINYL CHLORIDE       | 10.6821  | 31517  | 3713   |
| 6.736    | 6.733    | 1,1-DICHLOROETHENE   | 20.1328  | 44449  | 7989   |
| 8.559    | 8.554    | TRANS-1,2-DICHLOROET | 20.0160  | 105433 | 18443  |
| 8.951    | 8.939    | METHYL T-BUTYL ETHER | 20.9809  | 50355  | 5699   |
| 11.001   | 10.989   | CIS-1,2-DICHLOROETHE | 19.8442  | 55526  | 7427   |
| 15.289   | 15.276   | 1,1-DICHLOROPROPENE  | 20.2239  | 49510  | 6636   |
| 16.024   | 16.012   | BENZENE              | 19.9162  | 116211 | 16145  |
| 16.961   | 16.948   | ISTD-FBENZENE        | 1.0000   | 82419  | 10932  |
| 18.356   | 18.349   | TRICHLOROETHENE      | 19.7889  | 68076  | 12990  |
| 19.850   | 19.845   | 2-CHLOROETHYL VINYL  | 0.1897   | 561    | 92     |
| 20.198   | 20.193   | CIS-1,3-DICHLOROPROP | 19.0594  | 30137  | 7876   |
| 21.154   | 21.151   | TRANS-1,3-DICHLOROPR | 17.7021  | 34422  | 10498  |
| 21.741   | 21.738   | TOLUENE              | 19.7941  | 109158 | 32500  |
| 22.950   | 22.948   | TETRACHLOROETHENE    | 20.2147  | 53389  | 17630  |
| 24.000   | 23.999   | CHLOROBENZENE        | 19.9153  | 114009 | 44136  |
| 24.315   | 24.314   | ETHYLBENZENE         | 20.1272  | 98914  | 36457  |
| 24.607   | 24.606   | M,P-XYLENE           | 40.3805  | 230932 | 72739  |
| 25.073   | 25.072   | STYRENE              | 19.8661  | 122749 | 45561  |
| 25.175   | 25.175   | O-XYLENE             | 20.4415  | 102717 | 36354  |
| 25.719   | 25.719   | ISOPROPYLBENZENE     | 20.9971  | 85011  | 28659  |
| 26.037   | 26.037   | BROMOBENZENE         | 19.8526  | 115795 | 40681  |
| 26.365   | 26.365   | N-PROPYLBENZENE      | 20.2364  | 92906  | 32074  |
| 26.488   | 26.488   | 2-CHLOROTOLUENE      | 20.1807  | 102239 | 35108  |
| 26.608   | 26.607   | 4-CHLOROTOLUENE      | 19.9709  | 104218 | 36737  |
| 26.813   | 26.812   | 1,3,5-TRIMETHYLBENZE | 20.0767  | 133747 | 44937  |
| 27.236   | 27.236   | TERT-BUTYLBENZENE    | 20.4247  | 79076  | 24134  |
| 27.418   | 27.418   | 1,2,4-TRIMETHYLBENZE | 20.2481  | 102993 | 33880  |
| 27.587   | 27.586   | SEC-BUTYLBENZENE     | 20.0945  | 80344  | 24249  |
| 27.693   | 27.693   | 1,3-DICHLOROBENZENE  | 19.8920  | 100318 | 32645  |
| 27.808   | 27.808   | 1,4-DICHLOROBENZENE  | 19.8194  | 100776 | 32679  |
| 27.894   | 27.894   | P-ISOPROPYLTOLUENE   | 21.0944  | 79889  | 25005  |
| 28.418   | 28.418   | 1,2-DICHLOROBENZENE  | 19.5533  | 79124  | 24101  |
| 28.606   | 28.606   | N-BUTYLBENZENE       | 20.3156  | 77348  | 22766  |
| 30.104   | 30.104   | SURR-1B4CB-P         | 29.8077  | 151162 | 40533  |
| 32.564   | 32.565   | 1,2,4-TRICHLOROBENZE | 20.0087  | 50814  | 10715  |
| 33.312   | 33.312   | NAPHTHALENE          | 21.8948  | 67385  | 13733  |
| 33.528   | 33.530   | HEXACHLOROBUTADIENE  | 19.9142  | 35667  | 6306   |
| 33.956   | 33.955   | 1,2,3-TRICHLOROBENZE | 20.4787  | 48003  | 9073   |

XYLENES (Total): 60.8220

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 99.3591%

Chrom Perfect version 6.07

Reported on 12-31-2001at 18:39:49

Internal Standard Calculations From ISTDCHK v. 950609.1130

ISTd height for ISTD-FBENZENE is within range.

ISTd range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: 3750935 MSD  
Raw file: C:\CP\DATA1\18365B.23R

Batch: 01365A181127,840

Reviewed by: JBK

Verified by: mmk

VM

Date: 1-2-02

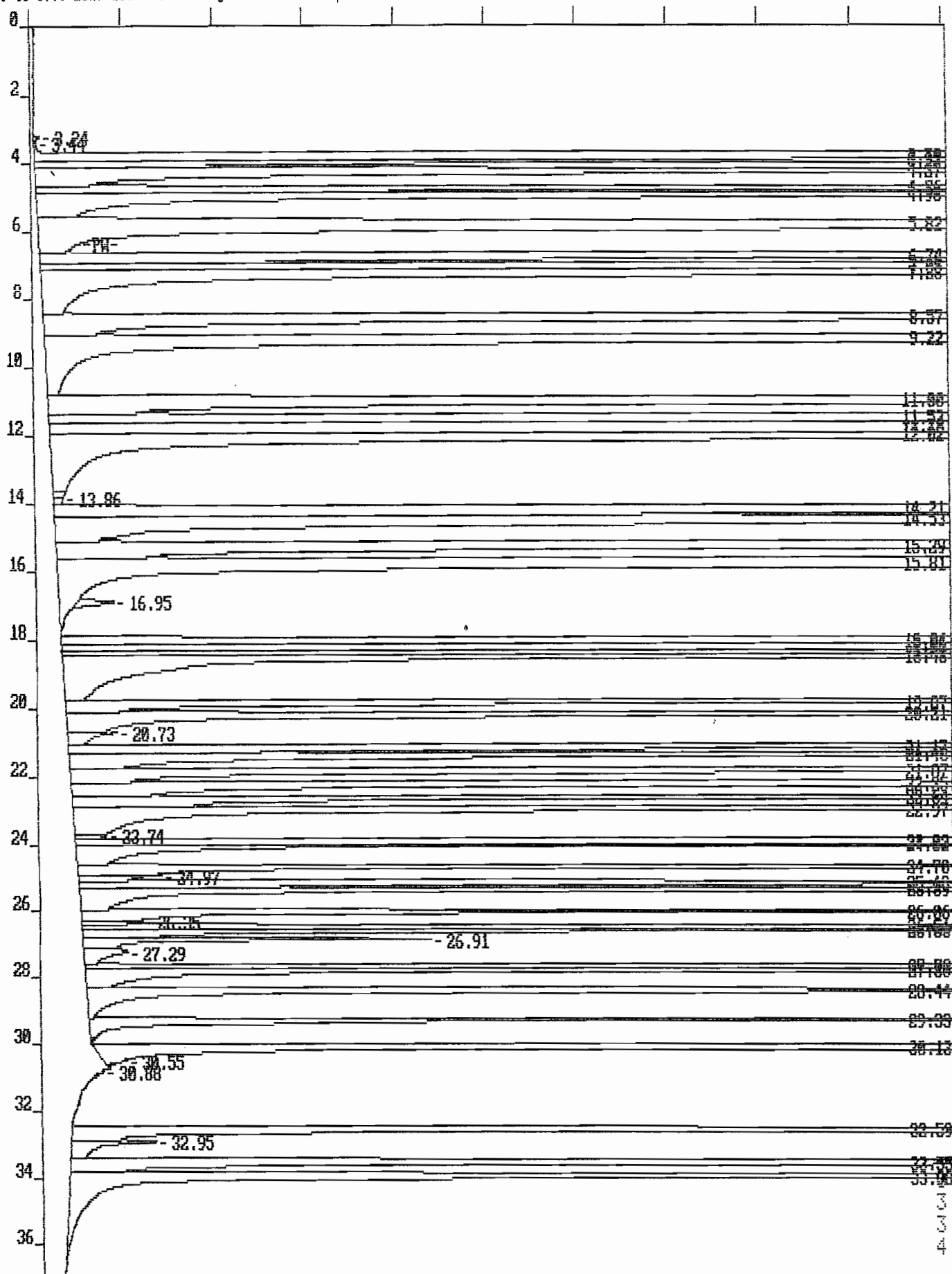
Date: 01/02/02

File=C:\CP\DATA1\18365.24R Date printed=12-31-2001 Time= 19:20:27

Sample Name=LCS1802

01365A188400,8401

0.0 to 37.0 min. Low Y=0.054 High Y=15.054 mv Span=15.0



Sample Name: LCS1802

Batch: 01365A18

Date Taken: Dec 31, 2001 19:20:22

Raw File: C:\CP\DATA1\18365.24R

Area File: C:\CP\DATA1\18365.24A

Method File: C:\CP\DATA1\18365.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18HALL

Peak Width: .05 Dil. Factor: 1 Analyst: 115

Threshold: -3 Calculation: EXTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\H18365.CAL(version 11):

| Ret Time | Expected |                      | Amount * | Peak    | Peak   |
|----------|----------|----------------------|----------|---------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area    | Height |
| 3.789    | 3.805    | DICHLORODIFLUOROMETH | 21.1667  | 286066  | 42847  |
| 3.966    | 3.985    | CHLOROMETHANE        | 16.3257  | 217231  | 36478  |
| 4.268    | 4.314    | VINYL CHLORIDE       | 17.5571  | 424391  | 62461  |
| 4.758    | 4.780    | BROMOMETHANE         | 17.3452  | 249905  | 46619  |
| 4.960    | 4.980    | CHLOROETHANE         | 17.4081  | 453322  | 74183  |
| 5.821    | 5.837    | TRICHLOROFLUOROMETHA | 16.7601  | 613821  | 42791  |
| 6.743    | 6.761    | 1,1-DICHLOROETHENE   | 19.8017  | 587638  | 91669  |
| 7.054    | 7.069    | METHYLENE CHLORIDE   | 17.7311  | 854443  | 147116 |
| 7.233    | 7.253    | TRICHLOROTRIFLUOROET | 18.4122  | 683506  | 66880  |
| 8.566    | 8.582    | TRANS-1,2-DICHLOROET | 19.5496  | 844936  | 122143 |
| 9.215    | 9.231    | 1,1-DICHLOROETHANE   | 19.5998  | 891192  | 104888 |
| 11.003   | 11.019   | CIS-1,2-DICHLOROETHE | 19.7395  | 840586  | 99894  |
| 11.521   | 11.537   | BROMOCHLOROMETHANE   | 20.0516  | 589364  | 72982  |
| 11.778   | 11.792   | CHLOROFORM           | 19.3807  | 1089741 | 118534 |
| 12.024   | 12.040   | 2,2-DICHLOROPROPANE  | 18.5800  | 782460  | 60343  |
| 14.208   | 14.223   | 1,2-DICHLOROETHANE   | 19.8637  | 760216  | 95015  |
| 14.526   | 14.542   | 1,1,1-TRICHLOROETHAN | 19.1421  | 1009991 | 95107  |
| 15.290   | 15.305   | 1,1-DICHLOROPROPENE  | 19.3751  | 721656  | 85177  |
| 15.813   | 15.828   | CARBON TETRACHLORIDE | 19.1036  | 1138020 | 115731 |
| 18.038   | 18.048   | DIBROMOMETHANE       | 20.2278  | 351729  | 59959  |
| 18.212   | 18.220   | 1,2-DICHLOROPROPANE  | 19.4800  | 725147  | 111012 |
| 18.368   | 18.377   | TRICHLOROETHENE      | 18.5407  | 873239  | 148200 |
| 18.477   | 18.485   | BROMODICHLOROMETHANE | 18.6641  | 868389  | 126326 |
| 19.866   | 19.872   | 2-CHLOROETHYL VINYL  | 20.9121  | 254490  | 48133  |
| 20.214   | 20.220   | CIS-1,3-DICHLOROPROP | 19.0372  | 694136  | 137487 |
| 21.172   | 21.176   | TRANS-1,3-DICHLOROPR | 17.6260  | 538634  | 122542 |
| 21.402   | 21.406   | 1,1,2-TRICHLOROETHAN | 19.0346  | 759633  | 159773 |
| 21.865   | 21.869   | 1,3-DICHLOROPROPANE  | 19.2752  | 604469  | 135302 |
| 22.249   | 22.253   | DIBROMOCHLOROMETHANE | 20.2657  | 536893  | 118297 |
| 22.644   | 22.648   | 1,2-DIBROMOETHANE    | 20.3357  | 345131  | 76548  |
| 22.970   | 22.974   | TETRACHLOROETHENE    | 18.9748  | 917618  | 210878 |
| 23.921   | 23.925   | 1,1,1,2-TETRACHLOROE | 19.3089  | 844827  | 225960 |
| 24.019   | 24.022   | CHLOROBENZENE        | 19.0479  | 443065  | 105109 |
| 24.701   | 24.704   | BROMOFORM            | 21.0072  | 333350  | 77674  |
| 25.191   | 25.194   | 1,1,2,2-TETRACHLOROE | 19.7208  | 512363  | 127990 |
| 25.395   | 25.398   | 1,2,3-TRICHLOROPROPA | 19.8154  | 435937  | 101114 |
| 26.061   | 26.064   | BROMOBENZENE         | 20.4890  | 249570  | 57994  |
| 26.511   | 26.514   | 2-CHLOROTOLUENE      | 19.7993  | 300292  | 78951  |
| 26.630   | 26.633   | 4-CHLOROTOLUENE      | 19.4852  | 326506  | 78848  |
| 27.716   | 27.719   | 1,3-DICHLOROBENZENE  | 19.8372  | 451170  | 116177 |
| 27.831   | 27.833   | 1,4-DICHLOROBENZENE  | 19.4665  | 537386  | 121330 |
| 28.443   | 28.444   | 1,2-DICHLOROBENZENE  | 19.6157  | 498155  | 110982 |
| 29.329   | 29.330   | 1,2-DIBROMO-3-CHLORO | 21.0633  | 133760  | 23700  |
| 30.131   | 30.132   | SURR-1B4CB-H         | 29.4059  | 497751  | 100795 |
| 32.590   | 32.593   | 1,2,4-TRICHLOROBENZE | 20.0405  | 462367  | 80534  |
| 33.554   | 33.559   | HEXACHLOROBUTADIENE  | 19.5593  | 613935  | 92747  |
| 33.979   | 33.985   | 1,2,3-TRICHLOROBENZE | 20.1820  | 468133  | 68944  |

TOTAL 1,2-DICHLOROETHENE: 39.2891

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 98.0195%

Chrom Perfect version 6.07

Reported on 12-31-2001at 19:21:17

Sample name: LCS1802

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365.24R

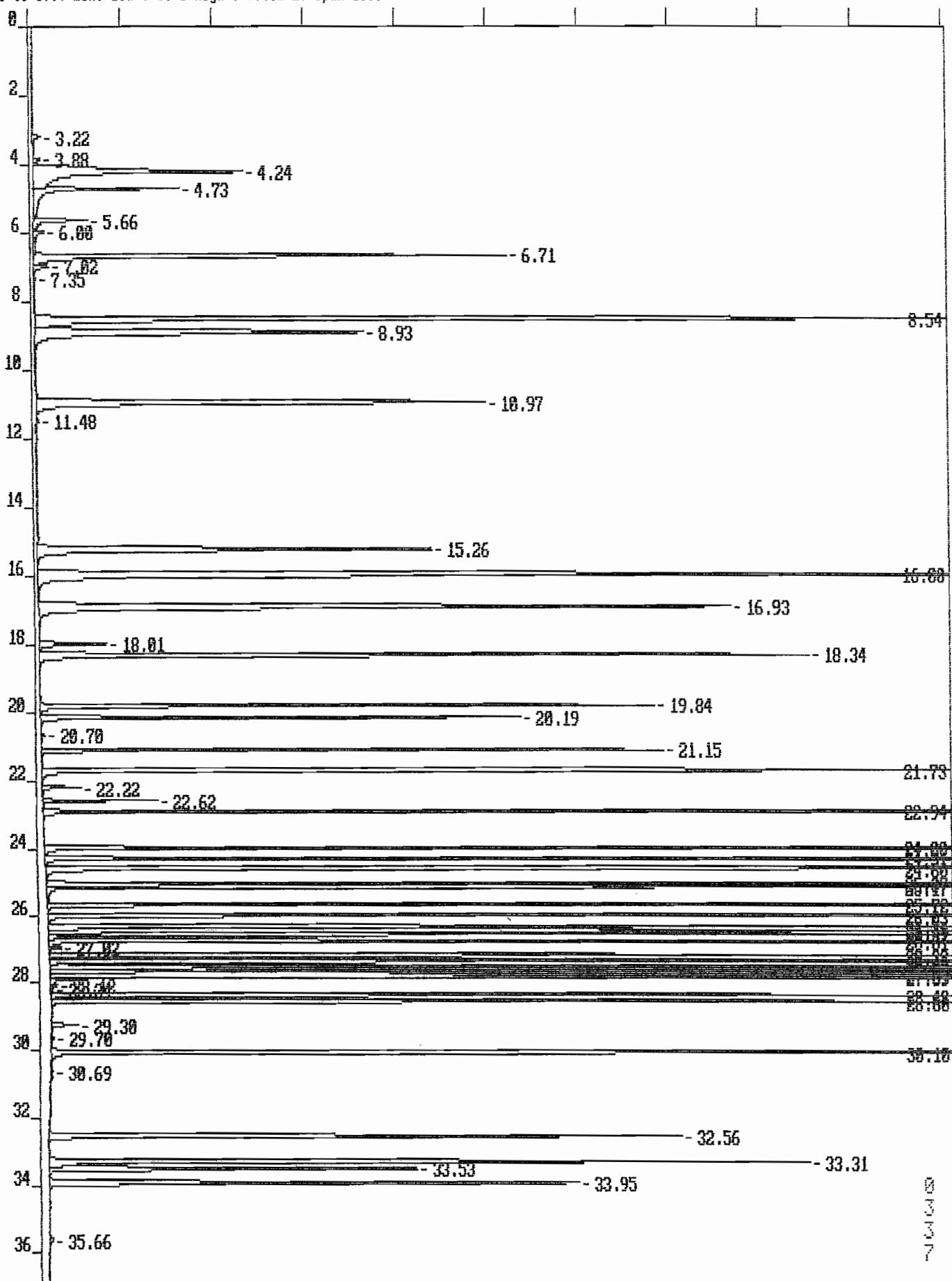
Reviewed by: SKP 688

Verified by: VMM 49

Date: 12-31-01

Date: 01/02/02

0.0 to 37.0 min. Low Y=0.01 High Y=15.01 mv Span=15.0





Sample Name: LCS1802

Batch: 01365A18

Date Taken: Dec 31, 2001 19:20:22

Raw File: C:\CP\DATA1\18365B.24R

Area File: C:\CP\DATA1\18365B.24A

Method File: C:\CP\DATA1\18365B.MET(version 2 )

EPA Methods 502.2/601/8010B/8021A Run Time: 37

75m x 0.45mm ID J&W Scientific DB-VRX column

T/SG/C trap Inst. ID#05843 - 5890#18PID

Peak width: .04 Dil. factor: 1 Analyst: 115

Threshold: -1 Calculation: INTERNALStd using peak heights

Peak table using calibration C:\CP\DATA1\P18365.CAL(version 11):

| Ret Time | Expected |                      | Amount * | Peak   | Peak   |
|----------|----------|----------------------|----------|--------|--------|
| (min)    | RT (min) | Peak Name            | (ug/L)   | Area   | Height |
| 4.240    | 4.287    | VINYL CHLORIDE       | 9.4731   | 36271  | 3426   |
| 6.715    | 6.733    | 1,1-DICHLOROETHENE   | 18.7873  | 41579  | 7756   |
| 8.537    | 8.554    | TRANS-1,2-DICHLOROET | 18.7415  | 102434 | 17965  |
| 8.931    | 8.939    | METHYL T-BUTYL ETHER | 19.0082  | 47594  | 5372   |
| 10.973   | 10.989   | CIS-1,2-DICHLOROETHE | 18.9489  | 54398  | 7378   |
| 15.260   | 15.276   | 1,1-DICHLOROPROPENE  | 18.9369  | 48026  | 6464   |
| 15.998   | 16.012   | BENZENE              | 19.0075  | 115954 | 16030  |
| 16.935   | 16.948   | ISTD-FBENZENE        | 1.0000   | 85653  | 11373  |
| 18.340   | 18.349   | TRICHLOROETHENE      | 18.4812  | 65722  | 12621  |
| 19.838   | 19.845   | 2-CHLOROETHYL VINYL  | 19.9422  | 40858  | 10112  |
| 20.187   | 20.193   | CIS-1,3-DICHLOROPROP | 18.3309  | 30169  | 7880   |
| 21.146   | 21.151   | TRANS-1,3-DICHLOROPR | 16.5694  | 33937  | 10222  |
| 21.734   | 21.738   | TOLUENE              | 18.4684  | 106074 | 31545  |
| 22.944   | 22.948   | TETRACHLOROETHENE    | 18.4000  | 50791  | 16694  |
| 23.996   | 23.999   | CHLOROBENZENE        | 18.5091  | 110669 | 42673  |
| 24.311   | 24.314   | ETHYLBENZENE         | 18.5446  | 94632  | 34944  |
| 24.603   | 24.606   | M,P-XYLENE           | 37.2170  | 221947 | 69743  |
| 25.070   | 25.072   | STYRENE              | 18.6229  | 119279 | 44431  |
| 25.172   | 25.175   | O-XYLENE             | 18.9241  | 98810  | 35012  |
| 25.716   | 25.719   | ISOPROPYLBENZENE     | 19.0532  | 80730  | 27054  |
| 26.034   | 26.037   | BROMOBENZENE         | 18.4524  | 112585 | 39336  |
| 26.362   | 26.365   | N-PROPYLBENZENE      | 18.4704  | 87808  | 30454  |
| 26.486   | 26.488   | 2-CHLOROTOLUENE      | 18.6408  | 97812  | 33736  |
| 26.605   | 26.607   | 4-CHLOROTOLUENE      | 18.5187  | 100314 | 35439  |
| 26.810   | 26.812   | 1,3,5-TRIMETHYLBENZE | 18.5585  | 128508 | 43213  |
| 27.234   | 27.236   | TERT-BUTYLBENZENE    | 18.6235  | 75250  | 22893  |
| 27.416   | 27.418   | 1,2,4-TRIMETHYLBENZE | 18.7538  | 99089  | 32644  |
| 27.584   | 27.586   | SEC-BUTYLBENZENE     | 18.3445  | 76174  | 23029  |
| 27.690   | 27.693   | 1,3-DICHLOROBENZENE  | 18.5316  | 97472  | 31638  |
| 27.806   | 27.808   | 1,4-DICHLOROBENZENE  | 18.4241  | 96994  | 31603  |
| 27.891   | 27.894   | P-ISOPROPYLTOLUENE   | 19.2337  | 76918  | 23719  |
| 28.417   | 28.418   | 1,2-DICHLOROBENZENE  | 18.2083  | 76843  | 23348  |
| 28.604   | 28.606   | N-BUTYLBENZENE       | 18.6353  | 74226  | 21724  |
| 30.103   | 30.104   | SURR-1B4CB-P         | 27.3321  | 144245 | 38665  |
| 32.560   | 32.565   | 1,2,4-TRICHLOROBENZE | 18.7001  | 49344  | 10417  |
| 33.307   | 33.312   | NAPHTHALENE          | 19.1771  | 61393  | 12513  |
| 33.525   | 33.530   | HEXACHLOROBUTADIENE  | 18.4043  | 34354  | 6063   |
| 33.950   | 33.955   | 1,2,3-TRICHLOROBENZE | 18.9145  | 46102  | 8717   |

XYLENES (Total): 56.1411

\* Amounts in ug/L for water samples, ug/kg for solid samples.

Surrogate Recovery: BrClBenzene 91.1071%

Chrom Perfect version 6.07

Reported on 12-31-2001at 19:22:54

Internal Standard Calculations From ISTDCHK v. 950609.1130

ISTD height for ISTD-FBENZENE is within range.

ISTD range: 8,624 - 12,937 ( 80% - 120% of midpoint 10,781)

Used initial calibration files to determine range.

Sample name: LCS1802

Batch: 01365A188400,840

Raw file:

C:\CP\DATA1\18365B.24R

Reviewed by: SKPL088

Verified by: mmys

Date: 12-31-01

Date: 01/00/00

Problems or comments are as follows:

\*  
\*  
\*

| Data file | SampleName | Batch#   | DF  | Analysis#s     | CL-CK | QCCode | Bottle | Upload | Verify | Comments    |
|-----------|------------|----------|-----|----------------|-------|--------|--------|--------|--------|-------------|
| 18365.01R | CBLK       | 01365A18 | 1.0 |                |       |        |        |        |        |             |
| 18365.02R | CBLK       | 01365A18 | 1.0 |                |       |        |        |        |        |             |
| 18365.03R | CALSTD1    | 01365A18 | 1.0 | 8400,8401,8464 |       | C1     |        |        |        | OK          |
| 18365.04R | CALSTD2    | 01365A18 | 1.0 | 8400,8401,8464 |       | C2     |        |        |        |             |
| 18365.05R | CALSTD3    | 01365A18 | 1.0 | 8400,8401,8464 |       | C3     |        |        |        |             |
| 18365.06R | CALSTD4    | 01365A18 | 1.0 | 8400,8401,8464 |       | C4     |        |        |        |             |
| 18365.07R | CALSTD5    | 01365A18 | 1.0 | 8400,8401,8464 |       | C5     |        |        |        |             |
| 18365.08R | CALSTD6    | 01365A18 | 1.0 | 8400,8401,8464 |       | C6     |        |        |        |             |
| 18365.09R | CALSTD7    | 01365A18 | 1.0 | 8400,8401,8464 |       | C7     |        |        |        |             |
| 18365.10R | CALSTD8    | 01365A18 | 1.0 | 8400,8401,8464 |       | C8     |        |        |        | PID only    |
| 18365.11R | CBLK       | 01365A18 | 1.0 |                |       |        |        |        |        |             |
| 18365.12R | CBLK       | 01365A18 | 1.0 |                |       |        |        |        |        |             |
| 18365.13R | CBLK       | 01365A18 | 1.0 |                |       |        |        |        |        |             |
| 18365.14R | CBLK       | 01365A18 | 1.0 |                |       |        |        |        |        |             |
| 18365.15R | SETUP      | 01365A18 | 1.0 |                |       |        |        |        |        |             |
| 18365.16R | CBLK       | 01365A18 | 1.0 |                |       |        |        |        |        |             |
| 18365.17R | CHKSTD     | 01365A18 | 1.0 | 8400,8401      |       |        |        |        | OK     | Arg In Spec |
| 18365.18R | CBLK       | 01365A18 | 1.0 |                |       |        |        |        |        |             |
| 18365.19R | BLK1808    | 01365A18 | 1.0 | 8400,8401      |       |        |        | 115    | 419    | OK          |
| 18365.20R | MDL        | 01365A18 | 1.0 |                |       | MDL    |        |        | OK     | OK          |
| 18365.21R | DLS1802    | 01365A18 | 1.0 |                |       |        |        |        |        |             |

Revised sequence  
SKP L088  
12-31-01

Problems or comments are as follows:

\*  
\*  
\*

| Data file            | SampleName         | Batch#              | DF             | Analysis#s           | CL-CK | QCCode | Bottle | Upload | Verify | Comments                |
|----------------------|--------------------|---------------------|----------------|----------------------|-------|--------|--------|--------|--------|-------------------------|
| 18365.21R            | 3749345            | 01365A18            | 1.0            | 1127,8404,8400,8401  | A     | BEM    | 52A    | 115    | 49     | OK                      |
| 18365.22R            | 3750934            | M 01365A18          | 1.0            | 1127,8404,8400,8401  | ↓     | MS     | 52B    | ↓      | ↓      | OK                      |
| 18365.23R            | 3750935            | M 01365A18          | 1.0            | 1127,8404,8400,8401  | ↓     | MSD    | 52B    | ↓      | ↓      | OK                      |
| 18365.24R            | LCS1802            | 01365A18            | 1.0            | 8400,8401            |       | LCS    |        | ↓      | ↓      | In Spec                 |
| 18365.25R            | CHKSTD             | 01365A18            | 1.0            | 8400,8401            |       |        |        |        | OK     | avg in spec             |
| 18365.26R            | CBLK               | 01365A18            | 1.0            |                      |       |        |        |        |        |                         |
| 18365.27R            | BLK1809            | 01365A18            | 1.0            | 8400,8401            |       |        |        |        | OK     | Mecl <sub>2</sub> > MDL |
| 18365.28R            | DLS1802            | 01365A18            | 1.0            |                      |       |        |        |        | OK     | OK                      |
| 18365.29R            | 3749357            | 01365A18            | 1.0            | 1127,8404            | A     |        | 52A    | 115    | 49     | Repeat OK 7-1-02        |
| 18365.30R            | 3749340            | 01365A18            | 1.0            | 1127,8404            | ↓     |        |        | ↓      | ↓      | OK                      |
| 18365.31R            | 3749341            | 01365A18            | 1.0            | 1127,8404            | ↓     |        |        | ↓      | ↓      |                         |
| 18365.32R            | 3749342            | 01365A18            | 1.0            | 1127,8404            | ↓     |        |        | ↓      | ↓      |                         |
| 18365.33R            | 3749343            | 01365A18            | 1.0            | 1127,8404            | ↓     |        |        | ↓      | ↓      |                         |
| 18365.34R            | 3749344            | 01365A18            | 1.0            | 1127,8404            | ↓     |        |        | ↓      | ↓      |                         |
| 18365.35R            | 3749346            | 01365A18            | 1.0            | 1127,8404            | ↓     |        |        | ↓      | ↓      |                         |
| 18365.36R            | 3749347            | 01365A18            | 1.0            | 1127,8404            | ↓     |        |        | ↓      | ↓      |                         |
| 18365.37R            | 3749348            | 01365A18            | 1.0            | 1127,8404            | ↓     |        |        | ↓      | ↓      |                         |
| 18365.38R            | 3749349            | 01365A18            | 1.0            | 1127,8404            | ↓     |        |        | ↓      | ↓      |                         |
| 18365.39R            | CHKSTD             | 01365A18            | 1.0            | 8400,8401            |       |        |        |        | OK     | Avg in spec             |
| <del>18365.40R</del> | <del>SETUP</del>   | <del>01365A18</del> | <del>1.0</del> | <del></del>          |       |        |        |        |        |                         |
| <del>18365.41R</del> | <del>CHKSTD</del>  | <del>01365A18</del> | <del>1.0</del> | <del>8400,8401</del> |       |        |        |        |        |                         |
| <del>18365.42R</del> | <del>CBLK</del>    | <del>01365A18</del> | <del>1.0</del> | <del></del>          |       |        |        |        |        |                         |
| <del>18365.43R</del> | <del>BLK1810</del> | <del>01365A18</del> | <del>1.0</del> | <del>8400,8401</del> |       |        |        |        |        |                         |
| <del>18365.44R</del> | <del>3749350</del> | <del>01365A18</del> | <del>1.0</del> | <del>1127,8404</del> |       |        | 52A    |        |        |                         |
| <del>18365.45R</del> | <del>3749351</del> | <del>01365A18</del> | <del>1.0</del> | <del>1127,8404</del> |       |        |        |        |        |                         |
| <del>18365.46R</del> | <del>3749352</del> | <del>01365A18</del> | <del>1.0</del> | <del>1127,8404</del> |       |        |        |        |        |                         |
| <del>18365.47R</del> | <del>3749353</del> | <del>01365A18</del> | <del>1.0</del> | <del>1127,8404</del> |       |        |        |        |        |                         |
| <del>18365.48R</del> | <del>3749354</del> | <del>01365A18</del> | <del>1.0</del> | <del>1127,8404</del> |       |        |        |        |        |                         |
| <del>18365.49R</del> | <del>3749355</del> | <del>01365A18</del> | <del>1.0</del> | <del>1127,8404</del> |       |        |        |        |        |                         |
| <del>18365.50R</del> | <del>3749356</del> | <del>01365A18</del> | <del>1.0</del> | <del>1127,8404</del> |       |        |        |        |        |                         |
| <del>18365.51R</del> | <del>CHKSTD</del>  | <del>01365A18</del> | <del>1.0</del> | <del>8400,8401</del> |       |        |        |        |        |                         |

⑧ Revised sequence.

→ 7-1-02  
⑧ 7-2-02

Problems or comments are as follows:

\*    
 \*   
 \*

| Data file | SampleName | Batch#   | DF   | Analysis#s | CL-CK | QCCode | Bottle | Upload | Verify | Comments           |
|-----------|------------|----------|------|------------|-------|--------|--------|--------|--------|--------------------|
| 18365.40R | SETUP      | 01365A18 | 1.0  |            |       |        |        |        |        |                    |
| 18365.41R | CHKSTD     | 01365A18 | 1.0  | 8400,8401  |       |        |        |        | OK     | Avg in spec        |
| 18365.42R | CBLK       | 01365A18 | 1.0  |            |       |        |        |        |        |                    |
| 18365.43R | BLK1810    | 01365A18 | 1.0  | 8400,8401  |       |        |        |        | OK     | OK                 |
| 18365.44R | 3749350    | 01365A18 | 1.0  | 1127,8404  | A     |        | 52A    | 115    | 419    | OK                 |
| 18365.45R | 3749351    | 01365A18 | 1.0  | 1127,8404  | ↓     |        | ↓      | ↓      | ↓      | OK                 |
| 18365.46R | 3749352    | 01365A18 | 1.0  | 1127,8404  | ↓     |        | ↓      | ↓      | ↓      | Take PCE from DF10 |
| 18365.47R | 3749353    | 01365A18 | 1.0  | 1127,8404  | ↓     |        | ↓      | ↓      | ↓      | OK                 |
| 18365.48R | 3749352    | 01365A18 | 10.0 | 1127,8404  | ↓     |        | 52B    | ↓      | ↓      | PCE only           |
| 18365.49R | 3749355    | 01365A18 | 1.0  | 1127,8404  |       |        | 52A    | 994    | ↓      | OK                 |
| 18365.50R | 3749356    | 01365A18 | 1.0  | 1127,8404  |       |        | 52A    | 994    | ↓      | OK                 |
| 18365.51R | 3749354    | 01365A18 | 10.0 | 1127,8404  | A     |        | 52B    | 994    | ↓      | OK                 |
| 18365.52R | CHKSTD     | 01365A18 | 1.0  | 8400,8401  |       |        |        |        | OK     | Avg (15)           |

# Metals Data

# **Case Narrative Conformance/Nonconformance Summary**



Where quality is a science.

## CASE NARRATIVE FOR INORGANICS

Laboratory Name: Lancaster Laboratories

SDG Number: HUL03

Date Received: 12/27/01

### Analysis:

Refer to the analysis run logs for samples requiring dilutions.

### Quality Control:

The recovery percentages of the matrix spike and matrix spike duplicate for iron was not used to validate the data because the sample result was greater than four times the respective amounts of spike added.

### Explanatory Notes:

The instrument detection limits (IDLs) are used for determining the U flags on the initial and continuing calibration blanks. The method detection limits (MDLs) are used for determining all other U flags.

The final concentration is obtained using the following calculation:

$$\text{final conc.} = \text{instrument reading} \times \frac{\text{final vol.} \times \text{dilution factor}}{\text{initial volume or weight}}$$

### Calibration Standards:

Instrument calibration standards are prepared monthly from stock solutions purchased from Spex Industries Inc., JT Baker, Aldrich Chemical, VWR Scientific, EM Science, High Purity, Ultra Scientific or VHG Laboratories.

Case Narrative reviewed and approved by:

Debra A. Bryan Date 1-15-02  
Debra A. Bryan, Senior Administrator  
Inorganic Data Packages

UNP-015



# QUALITY ASSURANCE SUMMARY

## COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Name: LANCASTER LABORATORIES

SDG No.: HUL03

### Client Sample ID.

AW-1L  
AW-2L  
AW-2U  
AW-3L  
AW-3U  
AWA1U  
AWA1UM  
AWA1US  
AWB1U  
FIELD  
MW-5L  
MW-5M  
MW-5U  
MW-8L  
MW-8M  
MW-8U  
MW-9L  
MW-9U  
MW10L  
MW10U

### Lab Sample ID.

3749347  
3749349  
3749348  
3749341  
3749340  
3749345  
3750935  
3750934  
3749346  
3749357  
3749356  
3749355  
3749354  
3749344  
3749343  
3749342  
3749351  
3749350  
3749353  
3749352

Were ICP interelement corrections applied ?

Yes/No YES

Were ICP background corrections applied ?

Yes/No YES

If yes - were raw data generated before application of background corrections ?

Yes/No NO

### LEGEND:=====

U = Below MDL B = Below LOQ  
FLAGS: (indicate matrix interference)  
N = Matrix Spike OOS  
\* = Duplicate OOS  
W = Method F Analytical Spike Recovery  
<85% or > 115% when the sample conc.  
is <50% of the spike conc.  
S = Analysis Determined by MSA  
+ = MSA Correlation Coefficient < 0.995  
E = Matrix Effects exist as proven by  
Serial Dilution or Spiked Dilution  
M = Duplicate Injection Precision not met  
Presence of FLAGS does not invalidate data

### METHODS:

A = Flame Atomic Absorption  
P = Inductively Coupled Plasma  
F = Graphite Furnace  
AS = Hydride Generation  
CV = Cold Vapor  
NR = Not Required

### TERMS:

MDL = Method Detection Limit  
LOQ = Limit Of Quantitation  
OOS = Out of Specification  
MSA = Method of Standard Addition

I certify that this data package is technically accurate and complete.  
Release of the data contained in this data package has been authorized by  
the Laboratory Manager or the Manager's designee, as verified by the  
following signature.

Signature: Debra A. Bryan

Name: Debra A. Bryan

Date: 1-15-02

Title: Senior Administrator  
Inorganic Data Packages

0040

# Sample Data

# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

AW-1L

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3749347

Date Received: 12/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 65900         |   |   | A |

Color Before:   
Color After:

Clarity Before:   
Clarity After:

Texture:   
Artifacts:

Comments:

# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

AW-2L

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3749349

Date Received: 12/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 174000        |   |   | A |

Color Before:   
Color After:

Clarity Before:   
Clarity After:

Texture:   
Artifacts:

Comments:

# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

AW-2U

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3749348

Date Received: 12/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 131000        |   |   | A |

Color Before:   
Color After:

Clarity Before:   
Clarity After:

Texture:   
Artifacts:

Comments:

# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

AW-3L

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3749341

Date Received: 12/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 125000        |   |   | A |

Color Before: \_\_\_\_\_  
Color After: \_\_\_\_\_

Clarity Before: \_\_\_\_\_  
Clarity After: \_\_\_\_\_

Texture: \_\_\_\_\_  
Artifacts: \_\_\_\_\_

Comments:

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# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

AW-3U

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3749340

Date Received: 12/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 127000        |   |   | A |

Color Before:   
Color After:

Clarity Before:   
Clarity After:

Texture:   
Artifacts:

Comments:

# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

AWA1U

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3749345

Date Received: 12/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 111000        |   |   | A |

Color Before:   
Color After:

Clarity Before:   
Clarity After:

Texture:   
Artifacts:

Comments:

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# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

AWA1US

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3750934

Date Received: 12/27/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 113000        |   |   | A |

Color Before:   
Color After:

Clarity Before:   
Clarity After:

Texture:   
Artifacts:

Comments:

# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

AWA1UM

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3750935

Date Received: 12/27/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 113000        |   |   | A |

Color Before:   
Color After:

Clarity Before:   
Clarity After:

Texture:   
Artifacts:

Comments:

# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

AWB1U

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3749346

Date Received: 12/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 176000        |   |   | A |

Color Before:   
Color After:

Clarity Before:   
Clarity After:

Texture:   
Artifacts:

Comments:

01/21/02

# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

FIELD

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3749357

Date Received: 12/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 50.0          | U |   | A |

Color Before:   
Color After:

Clarity Before:   
Clarity After:

Texture:   
Artifacts:

Comments:

# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

MW-5L

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3749356

Date Received: 12/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 821           |   |   | A |

Color Before:   
Color After:

Clarity Before:   
Clarity After:

Texture:   
Artifacts:

Comments:

# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

MW-5M

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3749355

Date Received: 12/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 8700          |   |   | A |

Color Before:   
Color After:

Clarity Before:   
Clarity After:

Texture:   
Artifacts:

Comments:

# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

MW-5U

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3749354

Date Received: 12/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 253000        |   |   | A |

Color Before: \_\_\_\_\_  
Color After: \_\_\_\_\_

Clarity Before: \_\_\_\_\_  
Clarity After: \_\_\_\_\_

Texture: \_\_\_\_\_  
Artifacts: \_\_\_\_\_

Comments:

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# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

MW-8L

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3749344

Date Received: 12/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 1390          |   |   | A |

Color Before:   
Color After:

Clarity Before:   
Clarity After:

Texture:   
Artifacts:

Comments:



# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

MW-8M

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3749343

Date Received: 12/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 1680          |   |   | A |

Color Before:   
Color After:

Clarity Before:   
Clarity After:

Texture:   
Artifacts:

Comments:

# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

MW-8U

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3749342

Date Received: 12/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 397000        |   |   | A |

Color Before:   
Color After:

Clarity Before:   
Clarity After:

Texture:   
Artifacts:

Comments:

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# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

MW-9L

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3749351

Date Received: 12/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 1540          |   |   | A |

Color Before:

Color After:

Clarity Before:

Clarity After:

Texture:

Artifacts:

Comments:

# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

MW-9U

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3749350

Date Received: 12/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 278000        |   |   | A |

Color Before:   
Color After:

Clarity Before:   
Clarity After:

Texture:   
Artifacts:

Comments:

# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

MW10L

Lab Name: LANCASTER LABORATORIES  
SDG No.: HUL03  
Matrix (soil/water): WATER  
Level (low/med): LOW  
% Solids: 0.0

Lab Sample ID: 3749353  
Date Received: 12/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 62900         |   |   | A |

Color Before:   
Color After:

Clarity Before:   
Clarity After:

Texture:   
Artifacts:

Comments:

# QUALITY ASSURANCE SUMMARY

## INORGANIC ANALYSIS DATA SHEET FORM I

CLIENT SAMPLE NO.

MW10U

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids: 0.0

Lab Sample ID: 3749352

Date Received: 12/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte | Concentration | C | Q | M |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron    | 79600         |   |   | A |

Color Before:   
Color After:

Clarity Before:   
Clarity After:

Texture:   
Artifacts:

Comments:

# Quality Control Data

# QUALITY ASSURANCE SUMMARY

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Initial Calibration Source: LLI

Continuing Calibration Source: LLI

Concentration Units: ug/L

| Analyte | Initial Calibration |         |       | Continuing Calibration |        |       |        |       | M |
|---------|---------------------|---------|-------|------------------------|--------|-------|--------|-------|---|
|         | True                | Found   | %R(1) | True                   | Found  | %R(2) | Found  | %R(2) |   |
| Iron    | 2500.0              | 2577.00 | 103.1 | 500.0                  | 471.00 | 94.2  | 496.00 | 99.2  | A |

(1) Control Limits: All Metals 90-110

(2) Control Limits: Mercury, Flame AA, Graphite Furnace AA 80-120; ICP 90-110



# QUALITY ASSURANCE SUMMARY

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Initial Calibration Source: LLI

Continuing Calibration Source: LLI

Concentration Units: ug/L

| Analyte | Initial Calibration |       |       | Continuing Calibration |        |       |        |       | M |
|---------|---------------------|-------|-------|------------------------|--------|-------|--------|-------|---|
|         | True                | Found | %R(1) | True                   | Found  | %R(2) | Found  | %R(2) |   |
| Iron    |                     |       |       | 500.0                  | 483.00 | 96.6  | 527.00 | 105.4 | A |

(1) Control Limits: All Metals 90-110

(2) Control Limits: Mercury, Flame AA, Graphite Furnace AA 80-120; ICP 90-110

# QUALITY ASSURANCE SUMMARY

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Name: LANCASTER LABORATORIES

SDG No.: HUL03

Initial Calibration Source: LLI

Continuing Calibration Source: LLI

Concentration Units: ug/L

| Analyte | Initial Calibration |       |       | Continuing Calibration |        |       |        |       | M |
|---------|---------------------|-------|-------|------------------------|--------|-------|--------|-------|---|
|         | True                | Found | %R(1) | True                   | Found  | %R(2) | Found  | %R(2) |   |
| Iron    |                     |       |       | 500.0                  | 519.00 | 103.8 | 481.00 | 96.2  | A |

(1) Control Limits: All Metals 90-110

(2) Control Limits: Mercury, Flame AA, Graphite Furnace AA 80-120; ICP 90-110

# QUALITY ASSURANCE SUMMARY

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Name: LANCASTER LABORATORIES

SDG No.: HUL03

Initial Calibration Source: LLI

Continuing Calibration Source: LLI

Concentration Units: ug/L

| Analyte | Initial Calibration |       |       | Continuing Calibration |        |       |       |       | M |
|---------|---------------------|-------|-------|------------------------|--------|-------|-------|-------|---|
|         | True                | Found | %R(1) | True                   | Found  | %R(2) | Found | %R(2) |   |
| Iron    |                     |       |       | 500.0                  | 478.00 | 95.6  |       |       | A |

(1) Control Limits: All Metals 90-110

(2) Control Limits: Mercury, Flame AA, Graphite Furnace AA 80-120; ICP 90-110

# QUALITY ASSURANCE SUMMARY

## CRDL STANDARD FOR AA AND ICP

Lab Name: LANCASTER LABORATORIES\_\_\_\_\_

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

Lab Code: \_\_\_\_\_

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: HUL03

AA CRDL Standard Source: LLI\_\_\_\_\_

ICP CRDL Standard Source: \_\_\_\_\_

Concentration Units: ug/L

| Analyte   | CRDL Standard for AA |       |      | CRDL Standard for ICP |                  |    |                |    |
|-----------|----------------------|-------|------|-----------------------|------------------|----|----------------|----|
|           | True                 | Found | %R   | True                  | Initial<br>Found | %R | Final<br>Found | %R |
| Iron_____ | 100.0                | 92.00 | 92.0 |                       |                  |    |                |    |
|           |                      |       |      |                       |                  |    |                |    |

# QUALITY ASSURANCE SUMMARY

## BLANKS

Name: LANCASTER LABORATORIES

SDG No.: HUL03

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial<br>Calib.<br>Blank<br>(ug/L) | C | Continuing Calibration<br>Blank (ug/L) |   |      |   |      |   | Prepa-<br>ration<br>Blank | C | M |
|---------|--------------------------------------|---|----------------------------------------|---|------|---|------|---|---------------------------|---|---|
|         |                                      |   | 1                                      | C | 2    | C | 3    | C |                           |   |   |
| Iron    | 12.5                                 | U | 12.5                                   | U | 12.5 | U | 12.5 | U | 50.000                    | U | A |

# QUALITY ASSURANCE SUMMARY

## BLANKS

Name: LANCASTER LABORATORIES

SDG No.: HUL03

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

| Analyte | Initial<br>Calib.<br>Blank<br>(ug/L) | Continuing Calibration<br>Blank (ug/L) |   |      |   |      |   | Prepa-<br>ration<br>Blank | C | M |
|---------|--------------------------------------|----------------------------------------|---|------|---|------|---|---------------------------|---|---|
|         |                                      | 1                                      | C | 2    | C | 3    | C |                           |   |   |
| Iron    |                                      | 13.0                                   | B | 12.5 | U | 23.0 | B |                           |   | A |
|         |                                      |                                        |   |      |   |      |   |                           |   |   |

# QUALITY ASSURANCE SUMMARY

## BLANKS

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

| Analyte | Initial Calib. Blank (ug/L) |   | Continuing Calibration Blank (ug/L) |   |   |   |   |   | Preparation Blank |   | M |
|---------|-----------------------------|---|-------------------------------------|---|---|---|---|---|-------------------|---|---|
|         |                             | C | 1                                   | C | 2 | C | 3 | C |                   | C |   |
| Iron    |                             |   | 12.5                                | U |   |   |   |   |                   |   | A |
|         |                             |   |                                     |   |   |   |   |   |                   |   |   |



QUALITY ASS( CE SUMMARY

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

CLIENT SAMPLE NO.

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (Soil/Water): WATER

AWALUS

% Solids for sample: 0.0 Concentration Units (ug/l or mg/kg dry weight): UG/L Level (low/med): LOW

| Analyte | M | Sample Result | C | MS Sample Result | C | MSD Sample Result | C | MS Spike Added | MSD Spike Added | MS %R | Q | MSD %R | Q | Control Limits %R | RPD | Q | Ctl Lim RPD |
|---------|---|---------------|---|------------------|---|-------------------|---|----------------|-----------------|-------|---|--------|---|-------------------|-----|---|-------------|
| Iron    | A | 111480.0000   |   | 112520.0000      |   | 112600.0000       |   | 1000.00        | 1000.00         | 104   |   | 112    |   |                   | 0   |   | 20          |

Note: An (N) in column "Q" indicates a spike recovery that is not within the control limits. An asterisk (\*) in column "Q" indicates poor duplicate precision between the matrix spike and the matrix spike duplicate. The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample page of the Quality Assurance Summary.



# QUALITY ASSURANCE SUMMARY

## DUPLICATES

CLIENT SAMPLE NO.

AWA1UD

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| Analyte | Control Limit | Sample (S) C | Duplicate (D) C | RPD | Q | M |
|---------|---------------|--------------|-----------------|-----|---|---|
| Iron    |               | 111480.0000  | 112080.0000     | 1   |   | A |

NOTE: An asterisk(\*) in column "Q" indicates poor duplicate precision (RPD > 20% OR  $|(S) - (D)| > LOQ$  for values < 5x LOQ). The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample page of the Quality Assurance Summary.

# QUALITY ASSURANCE SUMMARY

## LABORATORY CONTROL SAMPLE

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Solid LCS Source:

Aqueous LCS Source: LLI

| Analyte | Aqueous (ug/L) |         |        | Solid (mg/kg) |       |   |        |  | %R |
|---------|----------------|---------|--------|---------------|-------|---|--------|--|----|
|         | True           | Found   | %R (1) | True          | Found | C | Limits |  |    |
| Iron    | 1000.0         | 1000.00 | 100    |               |       |   |        |  |    |

(1) Control Limits: Statistically determined

7/12/01

Statistical Windows: Waters LCS/LCSD

SW846 ICP

| Element | True value<br>mg/L | Statistical<br>Window |
|---------|--------------------|-----------------------|
| AL      | 2                  | 93-112                |
| SB      | 0.5                | 94-112                |
| AS      | 2                  | 92-109                |
| BA      | 2                  | 93-109                |
| BE      | 0.05               | 92-109                |
| B       | 2                  | 93-110                |
| CD      | 0.05               | 93-111                |
| CA      | 4                  | 93-113                |
| CR      | 0.2                | 95-112                |
| CO      | 0.5                | 95-109                |
| CU      | 0.25               | 92-110                |
| FE      | 1                  | 91-114                |
| PB      | 0.5                | 93-110                |
| MG      | 2                  | 93-110                |
| MN      | 0.5                | 93-110                |
| MO      | 2                  | 97-109                |
| NI      | 0.5                | 93-110                |
| K       | 4                  | 80-120                |
| SE      | 2                  | 91-111                |
| AG      | 0.05               | 93-110                |
| NA      | 4                  | 87-117                |
| SR      | 1                  | 91-112                |
| TL      | 2                  | 92-107                |
| SN      | 4                  | 95-112                |
| TI      | 1                  | 96-109                |
| V       | 0.5                | 96-109                |
| ZN      | 0.5                | 94-112                |
| LI      | 2                  | 80-120                |

SW846 Mercury

| Element | True value<br>mg/L | Statistical<br>Window |
|---------|--------------------|-----------------------|
| HG      | 1                  | 84-124                |

SW846 GFAA

| Element | True value<br>mg/L | Statistical<br>Window |
|---------|--------------------|-----------------------|
| SB      | 50                 | 83-122                |
| AS      | 40                 | 83-116                |
| BE      | 2.5                | 80-120                |
| CD      | 2.5                | 82-117                |
| CR      | 10                 | 79-117                |
| CU      | 20                 | 85-116                |
| PB      | 20                 | 80-117                |
| NI      | 20                 | 80-120                |
| SE      | 10                 | 83-119                |
| AG      | 2.5                | 80-120                |
| TL      | 50                 | 90-108                |

SW846 Flame AA

| Element | True value<br>mg/L | Statistical<br>Window |
|---------|--------------------|-----------------------|
| AL      | 2                  | 77-110                |
| BA      | 2                  | 72-110                |
| BE      | 0.05               | 80-120                |
| CD      | 0.05               | 85-113                |
| CA      | 4                  | 80-120                |
| CR      | 0.2                | 86-121                |
| CU      | 0.25               | 87-106                |
| FE      | 1                  | 88-111                |
| PB      | 0.5                | 86-114                |
| MG      | 2                  | 80-120                |
| MN      | 0.5                | 90-108                |
| NI      | 0.5                | 85-110                |
| K       | 4                  | 80-120                |
| AG      | 0.05               | 82-116                |
| NA      | 4                  | 80-120                |
| ZN      | 0.5                | 88-109                |

# **Verification of Instrument Parameters**

## INSTRUMENT DETECTION LIMITS (QUARTERLY)

Furnace AA ID Number: \_\_\_\_\_

| Analyte   | Wave-length (nm) | Back-ground | IDL (ug/L) | M      |
|-----------|------------------|-------------|------------|--------|
| Iron_____ | 248.30__         | BD_____     | ____12.5   | A_____ |

9562

# QUALITY ASSURANCE SUMMARY

## METHOD DETECTION LIMITS (ANNUALLY)

Client Name: LANCASTER LABORATORIES

Sample No.: HUL03

Method: A

Matrix (soil/water): WATER

Date: 04/02/01

| Analyte | Wave-length (nm) | Back-ground | LOQ (ug/L) | MDL (ug/L) |
|---------|------------------|-------------|------------|------------|
| Iron    | 248.30           | BD          | 100        | 50.0       |

\*\* The LOQ must be adjusted for % Solids and Sample Weight for samples reporting in mg/Kg and ug.

Comments:

# Preparation and Run Logs

# QUALITY ASSURANCE SUMMARY

## PREPARATION LOG

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Method: A

| Client<br>Sample<br>No. | Preparation<br>Date | Weight<br>(gram) | Volume<br>(ml) |
|-------------------------|---------------------|------------------|----------------|
| AW-1L                   | 01/03/02            |                  | 50             |
| AW-2L                   | 01/03/02            |                  | 50             |
| AW-2U                   | 01/03/02            |                  | 50             |
| AW-3L                   | 01/03/02            |                  | 50             |
| AW-3U                   | 01/03/02            |                  | 50             |
| AWA1U                   | 01/03/02            |                  | 50             |
| AWA1UD                  | 01/03/02            |                  | 50             |
| AWA1UM                  | 01/03/02            |                  | 50             |
| AWA1US                  | 01/03/02            |                  | 50             |
| AWB1U                   | 01/03/02            |                  | 50             |
| FIELD                   | 01/03/02            |                  | 50             |
| LCSW                    | 01/03/02            |                  | 50             |
| MW-5L                   | 01/03/02            |                  | 50             |
| MW-5M                   | 01/03/02            |                  | 50             |
| MW-5U                   | 01/03/02            |                  | 50             |
| MW-8L                   | 01/03/02            |                  | 50             |
| MW-8M                   | 01/03/02            |                  | 50             |
| MW-8U                   | 01/03/02            |                  | 50             |
| MW-9L                   | 01/03/02            |                  | 50             |
| MW-9U                   | 01/03/02            |                  | 50             |
| MW10L                   | 01/03/02            |                  | 50             |
| MW10U                   | 01/03/02            |                  | 50             |
| PBW                     | 01/03/02            |                  | 50             |



## QUALITY ASSURANCE SUMMARY

## ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES\_\_

SDG No.: HUL03\_\_

Instrument ID Number: 03907\_\_

Method: A\_\_

Start Date: 01/08/02

End Date: 01/08/02

| EPA<br>Sample<br>No. | D/F  | Time | % R | Analytes |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----------------------|------|------|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
|                      |      |      |     | F<br>E   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| S0                   | 1.00 | 0753 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| S100                 | 1.00 | 0753 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| S250                 | 1.00 | 0753 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| S500                 | 1.00 | 0754 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| S1000                | 1.00 | 0754 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| S5000                | 1.00 | 0754 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| ICV                  | 1.00 | 0755 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| ICB                  | 1.00 | 0755 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| CRA                  | 1.00 | 0756 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| CCV                  | 1.00 | 0756 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| CCB                  | 1.00 | 0756 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| ZZZZZZ               | 1.00 | 0757 |     | -        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| ZZZZZZ               | 1.00 | 0757 |     | -        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| ZZZZZZ               | 1.00 | 0758 |     | -        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| ZZZZZZ               | 1.00 | 0758 |     | -        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| ZZZZZZ               | 1.00 | 0758 |     | -        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| ZZZZZZ               | 1.00 | 0759 |     | -        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| ZZZZZZ               | 1.00 | 0759 |     | -        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| ZZZZZZ               | 1.00 | 0800 |     | -        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| ZZZZZZ               | 1.00 | 0800 |     | -        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| ZZZZZZ               | 1.00 | 0800 |     | -        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| CCV                  | 1.00 | 0801 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| CCB                  | 1.00 | 0801 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| ZZZZZZ               | 1.00 | 0803 |     | -        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| ZZZZZZ               | 5.00 | 0803 |     | -        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| ZZZZZZ               | 1.00 | 0804 |     | -        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| ZZZZZZ               | 1.00 | 0804 |     | -        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| ZZZZZZ               | 1.00 | 0805 |     | -        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| ZZZZZZ               | 1.00 | 0805 |     | -        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| PBW                  | 1.00 | 0811 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| LCSW                 | 1.00 | 0812 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| AWA1U                | 1.00 | 0812 |     | -        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |

# QUALITY ASSURANCE SUMMARY

## ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Instrument ID Number: 03907

Method: A

Start Date: 01/08/02

End Date: 01/08/02

| EPA<br>Sample<br>No. | D/F    | Time | % R | Analytes |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------|--------|------|-----|----------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                      |        |      |     | F        | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AWA1U                | 40.00  | 0824 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV                  | 1.00   | 0827 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB                  | 1.00   | 0830 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AWA1UA               | 40.00  | 0833 |     |          |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AWA1UL               | 200.00 | 0834 |     |          |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AWA1UD               | 40.00  | 0835 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AWA1US               | 40.00  | 0835 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AWA1UM               | 40.00  | 0835 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AW-3U                | 1.00   | 0836 |     |          |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AW-3U                | 40.00  | 0842 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AW-3L                | 1.00   | 0842 |     |          |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AW-3L                | 40.00  | 0843 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MW-8U                | 1.00   | 0843 |     |          |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV                  | 1.00   | 0844 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CB                   | 1.00   | 0844 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| W-8U                 | 100.00 | 0849 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MW-8M                | 1.00   | 0849 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MW-8L                | 1.00   | 0849 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AWB1U                | 1.00   | 0850 |     |          |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AWB1U                | 40.00  | 0851 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AW-1L                | 1.00   | 0853 |     |          |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AW-1L                | 40.00  | 0854 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AW-2U                | 1.00   | 0854 |     |          |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AW-2U                | 40.00  | 0900 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AW-2L                | 1.00   | 0901 |     |          |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV                  | 1.00   | 0901 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB                  | 1.00   | 0902 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AW-2L                | 40.00  | 0902 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MW-9U                | 1.00   | 0902 |     |          |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MW-9U                | 100.00 | 0903 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MW-9L                | 1.00   | 0903 |     | X        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MW10U                | 1.00   | 0904 |     |          |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

# QUALITY ASSURANCE SUMMARY

## ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

SDG No.: HUL03

Instrument ID Number: 03907

Method: A

Start Date: 01/08/02

End Date: 01/08/02

| EPA<br>Sample<br>No. | D/F    | Time | % R | Analytes |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|--------|------|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                      |        |      |     | F        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MW10U                | 40.00  | 0904 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW10L                | 1.00   | 0904 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW10L                | 40.00  | 0905 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-5U                | 1.00   | 0906 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-5U                | 100.00 | 0906 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CCV                  | 1.00   | 0906 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CCB                  | 1.00   | 0907 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-5M                | 1.00   | 0908 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-5M                | 10.00  | 0909 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-5L                | 1.00   | 0910 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| FIELD                | 1.00   | 0911 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CCV                  | 1.00   | 0911 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CCB                  | 1.00   | 0911 |     | X        | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# Raw Data

# Flame AA Data

## DATA SHEET FOR FLAMEAA RUN

RUN NAME: 0200801A04  
ELEMENT FE

LANCASTER LABRATORIES  
INSTRUMENT ID: 03907

TUBE: 1 1/08/02 7:53:02

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL | ALIQVOL  | DF       | FINVOL   | SAMP WT  |
|--------|----|--------|-------------|--------|----------|----------|----------|----------|
| S0     | *  |        | 0.000       | 1.000  | 1.000    | 1.000    | 1.000    | 1.000    |
|        |    |        | %RSD        |        | MEAN ABS | READING1 | READING2 | READING3 |
|        |    |        | 0.000       |        | 0.001    | -0.001   | 0.003    | 0.001    |

TUBE: 2 1/08/02 7:53:03

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL | ALIQVOL  | DF       | FINVOL   | SAMP WT  |
|--------|----|--------|-------------|--------|----------|----------|----------|----------|
| S100   | *  |        | 0.100       | 1.000  | 1.000    | 1.000    | 1.000    | 1.000    |
|        |    |        | %RSD        |        | MEAN ABS | READING1 | READING2 | READING3 |
|        |    |        | 14.100      |        | 0.018    | 0.021    | 0.018    | 0.016    |

TUBE: 3 1/08/02 7:53:05

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL | ALIQVOL  | DF       | FINVOL   | SAMP WT  |
|--------|----|--------|-------------|--------|----------|----------|----------|----------|
| S250   | *  |        | 0.250       | 1.000  | 1.000    | 1.000    | 1.000    | 1.000    |
|        |    |        | %RSD        |        | MEAN ABS | READING1 | READING2 | READING3 |
|        |    |        | 3.500       |        | 0.042    | 0.041    | 0.044    | 0.043    |

TUBE: 4 1/08/02 7:54:01

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL | ALIQVOL  | DF       | FINVOL   | SAMP WT  |
|--------|----|--------|-------------|--------|----------|----------|----------|----------|
| S500   | *  |        | 0.500       | 1.000  | 1.000    | 1.000    | 1.000    | 1.000    |
|        |    |        | %RSD        |        | MEAN ABS | READING1 | READING2 | READING3 |
|        |    |        | 2.500       |        | 0.080    | 0.082    | 0.080    | 0.078    |

TUBE: 5 1/08/02 7:54:02

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL | ALIQVOL  | DF       | FINVOL   | SAMP WT  |
|--------|----|--------|-------------|--------|----------|----------|----------|----------|
| S1000  | *  |        | 1.000       | 1.000  | 1.000    | 1.000    | 1.000    | 1.000    |
|        |    |        | %RSD        |        | MEAN ABS | READING1 | READING2 | READING3 |
|        |    |        | 2.000       |        | 0.152    | 0.149    | 0.155    | 0.152    |

## DATA SHEET FOR FLAMEAA RUN

RUN NAME: 0200801A04  
ELEMENT FE

LANCASTER LABRATORIES  
INSTRUMENT ID: 03907

TUBE: 6 1/08/02 7:54:04

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL | ALIQVOL  | DF       | FINVOL   | SAMP WT  |
|--------|----|--------|-------------|--------|----------|----------|----------|----------|
| 55000  | *  |        | 5.000       | 1.000  | 1.000    | 1.000    | 1.000    | 1.000    |
|        |    |        | %RSD        |        | MEAN ABS | READING1 | READING2 | READING3 |
|        |    |        | 0.200       |        | 0.632    | 0.631    | 0.633    | 0.633    |

TUBE: 7 1/08/02 7:55:00

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL | ALIQVOL | DF       | FINVOL   | SAMP WT  |
|--------|----|--------|-------------|--------|---------|----------|----------|----------|
| ICV    | *  |        | 2.577       | 1.000  | 1.000   | 1.000    | 1.000    | 1.000    |
|        |    |        | % RECOVERY  |        | % RSD   | MEAN ABS | READING1 | READING2 |
|        |    |        | 103.1       |        | 1.000   | 0.352    | 0.347    | 0.354    |
|        |    |        |             |        |         |          | READING3 | 0.353    |

TUBE: 8 1/08/02 7:55:03

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL | ALIQVOL  | DF       | FINVOL   | SAMP WT  |
|--------|----|--------|-------------|--------|----------|----------|----------|----------|
| ICB    | *  |        | 0.010       | 1.000  | 1.000    | 1.000    | 1.000    | 1.000    |
|        |    |        | %RSD        |        | MEAN ABS | READING1 | READING2 | READING3 |
|        |    |        | 42.300      |        | 0.002    | 0.001    | 0.001    | 0.003    |

TUBE: 9 1/08/02 7:56:00

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL | ALIQVOL  | DF       | FINVOL   | SAMP WT  |
|--------|----|--------|-------------|--------|----------|----------|----------|----------|
| CRA    | *  |        | 0.092       | 1.000  | 1.000    | 1.000    | 1.000    | 1.000    |
|        |    |        | %RSD        |        | MEAN ABS | READING1 | READING2 | READING3 |
|        |    |        | 19.500      |        | 0.017    | 0.014    | 0.020    | 0.016    |

TUBE: 10 1/08/02 7:56:03

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL | ALIQVOL | DF       | FINVOL   | SAMP WT  |
|--------|----|--------|-------------|--------|---------|----------|----------|----------|
| CCV1   | *  |        | 0.471       | 1.000  | 1.000   | 1.000    | 1.000    | 1.000    |
|        |    |        | % RECOVERY  |        | % RSD   | MEAN ABS | READING1 | READING2 |
|        |    |        | 94.2        |        | 2.500   | 0.075    | 0.077    | 0.075    |
|        |    |        |             |        |         |          | READING3 | 0.074    |

## DATA SHEET FOR FLAMEAA RUN

RUN NAME: 0200801A04  
ELEMENT FE

LANCASTER LABRATORIES  
INSTRUMENT ID: 03907

TUBE: 11 1/08/02 7:56:04

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL   | ALIQVOL  | DF       | FINVOL   | SAMP WT |
|--------|----|--------|-------------|----------|----------|----------|----------|---------|
| CCB1   | *  |        | 0.002       | 1.000    | 1.000    | 1.000    | 1.000    | 1.000   |
|        |    |        | %RSD        | MEAN ABS | READING1 | READING2 | READING3 |         |
|        |    |        | 99.900      | 0.000    | -0.001   | 0.002    | 0.000    |         |

TUBE: 12 1/08/02 7:57:02

zzzzzz

| SAMPLE | QC | BATCH#       | CONC. (ppm) | DILVOL   | ALIQVOL  | DF       | FINVOL   | SAMP WT |
|--------|----|--------------|-------------|----------|----------|----------|----------|---------|
| PBW    | *  | 020025733004 | 0.019       | 1.000    | 1.000    | 1.000    | 50.000   | 50.000  |
|        |    |              | % RSD       | MEAN ABS | READING1 | READING2 | READING3 |         |
|        |    |              | 58.300      | 0.003    | 0.004    | 0.001    | 0.005    |         |

TUBE: 13 1/08/02 7:57:03

zzzzzz

| SAMPLE | QC | BATCH#       | CONC. (ppm) | DILVOL   | ALIQVOL  | DF       | FINVOL   | SAMP WT |
|--------|----|--------------|-------------|----------|----------|----------|----------|---------|
| LCSW   | *  | 020025733004 | 0.944       | 1.000    | 1.000    | 1.000    | 1.000    | 1.000   |
|        |    |              | % RSD       | MEAN ABS | READING1 | READING2 | READING3 |         |
|        |    |              | 2.000       | 0.144    | 0.142    | 0.148    | 0.143    |         |

TUBE: 14 1/08/02 7:58:00

zzzzzz

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL   | ALIQVOL  | DF       | FINVOL   | SAMP WT |
|---------|----|--------------|-------------|----------|----------|----------|----------|---------|
| 3751218 | U  | 020025733004 | 1.797       | 1.000    | 1.000    | 1.000    | 50.000   | 50.000  |
|         |    |              | % RSD       | MEAN ABS | READING1 | READING2 | READING3 |         |
|         |    |              | 0.700       | 0.257    | 0.257    | 0.255    | 0.259    |         |

TUBE: 15 1/08/02 7:58:02

zzzzzz

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL   | ALIQVOL  | DF       | FINVOL   | SAMP WT |
|---------|----|--------------|-------------|----------|----------|----------|----------|---------|
| 3751218 | D  | 020025733004 | 1.768       | 1.000    | 1.000    | 1.000    | 50.000   | 50.000  |
|         |    |              | % RSD       | MEAN ABS | READING1 | READING2 | READING3 |         |
|         |    |              | 0.100       | 0.253    | 0.253    | 0.253    | 0.253    |         |



## DATA SHEET FOR FLAMEAA RUN

RUN NAME: 0200801A04  
ELEMENT FE

LANCASTER LABRATORIES  
INSTRUMENT ID: 03907

TUBE: 16 1/08/02 7:58:03

zzzzzz

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|-------|--------|---------|
| 3751218 | R  | 020025733004 | 2.779       | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

|                              | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|------------------------------|----|----|-------|----------|----------|----------|----------|
| <del>U</del><br><del>X</del> | —  | —  | 0.800 | 0.375    | 0.373    | 0.374    | 0.379    |

TUBE: 17 1/08/02 7:59:01

zzzzzz

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|-------|--------|---------|
| 3750648 | *  | 020025733004 | 4.912       | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

|                              | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|------------------------------|----|----|-------|----------|----------|----------|----------|
| <del>U</del><br><del>X</del> | —  | —  | 0.300 | 0.622    | 0.624    | 0.621    | 0.621    |

TUBE: 18 1/08/02 7:59:03

zzzzzz

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|-------|--------|---------|
| 3751442 | *  | 020025733004 | 1.230       | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

|                              | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|------------------------------|----|----|-------|----------|----------|----------|----------|
| <del>U</del><br><del>X</del> | —  | —  | 1.200 | 0.183    | 0.184    | 0.181    | 0.186    |

TUBE: 19 1/08/02 8:00:01

zzzzzz

| SAMPLE | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|--------|----|--------------|-------------|--------|---------|-------|--------|---------|
| PBW    | *  | 020070820002 | -0.003      | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

|                              | RR | RD | % RSD  | MEAN ABS | READING1 | READING2 | READING3 |
|------------------------------|----|----|--------|----------|----------|----------|----------|
| <del>U</del><br><del>X</del> | —  | —  | 99.900 | -0.001   | 0.002    | -0.001   | -0.003   |

TUBE: 20 1/08/02 8:00:03

zzzzzz

| SAMPLE | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|--------|----|--------------|-------------|--------|---------|-------|--------|---------|
| LCSW   | *  | 020070820002 | 0.999       | 1.000  | 1.000   | 1.000 | 1.000  | 1.000   |

|                              | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|------------------------------|----|----|-------|----------|----------|----------|----------|
| <del>U</del><br><del>X</del> | —  | —  | 1.700 | 0.152    | 0.153    | 0.149    | 0.154    |

DATA SHEET FOR FLAMEAA RUN

RUN NAME: 0200801A04  
ELEMENT FE

LANCASTER LABRATORIES  
INSTRUMENT ID: 03907

TUBE: 21 1/08/02 8:00:05

zzzzzz

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|-------|--------|---------|
| 3753353 | U  | 020070820002 | 0.005       | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

|               | RR | RD | % RSD  | MEAN ABS | READING1 | READING2 | READING3 |
|---------------|----|----|--------|----------|----------|----------|----------|
| $\frac{V}{A}$ | —  | —  | 99.900 | 0.001    | 0.002    | -0.001   | 0.002    |

TUBE: 22 1/08/02 8:01:01

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|--------|----|--------|-------------|--------|---------|-------|--------|---------|
| CCV2   | *  |        | 0.496       | 1.000  | 1.000   | 1.000 | 1.000  | 1.000   |

| % RECOVERY | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|------------|-------|----------|----------|----------|----------|
| 99.2       | 2.200 | 0.079    | 0.077    | 0.079    | 0.081    |

TUBE: 23 1/08/02 8:01:02

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|--------|----|--------|-------------|--------|---------|-------|--------|---------|
| CCB2   | *  |        | -0.004      | 1.000  | 1.000   | 1.000 | 1.000  | 1.000   |

| %RSD   | MEAN ABS | READING1 | READING2 | READING3 |
|--------|----------|----------|----------|----------|
| 94.300 | -0.001   | -0.002   | -0.001   | 0.000    |

TUBE: 24 1/08/02 8:03:03

zzzzzz

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|-------|--------|---------|
| 3753353 | P  | 020070820002 | 1.178       | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

|                        | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|------------------------|----|----|-------|----------|----------|----------|----------|
| $\frac{V}{\checkmark}$ | —  | —  | 1.100 | 0.177    | 0.178    | 0.177    | 0.174    |

TUBE: 25 1/08/02 8:03:05

zzzzzz

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|-------|--------|---------|
| 3753353 | L  | 020070820002 | 0.011       | 10.000 | 2.000   | 5.000 | 50.000 | 50.000  |

|                        | RR | RD | % RSD  | MEAN ABS | READING1 | READING2 | READING3 |
|------------------------|----|----|--------|----------|----------|----------|----------|
| $\frac{V}{\checkmark}$ | —  | —  | 99.900 | 0.002    | 0.006    | 0.000    | 0.000    |

## DATA SHEET FOR FLAMEAA RUN

RUN NAME: 0200801A04  
ELEMENT FE

LANCASTER LABRATORIES  
INSTRUMENT ID: 03907

TUBE: 26 1/08/02 8:04:02

zzzzzz

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|-------|--------|---------|
| 3753353 | D  | 020070820002 | 0.008       | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

|                              | RR | RD | % RSD  | MEAN ABS | READING1 | READING2 | READING3 |
|------------------------------|----|----|--------|----------|----------|----------|----------|
| <del>U</del><br><del>X</del> | —  | —  | 45.000 | 0.001    | 0.002    | 0.001    | 0.001    |

TUBE: 27 1/08/02 8:04:04

zzzzzz

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|-------|--------|---------|
| 3753353 | R  | 020070820002 | 0.936       | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

|                              | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|------------------------------|----|----|-------|----------|----------|----------|----------|
| <del>U</del><br><del>X</del> | —  | —  | 1.500 | 0.143    | 0.141    | 0.146    | 0.143    |

TUBE: 28 1/08/02 8:05:00

zzzzzz

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|-------|--------|---------|
| 3753353 | M  | 020070820002 | 0.953       | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

|                              | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|------------------------------|----|----|-------|----------|----------|----------|----------|
| <del>U</del><br><del>X</del> | —  | —  | 2.400 | 0.146    | 0.149    | 0.146    | 0.142    |

TUBE: 29 1/08/02 8:05:02

zzzzzz

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|-------|--------|---------|
| 3752706 | *  | 020070820002 | 2.567       | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

|                              | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|------------------------------|----|----|-------|----------|----------|----------|----------|
| <del>U</del><br><del>X</del> | —  | —  | 0.400 | 0.350    | 0.350    | 0.349    | 0.352    |

TUBE: 30 1/08/02 8:11:04

| SAMPLE | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|--------|----|--------------|-------------|--------|---------|-------|--------|---------|
| PBW    | *  | 020030820001 | 0.006       | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

|                              | RR | RD | % RSD  | MEAN ABS | READING1 | READING2 | READING3 |
|------------------------------|----|----|--------|----------|----------|----------|----------|
| <del>U</del><br><del>X</del> | —  | —  | 34.800 | 0.001    | 0.002    | 0.001    | 0.001    |

## DATA SHEET FOR FLAMEAA RUN

RUN NAME: 0200801A04  
ELEMENT FE

LANCASTER LABRATORIES  
INSTRUMENT ID: 03907

TUBE: 31 1/08/02 8:12:01

| SAMPLE | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|--------|----|--------------|-------------|--------|---------|-------|--------|---------|
| LCSW   | *  | 020030820001 | 1.000       | 1.000  | 1.000   | 1.000 | 1.000  | 1.000   |

|              | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|--------------|----|----|-------|----------|----------|----------|----------|
| <del>V</del> | —  | —  | 1.700 | 0.152    | 0.154    | 0.153    | 0.149    |

TUBE: 32 *AWA14* 1/08/02 8:12:03

| SAMPLE    | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|-----------|----|--------------|-------------|--------|---------|-------|--------|---------|
| 3749345 U |    | 020030820001 | 50.000      | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

|              | RR        | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|--------------|-----------|----|-------|----------|----------|----------|----------|
| <del>V</del> | <i>HO</i> | —  | 0.400 | 1.258    | 1.252    | 1.260    | 1.262    |

TUBE: 33 *AWA14* 1/08/02 8:24:03

| SAMPLE    | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF     | FINVOL | SAMP WT |
|-----------|----|--------------|-------------|--------|---------|--------|--------|---------|
| 3749345 U |    | 020030820001 | 2.787       | 10.000 | 0.250   | 40.000 | 50.000 | 50.000  |

|              | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|--------------|----|----|-------|----------|----------|----------|----------|
| <del>V</del> | —  | —  | 0.800 | 0.376    | 0.373    | 0.379    | 0.376    |

TUBE: 34 1/08/02 8:27:04

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|--------|----|--------|-------------|--------|---------|-------|--------|---------|
| CCV3   | *  |        | 0.483       | 1.000  | 1.000   | 1.000 | 1.000  | 1.000   |

| % RECOVERY | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|------------|-------|----------|----------|----------|----------|
| 96.6       | 1.800 | 0.077    | 0.078    | 0.078    | 0.076    |

TUBE: 35 1/08/02 8:30:04

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|--------|----|--------|-------------|--------|---------|-------|--------|---------|
| CCB3   | *  |        | 0.004       | 1.000  | 1.000   | 1.000 | 1.000  | 1.000   |

| %RSD   | MEAN ABS | READING1 | READING2 | READING3 |
|--------|----------|----------|----------|----------|
| 99.900 | 0.001    | -0.004   | 0.002    | 0.004    |

## DATA SHEET FOR FLAMEAA RUN

RUN NAME: 0200801A04  
ELEMENT FE

LANCASTER LABORATORIES  
INSTRUMENT ID: 03907

TUBE: 36 AWA1UA 1/08/02 8:33:03

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF     | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|--------|--------|---------|
| 3749345 | P  | 020030820001 | 3.964       | 10.000 | 0.250   | 40.000 | 50.000 | 50.000  |

| V | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|---|----|----|-------|----------|----------|----------|----------|
| ✓ | —  | —  | 0.500 | 0.512    | 0.509    | 0.514    | 0.512    |

TUBE: 37 AWA1UL 1/08/02 8:34:03

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF      | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|---------|--------|---------|
| 3749345 | L  | 020030820001 | 0.524       | 50.000 | 0.250   | 200.000 | 50.000 | 50.000  |

| V | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|---|----|----|-------|----------|----------|----------|----------|
| ✓ | —  | —  | 3.800 | 0.083    | 0.080    | 0.085    | 0.085    |

TUBE: 38 AWA1UD 1/08/02 8:35:00

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF     | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|--------|--------|---------|
| 3749345 | D  | 020030820001 | 2.802       | 10.000 | 0.250   | 40.000 | 50.000 | 50.000  |

| V | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|---|----|----|-------|----------|----------|----------|----------|
| X | —  | —  | 0.900 | 0.378    | 0.374    | 0.381    | 0.379    |

TUBE: 39 AWA1US 1/08/02 8:35:03

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF     | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|--------|--------|---------|
| 3750934 | R  | 020030820001 | 2.813       | 10.000 | 0.250   | 40.000 | 50.000 | 50.000  |

| V | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|---|----|----|-------|----------|----------|----------|----------|
| X | —  | —  | 0.900 | 0.379    | 0.377    | 0.377    | 0.383    |

TUBE: 40 AWA1UM 1/08/02 8:35:05

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF     | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|--------|--------|---------|
| 3750935 | M  | 020030820001 | 2.815       | 10.000 | 0.250   | 40.000 | 50.000 | 50.000  |

| V | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|---|----|----|-------|----------|----------|----------|----------|
| X | —  | —  | 0.400 | 0.380    | 0.381    | 0.378    | 0.380    |

## DATA SHEET FOR FLAMEAA RUN

RUN NAME: 0200801A04  
ELEMENT FE

LANCASTER LABRATORIES  
INSTRUMENT ID: 03907

TUBE: 41 AW-34 1/08/02 8:36:03

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL  | DF       | FINVOL   | SAMP WT  |
|---------|----|--------------|-------------|--------|----------|----------|----------|----------|
| 3749340 | *  | 020030820001 | 50.000      | 1.000  | 1.000    | 1.000    | 50.000   | 50.000   |
| V       |    | RR           | RD          | % RSD  | MEAN ABS | READING1 | READING2 | READING3 |
| —       |    | 40           | —           | 1.300  | 1.255    | 1.250    | 1.241    | 1.272    |

TUBE: 42 AW-34 1/08/02 8:42:01

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL  | DF       | FINVOL   | SAMP WT  |
|---------|----|--------------|-------------|--------|----------|----------|----------|----------|
| 3749340 | *  | 020030820001 | 3.175       | 10.000 | 0.250    | 40.000   | 50.000   | 50.000   |
| V       |    | RR           | RD          | % RSD  | MEAN ABS | READING1 | READING2 | READING3 |
| —       |    | —            | —           | 1.000  | 0.421    | 0.418    | 0.426    | 0.419    |

TUBE: 43 AW-3L 1/08/02 8:42:04

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL  | DF       | FINVOL   | SAMP WT  |
|---------|----|--------------|-------------|--------|----------|----------|----------|----------|
| 3749341 | *  | 020030820001 | 50.000      | 1.000  | 1.000    | 1.000    | 50.000   | 50.000   |
| V       |    | RR           | RD          | % RSD  | MEAN ABS | READING1 | READING2 | READING3 |
| —       |    | 40           | —           | 0.800  | 1.256    | 1.266    | 1.253    | 1.248    |

TUBE: 44 AW-3L 1/08/02 8:43:01

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL  | DF       | FINVOL   | SAMP WT  |
|---------|----|--------------|-------------|--------|----------|----------|----------|----------|
| 3749341 | *  | 020030820001 | 3.116       | 10.000 | 0.250    | 40.000   | 50.000   | 50.000   |
| V       |    | RR           | RD          | % RSD  | MEAN ABS | READING1 | READING2 | READING3 |
| —       |    | —            | —           | 1.400  | 0.414    | 0.413    | 0.421    | 0.409    |

TUBE: 45 MW-84 1/08/02 8:43:03

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL  | DF       | FINVOL   | SAMP WT  |
|---------|----|--------------|-------------|--------|----------|----------|----------|----------|
| 3749342 | *  | 020030820001 | 50.000      | 1.000  | 1.000    | 1.000    | 50.000   | 50.000   |
| V       |    | RR           | RD          | % RSD  | MEAN ABS | READING1 | READING2 | READING3 |
| —       |    | 100          | —           | 0.600  | 1.301    | 1.300    | 1.294    | 1.310    |

0  
3  
9  
9

## DATA SHEET FOR FLAMEAA RUN

RUN NAME: 0200801A04  
ELEMENT FE

LANCASTER LABORATORIES  
INSTRUMENT ID: 03907

TUBE: 46 1/08/02 8:44:00

| SAMPLE     | QC | BATCH# | CONC. (ppm) | DILVOL   | ALIQVOL  | DF       | FINVOL   | SAMP WT |
|------------|----|--------|-------------|----------|----------|----------|----------|---------|
| CCV4       | *  |        | 0.527       | 1.000    | 1.000    | 1.000    | 1.000    | 1.000   |
| % RECOVERY |    |        | % RSD       | MEAN ABS | READING1 | READING2 | READING3 |         |
| 105.4      |    |        | 2.900       | 0.084    | 0.085    | 0.085    | 0.081    |         |

TUBE: 47 1/08/02 8:44:01

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL   | ALIQVOL  | DF       | FINVOL | SAMP WT |
|--------|----|--------|-------------|----------|----------|----------|--------|---------|
| CCB4   | *  |        | 0.013       | 1.000    | 1.000    | 1.000    | 1.000  | 1.000   |
| %RSD   |    |        | MEAN ABS    | READING1 | READING2 | READING3 |        |         |
| 31.100 |    |        | 0.002       | 0.003    | 0.002    | 0.003    |        |         |

TUBE: 48 MW-8U 1/08/02 8:49:00

| SAMPLE       | QC | BATCH#       | CONC. (ppm) | DILVOL   | ALIQVOL  | DF       | FINVOL   | SAMP WT |
|--------------|----|--------------|-------------|----------|----------|----------|----------|---------|
| 3749342      | *  | 020030820001 | 3.973       | 10.000   | 0.100    | 100.000  | 50.000   | 50.000  |
| <del>U</del> | RR | RD           | % RSD       | MEAN ABS | READING1 | READING2 | READING3 |         |
| <del>X</del> | —  | —            | 0.100       | 0.513    | 0.512    | 0.513    | 0.512    |         |

TUBE: 49 MW-8M 1/08/02 8:49:03

| SAMPLE       | QC | BATCH#       | CONC. (ppm) | DILVOL   | ALIQVOL  | DF       | FINVOL   | SAMP WT |
|--------------|----|--------------|-------------|----------|----------|----------|----------|---------|
| 3749343      | *  | 020030820001 | 1.675       | 1.000    | 1.000    | 1.000    | 50.000   | 50.000  |
| <del>U</del> | RR | RD           | % RSD       | MEAN ABS | READING1 | READING2 | READING3 |         |
| <del>X</del> | —  | —            | 0.800       | 0.241    | 0.240    | 0.244    | 0.240    |         |

TUBE: 50 MW-8L 1/08/02 8:49:05

| SAMPLE       | QC | BATCH#       | CONC. (ppm) | DILVOL   | ALIQVOL  | DF       | FINVOL   | SAMP WT |
|--------------|----|--------------|-------------|----------|----------|----------|----------|---------|
| 3749344      | *  | 020030820001 | 1.393       | 1.000    | 1.000    | 1.000    | 50.000   | 50.000  |
| <del>U</del> | RR | RD           | % RSD       | MEAN ABS | READING1 | READING2 | READING3 |         |
| <del>X</del> | —  | —            | 1.800       | 0.205    | 0.203    | 0.203    | 0.209    |         |

## DATA SHEET FOR FLAMEAA RUN

RUN NAME: 0200801A04  
ELEMENT FE

LANCASTER LABRATORIES  
INSTRUMENT ID: 03907

TUBE: 51 AWB14 1/08/02 8:50:03

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|-------|--------|---------|
| 3749346 | *  | 020030820001 | 50.000      | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

| V | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|---|----|----|-------|----------|----------|----------|----------|
| — | 40 | —  | 1.200 | 1.296    | 1.299    | 1.278    | 1.309    |

TUBE: 52 1/08/02 8:51:00

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF     | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|--------|--------|---------|
| 3749346 | *  | 020030820001 | 4.396       | 10.000 | 0.250   | 40.000 | 50.000 | 50.000  |

| V | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|---|----|----|-------|----------|----------|----------|----------|
| X | —  | —  | 0.100 | 0.561    | 0.562    | 0.561    | 0.561    |

TUBE: 53 AW-1L 1/08/02 8:53:04

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|-------|--------|---------|
| 3749347 | *  | 020030820001 | 50.000      | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

| V | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|---|----|----|-------|----------|----------|----------|----------|
| — | 40 | —  | 2.100 | 1.214    | 1.224    | 1.232    | 1.185    |

TUBE: 54 AW-1L 1/08/02 8:54:02

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF     | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|--------|--------|---------|
| 3749347 | *  | 020030820001 | 1.648       | 10.000 | 0.250   | 40.000 | 50.000 | 50.000  |

| V | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|---|----|----|-------|----------|----------|----------|----------|
| X | —  | —  | 1.200 | 0.238    | 0.237    | 0.236    | 0.241    |

TUBE: 55 AW-24 1/08/02 8:54:05

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|-------|--------|---------|
| 3749348 | *  | 020030820001 | 50.000      | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

| V | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|---|----|----|-------|----------|----------|----------|----------|
| — | 40 | —  | 1.200 | 1.263    | 1.248    | 1.262    | 1.278    |



## DATA SHEET FOR FLAMEAA RUN

RUN NAME: 0200801A04  
ELEMENT FE

LANCASTER LABRATORIES  
INSTRUMENT ID: 03907

TUBE: 56 AW-2U 1/08/02 9:00:03

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF     | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|--------|--------|---------|
| 3749348 | *  | 020030820001 | 3.274       | 10.000 | 0.250   | 40.000 | 50.000 | 50.000  |

| U | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|---|----|----|-------|----------|----------|----------|----------|
| X | —  | —  | 1.200 | 0.433    | 0.438    | 0.431    | 0.428    |

TUBE: 57 AW-2L 1/08/02 9:01:00

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|-------|--------|---------|
| 3749349 | *  | 020030820001 | 50.000      | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

| V | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|---|----|----|-------|----------|----------|----------|----------|
| — | 46 | —  | 1.400 | 1.305    | 1.325    | 1.296    | 1.293    |

TUBE: 58 1/08/02 9:01:04

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|--------|----|--------|-------------|--------|---------|-------|--------|---------|
| CCV5   | *  |        | 0.519       | 1.000  | 1.000   | 1.000 | 1.000  | 1.000   |

| % RECOVERY | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|------------|-------|----------|----------|----------|----------|
| 103.8      | 2.700 | 0.083    | 0.085    | 0.081    | 0.082    |

TUBE: 59 1/08/02 9:02:00

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|--------|----|--------|-------------|--------|---------|-------|--------|---------|
| CCB5   | *  |        | 0.010       | 1.000  | 1.000   | 1.000 | 1.000  | 1.000   |

| %RSD   | MEAN ABS | READING1 | READING2 | READING3 |
|--------|----------|----------|----------|----------|
| 99.900 | 0.002    | 0.001    | 0.005    | -0.001   |

TUBE: 60 AW-2L 1/08/02 9:02:02

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF     | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|--------|--------|---------|
| 3749349 | *  | 020030820001 | 4.341       | 10.000 | 0.250   | 40.000 | 50.000 | 50.000  |

| U | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|---|----|----|-------|----------|----------|----------|----------|
| X | —  | —  | 0.400 | 0.555    | 0.557    | 0.552    | 0.556    |

## DATA SHEET FOR FLAMEAA RUN

RUN NAME: 0200801A04  
ELEMENT FE

LANCASTER LABORATORIES  
INSTRUMENT ID: 03907

TUBE: 61 MW-94 1/08/02 9:02:04

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|-------|--------|---------|
| 3749350 | *  | 020030820001 | 50.000      | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

| V | RR  | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|---|-----|----|-------|----------|----------|----------|----------|
| — | 106 | —  | 0.500 | 1.317    | 1.315    | 1.312    | 1.323    |

TUBE: 62 MW-94 1/08/02 9:03:01

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF      | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|---------|--------|---------|
| 3749350 | *  | 020030820001 | 2.782       | 10.000 | 0.100   | 100.000 | 50.000 | 50.000  |

| V | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|---|----|----|-------|----------|----------|----------|----------|
| X | —  | —  | 0.400 | 0.376    | 0.375    | 0.377    | 0.375    |

TUBE: 63 MW-9L 1/08/02 9:03:04

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|-------|--------|---------|
| 3749351 | *  | 020030820001 | 1.545       | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

| V | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|---|----|----|-------|----------|----------|----------|----------|
| X | —  | —  | 1.100 | 0.225    | 0.225    | 0.227    | 0.222    |

TUBE: 64 MW104 1/08/02 9:04:00

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|-------|--------|---------|
| 3749352 | *  | 020030820001 | 50.000      | 1.000  | 1.000   | 1.000 | 50.000 | 50.000  |

| V | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|---|----|----|-------|----------|----------|----------|----------|
| — | 40 | —  | 1.600 | 1.236    | 1.242    | 1.214    | 1.253    |

TUBE: 65 MW104 1/08/02 9:04:03

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL | ALIQVOL | DF     | FINVOL | SAMP WT |
|---------|----|--------------|-------------|--------|---------|--------|--------|---------|
| 3749352 | *  | 020030820001 | 1.989       | 10.000 | 0.250   | 40.000 | 50.000 | 50.000  |

| V | RR | RD | % RSD | MEAN ABS | READING1 | READING2 | READING3 |
|---|----|----|-------|----------|----------|----------|----------|
| X | —  | —  | 1.800 | 0.281    | 0.284    | 0.275    | 0.283    |

## DATA SHEET FOR FLAMEAA RUN

RUN NAME: 0200801A04  
ELEMENT FE

LANCASTER LABRATORIES  
INSTRUMENT ID: 03907

TUBE: 66 *mw10L* 1/08/02 9:04:05

| SAMPLE   | QC | BATCH#       | CONC. (ppm) | DILVOL       | ALIQVOL         | DF              | FINVOL          | SAMP WT         |
|----------|----|--------------|-------------|--------------|-----------------|-----------------|-----------------|-----------------|
| 3749353  | *  | 020030820001 | 50.000      | 1.000        | 1.000           | 1.000           | 50.000          | 50.000          |
| <u>V</u> |    | <u>RR</u>    | <u>RD</u>   | <u>% RSD</u> | <u>MEAN ABS</u> | <u>READING1</u> | <u>READING2</u> | <u>READING3</u> |
| —        |    | <u>40</u>    | —           | 1.000        | 1.208           | 1.222           | 1.202           | 1.200           |

TUBE: 67 *mw10L* 1/08/02 9:05:04

| SAMPLE   | QC | BATCH#       | CONC. (ppm) | DILVOL       | ALIQVOL         | DF              | FINVOL          | SAMP WT         |
|----------|----|--------------|-------------|--------------|-----------------|-----------------|-----------------|-----------------|
| 3749353  | *  | 020030820001 | 1.573       | 10.000       | 0.250           | 40.000          | 50.000          | 50.000          |
| <u>V</u> |    | <u>RR</u>    | <u>RD</u>   | <u>% RSD</u> | <u>MEAN ABS</u> | <u>READING1</u> | <u>READING2</u> | <u>READING3</u> |
| <i>X</i> |    | —            | —           | 0.800        | 0.228           | 0.230           | 0.227           | 0.228           |

TUBE: 68 *mw-54* 1/08/02 9:06:00

| SAMPLE   | QC | BATCH#       | CONC. (ppm) | DILVOL       | ALIQVOL         | DF              | FINVOL          | SAMP WT         |
|----------|----|--------------|-------------|--------------|-----------------|-----------------|-----------------|-----------------|
| 3749354  | *  | 020030820001 | 50.000      | 1.000        | 1.000           | 1.000           | 50.000          | 50.000          |
| <u>V</u> |    | <u>RR</u>    | <u>RD</u>   | <u>% RSD</u> | <u>MEAN ABS</u> | <u>READING1</u> | <u>READING2</u> | <u>READING3</u> |
| —        |    | <u>100</u>   | —           | 0.500        | 1.309           | 1.316           | 1.308           | 1.304           |

TUBE: 69 *mw-54* 1/08/02 9:06:03

| SAMPLE   | QC | BATCH#       | CONC. (ppm) | DILVOL       | ALIQVOL         | DF              | FINVOL          | SAMP WT         |
|----------|----|--------------|-------------|--------------|-----------------|-----------------|-----------------|-----------------|
| 3749354  | *  | 020030820001 | 2.533       | 10.000       | 0.100           | 100.000         | 50.000          | 50.000          |
| <u>V</u> |    | <u>RR</u>    | <u>RD</u>   | <u>% RSD</u> | <u>MEAN ABS</u> | <u>READING1</u> | <u>READING2</u> | <u>READING3</u> |
| <i>X</i> |    | —            | —           | 1.100        | 0.346           | 0.351           | 0.344           | 0.345           |

TUBE: 70 1/08/02 9:06:05

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL | ALIQVOL | DF    | FINVOL | SAMP WT |
|--------|----|--------|-------------|--------|---------|-------|--------|---------|
| CCV6   | *  |        | 0.481       | 1.000  | 1.000   | 1.000 | 1.000  | 1.000   |

| <u>% RECOVERY</u> | <u>% RSD</u> | <u>MEAN ABS</u> | <u>READING1</u> | <u>READING2</u> | <u>READING3</u> |
|-------------------|--------------|-----------------|-----------------|-----------------|-----------------|
| 96.2              | 3.700        | 0.077           | 0.080           | 0.075           | 0.076           |

## DATA SHEET FOR FLAMEAA RUN

RUN NAME: 0200801A04  
ELEMENT FE

LANCASTER LABORATORIES  
INSTRUMENT ID: 03907

TUBE: 71 1/08/02 9:07:01

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL   | ALIQVOL  | DF       | FINVOL   | SAMP WT |
|--------|----|--------|-------------|----------|----------|----------|----------|---------|
| CCB6   | *  |        | 0.023       | 1.000    | 1.000    | 1.000    | 1.000    | 1.000   |
|        |    |        | %RSD        | MEAN ABS | READING1 | READING2 | READING3 |         |
|        |    |        | 38.700      | 0.004    | 0.006    | 0.003    | 0.004    |         |

TUBE: 72 MW-5M 1/08/02 9:08:02

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL   | ALIQVOL  | DF       | FINVOL   | SAMP WT |
|---------|----|--------------|-------------|----------|----------|----------|----------|---------|
| 3749355 | *  | 020030820001 | 50.000      | 1.000    | 1.000    | 1.000    | 50.000   | 50.000  |
| V       | RR | RD           | % RSD       | MEAN ABS | READING1 | READING2 | READING3 |         |
| —       | 10 | —            | 0.500       | 0.847    | 0.842    | 0.848    | 0.851    |         |

TUBE: 73 MW-5M 1/08/02 9:09:05

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL   | ALIQVOL  | DF       | FINVOL   | SAMP WT |
|---------|----|--------------|-------------|----------|----------|----------|----------|---------|
| 3749355 | *  | 020030820001 | 0.870       | 10.000   | 1.000    | 10.000   | 50.000   | 50.000  |
| V       | RR | RD           | % RSD       | MEAN ABS | READING1 | READING2 | READING3 |         |
| X       | —  | —            | 1.900       | 0.134    | 0.134    | 0.137    | 0.131    |         |

TUBE: 74 MW-5L 1/08/02 9:10:02

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL   | ALIQVOL  | DF       | FINVOL   | SAMP WT |
|---------|----|--------------|-------------|----------|----------|----------|----------|---------|
| 3749356 | *  | 020030820001 | 0.821       | 1.000    | 1.000    | 1.000    | 50.000   | 50.000  |
| V       | RR | RD           | % RSD       | MEAN ABS | READING1 | READING2 | READING3 |         |
| X       | —  | —            | 1.700       | 0.127    | 0.125    | 0.129    | 0.127    |         |

TUBE: 75 FIELD 1/08/02 9:11:00

| SAMPLE  | QC | BATCH#       | CONC. (ppm) | DILVOL   | ALIQVOL  | DF       | FINVOL   | SAMP WT |
|---------|----|--------------|-------------|----------|----------|----------|----------|---------|
| 3749357 | *  | 020030820001 | 0.027       | 1.000    | 1.000    | 1.000    | 50.000   | 50.000  |
| V       | RR | RD           | % RSD       | MEAN ABS | READING1 | READING2 | READING3 |         |
| X       | —  | —            | 37.200      | 0.005    | 0.007    | 0.003    | 0.005    |         |

## DATA SHEET FOR FLAMEAA RUN

RUN NAME: 0200801A04  
ELEMENT FELANCASTER LABRATORIES  
INSTRUMENT ID: 03907

TUBE: 76 1/08/02 9:11:02

| SAMPLE     | QC | BATCH# | CONC. (ppm) | DILVOL   | ALIQVOL  | DF       | FINVOL   | SAMP WT |
|------------|----|--------|-------------|----------|----------|----------|----------|---------|
| CCV7       | *  |        | 0.478       | 1.000    | 1.000    | 1.000    | 1.000    | 1.000   |
| % RECOVERY |    |        | % RSD       | MEAN ABS | READING1 | READING2 | READING3 |         |
| 95.6       |    |        | 3.800       | 0.076    | 0.079    | 0.074    | 0.076    |         |

TUBE: 77 1/08/02 9:11:04

| SAMPLE | QC | BATCH# | CONC. (ppm) | DILVOL   | ALIQVOL  | DF       | FINVOL | SAMP WT |
|--------|----|--------|-------------|----------|----------|----------|--------|---------|
| CCB7   | *  |        | 0.008       | 1.000    | 1.000    | 1.000    | 1.000  | 1.000   |
| %RSD   |    |        | MEAN ABS    | READING1 | READING2 | READING3 |        |         |
| 99.900 |    |        | 0.001       | 0.004    | 0.001    | 0.000    |        |         |

Reviewer's Signature D. Blount 354Date 1-08-02Verifier's Signature RDG-114Date 1/8/02

# Extraction/Distillation/Digestion Logs

Digest Type: AA/ICP/GF(Sb)-SW846  
COC (Y/N): Y

Start Time [24:00] ON Hotplate/IN HotBlock: 0843  
EndTime [24:00] OFF Hotplate/OUT of HotBlock: 0932  
[May include time for cooling, reagent additions, etc.]

Batch #

|   |   |   |   |
|---|---|---|---|
| 3 | 0 | 0 | 0 |
|---|---|---|---|

|   |
|---|
| ○ |
| 8 |
| 8 |
| ○ |

|   |   |   |
|---|---|---|
| 0 | 0 | 1 |
|---|---|---|

| Sample # | T | Initial Vol (mL) | Final Vol (mL) | SDG # | AA<br>(A) | ICP<br>(I) | GF<br>(G) |
|----------|---|------------------|----------------|-------|-----------|------------|-----------|
| 374 9340 | 1 | 50               | 50             | HuLO3 | A         | +          | +         |
| 9341     |   |                  |                |       |           | +          | +         |
| 9342     |   |                  |                |       |           | +          | +         |
| 9343     |   |                  |                |       |           | +          | +         |
| 9344     |   |                  |                |       |           | +          | +         |
| 9345 u   |   |                  |                |       |           | +          | +         |
| 9346     |   |                  |                |       |           | +          | +         |
| 9347     |   |                  |                |       |           | +          | +         |
| 9348     |   |                  |                |       |           | +          | +         |
| 9349     |   |                  |                |       |           | +          | +         |
| 9350     |   |                  |                |       |           | +          | +         |
| 9351     |   |                  |                |       |           | +          | +         |
| 9352     |   |                  |                |       |           | +          | +         |
| 9353     |   |                  |                |       |           | +          | +         |
| 9354     |   |                  |                |       |           | +          | +         |
| 9355     |   |                  |                |       |           | +          | +         |
| 9356     |   |                  |                |       |           | +          | +         |
| 9357     |   |                  |                |       |           | +          | +         |
| 9444     |   |                  |                |       |           | +          | +         |
| 374 9345 | 1 | 50               | 50             | HuLO3 | A         | +          | +         |
| 375 0934 |   |                  |                |       |           | +          | +         |
| 0935     |   |                  |                |       |           | +          | +         |
| BLANK    |   |                  |                |       |           | +          | +         |

Blank and LCS(s) final volumes are the same.

| Sample #     | Spike Information |     |     |     |     |     |        |  |
|--------------|-------------------|-----|-----|-----|-----|-----|--------|--|
|              | Soln ID           | 1   | 2   | 3   | 4   | 5   | 8 (GF) |  |
| 375 0934 (R) | Lot #             | 347 | 339 | 333 | 331 | 348 |        |  |
| 375 0935 (M) | Vol Added (mL)    | 1.0 |     |     |     |     |        |  |
|              | Vol Added (mL)    | 1.0 |     |     |     |     |        |  |
| LCS          |                   |     |     |     |     |     |        |  |
| ICSD         |                   |     |     |     |     |     |        |  |

CC

Digest Date: 01-03-02

Digested By (Init/Emp #): DLC824

1480.01 01/11/01

74 032662

1480a.01 01/11/01

032662 74

# Instrumental Analysis Data



# **Case Narrative Conformance/Nonconformance Summary**



Where quality is a science.

CLIENT: Hull & Associates  
SDG: HUL03

## LANCASTER LABORATORIES

### INSTRUMENTAL WET CHEMISTRY

#### SAMPLE NUMBERS:

| <u>Sample #</u> | <u>Sample Code</u> | <u>Comments</u>        |
|-----------------|--------------------|------------------------|
| 3749340         | AW-3U              | DF25                   |
| 3749341         | AW-3L              | DF25                   |
| 3749342         | MW-8U              |                        |
| 3749343         | MW-8M              |                        |
| 3749344         | MW-8L              |                        |
| 3749345         | AWA1U              | Background ;DF25       |
| 3749346         | AWB1U              |                        |
| 3749347         | AW-1L              | DF25                   |
| 3749348         | AW-2U              | DF10                   |
| 3749349         | AW-2L              | DF25                   |
| 3749350         | MW-9U              | DF10                   |
| 3749351         | MW-9L              |                        |
| 3749352         | MW10U              | DF25                   |
| 3749353         | MW10L              |                        |
| 3749354         | MW-5U              |                        |
| 3749355         | MW-5M              |                        |
| 3749356         | MW-5L              |                        |
| 3749357         | FIELD              | Client Blank           |
| 3750934         | AWA1U              | Spike ; DF25           |
| 3750935         | AWA1U              | Spike Duplicate ; DF25 |
| LCS             |                    | DF5                    |

#### ANALYSIS:

Dilutions for the organic carbon analysis are listed in the comments section above.

#### QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

QC was within specification.

#### DATA INTERPRETATION:

Due to the limitations of the data package software, Form I's are not available for the Instrumental Analysis data. Please refer to the analysis reports for this information.

TOC water (mg/l) = raw result (mg/l) X dilution factor

No further interpretation is necessary for the data submitted.

Case Narrative Reviewed and Approved by:

*Gabriela Rhoads for:*

Date: *2/7/02*

Sandra J. Miller  
Specialist/Coordinator

# QC Summary

# Lancaster Laboratories

Quality Control Summary  
Method Blank  
Instrumental Water Quality  
SDG: HUL03

| Method Blank Analysis |               |             |        |               | Matrix: WATER |               |       |     |     |
|-----------------------|---------------|-------------|--------|---------------|---------------|---------------|-------|-----|-----|
| Parameter             | Sample Number | Sample Code | Method | Analysis Date | Batch Number  | Blank Results | Units | MDL | LOQ |
| TOC                   | 3749340       | AW-3U       | TOC    | 1/4/01        | 02004011112   | ND            | mg/l  | 0.6 | 2   |
|                       | 3749341       | AW-3L       |        |               |               |               |       |     |     |
|                       | 3749342       | MW-8U       |        |               |               |               |       |     |     |
|                       | 3749343       | MW-8M       |        |               |               |               |       |     |     |
|                       | 3749344       | MW-8L       |        |               |               |               |       |     |     |
|                       | 3749345       | AWA1U B     |        |               |               |               |       |     |     |
|                       | 3749346       | AWB1U       |        |               |               |               |       |     |     |
|                       | 3749347       | AW-1L       |        |               |               |               |       |     |     |
|                       | 3749348       | AW-2U       |        |               |               |               |       |     |     |
|                       | 3749349       | AW-2L       |        |               |               |               |       |     |     |
|                       | 3749350       | MW-9U       |        |               |               |               |       |     |     |
|                       | 3749351       | MW-9L       |        |               |               |               |       |     |     |
|                       | 3749352       | MW10U       |        |               |               |               |       |     |     |
|                       | 3749353       | MW10L       |        |               |               |               |       |     |     |
|                       | 3749354       | MW-5U       |        |               |               |               |       |     |     |
|                       | 3749355       | MW-5M       |        |               |               |               |       |     |     |
|                       | 3749356       | MW-5L B,S,M |        |               |               |               |       |     |     |
|                       | 3749357       | FIELD       |        |               |               |               |       |     |     |
|                       | 3750934       | AWA1U S     |        |               |               |               |       |     |     |
|                       | 3750935       | AWA1U M     |        |               |               |               |       |     |     |

Comments: The blank is acceptable when the result is less than the limit of quantitation.

## ABBREVIATION KEY

|                                |                              |
|--------------------------------|------------------------------|
| IC = Ion Chromatography        | < = Less Than                |
| TOC = Total Organic Carbon     | ND = Not Detected            |
| TOX = Total Organic Halogen    | J = Estimated Value < LOQ    |
| TKN = Total Kjeldahl Nitrogen  | MDL = Method Detection Limit |
| AK = Alpkem                    | LOQ = Limit of Quantitation  |
| DOC = Dissolved Organic Carbon | NA = Not Applicable          |
| B = Background                 | * = Out of Specification     |
| S = Spike                      | D = Duplicate                |
| M = Matrix Spike Duplicate     | U = Under                    |
| P = Post Distillation Spike    |                              |

| Sample Info.  | Matrix Spike Analysis |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       | Matrix: WATER |              |  |  |  |
|---------------|-----------------------|--------------|-----------|-----|---------------|------------|------------|-----------|----------------|-----------|------------|-----------------|------------|-------|------------|-------------|-----------------------|---------------|--------------|--|--|--|
| Sample Number | Sample Code           | Batch Number | Parameter | ME  | Analysis Date | BKG Sample | BKG Result | MS Sample | MS Spike Added | MS Result | MSD Sample | MSD Spike Added | MSD Result | Units | MS Rec (%) | MSD Rec (%) | Acceptance Window (%) | RPD (%)       | % RPD Limits |  |  |  |
| 3749340       | AW-3U                 | 02004011112  | TOC       | TOC | 1/4/02        | 3749345    | 423        | 3750934   | 245            | 681       | 3750935    | 245             | 665        | mg/l  | 105        | 99          | 73 - 128              | 2             | 20           |  |  |  |
| 3749341       | AW-3L                 |              |           | TOC | 1/7/02        | 3749356    | 1,286 J    | 3749356   | 9.8            | 10.4      | 3749356    | 9.8             | 10.6       | mg/l  | 93         | 95          | 73 - 128              | 1             | 20           |  |  |  |
| 3749342       | MW-8U                 |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       |               |              |  |  |  |
| 3749343       | MW-8M                 |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       |               |              |  |  |  |
| 3749344       | MW-8L                 |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       |               |              |  |  |  |
| 3749345       | AWA1U                 |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       |               |              |  |  |  |
| 3749346       | AWB1U                 |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       |               |              |  |  |  |
| 3749347       | AW-1L                 |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       |               |              |  |  |  |
| 3749348       | AW-2U                 |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       |               |              |  |  |  |
| 3749349       | AW-2L                 |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       |               |              |  |  |  |
| 3749350       | MW-9U                 |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       |               |              |  |  |  |
| 3749351       | MW-9L                 |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       |               |              |  |  |  |
| 3749352       | MW10U                 |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       |               |              |  |  |  |
| 3749353       | MW10L                 |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       |               |              |  |  |  |
| 3749354       | MW-5U                 |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       |               |              |  |  |  |
| 3749355       | MW-5M                 |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       |               |              |  |  |  |
| 3749356       | MW-5L                 |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       |               |              |  |  |  |
| 3749357       | FIELD                 |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       |               |              |  |  |  |
| 3750934       | AWA1U                 |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       |               |              |  |  |  |
| 3750935       | AWA1U                 |              |           |     |               |            |            |           |                |           |            |                 |            |       |            |             |                       |               |              |  |  |  |

## ABBREVIATION KEY

|                                |                                   |
|--------------------------------|-----------------------------------|
| IC = Ion Chromatography        | < = Less Than                     |
| TOC = Total Organic Carbon     | ND = Not Detected                 |
| TOX = Total Organic Halogen    | ME = Method                       |
| TKN = Total Kjeldahl Nitrogen  | LOQ = Limit of Quantitation       |
| AK = Alpkem                    | * = Out of Specification          |
| DOC = Dissolved Organic Carbon | NA = Not Applicable               |
| RA = Rapid Analyzer            | U = Under                         |
| B = Background                 | P = Post Distillation Spike (PDS) |
| S = Spike                      | D = Duplicate                     |
| MSD = Matrix Spike Duplicate   | J = Estimated Value < LOQ         |

# Lancaster Laboratories

Quality Control Summary  
 Laboratory Control Standard  
 Laboratory Control Standard Duplicate  
 Instrumental Water Quality  
 SDG: HUL03

| Sample Information | Laboratory Control Standards |              |           |               |                     |             |              |       |                  |               |                      |
|--------------------|------------------------------|--------------|-----------|---------------|---------------------|-------------|--------------|-------|------------------|---------------|----------------------|
|                    | Matrix: WATER                |              |           |               |                     |             |              |       |                  |               |                      |
| Sample Number      | Sample Code                  | Batch Number | Parameter | Analysis Date | TRUE LCS/LCSD Value | LCS Results | LCSD Results | Units | Acceptance Range | % RPD Results | % RPD Acceptance </= |
| 3749340            | AW-3U                        | 02004011112  | TOC       | 1/4/02        | 51.8                | 45          | NA           | mg/l  | 44.0 - 59.6      | NA            | NA                   |
| 3749341            | AW-3L                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749342            | MW-8U                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749343            | MW-8M                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749344            | MW-8L                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749345            | AWA1U                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749346            | AWB1U                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749347            | AW-1L                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749348            | AW-2U                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749349            | AW-2L                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749350            | MW-9U                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749351            | MW-9L                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749352            | MW10U                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749353            | MW10L                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749354            | MW-5U                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749355            | MW-5M                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749356            | MW-5L                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749357            | FIELD                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3750934            | AWA1U                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3750935            | AWA1U                        |              |           |               |                     |             |              |       |                  |               |                      |

Std mass: 25.0 ug C  
Calib. Const: 0.05840 ug C/mV

Blank: 8.48705 mv  
Blank: 9.03484 mv  
Blank: 9.37432 mv  
Average: 8.96540 mv

Standard: 425.901 mv  
Standard: 429.780 mv  
Standard: 428.363 mv  
Average: 428.015 mv

Total Organic Carbon  
Instrument Identification: 5214  
Calibration Date: 1/2/02  
Matrix: WATER  
SDG: HUL03

Quality Control Summary  
Initial Calibration & Linearity Check  
Instrument Analysis

| Batch Number | This IC applies to samples: | Sample Code | Analysis # | Method | ICVI  | ICVI  | ICVI  | ICVI   | ICVI   | ICVI |
|--------------|-----------------------------|-------------|------------|--------|-------|-------|-------|--------|--------|------|
| 0200401112   | Blank<br>LCS                |             | 354        | Blank  | 2.107 | 7.375 | 9.943 | 25.094 | 48.522 | 75   |
|              | 3749340                     | AW-3U       |            |        |       |       |       |        |        |      |
|              | 3749341                     | AW-3L       |            |        |       |       |       |        |        |      |
|              | 3749342                     | MW-8U       |            |        |       |       |       |        |        |      |
|              | 3749343                     | MW-8M       |            |        |       |       |       |        |        |      |
|              | 3749344                     | MW-8L       |            |        |       |       |       |        |        |      |
|              | 3749345                     | AWA1U B     |            |        |       |       |       |        |        |      |
|              | 3749346                     | AWB1U       |            |        |       |       |       |        |        |      |
|              | 3749347                     | AW-1L       |            |        |       |       |       |        |        |      |
|              | 3749348                     | AW-2U       |            |        |       |       |       |        |        |      |
|              | 3749349                     | AW-2L       |            |        |       |       |       |        |        |      |
|              | 3749350                     | MW-9U       |            |        |       |       |       |        |        |      |
|              | 3749351                     | MW-9L       |            |        |       |       |       |        |        |      |
|              | 3749352                     | MW10U       |            |        |       |       |       |        |        |      |
|              | 3749353                     | MW10L       |            |        |       |       |       |        |        |      |
|              | 3749354                     | MW-5U       |            |        |       |       |       |        |        |      |
|              | 3749355                     | MW-5M       |            |        |       |       |       |        |        |      |
|              | 3749356                     | MW-5L B.S.M |            |        |       |       |       |        |        |      |
|              | 3749357                     | FIELD       |            |        |       |       |       |        |        |      |
|              | 3750934                     | AWA1U S     |            |        |       |       |       |        |        |      |
|              | 3750935                     | AWA1U M     |            |        |       |       |       |        |        |      |

Units=  
mg/L

Continuing Calibration Dates: 1/4/02, 1/5/02, 1/7/02

Concentration Units: mg/L

| Parameter | Reference Concentration | Result Cont. Cal | % Recovery | Acceptance Range +/- 10% | Out of Specifications |
|-----------|-------------------------|------------------|------------|--------------------------|-----------------------|
| TOC       | 25                      | 24.819           | 99         | 22.375 - 27.6            |                       |
| CCV       | 25                      | 24.360           | 97         | 22.375 - 27.6            |                       |
| CCV       | 25                      | 24.636           | 99         | 22.375 - 27.6            |                       |
| CCV       | 25                      | 24.767           | 99         | 22.375 - 27.6            |                       |
| CCV       | 25                      | 24.861           | 99         | 22.375 - 27.6            |                       |
| CCV       | 25                      | 24.758           | 99         | 22.375 - 27.6            |                       |
| CCV       | 25                      | 24.847           | 99         | 22.375 - 27.6            |                       |
| CCV       | 25                      | 24.794           | 99         | 22.375 - 27.6            |                       |
| CCV       | 25                      | 25.002           | 100        | 22.375 - 27.6            |                       |
| CCV       | 25                      | 24.831           | 99         | 22.375 - 27.6            |                       |
| CCV       | 25                      | 24.593           | 98         | 22.375 - 27.6            |                       |
| CCV       | 25                      | 24.758           | 99         | 22.375 - 27.6            |                       |
| CCV       | 25                      | 24.049           | 96         | 22.375 - 27.6            |                       |
| CCV       | 25                      | 23.636           | 95         | 22.375 - 27.6            |                       |
| CCV       | 25                      | 24.390           | 98         | 22.375 - 27.6            |                       |
| CCV       | 25                      | 24.336           | 97         | 22.375 - 27.6            |                       |
| CCV       | 25                      | 24.031           | 96         | 22.375 - 27.6            |                       |
| CCV       | 25                      | 24.402           | 98         | 22.375 - 27.6            |                       |
| CCV       | 25                      | 24.016           | 96         | 22.375 - 27.6            |                       |

# Dept. 27 MDL/LOQ Values

Date Last Printed: 11/21/01

| Analysis Name                   | Analysis Number     | Method | Calc. MDL | Calc. LOQ | True MDL | True LOQ | Units |
|---------------------------------|---------------------|--------|-----------|-----------|----------|----------|-------|
| Total Kjeldahl Nitrogen (Water) | 0217                | AK     | 0.21      | 0.6       | 0.3      | 1        | mg/l  |
| Nitrite-Nitrogen                | 0219(S)             | AK     | 0.09      | 0.26      | 0.2      | 0.6      | mg/kg |
| Nitrite Nitrogen                | 0219(W)             | AK     | 0.003     | 0.008     | 0.015    | 0.05     | mg/l  |
| Nitrate-Nitrogen                | 0220(S)             | AK     | 0.5       | 1.6       | 0.6      | 1.7      | mg/kg |
| Nitrate Nitrogen                | 0220/7882           | AK     | 0.033     | 0.099     | 0.04     | 0.1      | mg/l  |
| Ammonia Nitrogen                | 0222                | AK     | 0.018     | 0.055     | 0.02     | 0.1      | mg/l  |
| Total Phosphorus                | 0227/0345           | AK     | 0.01      | 0.029     | 0.04     | 0.05     | mg/l  |
| Total Cyanide, EPA              | 0237                | AK     | 0.0007    | 0.0022    | 0.004    | 0.005    | mg/l  |
| Free Cyanide                    | 0241                | AK     | 0.002     | 0.005     | 0.004    | 0.005    | mg/l  |
| Phenol (Water), EPA             | 0434                | AK     | 0.007     | 0.02      | 0.009    | 0.03     | mg/l  |
| Reactive Cyanide                | 1123                | AK     | 15        | 46        | 100      | 100      | mg/kg |
| Total Kjeldahl Nitrogen (Solid) | 1511                | AK     | 116       | 348       | 150      | 500      | mg/kg |
| Soluble Phosphorus              | 1546                | AK     | 0.04      | 0.13      | 0.05     | 0.15     | mg/l  |
| Hydrolyzable Phosphorus         | 1547                | AK     | 0.008     | 0.025     | 0.04     | 0.05     | mg/l  |
| Amenable Cyanide, Waters        | 1549                | AK     | 0.0015    | 0.0045    | 0.004    | 0.005    | mg/l  |
| Phenol (Water), SW-846          | 2393                | AK     | 0.003     | 0.01      | 0.009    | 0.03     | mg/l  |
| CLP Cyanide (IDL)               | 3343/5910           | AK     | 1.4       | 4.2       | 4        | 10       | ug/l  |
| Nitrocellulose, WW              | 370                 | AK     | 500       | 1500      | 500      | 1500     | ug/l  |
| Nitrocellulose, SW              | 371                 | AK     | 60        | 180       | 60       | 180      | mg/kg |
| Total Phosphorus (Solid)        | 5893/5894           | AK     | 5.9       | 17.6      | 10       | 20       | mg/kg |
| Total CN (Solid)                | 5895                | AK     | 0.08      | 0.24      | 0.18     | 0.5      | mg/kg |
| Amenable Cyanide, Solids        | 5898                | AK     | 0.08      | 0.24      | 0.18     | 0.5      | mg/kg |
| Phenol (Solid)                  | 5912                | AK     | 0.16      | 0.49      | 0.2      | 0.7      | mg/kg |
| Total Cyanide, SW-846           | 8255                | AK     | 0.0015    | 0.0045    | 0.004    | 0.005    | mg/l  |
| Chloride                        | 0224                | IC     | 0.07      | 0.2       | 0.3      | 0.4      | mg/l  |
| Sulfate                         | 0228                | IC     | 0.11      | 0.32      | 0.3      | 1        | mg/l  |
| Nitrite-Nitrogen                | 0332/1506           | IC     | 0.009     | 0.026     | 0.08     | 0.1      | mg/l  |
| Nitrate-Nitrogen                | 0368                | IC     | 0.007     | 0.021     | 0.08     | 0.1      | mg/l  |
| Fluoride                        | 1504                | IC     | 0.008     | 0.024     | 0.08     | 0.1      | mg/l  |
| Bromide                         | 1505                | IC     | 0.05      | 0.15      | 0.4      | 0.5      | mg/l  |
| Hexavalent Chromium (Solid)     | 5892                | IC     | 0.12      | 0.36      | 0.2      | 1        | mg/kg |
| Hexavalent Chromium (Water)     | 6467                | IC     | 1.2       | 3.5       | 5        | 10       | ug/l  |
| Orthophosphate                  | 7322                | IC     | 0.15      | 0.46      | 0.35     | 1        | mg/l  |
| Fluoride, Solid                 | 7332                | IC     | 0.22      | 0.67      | 0.8      | 1        | mg/kg |
| Chloride, Solid                 | 7333                | IC     | 0.77      | 2.3       | 3        | 4        | mg/kg |
| Nitrite, Solid                  | 7334                | IC     | 0.11      | 0.34      | 0.8      | 1        | mg/kg |
| Bromide, Solid                  | 7335                | IC     | 0.93      | 2.8       | 4        | 5        | mg/kg |
| Nitrate, Solid                  | 7336                | IC     | 0.25      | 0.75      | 0.8      | 1.5      | mg/kg |
| Orthophosphate, Solid           | 7337                | IC     | 2.2       | 6.6       | 3        | 10       | mg/kg |
| Sulfate, Solid                  | 7338                | IC     | 1.3       | 3.8       | 3        | 10       | mg/kg |
| Titrimetric Cyanide             | 2109                | NA     | 0.58      | 1.7       | 0.6      | 2        | mg/l  |
| Moisture                        | 2111/2118/2121/2353 | RA     | 0.39      | 1.2       | 1.5      | 1.5      | %     |
| Moisture                        | 7116/7119           | RA     | 0.65      | 2         | 2        | 2        | %     |
| Total Carbon                    | 1550                | TC     | 0.09      | 0.26      | 0.6      | 2        | mg/l  |
| TOC (Solid)                     | 0138                | TOC    | 9.8       | 30        | 17       | 50       | mg/kg |
| TOC (Water)                     | 0273/0354           | TOC    | 0.57      | 1.7       | 0.6      | 2        | mg/l  |
| TOC Combustion                  | 2079/0383           | TOC    | 56        | 167       | 60       | 170      | mg/kg |
| Dissolved Organic Carbon        | 7547                | TOC    | 0.57      | 1.7       | 0.6      | 2        | mg/l  |
| TOX (Water)                     | 0574/0555           | TOX    | 3.03      | 9.08      | 4        | 10       | ug/l  |
| TOX (Solid)                     | 1503                | TOX    | 46        | 139       | 50       | 150      | mg/kg |

## LEGEND

AK = Alpkem  
 IC = Ion Chromotography  
 TOC = Total Organic Carbon  
 TOX = Total Organic Halogens  
 TC = Total Carbon  
 RA = Rapid Analyzer

\*NOTE: The MDL and LOQ for moisture are the same to avoid inconsistencies between reporting types.

\*\*NOTE: To obtain values for Total Phosphorus as PO4 (#345, 5894), multiply above values by 3.07

Reported MDL's are based on calculated MDLs for most compounds. Some reported MDLs are set higher based on our experience with specific compounds.

11/21/01



# Raw Data

## Raw Data Notebook

### Total Organic Carbon Analyzer, O.I.

Sample Loop: 1.0 mL Instrument #: 5214

Date: 01-02-02 Analyst: Therese

Calibration Constant: 0.05140 µg C/mv Run #: 

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 0 | 2 | 3 | 6 | 7 | 1 |
|---|---|---|---|---|---|

0 0 2  
0.002  
1/3/02

Standard Mass: 25.0 µg C

| Sample Number | Raw Result (mg/L) | DF | Calc. Result (mg/L) | Trial # | Inj. # | Time | Batch Number | SDG | Comments            |
|---------------|-------------------|----|---------------------|---------|--------|------|--------------|-----|---------------------|
| BLANK         | 8.48705 mV        |    |                     |         | 1      |      |              |     | Slope = 0.97057     |
|               | 9.03484 mV        |    |                     |         | 2      |      |              |     | Intercept = 0.25241 |
|               | 9.31432 mV        |    |                     |         | 3      |      |              |     | Correct = 0.99871   |
| 25 CAL STD    | 425.901 mV        |    |                     |         | 4      |      |              |     |                     |
|               | 429.780 mV        |    |                     |         | 5      |      |              |     |                     |
|               | 425.363 mV        |    |                     |         | 6      |      |              |     |                     |
|               |                   |    |                     |         | 7      |      |              |     |                     |
| 25 CAL STD    | 425.901 mV        |    |                     |         | 8      |      |              |     |                     |
|               | 429.780 mV        |    |                     |         | 9      |      |              |     |                     |
|               | 425.363 mV        |    |                     |         | 10     |      |              |     |                     |
|               |                   |    |                     |         | 11     |      |              |     |                     |
|               |                   |    |                     |         | 12     |      |              |     |                     |
|               |                   |    |                     |         | 13     |      |              |     |                     |
|               |                   |    |                     |         | 14     |      |              |     |                     |
|               |                   |    |                     |         | 15     |      |              |     |                     |
|               |                   |    |                     |         | 16     |      |              |     |                     |
|               |                   |    |                     |         | 17     |      |              |     |                     |
|               |                   |    |                     |         | 18     |      |              |     |                     |
|               |                   |    |                     |         | 19     |      |              |     |                     |
|               |                   |    |                     |         | 20     |      |              |     |                     |
|               |                   |    |                     |         | 21     |      |              |     |                     |
|               |                   |    |                     |         | 22     |      |              |     |                     |
|               |                   |    |                     |         | 23     |      |              |     |                     |
|               |                   |    |                     |         | 24     |      |              |     |                     |
|               |                   |    |                     |         | 25     |      |              |     |                     |
|               |                   |    |                     |         | 26     |      |              |     |                     |
|               |                   |    |                     |         | 27     |      |              |     |                     |
|               |                   |    |                     |         | 28     |      |              |     |                     |
|               |                   |    |                     |         | 29     |      |              |     |                     |
|               |                   |    |                     |         | 30     |      |              |     |                     |
|               |                   |    |                     |         | 31     |      |              |     |                     |
|               |                   |    |                     |         | 32     |      |              |     |                     |
|               |                   |    |                     |         | 33     |      |              |     |                     |
|               |                   |    |                     |         | 34     |      |              |     |                     |
|               |                   |    |                     |         | 35     |      |              |     |                     |
|               |                   |    |                     |         | 36     |      |              |     |                     |
|               |                   |    |                     |         | 37     |      |              |     |                     |
|               |                   |    |                     |         | 38     |      |              |     |                     |
|               |                   |    |                     |         | 39     |      |              |     |                     |
|               |                   |    |                     |         | 40     |      |              |     |                     |
|               |                   |    |                     |         | 41     |      |              |     |                     |
|               |                   |    |                     |         | 42     |      |              |     |                     |
|               |                   |    |                     |         | 43     |      |              |     |                     |
|               |                   |    |                     |         | 44     |      |              |     |                     |
|               |                   |    |                     |         | 45     |      |              |     |                     |
|               |                   |    |                     |         | 46     |      |              |     |                     |
|               |                   |    |                     |         | 47     |      |              |     |                     |
|               |                   |    |                     |         | 48     |      |              |     |                     |
|               |                   |    |                     |         | 49     |      |              |     |                     |
|               |                   |    |                     |         | 50     |      |              |     |                     |
|               |                   |    |                     |         | 51     |      |              |     |                     |
|               |                   |    |                     |         | 52     |      |              |     |                     |
|               |                   |    |                     |         | 53     |      |              |     |                     |
|               |                   |    |                     |         | 54     |      |              |     |                     |
|               |                   |    |                     |         | 55     |      |              |     |                     |
|               |                   |    |                     |         | 56     |      |              |     |                     |
|               |                   |    |                     |         | 57     |      |              |     |                     |
|               |                   |    |                     |         | 58     |      |              |     |                     |
|               |                   |    |                     |         | 59     |      |              |     |                     |
|               |                   |    |                     |         | 60     |      |              |     |                     |
|               |                   |    |                     |         | 61     |      |              |     |                     |
|               |                   |    |                     |         | 62     |      |              |     |                     |
|               |                   |    |                     |         | 63     |      |              |     |                     |
|               |                   |    |                     |         | 64     |      |              |     |                     |
|               |                   |    |                     |         | 65     |      |              |     |                     |
|               |                   |    |                     |         | 66     |      |              |     |                     |
|               |                   |    |                     |         | 67     |      |              |     |                     |
|               |                   |    |                     |         | 68     |      |              |     |                     |
|               |                   |    |                     |         | 69     |      |              |     |                     |
|               |                   |    |                     |         | 70     |      |              |     |                     |
|               |                   |    |                     |         | 71     |      |              |     |                     |
|               |                   |    |                     |         | 72     |      |              |     |                     |
|               |                   |    |                     |         | 73     |      |              |     |                     |
|               |                   |    |                     |         | 74     |      |              |     |                     |
|               |                   |    |                     |         | 75     |      |              |     |                     |
|               |                   |    |                     |         | 76     |      |              |     |                     |
|               |                   |    |                     |         | 77     |      |              |     |                     |
|               |                   |    |                     |         | 78     |      |              |     |                     |
|               |                   |    |                     |         | 79     |      |              |     |                     |
|               |                   |    |                     |         | 80     |      |              |     |                     |
|               |                   |    |                     |         | 81     |      |              |     |                     |
|               |                   |    |                     |         | 82     |      |              |     |                     |
|               |                   |    |                     |         | 83     |      |              |     |                     |
|               |                   |    |                     |         | 84     |      |              |     |                     |
|               |                   |    |                     |         | 85     |      |              |     |                     |
|               |                   |    |                     |         | 86     |      |              |     |                     |
|               |                   |    |                     |         | 87     |      |              |     |                     |
|               |                   |    |                     |         | 88     |      |              |     |                     |
|               |                   |    |                     |         | 89     |      |              |     |                     |
|               |                   |    |                     |         | 90     |      |              |     |                     |
|               |                   |    |                     |         | 91     |      |              |     |                     |
|               |                   |    |                     |         | 92     |      |              |     |                     |
|               |                   |    |                     |         | 93     |      |              |     |                     |
|               |                   |    |                     |         | 94     |      |              |     |                     |
|               |                   |    |                     |         | 95     |      |              |     |                     |
|               |                   |    |                     |         | 96     |      |              |     |                     |
|               |                   |    |                     |         | 97     |      |              |     |                     |
|               |                   |    |                     |         | 98     |      |              |     |                     |
|               |                   |    |                     |         | 99     |      |              |     |                     |
|               |                   |    |                     |         | 100    |      |              |     |                     |

Verified by: Therese Date: 1/3/02

## Raw Data Notebook

### Total Organic Carbon Analyzer, O.I.

Sample Loop: 1.0 mL Instrument #: 5214

Date: 01-04-02 Analyst: JHE

Calibration Constant: 0.05846 µg C/mv Run #: 

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 0 | 2 | 0 | 0 | 2 | 1 |
|---|---|---|---|---|---|

Standard Mass: 25.0 µg C

| Sample Number | Raw Result (mg/L) | DF              | Calc. Result (mg/L) | Trial #      | Inj. # | Time | Batch Number   | SDG   | Comments             |
|---------------|-------------------|-----------------|---------------------|--------------|--------|------|----------------|-------|----------------------|
| J75 ZJ2-K     | 2.212             | 1               | 2.3                 | <del>1</del> | 231    | 0745 | 02004 0111 11A |       |                      |
| ZJ2-D         | 2.019             | 1               | 2.1                 | <del>1</del> | 232    | 0753 |                |       | 7D.                  |
| ZJ2-R         | 10.884            | 10mL 2mL 500ppm | 10.9                | <del>1</del> | 233    | 0801 |                |       | 19.8mg/L, 100 = 88.1 |
| ZJ54          | 2.411             | 1               | 2.5                 | <del>1</del> | 234    | 0810 |                |       |                      |
| ✓ ZJ55        | 1.252             | 1               | 1.252               | <del>1</del> | 235    | 0818 |                | ✓     |                      |
| LCV           | 24.554            |                 | Ⓟ                   |              | 236    | 0826 |                |       | 100 = 98.1           |
| LCB           | 0.274             |                 | ↓                   |              | 237    | 0834 |                |       |                      |
| Filter Blank  | 2.039             | 1               | 2.039               | 1            | 238    | 0842 |                |       | CA#1412              |
| J75 ZJ73      | 2.458             | 1               | 2.5                 | <del>1</del> | 239    | 0850 | 02004 0111 11A |       |                      |
| J654          | 2.067             | 1               | 2.1                 | <del>1</del> | 240    | 0858 |                |       |                      |
| J656          | 8.658             | 1               | 8.7                 | <del>1</del> | 241    | 0906 |                |       |                      |
| J657          | 2.411             | 1               | 2.4                 | <del>1</del> | 242    | 0914 |                |       |                      |
| ✓ J658        | 9.059             | 1               | 9.1                 | <del>1</del> | 243    | 0922 |                | ✓     |                      |
| LCV           | 24.819            |                 | Ⓟ                   |              | 244    | 0930 |                |       | 100 = 99.1           |
| LCB           | 0.464             |                 | ↓                   |              | 245    | 0938 |                |       |                      |
| PBW           | 1.729             | 1               | 0.729 Ⓟ             | <del>1</del> | 246    | 0952 | 02004 0111 12A |       |                      |
| 165H          | 8.977             | 5x              | 45. ↓               | <del>1</del> | 247    | 1000 |                |       | 51.8mg/L 100 = 87.1  |
| J74 9340 (A)  | 152.350           |                 | OR                  |              | 248    | 1008 |                | HPLC3 | 100 = 80.1           |
| (B)           | 159.454           |                 |                     |              | 249    | 1016 |                |       |                      |
| (C)           | 152.767           |                 |                     |              | 250    | 1024 |                |       |                      |
| (D)           | 157.242           |                 | ✓                   |              | 251    | 1032 |                |       |                      |
| J74 9341 (A)  | 1.267             |                 |                     |              | 252    | 1049 |                |       | 0.0001402            |
| Time (B)      | 0.575             |                 |                     |              | 253    | 1157 |                | ✓     |                      |

Verified by: JHE Date: 1/07/02

# Raw Data Notebook

## Total Organic Carbon Analyzer, O.I.

Sample Loop: 1.0 mL Instrument #: 5214

Date: 01-04-02 Analyst: JH

Calibration Constant: 0.05840 µg C/mv Run #: 

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1 | 2 | 0 | 0 | 2 | 1 |
|---|---|---|---|---|---|

Standard Mass: 75.0 µg C

| Sample Number | Raw Result (mg/L) | DF  | Calc. Result (mg/L) | Trial # | Inj. # | Time | Batch Number  | SDG    | Comments  |
|---------------|-------------------|-----|---------------------|---------|--------|------|---------------|--------|-----------|
| J74 9341 (A)  | 0.45              |     |                     |         | 154    | 114  | 02004 014 12A | HML 03 | BC 01     |
| (B)           | 0.231             |     |                     |         | 255    | 1114 | ↓             | ↓      | ↓         |
| CV            | 24.360            |     | Ⓟ                   |         | 282    | 1223 |               |        | 10 = 99.2 |
| CB            | 0.384             |     | ↓                   |         | 287    | 1251 |               |        |           |
| J74 9342 (A)  | 0.686             | 75x | < 3x LGR            | 1       | 281    | 1279 | 02004 014 12A | HML 03 | BC 01     |
| (B)           | 2.322             | ↓   | ↓                   | ↓       | 285    | 1247 |               |        |           |
| (C)           | 0.842             | ↓   | ↓                   | ↓       | 266    | 1255 |               |        |           |
| (D)           | 0.542             | ↓   | ↓                   | ↓       | 261    | 1303 |               |        |           |
| J74 9343 (A)  | 0.22              | 75x | < 3x LGR            | 1       | 222    | 1311 |               |        |           |
| (B)           | 0.700             | ↓   | ↓                   | ↓       | 265    | 1319 |               |        |           |
| (C)           | 0.159             | ↓   | ↓                   | ↓       | 267    | 1327 |               |        |           |
| (D)           | 0.205             | ↓   | ↓                   | ↓       | 265    | 1335 | ↓             | ↓      | ↓         |
| CV            | 24.636            |     | Ⓟ                   |         | 266    | 1347 |               |        | 10 = 99.2 |
| CB            | 0.255             |     | ↓                   |         | 267    | 1352 |               |        |           |
| J74 9344 (A)  | 0.226             | 75x | < 2 LGR             | 1       | 262    | 1400 | 02004 014 12A | HML 03 | BC 01     |
| (B)           | 0.257             | ↓   | ↓                   | ↓       | 268    | 1408 |               |        |           |
| (C)           | 0.226             | ↓   | ↓                   | ↓       | 270    | 1416 |               |        |           |
| (D)           | 0.242             | ↓   | ↓                   | ↓       | 271    | 1424 |               |        |           |
| J74 9345 (A)  | 14.665            | 25x |                     | 1       | 272    | 1432 |               |        |           |
| (B)           | 14.925            |     | 423. X              | ↓       | 273    | 1440 |               |        |           |
| (C)           | 17.029            | ↓   |                     | ↓       | 274    | 1448 | ↓             | ↓      | ↓         |
| (D)           | 17.014            | ↓   |                     | ↓       | 275    | 1452 |               |        |           |
| CV            | 24.207            |     | Ⓟ                   |         | 276    | 1504 |               |        | 10 = 99.2 |

Verified by: JH Date: 1/7/02

# Raw Data Notebook

## Total Organic Carbon Analyzer, O.I.

Sample Loop: 1.0 mL Instrument #: 5214

Date: 6/14/02 Analyst: DM

Calibration Constant: 1.1584 µg C/mv Run #: 

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 0 | 2 | 0 | 0 | 2 | 1 |
|---|---|---|---|---|---|

Standard Mass: 75.0 µg C

| Sample Number | Raw Result (mg/L) | DF                        | Calc. Result (mg/L) | Trial # | Inj. # | Time | Batch Number   | SDG   | Comments                           |
|---------------|-------------------|---------------------------|---------------------|---------|--------|------|----------------|-------|------------------------------------|
| 108           | 0.433             | 67000<br>1.44             |                     |         | 277    | 1512 |                |       |                                    |
| J7509J4R      | 27.156            | 0.1584<br>(250)<br>1.1584 |                     | 1       | 278    | 1520 | 02004 0111 12A | HMC03 | +245. mg/L, R <sub>2</sub> = 105.1 |
| (B)           | 27.288            |                           | 681.                | X       | 279    | 1529 |                |       |                                    |
| (C)           | 27.167            |                           |                     |         | 280    | 1537 |                |       |                                    |
| (D)           | 27.367            |                           |                     |         | 281    | 1545 |                |       |                                    |
| J7509J5M      | 26.489            | 0.1584<br>(250)<br>1.1584 |                     | 1       | 282    | 1553 |                |       | +245. mg/L, R <sub>2</sub> = 99.1  |
| (B)           | 26.799            |                           | 665.                | X       | 283    | 1601 |                |       |                                    |
| (C)           | 26.404            |                           |                     |         | 284    | 1609 |                |       | R <sub>2</sub> = 2.0               |
| (D)           | 26.742            |                           |                     |         | 285    | 1617 |                |       |                                    |
| 108           | 24.821            |                           | (B)                 |         | 286    | 1625 |                |       | R <sub>2</sub> = 99.1              |
| 108           | 0.514             |                           |                     |         | 287    | 1633 |                |       |                                    |
| J749J4L       | 16.319            | 75x                       |                     | 1       | 288    | 1641 | 02004 0111 12A | HMC03 | R <sub>2</sub> = 0.1               |
| (B)           | 16.166            |                           | 407.                | X       | 289    | 1649 |                |       |                                    |
| (C)           | 16.311            |                           |                     |         | 290    | 1657 |                |       |                                    |
| (D)           | 16.286            |                           |                     |         | 291    | 1704 |                |       |                                    |
| J749J47       | 10.663            | 75x                       |                     | 1       | 292    | 1714 |                |       |                                    |
| (B)           | 10.531            |                           | 265                 | X       | 293    | 1722 |                |       |                                    |
| (C)           | 10.766            |                           |                     |         | 294    | 1730 |                |       |                                    |
| (D)           | 10.520            |                           |                     |         | 295    | 1738 |                |       |                                    |
| 108           | 24.758            |                           | (B)                 |         | 296    | 1746 |                |       | R <sub>2</sub> = 99.1              |
| 108           | 0.548             |                           |                     |         | 297    | 1754 |                |       |                                    |
| J749J48       | 4.703             | 75x                       | 3x 100              | 1       | 298    | 1802 | 02004 0111 12A | HMC03 | gross R <sub>2</sub> = 0.1         |
| (D)           | 4.467             |                           |                     |         | 299    | 1810 |                |       |                                    |

Verified by: DM Date: 6/17/02

# Raw Data Notebook

## Total Organic Carbon Analyzer, O.I.

Sample Loop: 1.0 mL Instrument #: 5214

Date: 11-14-02 Analyst: JPM

Calibration Constant: 1.0584 µg C/mv Run #: 

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|

Standard Mass: 75.0 µg C

| Sample Number | Raw Result (mg/L) | DF  | Calc. Result (mg/L) | Trial # | Inj. # | Time | Batch Number   | SDG   | Comments |
|---------------|-------------------|-----|---------------------|---------|--------|------|----------------|-------|----------|
| J749345 (C)   | 4.612             | 75x | < 3x10 <sup>6</sup> | 1       | 310    | 1815 | 02004 0111 124 | HPL03 | 3001     |
| (D)           | 4.572             | ↓   | ↓                   | ↓       | 301    | 1826 |                |       |          |
| J749349 (A)   | 21.824            | 75x |                     | 1       | 312    | 1834 |                |       |          |
| (B)           | 21.718            | ↓   | 54.1                | X       | 313    | 1843 |                |       |          |
| (C)           | 21.897            | ↓   |                     |         | 314    | 1851 |                |       |          |
| (D)           | 21.897            | ↓   |                     | ↓       | 315    | 1859 |                |       |          |
| (CV)          | 24.847            |     | (B)                 |         | 316    | 1907 |                |       | 16-99.1  |
| (CB)          | 0.509             |     | ↓                   |         | 317    | 1915 |                |       |          |
| J749350 (A)   | 4.061             | 75x | < 3x10 <sup>6</sup> | 1       | 318    | 1923 | 02004 0111 128 | HPL03 | 3001     |
| (B)           | 4.079             | ↓   | ↓                   | ↓       | 319    | 1931 |                |       |          |
| (C)           | 4.056             | ↓   | ↓                   | ↓       | 316    | 1937 |                |       |          |
| (D)           | 4.182             | ↓   | ↓                   | ↓       | 311    | 1947 |                |       |          |
| J749351 (A)   | 0.948             | 75x | < 3x10 <sup>6</sup> | 1       | 312    | 1955 |                |       |          |
| (B)           | 0.886             | ↓   | ↓                   | ↓       | 310    | 2003 |                |       |          |
| (C)           | 0.835             | ↓   | ↓                   | ↓       | 314    | 2011 |                |       |          |
| (D)           | 0.910             | ↓   | ↓                   | ↓       | 315    | 2020 |                |       |          |
| (CV)          | 74.724            |     | (B)                 |         | 316    | 2028 |                |       | 16-92.1  |
| (CB)          | 1.531             |     | ↓                   |         | 317    | 2036 |                |       |          |
| J749352 (A)   | 1.553             | 75x | < 3x10 <sup>6</sup> | 1       | 318    | 2044 | 02004 0111 128 | HPL03 | 3001     |
| (B)           | 1.557             | ↓   | ↓                   | ↓       | 319    | 2052 |                |       |          |
| (C)           | 1.520             | ↓   | ↓                   | ↓       | 320    | 2100 |                |       |          |
| (D)           | 1.555             | ↓   | ↓                   | ↓       | 321    | 2108 |                |       |          |
| J749353 (A)   | 10.937            | 75x |                     | 1       | 322    | 2116 |                |       |          |

Verified by: JPM

Date: 1/7/02

## Raw Data Notebook

### Total Organic Carbon Analyzer, O.I.

Sample Loop: 1.0 mL Instrument #: 8214

Date: 01-04-02 - 01-05-02 Analyst: JDA

Calibration Constant: 0.05840 µg C/mv Run #: 

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 0 | 2 | 0 | 0 | 2 | 1 |
|---|---|---|---|---|---|

Standard Mass: 20.0 µg C

| Sample Number | Raw Result (mg/L) | DF             | Calc. Result (mg/L) | Trial # | Inj. # | Time | Batch Number  | SDG    | Comments |
|---------------|-------------------|----------------|---------------------|---------|--------|------|---------------|--------|----------|
| J749353 (B)   | 11.135            | 25x            | 277. X              | 1       | J23    | 2124 | 02004 011 128 | HHL 03 | B.C.     |
| (C)           | 11.128            | ↓              |                     | ↓       | J24    | 2122 | ↓             | ↓      |          |
| (D)           | 11.088            | ↓              |                     | ↓       | J25    | 2140 | ↓             | ↓      |          |
| PCV           | 25.002            |                | (B)                 |         | J26    | 2148 |               |        | 100% 1   |
| PCB           | 0.559             |                | ↓                   |         | J27    | 2157 |               |        |          |
| J749354 (A)   | 0.594             | 25x            | < 3x LOD            | 1       | J21    | 2205 | 02004 011 128 | HHL 03 | B.C.     |
| (B)           | 0.542             | ↓              |                     | ↓       | J25    | 2213 |               | ↓      |          |
| (C)           | 0.452             | ↓              |                     | ↓       | J26    | 2221 |               | ↓      |          |
| (D)           | 0.650             | ↓              |                     | ↓       | J21    | 2229 |               | ↓      |          |
| J749355 (A)   | 0.427             | 25x            | < 3x LOD            | 1       | J22    | 2237 |               | ↓      | ↓        |
| (B)           | 0.523             | ↓              |                     | ↓       | J23    | 2245 |               | ↓      |          |
| (C)           | 0.606             | ↓              |                     | ↓       | J24    | 2253 |               | ↓      |          |
| (D)           | 0.595             | ↓              |                     | ↓       | J25    | 2301 | ↓             | ↓      |          |
| PCV           | 24.831            |                | (B)                 |         | J24    | 2309 |               |        | 100% 1   |
| PCB           | 0.495             |                | ↓                   |         | J27    | 2317 |               |        |          |
| J749356 (A)   | 0.410             | 25x            | < 3x LOD            | 1       | J28    | 2325 | 02004 011 128 | HHL 03 | B.C.     |
| (B)           | 0.438             | ↓              |                     | ↓       | J29    | 2334 |               | ↓      |          |
| (C)           | 0.396             | ↓              |                     | ↓       | J30    | 2342 |               | ↓      |          |
| (D)           | 0.340             | ↓              |                     | ↓       | J31    | 2350 |               | ↓      |          |
| J749356 R     | 11.136            | 10m (15m) 1.2m | (1) rev             | 1       | J32    | 2358 |               |        |          |
| ↓ J356 M      | 11.474            | ↓              | ↓                   | 1       | J33    | 0002 | 1/5/02        |        |          |
| J749357 (A)   | 0.631             | 1x             | < 3x LOD 0.7-0.2    | 1       | J34    | 0014 |               |        | 0424     |
| (B)           | 0.502             | ↓              |                     | ↓       | J35    | 0022 | ↓             | ↓      |          |

Verified by: JDA

Date: 1/8/02

# Raw Data Notebook

## Total Organic Carbon Analyzer, O.I.

Sample Loop: 1.0 mL Instrument #: 5214

Date: 01-05-02 Analyst: JMR

Calibration Constant: 0.158% µg C/mv Run #: 

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 0 | 2 | 0 | 0 | 2 | 1 |
|---|---|---|---|---|---|

Standard Mass: 25.0 µg C

| Sample Number | Raw Result (mg/L) | DF  | Calc. Result (mg/L) | Trial # | Inj. # | Time | Batch Number | SDG    | Comments |
|---------------|-------------------|-----|---------------------|---------|--------|------|--------------|--------|----------|
| J749357 (G)   | 0.544             | 1x  |                     | 1       | J74    | 0030 | 02004 011128 | H2C O3 | BC OI    |
| (D)           | 0.424             | ↓   |                     | ↓       | J70    | 0038 | ↓            | ↓      | ↓        |
| LEV           | 24.523            |     | Ⓟ                   |         | J78    | 0046 |              |        | 10.98.2  |
| LOB           | 0.444             |     | Ⓟ                   |         | J76    | 0054 |              |        |          |
| J749346 (A)   | 8.898             | 25x |                     | 2       | J50    | 0102 | 02004 011128 | H2C O3 | BC OI    |
| (D)           | 8.994             | ↓   | 222.                | X       | J51    | 0111 |              |        |          |
| (C)           | 8.743             | ↓   |                     | ↓       | J52    | 0119 |              |        |          |
| (D)           | 8.852             | ↓   |                     | ↓       | J53    | 0127 |              |        |          |
| J749341 (A)   | 14.836            | 25x |                     | 1       | J51    | 0135 |              |        |          |
| (D)           | 14.974            | ↓   | J74.                | X       | J55    | 0143 |              |        |          |
| (A)           | 14.947            | ↓   |                     | ↓       | J56    | 0151 |              |        |          |
| (D)           | 15.043            | ↓   |                     | ↓       | J57    | 0159 |              |        |          |
| LEV           | 24.758            |     | Ⓟ                   |         | J57    | 0207 |              |        | 10.99.2  |
| LOB           | 0.605             |     | Ⓟ                   |         | J57    | 0215 |              |        |          |
| TIME          |                   |     |                     |         | J60    |      |              |        |          |
| TIME          |                   |     |                     |         | J61    |      |              |        |          |
| TIME          |                   |     |                     |         | J62    |      |              |        |          |
| LEV           |                   |     |                     |         | J63    |      |              |        | 10.9.2   |
| LOB           |                   |     |                     |         | J64    |      |              |        |          |

Verified by: JMR Date: 1/5/02 ⑧ JPM NEW BOOK 17-027



# Raw Data Notebook

## Total Organic Carbon Analyzer, O.I.

Sample Loop: 1.0 mL Instrument #: 5214

Date: 01.07.02 Analyst: JTS/jll

Calibration Constant: 0.05840 µg C/mv Run #: 

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 0 | 2 | 0 | 0 | 2 | 1 |
|---|---|---|---|---|---|

Standard Mass: 25.0 µg C

| Sample Number | Raw Result (mg/L) | DF  | Calc. Result (mg/L) | Trial # | Inj. # | Time | Batch Number   | SDG    | Comments         |
|---------------|-------------------|-----|---------------------|---------|--------|------|----------------|--------|------------------|
| RINSE         | 0.048             |     | 0.048               |         | J60    | 1048 |                |        |                  |
| RINSE         | 0.237             |     | 0.237               |         | J61    | 1052 |                |        |                  |
| RINSE         | 0.111             |     | 0.111               |         | J62    | 1104 |                |        |                  |
| REV           | 24.049            |     | Ⓟ                   |         | J63    | 1112 |                |        | 100 = 96.1       |
| CLB           | -0.077            |     | ↓                   |         | J64    | 1120 |                |        |                  |
| J74 9342 (A)  | 17.975            | 1x  |                     | 2       | J65    | 1311 | 02002 0111 12A | HUL 03 | 10001 10.3 80 01 |
| (B)           | 8.010             | ↓   | 10.4                | ✓       | J66    | 1319 |                |        |                  |
| (C)           | 6.314             | ↓   |                     | ↓       | J67    | 1327 |                |        |                  |
| (D)           | 9.173             | ↓   |                     | ↓       | J68    | 1335 |                |        |                  |
| J74 9343 (A)  | 2.542             | 1x  |                     | 2       | J69    | 1343 |                |        |                  |
| (B)           | 2.546             | ↓   | 2.7                 | X       | J70    | 1351 |                |        |                  |
| (C)           | J.701             | ↓   |                     | ↓       | J71    | 1359 |                |        |                  |
| (D)           | 2.199             | ↓   |                     | ↓       | J72    | 1407 |                |        |                  |
| REV           | 23.636            |     | Ⓟ                   |         | J73    | 1415 |                |        | 100 = 95.1       |
| CLB           | 0.500             |     | ↓                   |         | J74    | 1423 |                |        |                  |
| J74 9344 (A)  | 1.426             | 1x  |                     | 2       | J75    | 1432 | 02002 0111 12A | HUL 03 | 80 01            |
| (B)           | 1.812             | ↓   | 1.498               | X       | J76    | 1440 |                |        |                  |
| (C)           | 1.219             | ↓   |                     | ↓       | J77    | 1448 |                |        |                  |
| (D)           | 1.522             | ↓   |                     | ↓       | J78    | 1456 |                |        |                  |
| J74 9348 (A)  | 10.529            | 10x |                     | 2       | J79    | 1504 |                |        |                  |
| (B)           | 10.707            | ↓   | 106.                | X       | J80    | 1512 |                |        |                  |
| (C)           | 10.423            | ↓   |                     | ↓       | J81    | 1520 |                |        |                  |
| (D)           | 10.516            | ↓   |                     | ↓       | J82    | 1528 |                |        |                  |

Verified by: JTS/jll

Date: 1/8/02

# Raw Data Notebook

## Total Organic Carbon Analyzer, O.I.

Sample Loop: 1.0 mL Instrument #: 5214

Date: 11-07-02 Analyst: JM

Calibration Constant: 0.05846 µg C/mv Run #: 

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 0 | 2 | 0 | 0 | 2 | 1 |
|---|---|---|---|---|---|

Standard Mass: 25.0 µg C

| Sample Number | Raw Result (mg/L) | DF  | Calc. Result (mg/L) | Trial # | Inj. # | Time | Batch Number   | SDG   | Comments    |
|---------------|-------------------|-----|---------------------|---------|--------|------|----------------|-------|-------------|
| 1CV           | 24.790            |     | ⊙                   |         | J13    | 1534 |                |       | 100 = 98.1% |
| 1CB           | 0.662             |     | ↓                   |         | J14    | 1544 |                |       |             |
| J74 9350 (A)  | 9.565             | 10x | 95.1                | 2       | J15    | 1552 | 02004 0111 128 | HML03 | BC 01       |
| (B)           | 9.666             | ↓   |                     | ↓       | J16    | 1606 |                |       |             |
| (C)           | 9.412             | ↓   |                     | ↓       | J17    | 1609 |                |       |             |
| (D)           | 9.574             | ↓   |                     | ↓       | J18    | 1617 |                |       |             |
| J74 9351 (A)  | 13.086            | 1x  | 12.1                | 2       | J19    | 1625 |                |       |             |
| (B)           | 11.505            | ↓   |                     | ↓       | J20    | 1633 |                |       |             |
| (C)           | 11.341            | ↓   |                     | ↓       | J21    | 1641 |                |       |             |
| (D)           | 12.435            | ↓   |                     | ↓       | J22    | 1649 |                |       |             |
| 1CV           | 24.376            |     |                     |         | J23    | 1657 |                |       | 100 = 97.1% |
| 1CB           | 0.760             |     |                     |         | J24    | 1705 |                |       |             |
| J74 9352 (A)  | 15.895            | 1x  | 11.5                | 2       | J25    | 1713 | 02002 0111 128 | HML03 | BC 01       |
| (B)           | 9.049             | ↓   |                     | ↓       | J26    | 1721 |                |       |             |
| (C)           | 9.454             | ↓   |                     | ↓       | J27    | 1729 |                |       |             |
| (D)           | 11.569            | ↓   |                     | ↓       | J28    | 1737 |                |       |             |
| J74 9354 (A)  | 3.311             | 1x  | 3.3                 | 2       | J29    | 1746 |                |       |             |
| (B)           | 3.351             | ↓   |                     | ↓       | J30    | 1754 |                |       |             |
| (C)           | 3.202             | ↓   |                     | ↓       | J31    | 1802 |                |       |             |
| (D)           | 3.146             | ↓   |                     | ↓       | J32    | 1810 |                |       |             |
| 1CV           | 24.031            |     | ⊙                   |         | J33    | 1818 |                |       | 100 = 91.0% |
| 1CB           | 0.932             |     | ↓                   |         | J34    | 1826 |                |       |             |
| J74 9355 (A)  | 2.359             | 1x  |                     | 2       | J35    | 1834 | 02002 0111 128 | HML03 | BC 01       |

Verified by: JM Date: 11/8/02

# Raw Data Notebook

## Total Organic Carbon Analyzer, O.I.

Sample Loop: 1.0 mL Instrument #: 5214

Date: 01-07-02 / 01-08-02 Analyst: DBL

Calibration Constant: 1.05846 µg C/mv Run #: 

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 0 | 2 | 0 | 0 | 2 | 1 |
|---|---|---|---|---|---|

Standard Mass: 25.0 µg C

| Sample Number | Raw Result (mg/L) | DF | Calc. Result (mg/L) | Trial # | Inj. # | Time | Batch Number  | SDG    | Comments              |
|---------------|-------------------|----|---------------------|---------|--------|------|---------------|--------|-----------------------|
| J749355 (B)   | 2.287             | 1x |                     | 2       | 41     | 1842 | 02002 011 12A | HHL 03 | BC 01                 |
| (C)           | 1.892             | ↓  | 2.3                 | X       | 42     | 1852 |               |        |                       |
| (D)           | 2.476             | ↓  |                     | ↓       | 43     | 1858 |               |        |                       |
| J749356 (A)   | 0.851             | 1x |                     | 2       | 44     | 1911 |               |        |                       |
| (B)           | 1.576             | ↓  | 1.286               | X       | 45     | 1914 |               |        |                       |
| (C)           | 0.9984            | ↓  |                     | ↓       | 46     | 1925 |               |        |                       |
| (D)           | 1.728             | ↓  |                     | ↓       | 412    | 1927 |               |        |                       |
| J749356 R     | 10.426            | ↓  | 10.4                | X       | 413    | 1939 |               |        | 19.8 mg/L, 100 = 93.1 |
| ↓ 9356 R      | 10.570            | ↓  | 10.6                | X       | 414    | 1941 |               |        | ↓ 100 = 95.1          |
| CEV           | 24.402            |    |                     |         | 415    | 1955 |               |        | 100 = 98.1            |
| COB           | 0.859             |    |                     |         | 416    | 2003 |               |        |                       |
| J749342 (A)   | 7.622             | 1x |                     | 3       | 417    | 2011 | 02004 011 12A | HHL 03 | BC 01                 |
| (B)           | 6.587             | ↓  | 6.9                 | X       | 418    | 2019 |               |        |                       |
| (C)           | 6.355             | ↓  |                     | ↓       | 419    | 2021 |               |        |                       |
| (D)           | 6.921             | ↓  |                     | ↓       | 420    | 2035 |               |        |                       |
| CEV           | 24.016            |    |                     |         | 421    | 2043 |               |        | 100 = 96.1            |
| COB           | 0.655             |    |                     |         | 422    | 2051 |               |        |                       |
| RIND          | 0.258             |    | 0.258               |         | 423    | 0794 | 01-08-02      |        |                       |
| RIND          | 0.255             |    | 0.255               |         | 424    | 0709 |               |        |                       |
| CEV           | 23.851            |    |                     |         | 425    | 0717 |               |        | 100 = 95.1            |
| COB           | 0.350             |    |                     |         | 426    | 0725 |               |        |                       |
| J746879 (A)   | 15.603            | 1x | 24.7                | 2       | 427    | 0815 | 02003 011 11A | OLD 20 | RA A bottle           |
| (B)           | 17.185            | ↓  |                     | ↓       | 428    | 0823 |               |        | 100 = 95.1            |

Verified by: DBL

Date: 1/10/02

002 1/3/02  
 ZHH # 02J671 01-02-02 - 01-03-02  
 01/03/02  
 1/3/02

|            |          |       |            |              |             |
|------------|----------|-------|------------|--------------|-------------|
| SPL# 00001 | 07:43:45 | TIC = | 1.12478 mV | 0.06552 ug C | 0.06552 ppi |
| SPL# 00001 | 07:48:45 | TOC = | 8.48705 mV | 0.49443 ug C | 0.49443 ppi |
| SPL# 00002 | 07:51:50 | TIC = | 1.02240 mV | 0.05956 ug C | 0.05956 ppi |
| SPL# 00002 | 07:56:50 | TOC = | 9.03484 mV | 0.52634 ug C | 0.52634 ppi |
| SPL# 00003 | 07:59:55 | TIC = | 1.02240 mV | 0.05956 ug C | 0.05956 ppi |
| SPL# 00003 | 08:04:55 | TOC = | 9.37432 mV | 0.54611 ug C | 0.54611 ppi |
| SPL# 00004 | 08:11:58 | TIC = | 2.25272 mV | 0.13123 ug C | 0.13123 ppi |
| SPL# 00004 | 08:16:58 | TOC = | 425.901 mV | 24.8117 ug C | 24.8117 ppi |
| SPL# 00005 | 08:20:03 | TIC = | 3.04930 mV | 0.17764 ug C | 0.17764 ppi |
| SPL# 00005 | 08:25:03 | TOC = | 429.780 mV | 25.0377 ug C | 25.0377 ppi |
| SPL# 00006 | 08:28:08 | TIC = | 2.97214 mV | 0.17314 ug C | 0.17314 ppi |
| SPL# 00006 | 08:33:08 | TOC = | 428.363 mV | 24.9552 ug C | 24.9552 ppi |

# LANCASTER LABORATORIES

TOC

JAN 02 2002

\*\*\* MODEL 700 TOC ANALYZER \*\*\*

## CALIBRATION FACTORS:

|                       |                       |                             |
|-----------------------|-----------------------|-----------------------------|
| IC BLANK= 000000 mV   | OC BLANK= 8.96540 mV  | I.R. OFFSET= 177.600 mV     |
| STD. MASS= 25.0000 ug | STD. AVG.= 428.015 mV | SCALING FACTOR= 0.05840 ug/ |

## VOLUMES:

|                       |                         |                          |
|-----------------------|-------------------------|--------------------------|
| SPL. VOL.= 1.00000 ml | ACID VOL.= 00002 x100ul | OXID. VOL.= 00025 x100ul |
|-----------------------|-------------------------|--------------------------|

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LOW/HIGH ALARM SETPOINTS (ppm C):

LAST ANALYSIS RESULTS:

LANCASTER LABORATORIES

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|            |          |      |                  |              |            |
|------------|----------|------|------------------|--------------|------------|
| SPL# 00007 | 08:34:50 |      | TIC = 2.97214 mV | 0.17314 ug C | 0.17314 pp |
| SPL# 00007 | 08:34:53 |      | TOC = 428.363 mV | 24.9552 ug C | 24.9552 pp |
| SPL# 00007 | 08:39:13 |      | TIC = 1.68836 mV | 0.09861 ug C | 0.09861 pp |
| SPL# 00007 | 08:44:13 |      | TOC = 5.61433 mV | 0.32792 ug C | 0.32792 pp |
| SPL# 00008 | 08:47:18 |      | TIC = 1.79091 mV | 0.10460 ug C | 0.10460 pp |
| SPL# 00008 | 08:52:18 |      | TOC = 3.29269 mV | 0.19232 ug C | 0.19232 pp |
| SPL# 00009 | 08:55:23 |      | TIC = 2.76645 mV | 0.16158 ug C | 0.16158 pp |
| SPL# 00009 | 09:00:23 |      | TOC = 36.0774 mV | 2.10725 ug C | 2.10725 pp |
| SPL# 00010 | 09:03:28 |      | TIC = 2.71505 mV | 0.15858 ug C | 0.15858 pp |
| SPL# 00010 | 09:08:28 |      | TOC = 126.265 mV | 7.37504 ug C | 7.37504 pp |
| SPL# 00011 | 09:11:33 |      | TIC = 2.97214 mV | 0.17360 ug C | 0.17360 pp |
| SPL# 00011 | 09:16:33 |      | TOC = 170.234 mV | 9.94320 ug C | 9.94320 pp |
| SPL# 00012 | 09:19:38 |      | TIC = 3.15220 mV | 0.18411 ug C | 0.18411 pp |
| SPL# 00012 | 09:24:38 |      | TOC = 429.623 mV | 25.0939 ug C | 25.0939 pp |
| SPL# 00013 | 09:27:43 |      | TIC = 3.61556 mV | 0.21118 ug C | 0.21118 pp |
| SPL# 00013 | 09:32:43 | N.L. | TOC = 830.723 mV | 48.5219 ug C | 48.5219 pp |
| SPL# 00014 | 09:35:48 |      | TIC = 3.51254 mV | 0.20516 ug C | 0.20516 pp |
| SPL# 00014 | 09:40:48 |      | TOC = 8.80130 mV | 0.51407 ug C | 0.51407 pp |
| SPL# 00015 | 09:43:53 |      | TIC = 2.43245 mV | 0.14207 ug C | 0.14207 pp |
| SPL# 00015 | 09:48:53 |      | TOC = 5.29697 mV | 0.30939 ug C | 0.30939 pp |
| SPL# 00016 | 10:30:36 | N.L. | TIC = 1816.67 mV | 106.110 ug C | 106.110 pp |
| SPL# 00016 | 10:35:36 |      | TOC = 313.122 mV | 18.2892 ug C | 18.2892 pp |
| SPL# 00017 | 11:27:57 |      | TIC = 2.43245 mV | 0.14207 ug C | 0.14207 pp |

|            |          |      |       |            |              |            |
|------------|----------|------|-------|------------|--------------|------------|
| SPL# 00242 | 09:09:41 |      | TIC = | 74.2598 mV | 4.33745 ug C | 4.33745 pp |
| SPL# 00242 | 09:14:41 |      | TOC = | 41.2777 mV | 2.41100 ug C | 2.41100 pp |
| SPL# 00243 | 09:17:46 |      | TIC = | 118.313 mV | 6.91057 ug C | 6.91057 pp |
| SPL# 00243 | 09:22:46 |      | TOC = | 155.099 mV | 9.05920 ug C | 9.05920 pp |
| SPL# 00244 | 09:25:51 |      | TIC = | 5.88858 mV | 0.34394 ug C | 0.34394 pp |
| SPL# 00244 | 09:30:51 |      | TOC = | 424.908 mV | 24.8185 ug C | 24.8185 pp |
| SPL# 00245 | 09:33:56 |      | TIC = | 3.33233 mV | 0.19463 ug C | 0.19463 pp |
| SPL# 00245 | 09:38:56 |      | TOC = | 7.94904 mV | 0.46429 ug C | 0.46429 pp |
| SPL# 00246 | 09:47:32 |      | TIC = | 1.94479 mV | 0.11359 ug C | 0.11359 pp |
| SPL# 00246 | 09:52:32 |      | TOC = | 3.92458 mV | 0.22923 ug C | 0.22923 pp |
| SPL# 00247 | 09:55:37 |      | TIC = | 10.1588 mV | 0.59336 ug C | 0.59336 pp |
| SPL# 00247 | 10:00:37 |      | TOC = | 153.733 mV | 8.97940 ug C | 8.97940 pp |
| SPL# 00248 | 10:03:42 |      | TIC = | 329.757 mV | 19.2609 ug C | 19.2609 pp |
| SPL# 00248 | 10:08:42 | D.R. | TOC = | 2677.32 mV | 156.380 ug C | 156.380 pp |
| SPL# 00249 | 10:11:47 |      | TIC = | 337.457 mV | 19.7106 ug C | 19.7106 pp |
| SPL# 00249 | 10:16:47 | D.R. | TOC = | 2730.46 mV | 159.484 ug C | 159.484 pp |
| SPL# 00250 | 10:19:52 |      | TIC = | 334.433 mV | 19.5340 ug C | 19.5340 pp |
| SPL# 00250 | 10:24:52 | D.R. | TOC = | 2683.93 mV | 156.766 ug C | 156.766 pp |
| SPL# 00251 | 10:27:57 |      | TIC = | 350.476 mV | 20.4710 ug C | 20.4710 pp |
| SPL# 00251 | 10:32:57 | D.R. | TOC = | 2692.08 mV | 157.242 ug C | 157.242 pp |
| SPL# 00252 | 10:44:54 |      | TIC = | 3.17792 mV | 0.18562 ug C | 0.18562 pp |
| SPL# 00252 | 10:49:54 |      | TOC = | 21.6866 mV | 1.26670 ug C | 1.26670 pp |
| SPL# 00253 | 10:52:59 |      | TIC = | 1.76526 mV | 0.10310 ug C | 0.10310 pp |
| SPL# 00253 | 10:57:59 |      | TOC = | 9.84233 mV | 0.57488 ug C | 0.57488 pp |
| SPL# 00254 | 11:01:04 |      | TIC = | 1.68836 mV | 0.09861 ug C | 0.09861 pp |

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|            |          |       |            |              |            |
|------------|----------|-------|------------|--------------|------------|
| SPL# 00252 | 10:44:54 | TIC = | 3.17792 mV | 0.18562 ug C | 0.18562 pp |
| SPL# 00252 | 10:49:54 | TOC = | 21.6866 mV | 1.26670 ug C | 1.26670 pp |
| SPL# 00253 | 10:52:59 | TIC = | 1.76526 mV | 0.10310 ug C | 0.10310 pp |
| SPL# 00253 | 10:57:59 | TOC = | 9.84233 mV | 0.57488 ug C | 0.57488 pp |
| SPL# 00254 | 11:01:04 | TIC = | 1.68836 mV | 0.09861 ug C | 0.09861 pp |
| SPL# 00254 | 11:06:04 | TOC = | 6.93926 mV | 0.40531 ug C | 0.40531 pp |
| SPL# 00255 | 11:09:09 | TIC = | 1.71399 mV | 0.10011 ug C | 0.10011 pp |
| SPL# 00255 | 11:14:09 | TOC = | 3.95093 mV | 0.23077 ug C | 0.23077 pp |
| SPL# 00256 | 12:18:08 | TIC = | 9.29595 mV | 0.54296 ug C | 0.54296 pp |
| SPL# 00256 | 12:23:08 | TOC = | 417.053 mV | 24.3597 ug C | 24.3597 pp |
| SPL# 00257 | 12:26:13 | TIC = | 2.99786 mV | 0.17510 ug C | 0.17510 pp |
| SPL# 00257 | 12:31:13 | TOC = | 6.56786 mV | 0.38362 ug C | 0.38362 pp |
| SPL# 00258 | 12:34:18 | TIC = | 9.84483 mV | 0.57502 ug C | 0.57502 pp |
| SPL# 00258 | 12:39:18 | TOC = | 11.7442 mV | 0.68597 ug C | 0.68597 pp |
| SPL# 00259 | 12:42:23 | TIC = | 9.81867 mV | 0.57350 ug C | 0.57350 pp |
| SPL# 00259 | 12:47:23 | TOC = | 39.7571 mV | 2.32218 ug C | 2.32218 pp |
| SPL# 00260 | 12:50:28 | TIC = | 9.89714 mV | 0.57808 ug C | 0.57808 pp |
| SPL# 00260 | 12:55:28 | TOC = | 14.4106 mV | 0.84171 ug C | 0.84171 pp |
| SPL# 00261 | 12:58:33 | TIC = | 9.63564 mV | 0.56281 ug C | 0.56281 pp |
| SPL# 00261 | 13:03:33 | TOC = | 9.28145 mV | 0.54212 ug C | 0.54212 pp |
| SPL# 00262 | 13:06:38 | TIC = | 14.3153 mV | 0.83614 ug C | 0.83614 pp |
| SPL# 00262 | 13:11:38 | TOC = | 3.45057 mV | 0.20154 ug C | 0.20154 pp |
| SPL# 00263 | 13:14:43 | TIC = | 14.9238 mV | 0.87168 ug C | 0.87168 pp |
| SPL# 00263 | 13:19:43 | TOC = | 3.42425 mV | 0.20000 ug C | 0.20000 pp |
| SPL# 00264 | 13:22:48 | TIC = | 15.1092 mV | 0.88251 ug C | 0.88251 pp |

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JAN 02 2002

02-20-58-1  
1/11/02

TOC

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|            |          |                  |              |            |
|------------|----------|------------------|--------------|------------|
| SPL# 00370 | 13:40:35 | TIC = 427.555 mV | 27.3095 ug C | 27.3095 pp |
| SPL# 00370 | 13:51:36 | TOC = 43.5829 mV | 2.54564 ug C | 2.54564 pp |
| SPL# 00371 | 13:54:41 | TIC = 445.706 mV | 26.0333 ug C | 26.0333 pp |
| SPL# 00371 | 13:59:41 | TOC = 63.3604 mV | 3.70003 ug C | 3.70003 pp |
| SPL# 00372 | 14:02:46 | TIC = 454.694 mV | 26.5583 ug C | 26.5583 pp |
| SPL# 00372 | 14:07:46 | TOC = 37.6425 mV | 2.19867 ug C | 2.19867 pp |
| SPL# 00373 | 14:10:51 | TIC = 7.57570 mV | 0.44249 ug C | 0.44249 pp |
| SPL# 00373 | 14:15:51 | TOC = 404.656 mV | 23.6356 ug C | 23.6356 pp |
| SPL# 00374 | 14:18:56 | TIC = 4.82797 mV | 0.28199 ug C | 0.28199 pp |
| SPL# 00374 | 14:23:56 | TOC = 8.56143 mV | 0.50006 ug C | 0.50006 pp |
| SPL# 00375 | 14:27:01 | TIC = 425.138 mV | 24.8320 ug C | 24.8320 pp |
| SPL# 00375 | 14:32:01 | TOC = 24.4162 mV | 1.42613 ug C | 1.42613 pp |
| SPL# 00376 | 14:35:06 | TIC = 459.785 mV | 26.8557 ug C | 26.8557 pp |
| SPL# 00376 | 14:40:06 | TOC = 31.0216 mV | 1.81194 ug C | 1.81194 pp |
| SPL# 00377 | 14:43:11 | TIC = 474.787 mV | 27.7319 ug C | 27.7319 pp |
| SPL# 00377 | 14:48:11 | TOC = 20.8629 mV | 1.21858 ug C | 1.21858 pp |
| SPL# 00378 | 14:51:16 | TIC = 483.065 mV | 28.2154 ug C | 28.2154 pp |
| SPL# 00378 | 14:56:16 | TOC = 26.3012 mV | 1.53623 ug C | 1.53623 pp |
| SPL# 00379 | 14:59:21 | TIC = 33.5200 mV | 1.95787 ug C | 1.95787 pp |
| SPL# 00379 | 15:04:21 | TOC = 180.256 mV | 10.5286 ug C | 10.5286 pp |
| SPL# 00380 | 15:07:26 | TIC = 31.1745 mV | 1.82088 ug C | 1.82088 pp |
| SPL# 00380 | 15:12:26 | TOC = 183.308 mV | 10.7068 ug C | 10.7068 pp |
| SPL# 00381 | 15:15:31 | TIC = 32.4698 mV | 1.89654 ug C | 1.89654 pp |
| SPL# 00381 | 15:20:31 | TOC = 179.130 mV | 10.4628 ug C | 10.4628 pp |
| SPL# 00382 | 15:23:36 | TIC = 32.7736 mV | 1.91428 ug C | 1.91428 pp |
| SPL# 00382 | 15:28:36 | TOC = 180.031 mV | 10.5155 ug C | 10.5155 pp |

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TOC

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|            |          |                  |              |            |
|------------|----------|------------------|--------------|------------|
| SPL# 00382 | 15:23:36 | TIC = 32.7736 mV | 1.91428 ug C | 1.91428 pp |
| SPL# 00382 | 15:28:36 | TOC = 180.031 mV | 10.5155 ug C | 10.5155 pp |
| SPL# 00383 | 15:31:41 | TIC = 5.96629 mV | 0.34848 ug C | 0.34848 pp |
| SPL# 00383 | 15:36:41 | TOC = 417.571 mV | 24.3900 ug C | 24.3900 pp |
| SPL# 00384 | 15:39:46 | TIC = 4.75048 mV | 0.27747 ug C | 0.27747 pp |
| SPL# 00384 | 15:44:46 | TOC = 11.3417 mV | 0.66246 ug C | 0.66246 pp |
| SPL# 00385 | 15:47:51 | TIC = 70.2195 mV | 4.10146 ug C | 4.10146 pp |
| SPL# 00385 | 15:52:51 | TOC = 163.767 mV | 9.56548 ug C | 9.56548 pp |
| SPL# 00386 | 15:55:56 | TIC = 75.2602 mV | 4.39588 ug C | 4.39588 pp |
| SPL# 00386 | 16:00:56 | TOC = 164.462 mV | 9.60606 ug C | 9.60606 pp |
| SPL# 00387 | 16:04:01 | TIC = 76.9321 mV | 4.49354 ug C | 4.49354 pp |
| SPL# 00387 | 16:09:01 | TOC = 161.142 mV | 9.41216 ug C | 9.41216 pp |
| SPL# 00388 | 16:12:06 | TIC = 72.3559 mV | 4.22625 ug C | 4.22625 pp |
| SPL# 00388 | 16:17:06 | TOC = 163.913 mV | 9.57402 ug C | 9.57402 pp |
| SPL# 00389 | 16:20:11 | TIC = 443.275 mV | 25.8913 ug C | 25.8913 pp |
| SPL# 00389 | 16:25:11 | TOC = 224.041 mV | 13.0861 ug C | 13.0861 pp |
| SPL# 00390 | 16:28:16 | TIC = 431.525 mV | 25.2050 ug C | 25.2050 pp |
| SPL# 00390 | 16:33:16 | TOC = 196.979 mV | 11.5054 ug C | 11.5054 pp |
| SPL# 00391 | 16:36:21 | TIC = 491.358 mV | 28.6998 ug C | 28.6998 pp |
| SPL# 00391 | 16:41:21 | TOC = 194.167 mV | 11.3411 ug C | 11.3411 pp |
| SPL# 00392 | 16:44:26 | TIC = 445.018 mV | 25.9931 ug C | 25.9931 pp |
| SPL# 00392 | 16:49:26 | TOC = 212.896 mV | 12.4351 ug C | 12.4351 pp |
| SPL# 00393 | 16:52:31 | TIC = 7.57571 mV | 0.44249 ug C | 0.44249 pp |
| SPL# 00393 | 16:57:31 | TOC = 416.638 mV | 24.3355 ug C | 24.3355 pp |
| SPL# 00394 | 17:00:36 | TIC = 3.95054 mV | 0.23074 ug C | 0.23074 pp |
| SPL# 00394 | 17:05:36 | TOC = 11.9859 mV | 0.70000 ug C | 0.70000 pp |

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|            |          |      |                  |              |             |
|------------|----------|------|------------------|--------------|-------------|
| SPL# 00393 | 17:05:36 | N.L. | TIC = 31.1038 mV | 0.23074 ug C | 0.23074 ppb |
| SPL# 00394 | 17:08:36 |      | TIC = 3.95054 mV | 0.23074 ug C | 0.23074 ppb |
| SPL# 00394 | 17:08:36 |      | TOC = 11.9859 mV | 0.70008 ug C | 0.70008 ppb |
| SPL# 00395 | 17:08:41 | N.L. | TIC = 507.783 mV | 47.1819 ug C | 47.1819 ppb |
| SPL# 00395 | 17:13:41 |      | TOC = 272.134 mV | 15.8951 ug C | 15.8951 ppb |
| SPL# 00396 | 17:16:46 |      | TIC = 652.306 mV | 38.1007 ug C | 38.1007 ppb |
| SPL# 00396 | 17:21:46 |      | TOC = 154.919 mV | 9.04869 ug C | 9.04869 ppb |
| SPL# 00397 | 17:24:51 |      | TIC = 617.607 mV | 36.0739 ug C | 36.0739 ppb |
| SPL# 00397 | 17:29:51 |      | TOC = 162.380 mV | 9.48448 ug C | 9.48448 ppb |
| SPL# 00398 | 17:32:56 | N.L. | TIC = 877.093 mV | 51.2303 ug C | 51.2303 ppb |
| SPL# 00398 | 17:37:56 |      | TOC = 198.061 mV | 11.5686 ug C | 11.5686 ppb |
| SPL# 00399 | 17:41:01 |      | TIC = 257.716 mV | 15.0530 ug C | 15.0530 ppb |
| SPL# 00399 | 17:46:01 |      | TOC = 56.6831 mV | 3.31081 ug C | 3.31081 ppb |
| SPL# 00400 | 17:49:06 |      | TIC = 238.916 mV | 13.9549 ug C | 13.9549 ppb |
| SPL# 00400 | 17:54:06 |      | TOC = 57.3674 mV | 3.35078 ug C | 3.35078 ppb |
| SPL# 00401 | 17:57:11 |      | TIC = 239.851 mV | 14.0095 ug C | 14.0095 ppb |
| SPL# 00401 | 18:02:11 |      | TOC = 54.8140 mV | 3.20164 ug C | 3.20164 ppb |
| SPL# 00402 | 18:05:16 |      | TIC = 260.313 mV | 15.2047 ug C | 15.2047 ppb |
| SPL# 00402 | 18:10:16 |      | TOC = 53.8675 mV | 3.14635 ug C | 3.14635 ppb |
| SPL# 00403 | 18:13:21 |      | TIC = 7.02986 mV | 0.41060 ug C | 0.41060 ppb |
| SPL# 00403 | 18:18:21 |      | TOC = 411.424 mV | 24.0310 ug C | 24.0310 ppb |
| SPL# 00404 | 18:21:26 |      | TIC = 5.31913 mV | 0.31068 ug C | 0.31068 ppb |
| SPL# 00404 | 18:26:26 |      | TOC = 15.9535 mV | 0.93183 ug C | 0.93183 ppb |
| SPL# 00405 | 18:29:31 |      | TIC = 175.332 mV | 10.2410 ug C | 10.2410 ppb |
| SPL# 00405 | 18:34:31 |      | TOC = 40.9043 mV | 2.38919 ug C | 2.38919 ppb |
| SPL# 00406 | 18:37:37 |      | TIC = 170.070 mV | 10.0000 ug C | 10.0000 ppb |

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# Miscellaneous Analysis Data

# **Case Narrative Conformance/Nonconformance Summary**



Where quality is a science.

CLIENT: Hull & Associates  
SDG: HUL03

**LANCASTER LABORATORIES**

**MISCELLANEOUS WET CHEMISTRY**

**SAMPLE NUMBERS:**

| <u>Sample #</u> | <u>Sample Code</u> | <u>Comments</u>                |
|-----------------|--------------------|--------------------------------|
| 3749340         | AW-3U              | DF100                          |
| 3749341         | AW-3L              | DF100                          |
| 3749342         | MW-8U              | DF200                          |
| 3749343         | MW-8M              | DF4                            |
| 3749344         | MW-8L              | DF4                            |
| 3749345         | AWA1U              | DF100 / Background             |
| 3749346         | AWB1U              | DF100                          |
| 3749347         | AW-1L              | DF100                          |
| 3749348         | AW-2U              | DF100                          |
| 3749349         | AW-2L              | DF100                          |
| 3749350         | MW-9U              | DF200                          |
| 3749351         | MW-9L              | DF10                           |
| 3749352         | MW10U              | DF200                          |
| 3749353         | MW10L              | DF100                          |
| 3749354         | MW-5U              | DF100                          |
| 3749355         | MW-5M              | DF2                            |
| 3749356         | MW-5L              | DF2 / BKG / DUP                |
| 3749357         | FIELD              | Client Blank                   |
| 3750934         | AWA1U              | DF200 / Matrix Spike           |
| 3750935         | AWA1U              | DF200 / Matrix Spike Duplicate |

**ANALYSIS:**

Dilution factors are listed in the comment section for the sulfate analysis.

**QUALITY CONTROL AND NONCONFORMANCE SUMMARY:**

A number of analyte percent recoveries and relative percent differences were out of specification for the total dissolved solids analysis. Refer to the matrix spike/matrix spike duplicate form for the analytes outside the QC limits.

Continued on page 2.

CO-PA-14-03



Where quality is a science.

CLIENT: Hull & Associates  
SDG: HUL03

**DATA INTERPRETATION:**

Due to limitations of the data package software, form I's are unavailable for wet chemistry data. Please refer to analysis reports for this information.

The sulfate calculation is:

The sample NTU value is entered into the computer and the mg/L value is calculated from the calibration curve.

Concentration X Dilution Factor

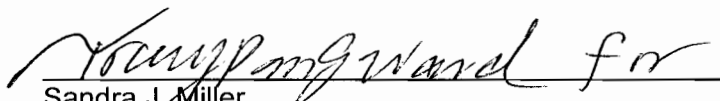
Note: When dilution is used

The total dissolved solids calculation is:

$$\text{mg total dissolved solids/L} = \frac{(A - B) \times 1000 \times 1000}{\text{sample volume, mL}}$$

Where: A = weight of dried residue and beaker or dish, g  
B = weight of beaker or dish, g

Case Narrative Reviewed and Approved by:

 for Date: 1/9/02  
Sandra J. Miller  
Specialist/Coordinator

## QC Summary

# Lancaster Laboratories

Quality Control Summary  
Method Blank  
Miscellaneous Wet Chemistry  
SDG: HUL03

| Method Blank Analysis |               |             |        |               | Matrix: WATER |               |       |     |     |
|-----------------------|---------------|-------------|--------|---------------|---------------|---------------|-------|-----|-----|
| Parameter             | Sample Number | Sample Code | Method | Analysis Date | Batch Number  | Blank Results | Units | MDL | LOQ |
| Sulfate               | 3749340       | AW-3U       | M      | 1/2/02        | 02002112501   | ND            | mg/l  | 1.5 | 5   |
|                       | 3749341       | AW-3L       |        |               |               |               |       |     |     |
|                       | 3749342       | MW-8U       |        |               |               |               |       |     |     |
|                       | 3749343       | MW-8M       |        |               |               |               |       |     |     |
|                       | 3749344       | MW-8L       |        |               |               |               |       |     |     |
|                       | 3749345       | AWA1U B     |        |               |               |               |       |     |     |
|                       | 3749346       | AWB1U       |        |               |               |               |       |     |     |
|                       | 3749347       | AW-1L       |        |               |               |               |       |     |     |
|                       | 3749348       | AW-2U       |        |               |               |               |       |     |     |
|                       | 3749349       | AW-2L       |        |               |               |               |       |     |     |
|                       | 3749350       | MW-9U       |        |               |               |               |       |     |     |
|                       | 3749351       | MW-9L       |        |               |               |               |       |     |     |
|                       | 3749352       | MW10U       |        |               |               |               |       |     |     |
|                       | 3749353       | MW10L       |        |               |               |               |       |     |     |
|                       | 3749354       | MW-5U       |        |               |               |               |       |     |     |
|                       | 3749355       | MW-5M       |        |               |               |               |       |     |     |
|                       | 3749356       | MW-5L B,D   |        |               |               |               |       |     |     |
|                       | 3749357       | FIELD       |        |               |               |               |       |     |     |
|                       | 3750934       | AWA1U S     |        |               |               |               |       |     |     |
|                       | 3750935       | AWA1U M     |        |               |               |               |       |     |     |

Comments: The blank is acceptable when the result is less than the limit of quantitation.

## ABBREVIATION KEY

|                                 |                              |
|---------------------------------|------------------------------|
| CO = Colorimetric               | MDL = Method Detection Limit |
| DI = Distillation               | LOQ = Limit of Quantitation  |
| G = Gravimetric                 | NA = Not Applicable          |
| IR = Infrared Spectrophotometry | J = Estimated Value < LOQ    |
| M = Meter                       | < = Less Than                |
| OD = Oven Dried                 | ND = Not Detected            |
| TI = Titration                  | * = Out of Specification     |
| B = Background                  | D = Duplicate                |
| S = Spike                       | LS = Low Spike               |
| HS = High Spike                 | PDS = Post Digestion Spike   |



# Lancaster Laboratories

Quality Control Summary  
Method Blank  
Miscellaneous Wet Chemistry  
SDG: HUL03

| Method Blank Analysis |               |             |        |               | Matrix: WATER |               |       |     |     |
|-----------------------|---------------|-------------|--------|---------------|---------------|---------------|-------|-----|-----|
| Parameter             | Sample Number | Sample Code | Method | Analysis Date | Batch Number  | Blank Results | Units | MDL | LOQ |
| TDS                   | 3749340       | AW-3U       | G      | 12/24/01      | 01358021202   | ND            | mg/l  | 9.7 | 30  |
|                       | 3749341       | AW-3L       |        |               |               |               |       |     |     |
|                       | 3749342       | MW-8U       |        |               |               |               |       |     |     |
|                       | 3749343       | MW-8M       |        |               |               |               |       |     |     |
|                       | 3749344       | MW-8L       |        |               |               |               |       |     |     |
|                       | P747810       | B,D         |        |               |               |               |       |     |     |
|                       | P748155       | B           |        |               |               |               |       |     |     |
|                       | P748156       | S           |        |               |               |               |       |     |     |
|                       | P748157       | M           |        |               |               |               |       |     |     |
|                       | 3749345       | AWA1U       | G      | 12/26/01      | 01360021201   | ND            | mg/l  | 9.7 | 30  |
|                       | 3749346       | AWB1U       |        |               |               |               |       |     |     |
|                       | 3749347       | AW-1L B,D   |        |               |               |               |       |     |     |
|                       | 3749348       | AW-2U       |        |               |               |               |       |     |     |
|                       | 3749349       | AW-2L       |        |               |               |               |       |     |     |
|                       | 3749350       | MW-9U       |        |               |               |               |       |     |     |
|                       | 3749351       | MW-9L       |        |               |               |               |       |     |     |
|                       | 3749352       | MW10U       |        |               |               |               |       |     |     |
|                       | 3749353       | MW10L       |        |               |               |               |       |     |     |
|                       | 3749354       | MW-5U       |        |               |               |               |       |     |     |
|                       | 3749355       | MW-5M       |        |               |               |               |       |     |     |
|                       | 3749356       | MW-5L       |        |               |               |               |       |     |     |
|                       | 3749357       | FIELD       |        |               |               |               |       |     |     |
|                       | P749046       | B           |        |               |               |               |       |     |     |
|                       | P749047       | S           |        |               |               |               |       |     |     |
|                       | P749048       | M           |        |               |               |               |       |     |     |

Comments: The blank is acceptable when the result is less than the limit of quantitation.

## ABBREVIATION KEY

|                                 |                              |
|---------------------------------|------------------------------|
| CO = Colorimetric               | MDL = Method Detection Limit |
| DI = Distillation               | LOQ = Limit of Quantitation  |
| G = Gravimetric                 | NA = Not Applicable          |
| IR = Infrared Spectrophotometry | J = Estimated Value < LOQ    |
| M = Meter                       | < = Less Than                |
| OD = Oven Dried                 | ND = Not Detected            |
| TI = Titration                  | * = Out of Specification     |
| B = Background                  | D = Duplicate                |
| S = Spike                       | LS = Low Spike               |
| HS = High Spike                 | PDS = Post Digestion Spike   |

| Sample Info.  | Matrix Spike Analysis |              |           |    |               |            |            |           |                |           | Matrix: WATER |                 |            |       |            |             |                       |         |                  |
|---------------|-----------------------|--------------|-----------|----|---------------|------------|------------|-----------|----------------|-----------|---------------|-----------------|------------|-------|------------|-------------|-----------------------|---------|------------------|
| Sample Number | Sample Code           | Batch Number | Parameter | ME | Analysis Date | BKG Sample | BKG Result | MS Sample | MS Spike Added | MS Result | MSD Sample    | MSD Spike Added | MSD Result | Units | MS Rec (%) | MSD Rec (%) | Acceptance Window (%) | RPD (%) | % RPD Limits < = |
| 3749340       | AW-3U                 | 02002112501  | Sulfate   | M  | 1/2/02        | 3749345    | 1866.9     | 3750934   | 4000           | 5642.6    | 3750935       | 4000            | 5719.7     | mg/l  | 94         | 96          | 77 - 114              | 1       | 4                |
| 3749341       | AW-3L                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |
| 3749342       | MW-8U                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |
| 3749343       | MW-8M                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |
| 3749344       | MW-8L                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |
| 3749345       | AWA1U                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |
| 3749346       | AWB1U                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |
| 3749347       | AW-1L                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |
| 3749348       | AW-2U                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |
| 3749349       | AW-2L                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |
| 3749350       | MW-9U                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |
| 3749351       | MW-9L                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |
| 3749352       | MW10U                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |
| 3749353       | MW10L                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |
| 3749354       | MW-5U                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |
| 3749355       | MW-5M                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |
| 3749356       | MW-5L                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |
| 3749357       | FIELD                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |
| 3750934       | AWA1U                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |
| 3750935       | AWA1U                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |                  |

| ABBREVIATION KEY                |     |                         |  |
|---------------------------------|-----|-------------------------|--|
| CO = Colorimetric               | ND  | = Not Detected          |  |
| DI = Distillation               | ME  | = Method                |  |
| G = Gravimetric                 | <   | = Less Than             |  |
| IR = Infrared Spectrophotometry | NA  | = Not Applicable        |  |
| M = Meter                       | LOQ | = Limit of Quantitation |  |
| OD = Oven Dried                 | *   | = Out of Specification  |  |
| TI = Titration                  | J   | = Estimated Value < LOQ |  |

| Sample Info.  | Matrix Spike Analysis |              |           |    |               |            |            |           |                |           | Matrix: WATER |                 |            |       |            |             |                       |         |              |
|---------------|-----------------------|--------------|-----------|----|---------------|------------|------------|-----------|----------------|-----------|---------------|-----------------|------------|-------|------------|-------------|-----------------------|---------|--------------|
| Sample Number | Sample Code           | Batch Number | Parameter | ME | Analysis Date | BKG Sample | BKG Result | MS Sample | MS Spike Added | MS Result | MSD Sample    | MSD Spike Added | MSD Result | Units | MS Rec (%) | MSD Rec (%) | Acceptance Window (%) | RPD (%) | % RPD Limits |
| 3749340       | AW-3U                 | 01358021202  | TDS       | G  | 12/24/01      | P748155    | 17860.00   | P748156   | 8000.00        | 16100.00  | P748157       | 8000.00         | 12610.00   | mg/l  | -22 *      | -66 *       | 91 - 114              | 24 *    | 3            |
| 3749341       | AW-3L                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |              |
| 3749342       | MW-8U                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |              |
| 3749343       | MW-8M                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |              |
| 3749344       | MW-8L                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |              |
| 3749345       | AWA1U                 | 01360021201  | TDS       | G  | 12/26/01      | P749046    | 15380.00   | P749047   | 8000.00        | 21530.00  | P749048       | 8000.00         | 23070.00   | mg/l  | 77 *       | 96 *        | 91 - 114              | 7 *     | 3            |
| 3749346       | AWB1U                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |              |
| 3749347       | AW-1L                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |              |
| 3749348       | AW-2U                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |              |
| 3749349       | AW-2L                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |              |
| 3749350       | MW-9U                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |              |
| 3749351       | MW-9L                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |              |
| 3749352       | MW10U                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |              |
| 3749353       | MW10L                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |              |
| 3749354       | MW-5U                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |              |
| 3749355       | MW-5M                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |              |
| 3749356       | MW-5L                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |              |
| 3749357       | FIELD                 |              |           |    |               |            |            |           |                |           |               |                 |            |       |            |             |                       |         |              |

| ABBREVIATION KEY                |                             |
|---------------------------------|-----------------------------|
| CO = Colorimetric               | ND = Not Detected           |
| DI = Distillation               | ME = Method                 |
| G = Gravimetric                 | < = Less Than               |
| IR = Infrared Spectrophotometry | NA = Not Applicable         |
| M = Meter                       | LOQ = Limit of Quantitation |
| OD = Oven Dried                 | * = Out of Specification    |
| TI = Titration                  | J = Estimated Value < LOQ   |

# Lancaster Laboratories

Quality Control Summary  
Duplicate Analysis  
Miscellaneous Wet Chemistry  
SDG: HUL03

| Sample Information | Duplicate Analysis |              |           |    |               |            |             |            |             |       |         |                     |
|--------------------|--------------------|--------------|-----------|----|---------------|------------|-------------|------------|-------------|-------|---------|---------------------|
|                    | Matrix: WATER      |              |           |    |               |            |             |            |             |       |         |                     |
| Sample Number      | Sample Code        | Batch Number | Parameter | ME | Analysis Date | BKG Sample | BKG Results | DUP Sample | DUP Results | Units | RPD (%) | Control Limits % <= |
| 3749340            | AW-3U              | 02002112501  | Sulfate   | M  | 1/2/02        | 3749356    | 31.3        | P749356    | 31.0        | mg/l  | 1       | 4                   |
| 3749341            | AW-3L              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749342            | MW-8U              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749343            | MW-8M              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749344            | MW-8L              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749345            | AWA1U              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749346            | AWB1U              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749347            | AW-1L              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749348            | AW-2U              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749349            | AW-2L              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749350            | MW-9U              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749351            | MW-9L              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749352            | MW10U              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749353            | MW10L              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749354            | MW-5U              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749355            | MW-5M              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749356            | MW-5L              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749357            | FIELD              |              |           |    |               |            |             |            |             |       |         |                     |
| 3750934            | AWA1U              |              |           |    |               |            |             |            |             |       |         |                     |
| 3750935            | AWA1U              |              |           |    |               |            |             |            |             |       |         |                     |

Comments: If the background and/or the duplicate result was less than the limit of quantitation, the RPD is not required.

## ABBREVIATION KEY

|                                 |                              |
|---------------------------------|------------------------------|
| CO = Colorimetric               | MDL = Method Detection Limit |
| DI = Distillation               | LOQ = Limit of Quantitation  |
| G = Gravimetric                 | NA = Not Applicable          |
| IR = Infrared Spectrophotometry | J = Estimated Value < LOQ    |
| M = Meter                       | < = Less Than                |
| OD = Oven Dried                 | ND = Not Detected            |
| TI = Titration                  | * = Out of Specification     |

# Lancaster Laboratories

Quality Control Summary  
Duplicate Analysis  
Miscellaneous Wet Chemistry  
SDG: HUL03

| Sample Information | Duplicate Analysis |              |           |    |               |            |             |            |             |       |         |                     |
|--------------------|--------------------|--------------|-----------|----|---------------|------------|-------------|------------|-------------|-------|---------|---------------------|
|                    | Matrix: WATER      |              |           |    |               |            |             |            |             |       |         |                     |
| Sample Number      | Sample Code        | Batch Number | Parameter | ME | Analysis Date | BKG Sample | BKG Results | DUP Sample | DUP Results | Units | RPD (%) | Control Limits % <= |
| 3749340            | AW-3U              | 01358021202  | TDS       | G  | 12/24/01      | P747810    | 433.00      | P747810    | 451.00      | mg/l  | 4       | 4                   |
| 3749341            | AW-3L              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749342            | MW-8U              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749343            | MW-8M              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749344            | MW-8L              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749345            | AWA1U              | 01360021201  | TDS       | G  | 12/26/01      | 3749347    | 3328.00     | 3749347    | 3256.00     | mg/l  | 2       | 4                   |
| 3749346            | AWB1U              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749347            | AW-1L              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749348            | AW-2U              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749349            | AW-2L              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749350            | MW-9U              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749351            | MW-9L              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749352            | MW10U              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749353            | MW10L              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749354            | MW-5U              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749355            | MW-5M              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749356            | MW-5L              |              |           |    |               |            |             |            |             |       |         |                     |
| 3749357            | FIELD              |              |           |    |               |            |             |            |             |       |         |                     |

Comments: If the background and/or the duplicate result was less than the limit of quantitation, the RPD is not required.

## ABBREVIATION KEY

|                                 |                              |
|---------------------------------|------------------------------|
| CO = Colorimetric               | MDL = Method Detection Limit |
| DI = Distillation               | LOQ = Limit of Quantitation  |
| G = Gravimetric                 | NA = Not Applicable          |
| IR = Infrared Spectrophotometry | J = Estimated Value < LOQ    |
| M = Meter                       | < = Less Than                |
| OD = Oven Dried                 | ND = Not Detected            |
| TI = Titration                  | * = Out of Specification     |

# Lancaster Laboratories

Quality Control Summary  
 Laboratory Control Standard  
 Laboratory Control Standard Duplicate  
 Miscellaneous Wet Chemistry  
 SDG: HUL03

| Sample Information |             | Laboratory Control Standards |           |               |                     |             |              |       |                  |   |    |               |                      |
|--------------------|-------------|------------------------------|-----------|---------------|---------------------|-------------|--------------|-------|------------------|---|----|---------------|----------------------|
| Matrix: WATER      |             |                              |           |               |                     |             |              |       |                  |   |    |               |                      |
| Sample Number      | Sample Code | Batch Number                 | Parameter | Analysis Date | TRUE LCS/LCSD Value | LCS Results | LCSD Results | Units | Acceptance Range |   |    | % RPD Results | % RPD Acceptance <=/ |
| 3749340            | AW-3U       | 02002112501                  | Sulfate   | 1/2/02        | 20                  | 19.4        | 19.2         | mg/l  | 18               | - | 22 | 1             | 3                    |
| 3749341            | AW-3L       |                              |           | 1/2/02        | 20                  | 19.6        | NA           | mg/l  | 18               | - | 22 | NA            | NA                   |
| 3749342            | MW-8U       |                              |           | 1/2/02        | 20                  | 19.7        | NA           | mg/l  | 18               | - | 22 | NA            | NA                   |
| 3749343            | MW-8M       |                              |           | 1/2/02        | 20                  | 19.5        | NA           | mg/l  | 18               | - | 22 | NA            | NA                   |
| 3749344            | MW-8L       |                              |           | 1/2/02        | 20                  | 19.3        | NA           | mg/l  | 18               | - | 22 | NA            | NA                   |
| 3749345            | AWA1U       |                              |           | 1/2/02        | 20                  | 19.4        | NA           | mg/l  | 18               | - | 22 | NA            | NA                   |
| 3749346            | AWB1U       |                              |           |               |                     |             |              |       |                  |   |    |               |                      |
| 3749347            | AW-1L       |                              |           |               |                     |             |              |       |                  |   |    |               |                      |
| 3749348            | AW-2U       |                              |           |               |                     |             |              |       |                  |   |    |               |                      |
| 3749349            | AW-2L       |                              |           |               |                     |             |              |       |                  |   |    |               |                      |
| 3749350            | MW-9U       |                              |           |               |                     |             |              |       |                  |   |    |               |                      |
| 3749351            | MW-9L       |                              |           |               |                     |             |              |       |                  |   |    |               |                      |
| 3749352            | MW10U       |                              |           |               |                     |             |              |       |                  |   |    |               |                      |
| 749353             | MW10L       |                              |           |               |                     |             |              |       |                  |   |    |               |                      |
| 749354             | MW-5U       |                              |           |               |                     |             |              |       |                  |   |    |               |                      |
| 3749355            | MW-5M       |                              |           |               |                     |             |              |       |                  |   |    |               |                      |
| 3749356            | MW-5L       |                              |           |               |                     |             |              |       |                  |   |    |               |                      |
| 3749357            | FIELD       |                              |           |               |                     |             |              |       |                  |   |    |               |                      |
| 3750934            | AWA1U       |                              |           |               |                     |             |              |       |                  |   |    |               |                      |
| 3750935            | AWA1U       |                              |           |               |                     |             |              |       |                  |   |    |               |                      |

02002112501

# Lancaster Laboratories

Quality Control Summary  
Laboratory Control Standard  
Laboratory Control Standard Duplicate  
Miscellaneous Wet Chemistry  
SDG: HUL03

| Sample Information | Laboratory Control Standards |              |           |               |                     |             |              |       |                  |               |                      |
|--------------------|------------------------------|--------------|-----------|---------------|---------------------|-------------|--------------|-------|------------------|---------------|----------------------|
|                    | Matrix: WATER                |              |           |               |                     |             |              |       |                  |               |                      |
| Sample Number      | Sample Code                  | Batch Number | Parameter | Analysis Date | TRUE LCS/LCSD Value | LCS Results | LCSD Results | Units | Acceptance Range | % RPD Results | % RPD Acceptance </= |
| 3749340            | AW-3U                        | 01358021202  | TDS       | 1/24/01       | 200                 | 207.00      | NA           | mg/l  | 174 - 230        | NA            | NA                   |
| 3749341            | AW-3L                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749342            | MW-8U                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749343            | MW-8M                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749344            | MW-8L                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749345            | AWA1U                        | 01360021201  | TDS       | 1/26/01       | 200                 | 199.00      | NA           | mg/l  | 174 - 230        | NA            | NA                   |
| 3749346            | AWB1U                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749347            | AW-1L                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749348            | AW-2U                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749349            | AW-2L                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749350            | MW-9U                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749351            | MW-9L                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749352            | MW10U                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749353            | MW10L                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749354            | MW-5U                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749355            | MW-5M                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749356            | MW-5L                        |              |           |               |                     |             |              |       |                  |               |                      |
| 3749357            | FIELD                        |              |           |               |                     |             |              |       |                  |               |                      |

Lancaster Laboratories  
Method Detection Limits  
Department 29 – Water Quality

| ANALYSIS                                         | LL # | MDL         | ANALYSIS               | LL #       | MDL             |
|--------------------------------------------------|------|-------------|------------------------|------------|-----------------|
| Acidity                                          | 476  | 0.39 mg/l   | Oil and Grease         | 231        | 2.5 mg/l        |
| Acidity                                          | 4530 | 1.36 mg/l   | Oil and Grease         | 236        | 900 mg/kg       |
| Alkalinity to pH 4.5                             | 202  | 0.41 mg/l   | Oil and Grease         | 429        | 0.26 mg/l       |
| Ammonia Nitrogen                                 | 573  | 8.3 mg/kg   | Oil and Grease         | 2446       | 233 mg/kg       |
| Ammonia Nitrogen                                 | 221  | 0.16 mg/l   | Orthophosphate         | 226        | 0.0028 mg/l     |
| Ammonia Nitrogen                                 | 6914 | 0.04 mg/l   | Paraquat               | 1733       | 17 ug/l         |
| BOD                                              | 235  | 0.80 mg/l   | Petroleum Hydrocarbons | 1126, 8140 | 0.28 mg/l       |
| Carbonaceous BOD                                 | 1364 | 0.80 mg/l   | Petroleum Hydrocarbons | 1554       | 0.30 mg/l       |
| Chemical Oxygen Demand                           | 1553 | 1.67 mg/l   | Petroleum Hydrocarbons | 1562       | 9.4 mg/kg       |
| Chemical Oxygen Demand                           | 234  | 335 mg/l    | Petroleum Hydrocarbons | 1663       | 21 mg/kg        |
| Chemical Oxygen Demand                           | 4001 | 8.84 mg/l   | Petroleum Hydrocarbons | 1720       | 15.5 mg/kg      |
| Chloride                                         | 1124 | 0.398 mg/l  | Petroleum Hydrocarbons | 8129       | 9 mg/kg         |
| Chlorine Residual                                | 240  | 0.04 mg/l   | Petroleum Hydrocarbons | 8141       | 12.6 mg/kg      |
| Dissolved Oxygen                                 | 428  | 0.09 mg/l   | Silica                 | 559        | 0.024 mg/l      |
| Dithiocarbamates                                 | 8322 | 0.47 ug/l   | Soluble BOD            | 541        | 0.80 mg/l       |
| Ferrous Iron                                     | 8344 | 0.009 mg/l  | Specific Conductance   | 280        | 2 umhos/cm      |
| Fluoride                                         | 263  | 0.03 mg/l   | Specific Gravity       | 1443       | 0.004           |
| Fluoride Distillation                            | 1448 | 0.03 mg/l   | Sulfate                | 1125       | 1.5 mg/l        |
| Hexane Extractable Materials(Silica-Gel Treated) | 8078 | 1.4 mg/l    | Sulfide                | 230        | 0.022 mg/l      |
| Hexane Extractable Materials                     | 8079 | 1.2 mg/l    | Sulfide, Acid Volatile | 1630       | 0.39 micromol/g |
| Hexavalent Chromium                              | 276  | 0.003 mg/l  | Sulfide Titration      | 1333       | 0.53 mg/l       |
| Hexavalent Chromium                              | 425  | 0.39 mg/kg  | Sulfide Titration      | 1122       | 20 mg/kg        |
| Hexavalent Chromium                              | 1446 | 0.0009 mg/l | Sulfide Titration      | 487        | 7.1 mg/kg       |
| Hexavalent Chromium                              | 4858 | 0.39 mg/kg  | Sulfite                | 229        | 0.68 mg/l       |
| Hexavalent Chromium                              | 4859 | 0.004 mg/l  | Total Dissolved Solids | 212        | 9.7 mg/l        |
| Iodide                                           | 6867 | 0.015 mg/l  | Total Hardness         | 216        | 0.29 mg/l       |
| Karl Fischer Moisture                            | 4529 | 0.027 %     | Total Solids           | 203        | 4.62 mg/l       |
| M.B.A.S.                                         | 225  | 0.028 mg/l  | Total Suspended Solids | 206        | 3.0 mg/l        |
| Moisture                                         | 111  | 0.5 %       | Turbidity              | 279        | 0.063 NTU       |
| Moisture                                         | 1353 | 0.5 %       | Thiocyanate            | 8355       | 0.246 mg/l      |
|                                                  |      |             | UV Absorbance          | 7120       | 0.006 cm-1      |
|                                                  |      |             |                        |            |                 |
|                                                  |      |             |                        |            |                 |
|                                                  |      |             |                        |            |                 |
|                                                  |      |             |                        |            |                 |

Revised 12/19/01



## Raw Data

**Raw Data Logbook**  
**Sulfate (Turbidimetric)**  
**Analysis #1125**

Name of curve: 1125 11-29-01 SAG  
Corr. Coeff.: .999541  
Slope: 4.25821  
Y-intercept: -2.39749  
Std. Ref. (Book/pg): \_\_\_\_\_

Batch #: C U R V E                        

Before After  
10NTU = 9.61 9.77  
100NTU = 99.6 98.0

|    |               | Time: 10:15          |      | Day #: 01333    |          | Upld Date: |                  | 10NTU = 7.61       |            |             |     |                       |
|----|---------------|----------------------|------|-----------------|----------|------------|------------------|--------------------|------------|-------------|-----|-----------------------|
|    |               | Date: 11-29-01       |      | Inst. ID#: 6165 |          | Upld by:   |                  | 100NTU = 99.6      |            | 98.2        |     |                       |
|    |               | Init/Emp. #: SAE/227 |      |                 |          |            |                  |                    |            |             |     |                       |
|    | Sample Number | Sample Vol. (mL)     | D.F. | NTU             |          |            | Conc. From Curve | Calc. Value (mg/L) | LOQ (mg/L) | Spike Added | QC# | Comments              |
|    |               |                      |      | Sample          | -Samp BL | =Corr. NTU |                  |                    |            |             |     |                       |
| 1  | Blank         | 100                  | 1    | .364            | .102     | .262       | .62456           |                    | 5          |             |     |                       |
| 2  | 5mg/L         | ↓                    | ↓    | 19.0            | .369     | 18.731     | 4.96182          |                    | 5          |             |     | 1mL of 500mg/L - 7100 |
| 3  | 10mg/L        | ↓                    | ↓    | 39.3            | .304     | 38.996     | 9.72087          |                    | 5          |             |     | 2mL                   |
| 4  | 15mg/L        | ↓                    | ↓    | 60.2            | .333     | 59.867     | 14.62222         |                    | 5          |             |     | 3mL                   |
| 5  | 20mg/L        | ↓                    | ↓    | 80.9            | .581     | 80.319     | 19.42518         |                    | 5          |             |     | 4mL                   |
| 6  | 25mg/L        | ↓                    | ↓    | 105             | .437     | 104.563    | 25.11865         |                    | 5          |             |     | 5mL                   |
| 7  | 30mg/L        | ↓                    | ↓    | 126             | .316     | 125.684    | 30.07872         |                    | 5          |             |     | 6mL                   |
| 8  | 35mg/L        | ↓                    | ↓    | 150             | .717     | 149.283    | 35.62672         |                    | 5          |             |     | 7mL                   |
| 9  | 40mg/L        | ↓                    | ↓    | 168             | .804     | 167.196    | 39.82741         |                    | 5          |             |     | 8mL                   |
| 10 |               |                      |      |                 |          |            |                  |                    | 5          |             |     |                       |
| 11 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 12 | Blank         | 100                  | 1    | .934            | .393     | .541       | .69008           |                    |            |             |     | Raw = .469            |
| 13 | 20mg/L        | ↓                    | ↓    | 81.9            | .323     | 81.577     | 19.72061         |                    |            |             |     | Rec = 99%             |
| 14 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 15 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 16 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 17 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 18 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 19 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 20 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 21 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 22 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 23 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 24 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 25 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 26 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 27 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 28 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 29 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 30 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 31 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 32 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |
| 33 |               |                      |      |                 |          |            |                  |                    |            |             |     |                       |

1125 CURVE  
11-29-01

1125 CURVE  
11-29-01

D.F. = Dilution Factor

Verified by: RN/355

Date: 11/30/01

**Raw Data Logbook**  
**Sulfate (Turbidimetric)**  
**Analysis #1125**

Name of curve: 1125 11-29-01 SAE  
Corr. Coeff.: .999541  
Slope: 4.25821  
Y-intercept: -2.39749  
Std. Ref. (Book/pg): 031987 p 15

( $\times + 4 \text{ mL of } 500 \text{ mg/L}$ )

Batch #: 02002 112 501 A

|    |               |                  |      |                      |          |                   |                  |                    |            |             |        |                        |
|----|---------------|------------------|------|----------------------|----------|-------------------|------------------|--------------------|------------|-------------|--------|------------------------|
|    |               | Time: 6900       |      | Day #: 02002         |          | Upld Date: 1-2-02 |                  | 10 NTU = 9.69      |            | 9.6         |        |                        |
|    |               | Date: 1-2-02     |      | Inst. ID#: 6165      |          | Upld by: 227      |                  | 100 NTU = 97.8     |            | 97          |        |                        |
|    |               |                  |      | Init/Emp. #: SAE/227 |          |                   |                  |                    |            |             |        |                        |
|    | Sample Number | Sample Vol. (mL) | D.F. | NTU                  |          |                   | Conc. From Curve | Calc. Value (mg/L) | LOQ (mg/L) | Spike Added | QC#    | Comments               |
|    |               |                  |      | Sample               | -Samp BL | =Corr. NTU        |                  |                    |            |             |        |                        |
| 1  | Blank         | 100              | 1    | .457                 | .179     | .278              | .62831           | .6                 | 5          |             | (SS)   | Low .63                |
| 2  | 5mg/L         | 1                | 1    | 16.3                 | 1.23     | 15.07             | 4.16207          | 4.1                | 5          |             | (SS)   | Rec: 8.8%              |
| 3  | 40mg/L        | 1                | 1    | 16.7                 | 1.13     | 165.87            | 39.51601         | 39.5               | 5          |             | (SS)   | Rec: 99%               |
| 4  | 20mg/L CS     | 1                | 1    | 80.5                 | 0.343    | 80.157            | 19.38713         | 19.4               | 5          | 20          | 4 (SS) | * Rec: 97%             |
| 5  | 3748909       | 50               | 2    | 85.1                 | 3.18     | 81.92             | 19.80116         | 39.6               | 10         |             |        | SAE                    |
| 6  | 3748911       | 1                | 1    | 43.3                 | .870     | 42.43             | 10.52731         | 21.1               | 10         |             |        |                        |
| 7  | 3749340       | 1                | 100  | 81.3                 | 31.6     | 49.7              | 12.23460         | 123.5              | 500        |             |        |                        |
| 8  | 3749341       | 1                | 1    | 63.9                 | 6.18     | 57.72             | 14.11802         | 141.8              | 500        |             |        |                        |
| 9  | 20mg/L CS     | 100              | 1    | 79.9                 | .457     | 79.443            | 19.21946         | 19.2               | 5          | 20          | 4 (SS) | * Rec: 96.6% = 1.6     |
| 10 | 3749342       | .5               | 200  | 120                  | 115      | 5.0               | 1.73723          | 347.4              | 1000       |             | (240)  | 1mL → 1000 L SAE       |
| 11 | 3749343       | .25              | 4    | 13.4                 | 30.2     | 103.8             | 24.93947         | 99.8               | 20         |             |        |                        |
| 12 | 3749344       | 1                | 1    | 51.0                 | 14.7     | 36.3              | 9.08774          | 36.4               | 20         |             |        |                        |
| 13 | 3749345U      | 1                | 100  | 82.1                 | 5.00     | 77.1              | 18.6923          | 186.9              | 500        |             |        |                        |
| 14 | 20mg/L        | 100              | 1    | 81.5                 | .247     | 81.253            | 19.64452         | 19.6               | 5          |             |        | *                      |
| 15 | 3750934R      | .5               | 200  | 120                  | 2.26     | 117.74            | 28.21314         | 5642.6             | 1000       | 4000        | (SS)   | 1mL → 1000 L SAE       |
| 16 | 3750935M      | .5               | 200  | 122                  | 2.62     | 119.38            | 28.59828         | 5719.7             | 1000       | 4000        | (SS)   | * Rec: 94% p. 1%       |
| 17 | 3749346       | 1                | 100  | 90.3                 | 16.6     | 73.7              | 17.87077         | 178.1              | 500        |             |        |                        |
| 18 | 3749347       | 1                | 1    | 45.6                 | 1.39     | 44.21             | 10.94532         | 1094.5             | 500        |             |        |                        |
| 19 | 20mg/L CS     | 100              | 1    | 81.7                 | .337     | 81.363            | 19.67035         | 19.7               | 5          |             |        | *                      |
| 20 | 3749348       | 1                | 100  | 62.7                 | 41.0     | 21.7              | 5.65907          | 565.9              | 500        |             |        | SAE                    |
| 21 | 3749349       | 1                | 100  | 90.4                 | 4.77     | 85.63             | 20.67242         | 2067.2             | 500        |             |        |                        |
| 22 | 3749350       | .5               | 200  | 86.2                 | 76.3     | 9.9               | 2.88795          | 577.6              | 1000       |             |        | 1mL → 1000 L SAE (240) |
| 23 | 3749351       | 10               | 10   | 76.4                 | 8.31     | 68.09             | 16.55331         | 165.5              | 500        |             |        |                        |
| 24 | 20mg/L        | 100              | 1    | 81.1                 | .585     | 80.515            | 19.47121         | 19.5               | 5          |             |        | *                      |
| 25 | 3749352       | .5               | 200  | 88.9                 | 90.5     | -1.6              | 1.8728           | 37.5               | 1000       |             |        | 1mL → 1000 L SAE (240) |
| 26 | 3749353       | 1                | 100  | 49.0                 | 3.42     | 45.58             | 11.26706         | 1126.7             | 500        |             |        |                        |
| 27 | 3749354       | 1                | 100  | 10.4                 | 10.6     | -2.0              | .09335           | 9.3                | 500        |             |        | (240)                  |
| 28 | 3749355       | 50               | 2    | 80.1                 | 35.4     | 44.7              | 11.16040         | 22.1               | 10         |             |        |                        |
| 29 | 20mg/L        | 100              | 1    | 80.4                 | .509     | 79.891            | 19.32467         | 19.3               | 5          |             |        | *                      |
| 30 | 3749356U      | 50               | 2    | 86.5                 | 22.3     | 64.2              | 15.65979         | 31.3               | 10         |             |        |                        |
| 31 | 3749357       | 100              | 1    | .471                 | 1.10     | -1.629            | .41531           | .4                 | 5          |             |        |                        |
| 32 | 3749356 D     | 50               | 2    | 87.7                 | 24.1     | 63.6              | 15.49888         | 31.0               | 10         |             |        | Program Delta          |
| 33 | 20mg/L        | 100              | 1    | 80.3                 | .221     | 80.079            | 19.36882         | 19.4               | 5          |             |        | * 6                    |

D.F. = Dilution Factor

Verified by: RH/355

Date: 1/3/02

Batch#: 01358021202

## LLENS Worksheet for Total Dissolved Solids

12/26/01      12/27/01

Oven ID #: 6605      Temperature In: 181°      Temperature Out: 187° / 182°

Balance ID #: 8119      Std. Ref. (book/pg.): 031987p 38

| #   | Sample ID  | Date Added     | Crucible ID | Vol. | BC  | Comments                | Analysis# |
|-----|------------|----------------|-------------|------|-----|-------------------------|-----------|
| 1)  | BLK        | 12/24/01 09:34 | KCL         | 200  |     |                         |           |
| 2)  | LCS 200    | 12/24/01 09:34 | ABC         | 100  |     |                         |           |
| 3)  | 3747689    | 12/24/01 09:32 | 120         | 200  | 05A |                         | 00212     |
| 4)  | 3747810    | 12/24/01 09:32 | TOE         | 100  |     |                         | 00212     |
| 5)  | 3747810DUP | 12/24/01 09:34 | T9          | 100  |     |                         | 00212     |
| 6)  | 3747814    | 12/24/01 09:32 | BK          | 200  | 05B |                         | 00212     |
| 7)  | 3747816    | 12/24/01 09:32 | 211         | 200  |     |                         | 00212     |
| 8)  | 3747818    | 12/24/01 09:32 | AC          | 200  |     |                         | 00212     |
| 9)  | 3747820    | 12/24/01 09:32 | LML         | 200  |     |                         | 00212     |
| 10) | 3747822    | 12/24/01 09:32 | NAG         | 200  |     |                         | 00212     |
| 11) | 3748006    | 12/24/01 09:32 | 06          | 200  |     |                         | 00212     |
| 12) | 3748008    | 12/24/01 09:32 | 855         | 200  |     |                         | 00212     |
| 13) | 3748155    | 12/24/01 09:32 | CL6         | 10   | 05A |                         | 00212     |
| 14) | 3748156MS  | 12/24/01 09:32 | TAN         | 10   |     | total of 4000 mg/L      | 00212     |
| 15) | 3748157MSD | 12/24/01 09:32 | City        | 10   |     |                         | 00212     |
| 16) | 3749340    | 12/24/01 09:32 | C13         | 250  |     | R.3<br>SAC/227 12-24-01 | 00212     |
| 17) | 3749341    | 12/24/01 09:32 | 101         | 25   |     |                         | 00212     |
| 18) | 3749342    | 12/24/01 09:32 | 8           | 200  |     |                         | 00212     |
| 19) | 3749343    | 12/24/01 09:32 | out         | 200  |     |                         | 00212     |
| 20) | 3749344    | 12/24/01 09:32 | KID         | 200  |     |                         | 00212     |
| 21) | 3748592    | 12/24/01 09:34 | CHIC        | 200  |     |                         | 00212     |
| 22) | 3748593    | 12/24/01 09:34 | Sud         | 200  |     |                         | 00212     |

Signature: Susan Engle      Date: 12-24-01

Printed by 00227 on 12/24/2001 at 09:34

✓ RA/355 12/27/01

0463

Batch#: 01358021202

## LLENS Batch Chronology Report - Total Dissolved Solids

| #  | Operation          | Instrument | Date       | Time  | Analyst |
|----|--------------------|------------|------------|-------|---------|
| 1) | Batch Creation     |            | 12/24/2001 | 09:32 | 00227   |
| 2) | Tare Weight        | 008119     | 12/24/2001 | 13:20 | 00227   |
| 3) | Spiking Info       |            | 12/24/2001 | 13:22 | 00227   |
| 4) | Sample Volumes     |            | 12/24/2001 | 13:22 | 00227   |
| 5) | Final Dry Weight 1 | 008119     | 12/26/2001 | 09:02 | 00227   |
| 6) | Final Dry Weight 2 | 008119     | 12/26/2001 | 12:30 | 00227   |
| 7) | Final Dry Weight 3 | 008119     | 12/27/2001 | 07:35 | 00227   |
| 8) | Final Dry Weight 4 | 008119     | 12/27/2001 | 10:53 | 00284   |
| 9) | Calculate/Transmit | LLENS3     | 12/27/2001 | 10:59 | 00284   |

Comments:

✓RH/355 12/27/01

| Sample ID  | BL | MAN   | Rep # | Cruclible ID | Tare WL  | SPK Aliquot | SPK Conc | SPK Volume | Volume   | Dry wt#1 | Dry wt#4 | Spk Added | Wt%1 | Wt%4 | TDS (mg/L) |
|------------|----|-------|-------|--------------|----------|-------------|----------|------------|----------|----------|----------|-----------|------|------|------------|
| BLK        | A  |       |       | KCL          | 99.9973  |             |          | 200.00     | 99.9976  | 99.9976  |          |           |      |      | 1.50       |
| LCS 200    | A  |       |       | ABC          | 103.6931 |             |          | 100.00     | 103.7139 | 103.7142 |          |           |      |      | 207.00     |
| 3747689    | A  | 00212 |       | 120          | 109.7312 |             |          | 200.00     | 109.8267 | 109.8189 | 109.8116 | 109.8123  |      |      | 402.00     |
| 3747810    | A  | 00212 |       | TOE          | 105.0456 |             |          | 100.00     | 105.0889 | 105.0896 |          |           |      |      | 433.00     |
| 3747810DUP | A  | 00212 |       | T9           | 105.1330 |             |          | 100.00     | 105.1781 | 105.1784 |          |           |      |      | 451.00     |
| 3747814    | A  | 00212 |       | BK           | 102.7453 |             |          | 200.00     | 102.7757 | 102.7761 |          |           |      |      | 152.00     |
| 3747816    | A  | 00212 |       | 211          | 100.8809 |             |          | 200.00     | 100.9173 | 100.9165 | 100.9164 |           |      |      | 177.50     |
| 3747818    | A  | 00212 |       | AC           | 103.5924 |             |          | 200.00     | 103.6227 | 103.6231 |          |           |      |      | 151.50     |
| 3747820    | A  | 00212 |       | LML          | 101.6356 |             |          | 200.00     | 101.6434 | 101.6436 |          |           |      |      | 39.00      |
| 3747822    | A  | 00212 |       | NAG          | 102.3039 |             |          | 200.00     | 102.3056 | 102.3059 |          |           |      |      | 8.50       |
| 3748006    | A  | 00212 |       | 6            | 115.2463 |             |          | 200.00     | 115.3132 | 115.3191 |          |           |      |      | 334.50     |
| 3748008    | A  | 00212 |       | 855          | 101.9409 |             |          | 200.00     | 102.0087 | 102.0097 |          |           |      |      | 339.00     |
| 3748155    | A  | 00212 |       | C6           | 100.7373 |             |          | 10.00      | 100.9159 | 100.9229 |          |           |      |      | 17860.00   |
| 3748156MS  | A  | 00212 |       | TAN          | 103.7475 | 20.00       | 4000.00  | 10.00      | 103.9085 | 103.9126 |          |           |      |      | 16100.00   |
| 3748157MSD | A  | 00212 |       | CITY         | 110.4939 | 20.00       | 4000.00  | 10.00      | 110.6200 | 110.6203 |          |           |      |      | 12610.00   |
| 3749340    | A  | 00212 |       | C13          | 103.6545 |             |          | 25.00      | 103.7460 | 103.7465 |          |           |      |      | 3660.00    |
| 3749341    | A  | 00212 |       | 101          | 105.1550 |             |          | 25.00      | 105.2891 | 105.2888 |          |           |      |      | 5352.00    |
| 3749342    | A  | 00212 |       | 8            | 99.9299  |             |          | 200.00     | 100.0113 | 100.0120 |          |           |      |      | 407.00     |
| 3749343    | A  | 00212 |       | OUT          | 101.5258 |             |          | 200.00     | 101.5906 | 101.5895 | 101.5867 | 101.5868  |      |      | 304.50     |
| 3749344    | A  | 00212 |       | KID          | 105.1916 |             |          | 200.00     | 105.2434 | 105.2420 | 105.2422 |           |      |      | 252.00     |
| 3748592    | A  | 00212 |       | CHIC         | 109.4442 |             |          | 200.00     | 109.4714 | 109.4711 |          |           |      |      | 134.50     |
| 3748593    | A  | 00212 |       | SUD          | 110.4730 |             |          | 200.00     | 110.6071 | 110.6055 | 110.6058 |           |      |      | 662.50     |
| 3748594    | A  | 00212 |       | C17          | 101.4489 |             |          | 200.00     | 103.4941 | 103.4921 | 103.4907 | 103.4906  |      |      | 208.50     |
| 3748595    | A  | 00212 |       | WB           | 105.9983 |             |          | 200.00     | 106.1324 | 106.1320 |          |           |      |      | 668.50     |

Printed by 00284 on 12/27/2001 at 10:59

✓ RN/355 12/27/01

## Tare Weight Summary

| Sample ID  | Date/Time      | ID   | Wt.      | Analyst | Date/Time | ID | Wt. | Analyst | Date/Time | ID | Wt. | Analyst |
|------------|----------------|------|----------|---------|-----------|----|-----|---------|-----------|----|-----|---------|
| BLK        | 12/21/01 15:13 | KCL  | 99.9973  | 00284   |           |    |     |         |           |    |     |         |
| LCS 200    | 12/13/01 14:04 | ABC  | 103.6931 | 00284   |           |    |     |         |           |    |     |         |
| 3747689    | 12/13/01 13:55 | 120  | 109.7312 | 00284   |           |    |     |         |           |    |     |         |
| 3747810    | 12/13/01 14:03 | TOE  | 105.0456 | 00284   |           |    |     |         |           |    |     |         |
| 3747810DUP | 12/13/01 14:03 | T9   | 105.1330 | 00284   |           |    |     |         |           |    |     |         |
| 3747814    | 12/13/01 13:54 | BK   | 102.7453 | 00284   |           |    |     |         |           |    |     |         |
| 3747816    | 12/13/01 13:53 | 211  | 100.8809 | 00284   |           |    |     |         |           |    |     |         |
| 3747818    | 12/13/01 13:53 | AC   | 103.5924 | 00284   |           |    |     |         |           |    |     |         |
| 3747820    | 12/13/01 13:57 | LWL  | 101.6356 | 00284   |           |    |     |         |           |    |     |         |
| 3747822    | 12/13/01 13:56 | NAG  | 102.3039 | 00284   |           |    |     |         |           |    |     |         |
| 3748006    | 12/13/01 13:56 | 06   | 115.2463 | 00284   |           |    |     |         |           |    |     |         |
| 3748008    | 12/13/01 13:55 | 855  | 101.9409 | 00284   |           |    |     |         |           |    |     |         |
| 3748155    | 12/13/01 14:06 | C6   | 100.7373 | 00284   |           |    |     |         |           |    |     |         |
| 3748156    | 12/13/01 14:05 | TAN  | 103.7475 | 00284   |           |    |     |         |           |    |     |         |
| 3748157    | 12/13/01 14:04 | CITY | 110.4939 | 00284   |           |    |     |         |           |    |     |         |
| 3749340    | 12/13/01 14:02 | CL3  | 103.6545 | 00284   |           |    |     |         |           |    |     |         |
| 3749341    | 12/13/01 14:06 | 101  | 105.1550 | 00284   |           |    |     |         |           |    |     |         |
| 3749342    | 12/13/01 14:00 | 8    | 99.9299  | 00284   |           |    |     |         |           |    |     |         |
| 3749343    | 12/13/01 13:59 | OUT  | 101.5258 | 00284   |           |    |     |         |           |    |     |         |
| 3749344    | 12/13/01 13:58 | KID  | 105.1916 | 00284   |           |    |     |         |           |    |     |         |
| 3748592    | 12/13/01 13:58 | CHIC | 109.4442 | 00284   |           |    |     |         |           |    |     |         |
| 3748593    | 12/13/01 13:57 | SUD  | 110.4730 | 00284   |           |    |     |         |           |    |     |         |
| 3748594    | 12/13/01 14:01 | CL7  | 103.4489 | 00284   |           |    |     |         |           |    |     |         |
| 3748595    | 12/13/01 14:01 | WB   | 105.9983 | 00284   |           |    |     |         |           |    |     |         |
| 3748596    | 12/13/01 14:00 | OWL  | 103.1893 | 00284   |           |    |     |         |           |    |     |         |

Printed by 00284 on 12/27/2001 at 10:59

Batch#: 01360021201

## LLENS Worksheet for Total Dissolved Solids

Oven ID #: 6605 Temperature In: 187° Temperature Out: 184° 12/28/01  
 Balance ID #: 8119 Std. Ref. (book/pg.): 031987 p 38 182° 12/27/01

| #   | Sample ID   | Date Added     | Crucible ID | Vol. | BC  | Comments          | Analysis# |
|-----|-------------|----------------|-------------|------|-----|-------------------|-----------|
| 1)  | BLK         | 12/26/01 09:16 | SEH         | 200  |     |                   |           |
| 2)  | LCS 200     | 12/26/01 09:16 | ANT         | 100  |     |                   |           |
| 3)  | 3749046 BK. | 12/26/01 09:15 | LOW         | 10   | 05A |                   | 00212     |
| 4)  | 3749047MS   | 12/26/01 09:15 | 895         | 10   |     | +20ml of 4000mg/L | 00212     |
| 5)  | 3749048MSD  | 12/26/01 09:15 | KOB         | 10   |     |                   | 00212     |
| 6)  | 3749049     | 12/26/01 09:15 | MAYO        | 10   |     |                   | 00212     |
| 7)  | 3749050     | 12/26/01 09:15 | BSB         | 10   |     |                   | 00212     |
| 8)  | 3749051     | 12/26/01 09:15 | D21         | 10   |     |                   | 00212     |
| 9)  | 3749052     | 12/26/01 09:15 | D24         | 25   |     |                   | 00212     |
| 10) | 3749053     | 12/26/01 09:15 | BOX         | 100  |     |                   | 00212     |
| 11) | 3749054     | 12/26/01 09:15 | C11         | 10   |     |                   | 00212     |
| 12) | 3749345     | 12/26/01 09:15 | CAB         | 25   |     |                   | 00212     |
| 13) | 3749346     | 12/26/01 09:15 | C3          | 25   |     |                   | 00212     |
| 14) | 3749347     | 12/26/01 09:15 | PAT         | 25   |     |                   | 00212     |
| 15) | 3749347DUP  | 12/26/01 09:16 | MUD         | 25   |     |                   | 00212     |
| 16) | 3749348     | 12/26/01 09:15 | MJF         | 25   |     |                   | 00212     |
| 17) | 3749349     | 12/26/01 09:15 | 707         | 25   |     |                   | 00212     |
| 18) | 3749350     | 12/26/01 09:15 | TuB         | 50   |     |                   | 00212     |
| 19) | 3749351     | 12/26/01 09:15 | 14          | 200  |     |                   | 00212     |
| 20) | 3749352     | 12/26/01 09:15 | TuT         | 100  |     |                   | 00212     |
| 21) | 3749353     | 12/26/01 09:15 | E           | 25   |     |                   | 00212     |
| 22) | 3749354     | 12/26/01 09:15 | DOG         | 200  | ✓   |                   | 00212     |

Signature: Dusan Engle Date: 12-26-01  
 Printed by 00227 on 12/26/2001 at 09:16

✓RH/355 12/28/01

04667



Batch#: 01360021201

LLENS Worksheet for Total Dissolved Solids

Oven ID #: 6605 Temperature In: 187° Temperature Out: 184° 12/25/01  
Balance ID #: 8119 Std. Ref. (book/pg.): 031987 p.38

| #   | Sample ID | Date Added     | Crucible ID | Vol. | BC  | Comments | Analysis# |
|-----|-----------|----------------|-------------|------|-----|----------|-----------|
| 23) | 3749355   | 12/26/01 09:15 | B00         | 200  | 05A |          | 00212     |
| 24) | 3749356   | 12/26/01 09:15 | PAC         | 200  | ↓   |          | 00212     |
| 25) | 3749357   | 12/26/01 09:15 | 03          | 200  | ↓   |          | 00212     |

Signature: Dusan Engle Date: 12-26-01  
Printed by 00227 on 12/26/2001 at 09:16

1RH/355 12/28/01

Batch#: 01360021201

## LLENS Batch Chronology Report - Total Dissolved Solids

| #  | Operation          | Instrument | Date       | Time  | Analyst |
|----|--------------------|------------|------------|-------|---------|
| 1) | Batch Creation     |            | 12/26/2001 | 09:15 | 00227   |
| 2) | Tare Weight        | 008119     | 12/26/2001 | 12:12 | 00227   |
| 3) | Spiking Info       |            | 12/26/2001 | 12:14 | 00227   |
| 4) | Sample Volumes     |            | 12/26/2001 | 12:14 | 00227   |
| 5) | Final Dry Weight 1 | 008119     | 12/27/2001 | 07:38 | 00227   |
| 6) | Final Dry Weight 2 | 008119     | 12/27/2001 | 10:59 | 00284   |
| 7) | Final Dry Weight 3 | 008119     | 12/28/2001 | 08:35 | 00284   |
| 8) | Final Dry Weight 4 | 008119     | 12/28/2001 | 13:37 | 00284   |
| 9) | Calculate/Transmit | LLENS3     | 12/28/2001 | 13:41 | 00284   |

Comments:

✓RH/355 12/28/01

| Sample ID  | BI | MAN   | Rep # | Crucible ID | Tare Wt  | SPK Aliquot | SPK Conc | SPK Volume | Volume | Dry wt#1 | Dry wt#2 | Dry wt#3 | Dry wt#4 | Spk Added | %Rel Diff | TDS (mg/L) |
|------------|----|-------|-------|-------------|----------|-------------|----------|------------|--------|----------|----------|----------|----------|-----------|-----------|------------|
| BLK        | A  |       |       | SEH         | 101.7743 |             |          |            | 200.00 | 101.7746 | 101.7741 |          |          |           |           | -1.00      |
| LCS 200    | A  |       |       | ANT         | 101.2358 |             |          |            | 100.00 | 101.2562 | 101.2557 |          |          |           |           | 199.00     |
| 3749046    | A  | 00212 |       | COW         | 101.3697 |             |          |            | 10.00  | 101.5471 | 101.5235 | 101.5269 |          |           |           | 15380.00   |
| 3749047MS  | A  | 00212 |       | 895         | 109.7636 | 20.00       | 4000.00  | 10.00      | 10.00  | 109.9789 | 109.9859 |          |          |           |           | 21530.00   |
| 3749048MSD | A  | 00212 |       | KOB         | 109.7063 | 20.00       | 4000.00  | 10.00      | 10.00  | 109.9673 | 109.9370 | 109.9503 |          |           |           | 23070.00   |
| 3749049    | A  | 00212 |       | MAYO        | 107.9228 |             |          |            | 10.00  | 108.0359 | 108.0346 | 108.0338 | 108.0341 |           |           | 11100.00   |
| 3749050    | A  | 00212 |       | BSB         | 104.7477 |             |          |            | 10.00  | 104.8179 | 104.8112 | 104.8109 |          |           |           | 6320.00    |
| 3749051    | A  | 00212 |       | D21         | 100.7414 |             |          |            | 10.00  | 100.7983 | 100.7980 |          |          |           |           | 5660.00    |
| 3749052    | A  | 00212 |       | D24         | 103.4328 |             |          |            | 25.00  | 103.5015 | 103.5015 |          |          |           |           | 2748.00    |
| 3749053    | A  | 00212 |       | BOX         | 99.9267  |             |          |            | 100.00 | 99.9989  | 99.9986  |          |          |           |           | 719.00     |
| 3749054    | A  | 00212 |       | C11         | 101.8008 |             |          |            | 10.00  | 101.9532 | 101.9456 | 101.9652 |          |           |           | 14480.00   |
| 3749345    | A  | 00212 |       | CAB         | 106.1041 |             |          |            | 25.00  | 106.2110 | 106.2105 |          |          |           |           | 4256.00    |
| 3749346    | A  | 00212 |       | C3          | 103.5307 |             |          |            | 25.00  | 103.6326 | 103.6314 | 103.6304 | 103.6316 |           |           | 3988.00    |
| 3749347    | A  | 00212 |       | PAT         | 105.3854 |             |          |            | 25.00  | 105.4690 | 105.4686 |          |          |           |           | 3328.00    |
| 3749347DUP | A  | 00212 |       | MUD         | 103.6848 |             |          |            | 25.00  | 103.7686 | 103.7666 | 103.7662 |          |           | 2.19      | 3256.00    |
| 3749348    | A  | 00212 |       | MJF         | 106.8990 |             |          |            | 25.00  | 106.9740 | 106.9735 |          |          |           |           | 2980.00    |
| 3749349    | A  | 00212 |       | T07         | 111.7758 |             |          |            | 25.00  | 111.9039 | 111.9037 |          |          |           |           | 5116.00    |
| 3749350    | A  | 00212 |       | TUB         | 93.2232  |             |          |            | 50.00  | 93.2840  | 93.2926  | 93.2915  | 93.2929  |           |           | 1366.00    |
| 3749351    | A  | 00212 |       | 14          | 109.7902 |             |          |            | 200.00 | 109.8801 | 109.8791 | 109.8781 | 109.8797 |           |           | 439.50     |
| 3749352    | A  | 00212 |       | TUT         | 106.9875 |             |          |            | 100.00 | 107.0795 | 107.0790 |          |          |           |           | 915.00     |
| 3749353    | A  | 00212 |       | E           | 104.0644 |             |          |            | 25.00  | 104.1281 | 104.1277 |          |          |           |           | 2532.00    |
| 3749354    | A  | 00212 |       | DOG         | 101.2026 |             |          |            | 200.00 | 101.2588 | 101.2575 | 101.2519 | 101.2537 |           |           | 246.50     |
| 3749355    | A  | 00212 |       | BOO         | 102.8069 |             |          |            | 200.00 | 102.8381 | 102.8381 |          |          |           |           | 156.00     |
| 3749356    | A  | 00212 |       | PAC         | 103.4055 |             |          |            | 200.00 | 103.4462 | 103.4447 | 103.4432 | 103.4431 |           |           | 188.00     |

Printed by 00284 on 12/28/2001 at 13:41

✓ RN/355 12/28/01

| Sample ID | BI | MAN   | Rep # | Crucible ID | Tare Wt | SPK Aliquot | SPK Conc | SPK Volume | Volume  | Dry wt#1 | Dry wt#2 | Dry wt#3 | Dry wt#4 | Spk Added | %Rel Diff | TDS (mg/L) |
|-----------|----|-------|-------|-------------|---------|-------------|----------|------------|---------|----------|----------|----------|----------|-----------|-----------|------------|
| 3749357   | A  | 00212 |       |             | 3       | 108.2900g   |          |            | 200.00- | 108.2910 | 108.2908 |          |          |           |           | 1.00       |

Printed by 00284 on 12/28/2001 at 13:41

✓ RH/355 12/28/01

## Tare Weight Summary

| Sample ID  | Date/Time      | ID   | Wt.      | Analyst | Date/Time | ID | Wt. | Analyst | Date/Time | ID | Wt. | Analyst |
|------------|----------------|------|----------|---------|-----------|----|-----|---------|-----------|----|-----|---------|
| BLK        | 12/21/01 15:14 | SEH  | 101.7743 | 00284   |           |    |     |         |           |    |     |         |
| LCS 200    | 12/17/01 16:16 | ANT  | 101.2358 | 00284   |           |    |     |         |           |    |     |         |
| 3749046    | 12/17/01 16:20 | COW  | 101.3697 | 00284   |           |    |     |         |           |    |     |         |
| 3749047    | 12/17/01 16:19 | 895  | 109.7636 | 00284   |           |    |     |         |           |    |     |         |
| 3749048    | 12/17/01 16:23 | KOB  | 109.7063 | 00284   |           |    |     |         |           |    |     |         |
| 3749049    | 12/17/01 16:22 | MAYO | 107.9228 | 00284   |           |    |     |         |           |    |     |         |
| 3749050    | 12/17/01 16:25 | BSB  | 104.7477 | 00284   |           |    |     |         |           |    |     |         |
| 3749051    | 12/17/01 16:25 | D21  | 100.7414 | 00284   |           |    |     |         |           |    |     |         |
| 3749052    | 12/17/01 16:29 | D24  | 103.4328 | 00284   |           |    |     |         |           |    |     |         |
| 3749053    | 12/17/01 16:17 | BOX  | 99.9267  | 00284   |           |    |     |         |           |    |     |         |
| 3749054    | 12/17/01 16:27 | C11  | 101.8008 | 00284   |           |    |     |         |           |    |     |         |
| 3749345    | 12/17/01 16:23 | CAB  | 106.1041 | 00284   |           |    |     |         |           |    |     |         |
| 3749346    | 12/17/01 16:21 | C3   | 103.5307 | 00284   |           |    |     |         |           |    |     |         |
| 3749347    | 12/17/01 16:29 | PAT  | 105.3854 | 00284   |           |    |     |         |           |    |     |         |
| 3749347DUP | 12/17/01 16:26 | MUD  | 103.6848 | 00284   |           |    |     |         |           |    |     |         |
| 3749348    | 12/17/01 16:20 | MJF  | 106.8990 | 00284   |           |    |     |         |           |    |     |         |
| 3749349    | 12/17/01 16:24 | 707  | 111.7758 | 00284   |           |    |     |         |           |    |     |         |
| 3749350    | 12/17/01 16:21 | TUB  | 93.2232  | 00284   |           |    |     |         |           |    |     |         |
| 3749351    | 12/17/01 16:16 | 14   | 109.7902 | 00284   |           |    |     |         |           |    |     |         |
| 3749352    | 12/17/01 16:17 | TUT  | 106.9875 | 00284   |           |    |     |         |           |    |     |         |
| 3749353    | 12/17/01 16:24 | E    | 104.0644 | 00284   |           |    |     |         |           |    |     |         |
| 3749354    | 12/17/01 16:18 | DOG  | 101.2026 | 00284   |           |    |     |         |           |    |     |         |
| 3749355    | 12/17/01 16:15 | BOO  | 102.8069 | 00284   |           |    |     |         |           |    |     |         |
| 3749356    | 12/17/01 16:19 | PAC  | 103.4055 | 00284   |           |    |     |         |           |    |     |         |
| 3749357    | 12/17/01 16:14 | O3   | 108.2906 | 00284   |           |    |     |         |           |    |     |         |

Printed by 00284 on 12/28/2001 at 13:41

# Raw Data



# Raw Data Notebook

## Total Organic Carbon Analyzer, O.I.

Sample Loop: 1.0 mL Instrument #: 5214

Date: 01-04-02 Analyst: [Signature]

Calibration Constant: 0.0584 µg C/mv Run #: 

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 0 | 2 | 0 | 0 | 2 | 1 |
|---|---|---|---|---|---|

Standard Mass: 25.0 µg C

| Sample Number | Raw Result (mg/L) | DF                   | Calc. Result (mg/L) | Trial # | Inj. # | Time | Batch Number   | SDG | Comments           |
|---------------|-------------------|----------------------|---------------------|---------|--------|------|----------------|-----|--------------------|
| J75 ZJJ2-L    | 2.222             | 1                    | 2.3                 | ✓       | 221    | 0745 | 02004 0111 11A |     |                    |
| ZJJ2-D        | 2.019             | 1                    | 2.0                 | ✓       | 222    | 0753 |                |     | 7D.                |
| ZJJ2-R        | 10.084            | 10mL + 2mL<br>500ppm | 10.9                | ✓       | 223    | 0801 |                |     | +9.8mg/L, 10-88.1  |
| ZJ54          | 2.461             | 1                    | 2.5                 | ✓       | 224    | 0810 |                |     |                    |
| ZJ55          | 1.252             | 1                    | 1.252               | ✓       | 225    | 0818 |                |     |                    |
| LCV           | 24.554            |                      | Ⓢ                   |         | 226    | 0826 |                |     | re = 98.1          |
| LCB           | 0.274             |                      | ↓                   |         | 227    | 0834 |                |     |                    |
| FILTER BLANK  | 2.039             | 1                    | 2.039               | 1       | 228    | 0842 |                |     | CH 1412            |
| J75 ZJJ3      | 2.458             | 1                    | 2.5                 | ✓       | 229    | 0850 | 02004 0111 11A |     |                    |
| J654          | 2.067             | 1                    | 2.1                 | ✓       | 230    | 0858 |                |     |                    |
| J656          | 8.658             | 1                    | 8.7                 | ✓       | 231    | 0906 |                |     |                    |
| J657          | 2.411             | 1                    | 2.4                 | ✓       | 232    | 0914 |                |     |                    |
| J658          | 9.059             | 1                    | 9.1                 | ✓       | 233    | 0922 |                |     |                    |
| LCV           | 24.819            |                      | Ⓢ                   |         | 234    | 0930 |                |     | Re = 99.1          |
| LCB           | 0.464             |                      | ↓                   |         | 235    | 0938 |                |     |                    |
| PBW           | 0.229             | 1                    | 0.229 Ⓢ             | ✓       | 236    | 0952 | 02004 0111 12A |     |                    |
| LC5H          | 8.977             | 5x                   | 45. ↓               | ✓       | 237    | 1000 |                |     | 51.5mg/L Re = 87.1 |
| J74 9340 (A)  | 152.350           |                      | OR                  |         | 238    | 1008 |                |     | HPLC3 152.350 801  |
| (B)           | 159.454           |                      |                     |         | 239    | 1016 |                |     |                    |
| (C)           | 152.767           |                      |                     |         | 240    | 1024 |                |     |                    |
| (D)           | 157.242           |                      |                     |         | 241    | 1032 |                |     |                    |
| J74 9341 (A)  | 1.267             |                      |                     |         | 242    | 1040 |                |     | 0111 14.02         |
| (B)           | 0.575             |                      |                     |         | 243    | 1057 |                |     |                    |

Verified by: [Signature] Date: 1/07/02



# Raw Data Notebook

## Total Organic Carbon Analyzer, O.I.

Sample Loop: 1.0 mL Instrument #: 5214

Date: 01-04-02 Analyst: JRM

Calibration Constant: 0.05840 µg C/mv Run #: 

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 0 | 2 | 0 | 0 | 2 | 1 |
|---|---|---|---|---|---|

Standard Mass: 75.0 µg C

| Sample Number | Raw Result (mg/L) | DF  | Calc. Result (mg/L) | Trial # | Inj. # | Time | Batch Number  | SDG   | Comments  |
|---------------|-------------------|-----|---------------------|---------|--------|------|---------------|-------|-----------|
| J749J41 (A)   | 0.45              |     |                     |         | 154    | 1106 | 02004 014 12A | HML03 | BC01      |
| (B)           | 0.231             |     |                     |         | 255    | 1114 | ↓             | ↓     | ↓         |
| CV            | 24.360            |     | Ⓟ                   |         | 752    | 1203 |               |       | 10 = 99.2 |
| CB            | 0.384             |     | ↓                   |         | 757    | 1251 |               |       |           |
| J749J42 (A)   | 0.686             | 75x | < 3x LCR            | 1       | 257    | 1279 | 02004 014 12A | HML03 | BC01      |
| (B)           | 2.322             | ↓   | ↓                   | ↓       | 259    | 1247 |               |       |           |
| (C)           | 0.842             | ↓   | ↓                   | ↓       | 260    | 1255 |               |       |           |
| (D)           | 0.542             | ↓   | ↓                   | ↓       | 261    | 1303 |               |       |           |
| J749J43 (A)   | 0.252             | 75x | < 3x LCR            | 1       | 262    | 1311 |               |       |           |
| (B)           | 0.200             | ↓   | ↓                   | ↓       | 263    | 1319 |               |       |           |
| (C)           | 0.159             | ↓   | ↓                   | ↓       | 264    | 1327 |               |       |           |
| (D)           | 0.205             | ↓   | ↓                   | ↓       | 265    | 1335 | ↓             | ↓     |           |
| CV            | 24.636            |     | Ⓟ                   |         | 766    | 1347 |               |       | 10 = 99.2 |
| CB            | 0.255             |     | ↓                   |         | 767    | 1352 |               |       |           |
| J749J44 (A)   | 0.226             | 75x | < 2 LCR             | 1       | 268    | 1400 | 02004 014 12A | HML03 | BC01      |
| (B)           | 0.257             | ↓   | ↓                   | ↓       | 269    | 1408 |               |       |           |
| (C)           | 0.226             | ↓   | ↓                   | ↓       | 270    | 1416 |               |       |           |
| (D)           | 0.242             | ↓   | ↓                   | ↓       | 271    | 1424 |               |       |           |
| J749J45 (A)   | 14.665            | 25x |                     | 1       | 272    | 1432 |               |       |           |
| (B)           | 14.925            |     | 423. X              |         | 273    | 1440 |               |       |           |
| (C)           | 17.029            |     |                     |         | 274    | 1448 |               |       |           |
| (D)           | 17.016            |     |                     |         | 275    | 1452 | ↓             | ↓     |           |
| CV            | 24.767            |     | Ⓟ                   |         | 276    | 1504 |               |       | 10 = 99.2 |

Verified by: JRM/1/130

Date: 1/7/02

# Raw Data Notebook

## Total Organic Carbon Analyzer, O.I.

Sample Loop: 1.0 mL Instrument #: 5214

Date: 6.14.02 Analyst: JMA

Calibration Constant: 6.15840 µg C/mv Run #: 

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 0 | 2 | 0 | 0 | 2 | 1 |
|---|---|---|---|---|---|

Standard Mass: 75.0 µg C

| Sample Number | Raw Result (mg/L) | DF                                   | Calc. Result (mg/L) | Trial # | Inj. # | Time | Batch Number   | SDG    | Comments               |
|---------------|-------------------|--------------------------------------|---------------------|---------|--------|------|----------------|--------|------------------------|
| 128           | 0.433             | 67m <sup>11</sup><br>1.401           |                     |         | 277    | 1512 |                |        | 80                     |
| J750934 R(A)  | 27.156            | 67m <sup>11</sup><br>(1524)<br>1.401 |                     | 1       | 278    | 1520 | 02004 0111 12A | HALCO3 | +245. mg/L, 12 = 105.1 |
| (B)           | 27.288            |                                      | 681.                | X       | 279    | 1529 |                |        |                        |
| (C)           | 27.167            |                                      |                     |         | 280    | 1537 |                |        |                        |
| (D)           | 27.307            |                                      |                     |         | 281    | 1545 |                |        |                        |
| J750935 M(A)  | 26.489            | 67m <sup>11</sup><br>(1524)<br>1.401 |                     | 1       | 282    | 1553 |                |        | +245. mg/L, 12 = 99.1  |
| (B)           | 26.799            |                                      | 665.                | X       | 283    | 1601 |                |        |                        |
| (C)           | 26.404            |                                      |                     |         | 284    | 1609 |                |        | RP = 2 (B)             |
| (D)           | 26.742            |                                      |                     |         | 285    | 1617 |                |        |                        |
| 129           | 24.841            |                                      | (B)                 |         | 286    | 1625 |                |        | 12 = 99.1              |
| 128           | 0.514             |                                      |                     |         | 287    | 1633 |                |        |                        |
| J749346 1A    | 16.319            | 75x                                  |                     | 1       | 288    | 1641 | 02004 0111 12A | HALCO3 | 801                    |
| (B)           | 16.166            |                                      | 407.                | X       | 289    | 1649 |                |        |                        |
| (C)           | 16.311            |                                      |                     |         | 290    | 1657 |                |        |                        |
| (D)           | 16.286            |                                      |                     |         | 291    | 1704 |                |        |                        |
| J749347 1A    | 10.663            | 75x                                  |                     | 1       | 292    | 1714 |                |        |                        |
| (B)           | 10.531            |                                      | 265                 | X       | 293    | 1722 |                |        |                        |
| (C)           | 10.700            |                                      |                     |         | 294    | 1730 |                |        |                        |
| (D)           | 10.520            |                                      |                     |         | 295    | 1738 |                |        |                        |
| 129           | 24.758            |                                      | (B)                 |         | 296    | 1746 |                |        | 12 = 99.1              |
| 128           | 0.548             |                                      |                     |         | 297    | 1754 |                |        |                        |
| J749348 1A    | 4.703             | 75x                                  | < 3x 100            | 1       | 298    | 1802 | 02004 0111 12A | HALCO3 | gross 801              |
| (B)           | 4.667             |                                      |                     |         | 299    | 1810 |                |        |                        |

Verified by: /hmc1130

Date: 6/17/02